LANscape® Solutions

Fiber Optic Data Sheet Collection

2009/10

1 Plug & Play

1.1. EDGE

1.2. Plug & Play Low Loss

1.3. Plug & Play Standard

1.4. Plug & Play Trunk Brackets

LANscape® Pretium® EDGE (Evolved-Density, Growth-Enabled) Solutions

A LANscape® Pretium® Solutions Product

features and benefits |

Innovative drawer-style hardware	Offers unprecedented patchcord/connector access while achieving the highest port density in the market of 576 fibres in a 4U housing and 96 fibres in a 1U housing
Bend-insensitive fibre cables	Corning®ClearCurve® fibres enable tighter trunk cable bends for slack storage and routing and reduce system downtime
Data centre standard compliant	Comply to EN 50173-5 and TIA 942
Custom engineered harness assemblies	Allow seamless integration into the most common SAN directors
Low insertion loss	Allows flexible network design with longer links and multiple interconnects
Shuttered modules	One-handed operation, no need for dust caps
Universal polarity system	Enables moves, adds and changes without polarity concerns; provides a simple migration path from 2-fibre to parallel optic applications
100% factory-tested solutions	Provide consistent quality, ensure system performance and reduce installation time

Corning Cable Systems LANscape® Pretium®EDGE (Evolved-Density, Growth-Enabled) Solutions are high-density pre-terminated optical cabling systems that simplify installation and improve performance in data centre environments. Pretium EDGE Solutions provide increased system density and offer the highest port density in the market. The modular system approach with pre-terminated components allows for reduced installation time and faster moves, adds and changes (MACs).

Corning Cable Systems' factory-terminated solutions provide improved system performance, ensure component compatibility and yield consistent quality.

Pretium EDGE consists of optical trunks and extender trunks, modules, harnesses, housings and jumpers with reduced cable diameters and bending radii, enabled by ClearCurve optical fibre.

Pretium EDGE Solutions, 4U Housing (closed)

RoHS COMPLIANT

100G READY

CORNING | LANscape® Pretium® Solutions

Pretium EDGE Solutions

A LANscape® Pretium® Solutions Product

ClearCurve Multimode and Single-mode fibres are developed and manufactured by Corning to provide superior bend performance and resilience in fibre optic cabling systems. Innovative fibre design in core, cladding and coating ensures leading performance with full compatibility to the most recent fibre standards.

Corning Cable Systems has been making MTP®-based fibre optic cabling systems for more than a decade, exceeding 10 Million terminations on MTP connectors.

The entire system follows an easy snap-and-latch approach – from the installation of modules and cables to the connection of system components at the fibre interface. There is no time-consuming fibre preparation and termination, and there are no consumables or piece parts. No tools are required other than a screwdriver for installation of hardware.

Pre-terminated trunk cabling systems fitted with a factory-installed protective pulling grip are routed through the cabling pathways and spaces. Once deployed, the pulling grip is removed and the MTP connectors on both ends are plugged into connector panels or modules.

High-density MTP Connector-based trunk systems plug into breakout modules or harnesses for a simple, fast-to-deploy, modular solution with easy scalability.

Modules and harnesses conveniently load into Pretium EDGE Solutions hardware, and correct fibre polarity is guaranteed throughout the systems' link by the Universal Wiring scheme.

Pretium EDGE Solutions products are packaged in recycled material, and the packaging is 100 % recyclable.

12-Fibre Pretium EDGE Solutions Trunk

144-Fibre Pretium EDGE Solutions Trunk

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specifications | connectivity and fibre

Connected mated pairs with single or multi fibre connectors		
Connector type Ferrule Housing	**MTP** Composite Composite	**LC/PC** Ceramic Composite
Colour MM OM3 50 µm MM OM4 50 µm SM OS2 (E9)	**Housing/Boot** Aqua/Black Aqua/Black Green/Black(APC)	**Housing/Boot** Black/Aqua Black/Aqua Blue/Blue (UPC)
Loss max (dB) MM Loss max. (dB) SM Back reflection typical (dB) SM	< 0.35 < 0.75 <-65 (APC)	< 0.15 < 0.50 < -58 (UPC)
Durability change to FOTP -21 Max. tensile load on connector	< 0.2 dB, 200 rematings 44N for 2.9 mm legs	< 0.2 dB, 500 rematings 44 N for 2.0 mm legs

Specification of modules/harnesses (max. 4m)	
Loss max. (dB)	
MM Low Loss	< 0.5
SM Standard	< 1.3

Fibre Characteristics			
	ClearCurve Multimode 50/125 µm OM3 Pretium 300	ClearCurve Multimode 50/125 µm OM4 Pretium 550	Single-mode 9/125µm SMF-28e XB™ OS2
Laser Bandwidth at 850 nm	2000 MHz	4700 MHz km	N/A
Fibre core diameter	50.0 ± 2.5 µm	50.0 ± 2.5 µm	N/A
Mode field diameter 1310 nm	N/A	N/A	9.2 ± 0.4 µm
Mode field diameter 1550 nm	N/A	N/A	10.4 ± 0.5 µm
Typical attenuation	2.5/0.7 dB/km (850 nm/1300 nm)	2.5/0.7 dB/km (850 nm/1300 nm)	0.36/0.22 dB/km (1310 nm/1550 nm)
Induced attenuation, 7.5 mm radius, 250 µm coated fibre at 850 nm	< 0.2 dB	< 0.2 dB	N/A
Induced attenuation, 10 mm radius, 250 µm coated fibre at 1550 nm	N/A	N/A	< 0.50 dB
Fibre meets or exceeds standards	TIA/EIA 492AAAC-A, ISO/IEC 11801 OM3, tested with minEMBc method to TIA/EIA 455-220 IEC 60793-2-10 Type A1a.2 Ed. 2.0 and IEC 60793-1-49 Ed. 2.0	TIA/EIA 492AAAC-A, ISO/IEC 11801 OM4 (proposal), tested with minEMBc method to TIA/EIA 455-220 IEC 60793-2-10 Type A1a.2 Ed. 2.0 and IEC 60793-1-49 Ed. 2.0	TIA/EIA 492AAAC-A, IEC 60793-2-10 Type B1.3 ISO/IEC 11801 OS2 Telcordia GR 20, complies with ITU-T G. 652Table D and G. 657Table A

Pretium EDGE Solutions Trunk Cables

A LANscape® Pretium® Solutions Product

features and benefits |

- Provide 12 to 144 fibre connectivity
- Utilize MTP Connectors
  - Small Form Factor
  - 12-fibre push/pull optical connectors
  - minimize errors and reduce space
- Allow for lower bend radii and smaller slack loops
- Enable up to 6x the cable tray capacity over traditional bulkier cabling solutions
- Save up to 65 percent space
- Minimize cable tray weight and improve air flow
- Meet the highest skew criteria for 100G
- Feature round furcation legs that provide easy routing and improved storage
- Feature small-profile furcation plugs
  - allow stress-free cable mounting
  - leave no legs outside the housing
  - are shipped with strain-relief mounting cradles
- Are available with optional flexible pulling grips that
  - allow easy installation around corners
  - allow trunk pull through conduits up to 450 N
  - provide complete protection for connectors
- Are shipped on a light-weight reel for easy installation

specifications | trunk cables

Cable Ratings/Listings Low Smoke (IEC 61034), Zero Halogen (IEC 60754-1), Flame Retardant (IEC 60332-3), Non-corrosive (IEC 60754-2)

Cable Characteristics								
Temperature range		Laying and installation Operation Transport and Storage			-5 to + 50 °C -20 to + 60 °C -25 to + 70 °C			
Fibre Count	**Cable Diametre (mm)**	**Cable Weight (kg/km)**	**Min. bend radius installation (mm)**	**Min. bend radius in service (mm)**	**Max. tensile load installation (N)**	**Crush resistance short term (N/10cm)**	**Fire rating (MJ/m)**	**Pulling Grip (mm)**
1 x (1x12) distribution	4.6	19	46	23	400	750	0.48	41
1 x (2x12) distribution	5.2	41	52	26	600	750	0.58	41
1 x (3x12) distribution	7.6	41	76	38	600	750	0.58	56
1 x (4x12) distribution	7.6	41	76	38	600	750	0.58	56
1 x (6x12) distribution	9.0	41	90	45	600	750	0.58	56
1 x (8x12) distribution	9.0	41	90	45	600	750	0.58	56
1 x (12x12) distribution	9.0	41	90	45	600	750	0.58	56

Pretium EDGE Solutions Trunk Cables

A LANscape® Pretium® Solutions Product

specifications | pulling grip

Mechanical Characteristics Pulling Grip

Cable Fibre Count	Grip/Plug Size	Pulling grip tensile (N)	Pull grip outer diameter (mm)	Min. duct size diameter (mm)
12	1	400	41	64
24	1	450	41	64
36-144	2	450	56	89

Pretium EDGE Solutions Trunk Packaging

Pretium EDGE Solutions Trunk Pulling Grip Integration System

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Pretium EDGE Solutions Trunk Cables

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ordering information |

1	2	3	4	5	6	7	8		9			
					L	Z			U			M

1

Select grip application.

G = Grip on first end only package outside of reel
D = Grip on both ends (double)
Z = No grip

2

Select MTP Connector on first end (packaged outside reel).

75 = MTP MM low loss (without pins)
90 = MTP/APC SM (without pins)

3

Select MTP Connector (second end packaged inside of reel).

use same options as in 2

4

Select fibre count.

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5

Select fibre type.

T = ClearCurve Multimode 50/125 µm OM3 Pretium 300
Q = ClearCurve Multimode 50/125 µm OM4 Pretium 550
G = Single-mode fibre 9/125 µm SMF 28e XB OS2

6

Cable type.

LZ = Low Smoke, Zero Halogen, FRNC, data centre distribution cable

7

Select trunk furcation leg length for first end.

5 = 500 mm (+70/-0 mm), for EDGE 4U-RDH
8 = 840 mm (+70/-0 mm), for EDGE 1U

8

Select trunk furcation leg length for second end.

use same options as in 7

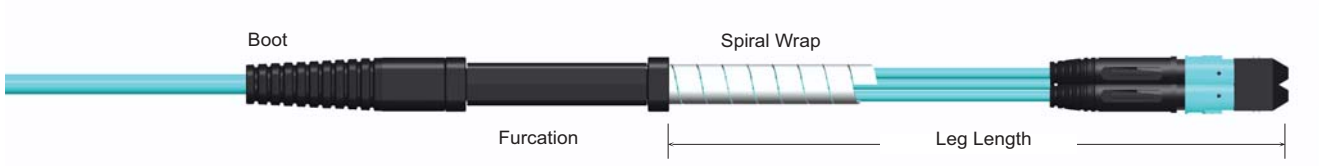
9

Select overall length.

002-999 metre*
*Trunk length is measured from furcation plug to furcation plug (+1m/-0)

Example: D757524TLZ55U050M

Description: Pretium EDGE Solutions MTP Trunk: Pulling grip on both sides, MTP pinless connectors, 24 ClearCurve Multimode 50/125m OM3 Pretium 300 fibres , LSZH/FRNC data centre cable, aqua sheath, 500mm legs for use in EDGE-04U-RDH housings, trunk length 50m and Universal Wiring. Delivered with 2 trunk holders and test report.



Pretium EDGE Solutions Trunk Cable Configuration

Note: Spiral wrap used on 12- to 36-fibre trunks only.

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Pretium EDGE Solutions Extender Trunks

A LANscape® Pretium® Solutions Product

features and benefits |

- Extend subsets of links from zone distribution into equipment zones
- Feature pinned (male) MTP Connectors on one end and non-pinned (female) MTP Connectors on the other
- Pinned MTP side mates with trunks via MTP connector panels
- Non-pinned MTP side plugs into modules or harnesses

ordering information |

1	2	3	4	5	6	7	8		9			
☐	☐	☐	☐	☐	☐	☐	☐	L	Z	☐	☐	X	☐	☐	☐	M

1

Select grip application.

G = Grip on first end only package outside of reel
D = Grip on both ends (double)
Z = No grip

2

Select MTP Connector on first end (packaged outside reel).

93 = MTP MM low loss (with pins)
89 = MTP/APC SM (with pins)

3

Select MTP Connector (second end packaged inside of reel).

75 = MTP lowloss (without pins)
90 = MTP/APC SM (without pins)

4

Select fibre count.

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5

Select fibre type.

T = ClearCurve Multimode 50/125 µm OM3 Pretium 300
Q = ClearCurve Multimode 50/125 µm OM4 Pretium 550
G = Single-mode fibre 9/125 µm SMF 28e XB OS2

6

Cable type.

LZ = Low Smoke, Zero Halogen, FRNC, data centre distribution cable

7

Select trunk furcation leg length for first end to front of panel (packaged outside of reel).

B = 1000 mm (+70/-0 mm) for EDGE 4U-RDH
C = 1500 mm (+70/-0 mm) for EDGE 1U

8

Select trunk furcation leg length for second end to rear of panel (packaged inside of reel).

5 = 500 mm (+70/-0 mm) for EDGE 4U-RDH
8 = 840 mm (+70/-0 mm) for EDGE 1U

9

Select overall length.

002-999 metre*
*Trunk length is measured from furcation plug to furcation plug (+1m/-0)

Example: G937548TLZB5X030M

Description: Pretium EDGE Solutions MTP Extender Trunk: Pulling grip on 1st end, MTP pinned connectors on 1st end (in pulling grip), MTP pinless connectors on 2nd end, 48 ClearCurve Multimode 50/125m OM3 Pretium 300 fibres , LSZH/FRNC data centre cable, aqua sheath, 1000mm legs on 1st end for front connection to EDGE-04U-RDH housing, 500mm legs on 2nd end for rear connection to EDGE-04U-RDH housing, trunk length 30m with Universal Wiring. Delivered with 2 trunk holders and test report.

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Pretium EDGE Solutions Modules

A LANscape® Pretium® Solutions Product

features and benefits |

- Break out 12-fibre MTP terminations into LC duplex connectivity
- Low loss connectivity enables system design flexibility
- Feature LC duplex port adapters across the front and a MTP adapter in the back
- Internal wiring (Universal Polarity) ensures correct fibre polarity throughout the system
- Feature LC duplex adapters with translucent inward folding shutters
  - no need for dust caps
  - provide reliable dust protection
  - allow fibre identification with VFL (visual fault locator)
  - diffuse VFL light
  - eye safety by diffusing laser light
  - single-handed LC duplex operation
  - no contact with connector end-face
- Install fast from front or rear of housing
  - all steps can be performed from one side of a cabinet row (trunk attach, leg routing, MTP connection, module insertion)
- Enable pay-as-you-grow approach to network installation
- Can be easily upgraded with MTP panels to
  - accommodate changing requirements while leaving trunk cable infrastructure in place
  - allow seamless upgrades to parallel optics
- Are packaged in easy-open containers

Pretium EDGE Solutions Module

VFL-Compatible Shutter

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Pretium EDGE Solutions Modules

A LANscape® Pretium® Solutions Product

ordering information |

ECM-UM □□ □□ □□ □

1 2 3 4

1

Fibre count.

12 = 12 fibres

2

Select front side adapter types.

05 = shuttered LC duplex, Multimode, ceramic insert, aqua

04 = shuttered LC duplex, Single-mode, ceramic insert, blue

3

Select rear side adapter types

93 = MTP, Multimode, aqua, contains low loss pinned MTP

89 = MTP/APC, Single-mode, green, contains pinned MTP

4

Select fibre type.

T = ClearCurve Multimode 50/125 µm OM3 Pretium 300

Q = ClearCurve Multimode 50/125 µm OM4 Pretium 550

G = Single-mode fibre 9/125 µm SMF 28e XB OS2

specifications | modules

Product Details		
ECM-UM12 Module	**Dimensions H x W x D (mm)** 9 x100 x 125	**Weight (kg)** 0.056

Example: ECM-UM12-05-93T

Description: Pretium EDGE Solutions Module: 6 LC duplex shuttered adapters, aqua on front side, 1 MTP aqua adapter on rear side, ClearCurve Multimode 50/125m OM3 Pretium 300 fibres, Universal Wiring. Delivered with test report.

Pretium EDGE Solutions Harnesses

A LANscape® Pretium® Solutions Product

features and benefits |

- Break out 12-fibre MTP terminations into LC duplex connectors
- Connect to trunks through a pinned MTP Connector
- Plug into dual-fibre electronics ports with LC uniboot duplex connectors.
- Occupy less space than 6 duplex jumpers
- Improve airflow for cooling efficiency
- Enable higher density in equipment patch panels
- Ease handling of cable connections on high-fibre count SAN directors and switch blades
- Feature custom-engineered taper to match electronics port pitch
- Facilitate neat routing through unique snap-on features
- Are available in two lengths
  - short harness legs for minimal cable slack
  - long harness legs for mounting flexibility within a cabinet

Pretium EDGE Solutions Harness

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Pretium EDGE Solutions Harnesses

A LANscape® Pretium® Solutions Product

ordering information |

H □□ □□ 12 □ LZ □ -Z □□□□
1 2 3 4 5 6

1

Select MTP Connector.

93 = Multimode, pinned,
89 = Single-mode, pinned

2

Select duplex connector.

79 = LC duplex uniboot MM
78 = LC duplex uniboot SM

3

Select fibre type.

T = ClearCurve Multimode 50/125 µm OM3 Pretium 300
Q = ClearCurve Multimode 50/125 µm OM4 Pretium 550
G = Single-mode fibre 9/125 µm SMF 28e XB OS2

4

Cable type.

LZ = Low Smoke, Zero Halogen, FRNC, data centre distribution cable

5

Select leg length for break out-side 2.0 mm diameter.

1 = Cisco 9513/9412 LC stagger
2 = Brocade 48K/DCX, Mi1 LC stagger
3 = Cisco Nexus LC stagger
4 = Universal LC leg length of 150 mm

6

Select overall length.

1650 = Short harness for EDGE housing mounted directly above or below SAN Director (mm)
2700 = Long harness for EDGE housing mounted elsewhere in SAN Director cabinet (mm)

Example: H937912TLZ1-Z1650

Description: Pretium EDGE Solutions Harness: 6 LC duplex uniboot connectors to 1 MTP pinned connector, ClearCurve Multimode 50/125m OM3 Pretium 300 fibres, LSZH/FRNC jacket, aqua, LC furcation legs tailored for Cisco 9513, harness length (tip to tip): 1650mm, Universal Wiring. Delivered with test report.

Pretium EDGE Solutions Jumpers

A LANscape® Pretium® Solutions Product

features and benefits |

- Feature
  - slim round 2-fibre interconnect cable
  - uniboot style duplex connectors
- Improve handling in high-density applications
- Low loss connectivity enables system design flexibility
- Enabled by bend-insensitive ClearCurve Multimode or SMF-28e XB Single-mode fibres
- Designed to withstand tight bends and challenging cable routes

ordering information |

E							N	Z	2	0				M
	1		2		3		4		5			6		

1
Select first end connector.
79 = LC duplex uniboot MM
78 = LC duplex uniboot SM

2
Select second end connector.
use same option as in 1

3
Select fibre count.
02 = 2 fibres

4
Select fibre type.
T = ClearCurve Multimode 50/125 µm OM3 Pretium 300
Q = ClearCurve Multimode 50/125 µm OM4 Pretium 550
G = Single-mode fibre 9/125 µm SMF 28e XB OS2

5
Select cable type.
2.0 mm Patchcord
NZ20 = FRNC, 2-fibre cable, single jacket

6
Select overall length.
001-999 metre

Example: E797902TNZ20002M

Description : Pretium EDGE Solutions Low Loss Patchcord: LC duplex uniboot connectors, ClearCurve Multimode 50/125m OM3 Pretium 300 fibres, standard reverse fibre polarity, LSZH/FRNC jacket, aqua, length: 2m.

Pretium EDGE Solutions Jumper

Jumper Routing in Pretium EDGE Solutions Housing

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Pretium EDGE Solutions MTP Connector Panels

A LANscape® Pretium® Solutions Product

features and benefits |

- Provide MTP connection points between trunks and harnesses or extender trunks
- Can be installed or removed from the front or rear of a housing
- Facilitate simple upgrades to parallel optics
- Are packaged in easy-open containers

specifications | MTP connector panels

Product Details		
EDGE-CP24-YY	**H x W x D (mm)** 9 x 100 x 125	**Product Weight (kg)** 0.028

ordering information |

Part Number	Description
EDGE-CP24-E3	EDGE connector adapter panel for EDGE housings. Equipped with 2 MTP aqua (OM3) adapters capacity 24 fibres
EDGE-CP24-90	EDGE connector adapter panel for EDGE housings. Equipped with 2 MTP black (OS2) adapters capacity 24 fibres

Pretium EDGE Solutions MTP Connector Panel Installed in Housing

Pretium EDGE Solutions MTP Connector Panel

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Pretium EDGE Solutions Housings

A LANscape® Pretium® Solutions Product

features and benefits |

- Pretium EDGE 4U housing holds up to
  - 48 LC modules (288 ports = 576 fibres) or
  - 48 MTP adapter panels (96 MTPs = 1152 fibres)

  Pretium EDGE 1U housing holds up to
  - 8 LC modules (48 ports = 96 fibres) or
  - 8 MTP adapter panels (16 MTPs = 192 fibres).
- Mount in 19-inch racks or cabinets
- Provide industry-leading high-density connectivity
- Enable growth of port counts through modular design
- Contain individually sliding trays that
  - accommodate 4 LC connector modules or MTP connector panels
  - provide easy access to connectors without compromising optical connectivity of other ports
  - facilitate fast moves, adds and changes of port configurations
- Feature
  - horizontal jumper management guides on each tray
  - external jumper routing guides to facilitate cable management and drawer movement
  - port labeling on inside of front door
  - mounting plates at the rear enabling one-handed installation and strain-relief of trunks
  - brush cable entries that make trunk installation easy and keep dust out

Pretium EDGE Solutions, 4U Housing with MTP Panel

Pretium EDGE Solutions, 4U Housing with LC Modules

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Pretium EDGE Solutions Housings

A LANscape® Pretium® Solutions Product

specifications | housings

Product Details	H x W x D (mm)	Product Weight (kg)
EDGE-01U-E EDGE-04U-RDH	44 x 513 x 648 176 x 513 x 440	8.5 10.8
Package Details	**H x W x D (mm)**	**Product Weight (kg)**
EDGE-01U-E EDGE-04U-RDH	198 x 635 x 794 349 x 635 x 500	12.3 15.4

ordering information |

Empty EDGE Housings	
Part Number	**Description**
EDGE-01U-E	EDGE 1U housing equipped with 2 sliding drawers and U-clip trunk mounting compatibility. Capacity for 16 size-1 or 6 size-2 trunks. Capacity for 8 EDGE LC modules or MTP Connector adapter panels. Modules and panels, ordered separately.
EDGE-04U-RDH	EDGE 4U housing, reduced depth, equipped with 12 sliding drawers and trunk mounting compatibility for U-clip trunk holder. Capacity for 48 size-1 or 16 size-2 trunks. Capacity for 48 EDGE LC modules or MTP Connector adapter panels. Modules and panels, ordered separately.
Accessories for EDGE Housings	
EDGE-CLIP-1 EDGE-CLIP-2	Additional U-Clip trunk holder fixture for size-1 trunk (12 or 24 fibre) Additional U-Clip trunk holder fixture for size-2 trunk (>24 fibre)

Note: Other products and options are available. Please contact your Corning Cable Systems' customer service representative tollfree at 00 800 2676 4641 for assistance.

Plug & Play™ Universal Low-Loss Systems

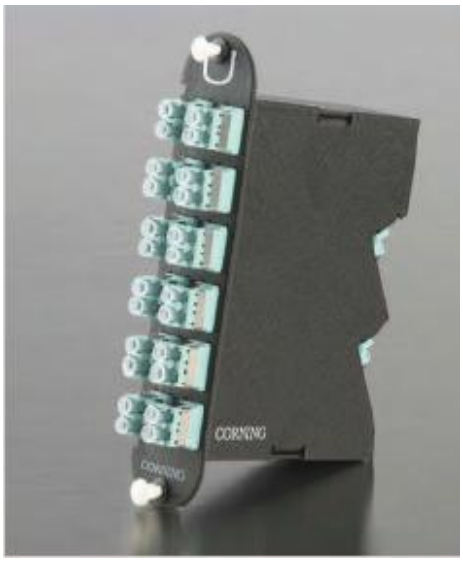
Application

• Data centre / LAN/SAN

• Enterprise building backbone

• Fibre-to-the-desk

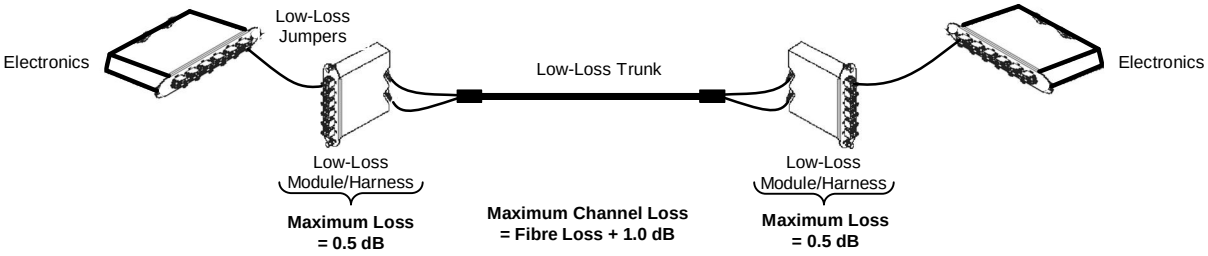
Description
Corning Cable Systems Plug & Play™ Universal Low-Loss Systems are pre-terminated optical fibre cabling systems designed to dramatically improve performance for the increasing demand for high speeds in data centre applications. This innovative, value added system significantly reduces installation time and cost by streamlining the process of deploying an optical networking infrastructure in the premises environment, particularly in data centre applications. Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system as depicted in the illustration below, all components must be from the Plug & Play Universal Low-Loss Systems family.



Corning Cable Systems GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, Germany
TEL: 00800-2676-4641 (00800-CORNING1) · FAX: +49-30-5303-2335 · www.corningcablesystems.com

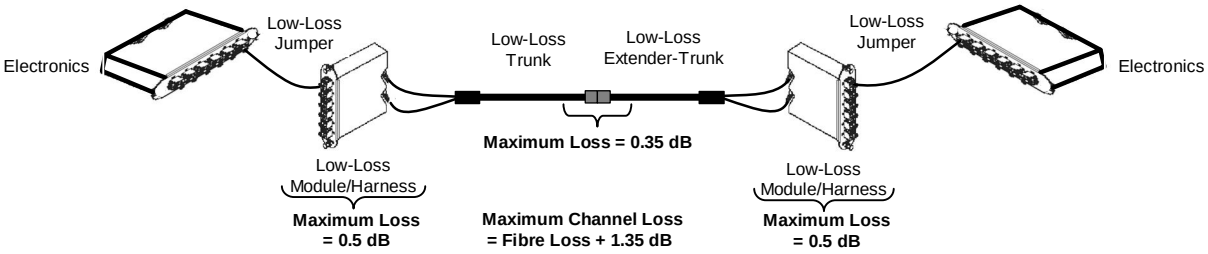
Plug & Play Universal Low-Loss Systems Specifications

Low-Loss Trunk with Low-Loss Modules and Low-Loss Jumpers on Each End



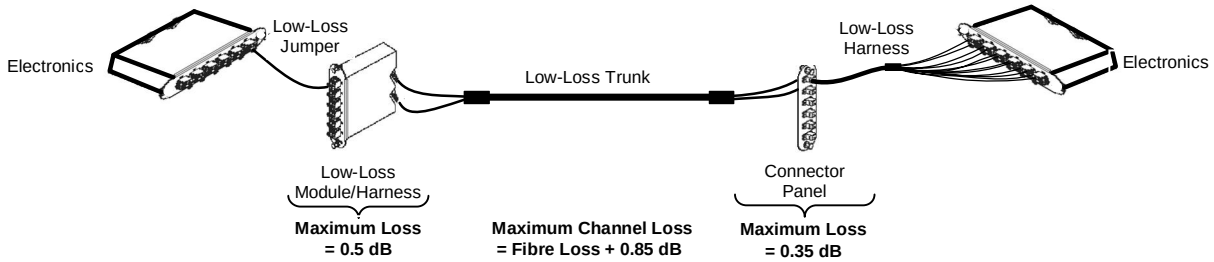
**Scenario assumes discrete connectors on harnesses are installed into patch panels and low-loss jumpers are used to mate into electronics on both Ends

Low-Loss Trunk and Extender Trunk with Low-Loss Modules and Low-Loss Jumpers on Each End



**Scenario assumes discrete connectors on harnesses are installed into patch panels and low-loss jumpers are used to mate into electronics.

Loss-Loss Trunk with Low-Loss Module and Low-Loss Jumpers on End 1; Low-Loss Harness on End 2 Installed Directly into Electronics



**Scenario assumes discrete connectors on harnesses are installed into patch panels and low-loss jumpers are used to mate into electronics on End 1; discrete connectors at End 2 are installed directly into electronics

Note: Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system, all components must be from the Plug & Play Universal Low-Loss Systems family

Corning Cable Systems GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, Germany
TEL: 00800-2676-4641 (00800-CORNING1) · FAX: +49-30-5303-2335 · www.corningcablesystems.com

Installing the System

Pre-terminated trunk cabling systems constructed with a factory-installed protective pulling grip are routed through the cabling pathways and spaces. Once deployed, the pulling grip is removed and the exposed connectors on both ends are plugged into patch panels or system equipment. High-density MTP® Connector-based trunk systems plug into break-out modules or harnesses for a simple, fast, modular solution with easy scalability. Modules and harnesses conveniently load into LANscape® Pretium Solutions hardware, and correct fibre polarity is guaranteed throughout the systems' link.

With Corning Cable Systems Plug & Play™ Universal Systems, there are only four steps required to install the optical network:

1. Pull the cable assembly
2. Mount the hardware
3. Plug in the connectors
4. Test the system

There is no time-consuming fibre preparation and termination. There are no consumables or piece parts and no tools are needed other than a screwdriver. All cable assemblies are custom-built to each customer's design specifications.

Features / Benefits

• Factory-terminated solutions provide improved system performance, component compatibility and consistent quality

• Universal wired modular system components enable fast and simple networking moves, adds and changes without polarity concerns associated with special polarity-compensating components

• Plug & Play™ Universal Systems provides a simple migration path between 2-fiber and parallel optics applications

Specification of Connected mated pairs with Single- or Two-Fibre Connectors

Connector type:	SC/PC	LC/PC	MTP
Ferrule:	Ceramic	Ceramic	Composite
Housing:	Composite	Composite	Composite
Colour:	Connector housing / Connector boot		
OM3, OM4 (50µm)	Black / Aqua	Aqua / Black	Black / Aqua
Loss max. (dB) MM	≤ 0.15	≤ 0.15	≤ 0.35
Durability change to FOTP-21	≤ 0.2 dB, 1000 rematings	≤ 0.2 dB, 500 rematings	≤ 0.2 dB, 200 rematings
Max. tensile load on connector	44N for 2.0mm legs / 4N for 900µm legs		
Temperature cycling	Typ. ΔIL ≤ 0.3 dB temperature range -40°C to +75°C		

All connectors are tested to FOTP -21; other options are available on request.
MTP meets requirements of ANSI HIPPI-6400 and IEC 61754-7 and TIA/EIA-604-5 (FOCIS) documents

Specification of Modules / Harnesses (max.30m)

Loss max. (dB) MM Standard	≤ 0.5

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Fibre type	G50/125 Pretium 300 ULTRA-BEND 7.5	G50/125 Pretium 550 ULTRA-BEND 7.5
Fibre core Ø (µm), Type	50 Multimode	50 Multimode
Fibre category	OM3	OM4
Wavelengths (nm)	850 / 1300	850 / 1300
Attenuation – Max (dB/km)	2.8 / 1.0	2.8 / 1.0
Attenuation – Typ. (dB/km)	2.4 / 0.8	2.4 / 0.8
Overfilled Launch (OFL) Bandwidth (MHz · km)	1500 / 500	3500 / 500
Minimum Effective Modal Bandwidth - EMB (MHz · km)	2000 / -	4700 / -
Serial 1Gigabit Ethernet (m)	1000 / 600	1100 / 600
Serial 10Gigabit Ethernet (m)	300 / -	550 / -
Cable cut-off wavelength (nm)	- / -	- / -
Induced attenuation (dB) @ radius (mm)	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -
Standards in Compliance	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801
Fibre category code	**T**	**Q**

Pulling and protection grip

Pulling grip

Protective grip

Mechanical characteristics – Pulling Grips:

Cable Fibre count	Pull grip tensile strength [N]	Pull grip outer Ø [cm (in.)]	Min. duct size Ø [cm (in.)]
Size 0 for 12-24	450	2.5 (1.0)	3.2 (1.2)
Size 1 for 36-48	450	5.1 (2.0)	6.4 (2.5)
Size 2 for 72-144	450	6.4 (2.5)	7.9 (3.1)

If only one or no pull grip is chosen then the trunk is delivered with one protection grip on the open end or with protection grips on both ends.

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Plug & Play™ Universal Systems Trunks

Plug & Play Universal Systems are available in fibre counts of 12 to 144 fibres. Using the MTP® Connector, a 12-fibre push/pull optical connector with a footprint similar to the SC simplex connector, high density and rapid deployment with space savings and minimal error can be realized. The MTP Connector, used in conjunction with high-density ribbon cable, provides a space savings of up to 45 percent and three times the fibre-tray capacity over traditional bulkier cabling solutions. Cable tray weight and cooling air impediment are minimized. Corning Cable Systems' enhanced pulling grip and furcation plug make deployment and installation quicker and easier than ever before. The furcation plug mechanically joins the trunk cable and furcation legs, providing strain-relief and featuring a design which allows easy integration into Corning Cable Systems' hardware. Optional brackets are available for mounting the furcation plug into equipment racks and cabinets.

Features / Benefits

- For 12- and 24-fibre trunks, Data Centre Cable, a round, FRNC distribution cable with a small outside diameter is used, allowing more room for trunk cables and easier routing in patch panels without preferential bend concerns
- High fibre count trunks based on ribbon cable are utilized to provide space savings while providing quick, convenient deployment
- MTP® connector meets requirements of ANSI HIPPI-6400 and IEC 61754-7 and TIA/EIA-604 (FOCIS)
- Metal-free, therefore no grounding concerns
- Test protocol delivered with each trunk

Cable Characteristics:

Temperature range	Laying and installation Operation Transport and storage			[°C]				-5 to +50 -20 to +60 -25 to +70	
Cable Design[1)]	**Fibre count[2)]**	Cable Ø [mm]	Cable weight [kg/km]	Min. bend radius, installation [mm] All fibre s	Min. bend radius, in service [mm] Ultra-Bend	Min. bend radius in service [mm] OM1, OS2	Max. tensile load during installation [N]	Max. crush resistance, reversible [N/10cm]	Fire rating [MJ/m]
DZ = Data-Center Distribution Cable									
J-B(ZN)H	1x(1x12)	4.6	19	90	23	70	400	750	0.48
J-B(ZN)H	1x(2x12)	5.2	41	110	26	85	600	750	0.58
UZ = Loose Tube Cable									
J-DH	3 x 12	9.1	76	165	140	140	2000	2000	1.43
J-DH	4 x 12	9.1	76	165	140	140	2000	2000	1.50
CZ = Ribbon Cable									
J-B(BN)H	72-96	12.4	125	186	124	124	2000	2700	3.10
J-B(BN)H	144	15.3	167	230	150	150	2000	2700	4.10

Cable jacket and Furcation leg colour:

OM1, OM2 - orange
OM3, OM4 - aqua
OS2 - yellow

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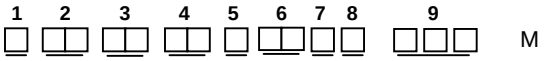
Plug & Play™ Universal Low-Loss Systems Trunks

Plug & Play Universal Low-Loss Systems are available in fibre counts of 12 to 144 fibres. Using the MTP® Connector, a 12-fibre push/pull optical connector with a footprint similar to the SC simplex connector, high density and rapid deployment with space savings and minimal error can be realized. The MTP Connector, used in conjunction with high-density ribbon cable, provides a space savings of up to 45 percent and three times the fibre-tray capacity over traditional bulkier cabling solutions. Cable tray weight and cooling air impediment are minimized. Corning Cable Systems' enhanced pulling grip and furcation plug make deployment and installation quicker and easier than ever before. The zippered pulling grip has a small form factor, allowing for installation through smaller conduits and pathways, while providing unsurpassed connector protection and intuitive access to the pre-terminated assembly for rapid network deployment. The small-form-factor furcation plug mechanically joins the trunk cable and furcation legs, providing strain-relief and featuring a design which allows easy integration into Corning Cable Systems' hardware. Optional brackets are available for mounting the furcation plug into equipment racks and cabinets.

Ordering Information:



Use the following options to construct the part number:
Please Note: The Low-Loss System is only with OM3 and OM4 fibres available

1 Select grip application

A = Grip on first end only
B = Grip on both ends
N = No grip

2 Select MTP® connector on 1st end.

75 = MTP/f Low-Loss MM (without Pins)

3 Select MTP® connector on 2nd end.

Use options in 2.

4 Select fibre count

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5 Select fibre type

Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5

T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5

6 Select cable type

DZ = DC Cable 12-24 fibre

UZ = Loose tube cable 32-48 fibre

CZ = Ribbon cable 72-144 fibre

7 Select trunk furcation length for 1st end.

A = 600 mm (+70/-0 mm),
B = 1000 mm (+70/-0 mm)

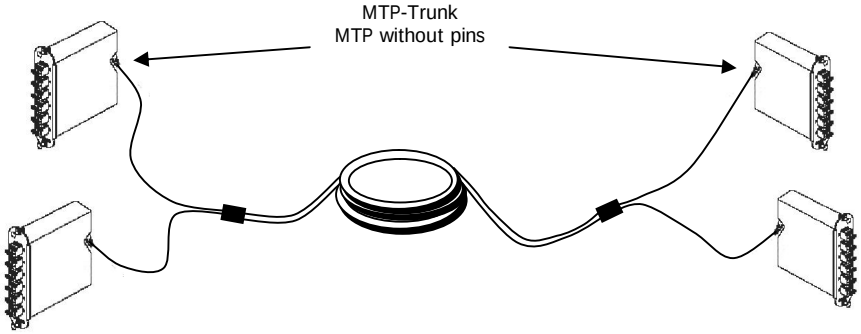
8 Select trunk furcation length for 2nd end.

Use options in 6.

9
Select overall length

001- 999 meter*
* Trunk length is measured from furcation point to furcation point

Example: B757572TCZBBU010M
Type designation: P&P Universal MTP Low-Loss Trunk based on halogen free, FRNC, ribbon cable with 72 ClearCurve OM3 Pretium 300 G50 fibres, furcation legs of 1000 mm, pulling grip on both sides, trunk length



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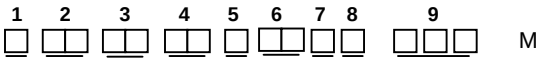
Datasheet
Plug & Play Low Loss/ October 2009

Plug & Play™ Universal Low-Loss Systems Extender Trunks

Plug & Play Universal Low-Loss Systems extender trunks are used to distribute portions, or all, of the fibres in a Plug & Play Universal Low-Loss systems trunk to other areas in the infrastructure. For example, a high-fibre-count trunk can be deployed from a main distribution area (MDA) to a zone distribution area (ZDA). Lower-fibre-count extender trunks can then be utilized to distribute fibre from the ZDAs into cabinets. Extender trunks are manufactured with pinned MTP® Connectors on one end of the cable trunk and non-pinned MTP Connectors on the other end. The pinned MTP Connectors on the extender trunk mate with the non-pinned connectors of the Plug & Play Universal Low-Loss Systems trunk. The non-pinned MTP connectors on the extender trunk are plugged into the low-loss module or mated to a low-loss harness via an MTP Connector adapter panel.

Ordering Information:



Use the following options to construct the part number:
Please Note: The Low-Loss System is only with OM3 and OM4 fibres available

1 Select grip application

A = Grip on first end only
B = Grip on both ends
N = No grip

2 Select MTP® connector on 1st end.

75 = MTP/f Low-Loss MM (without Pins)

3 Select MTP® connector on 2nd end.

93 = MTP/f Low-Loss MM (with Pins)

4 Select fibre count

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5 Select fibre type

Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5

T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5

6 Select cable type

DZ = DC Cable 12-24 fibre

UZ = Loose tube cable 32-48 fibre

CZ = Ribbon cable 72-144 fibre

7 Select trunk furcation length for 1st end.

A = 600 mm (+70/-0 mm),
B = 1000 mm (+70/-0 mm)

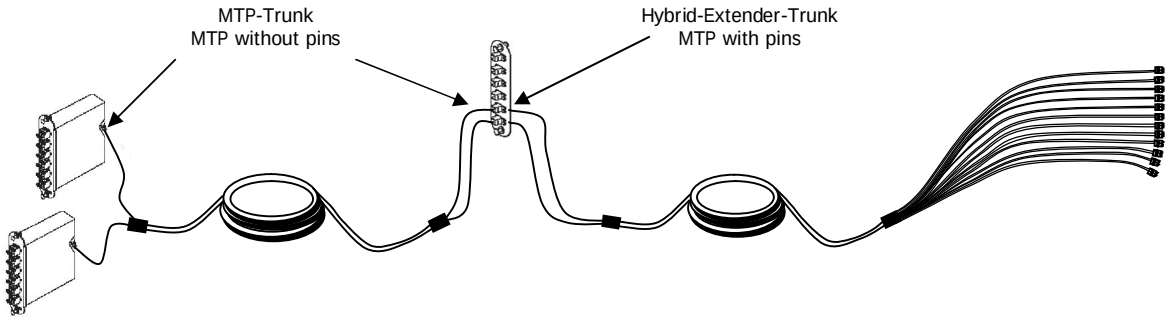
8 Select trunk furcation length for 2nd end.

Use options in 6.

9
Select overall length

001- 999 meter*
* Trunk length is measured from furcation point to furcation point

Example: B759348TUZBBX010M
Type designation: P&P Universal Low-Loss Extender Trunk based on halogen free, FRNC, Loose tube cable with 48 ClearCurve Pretium 300 OM3 fibres, furcation legs 1000 mm, pulling grip on both sides, trunk length 10m.



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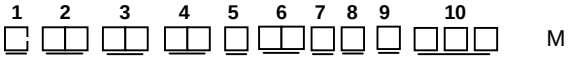
Plug & Play™ Universal Low-Loss Systems Hybrid Connector Trunks and Hybrid Extender Trunks

Plug & Play Universal Low-Loss Systems hybrid connector trunks are terminated with MTP® Connectors on one end of the trunk and LC or SC connectors on the other end for applications requiring one end of the trunk to connect directly into system equipment or patch panels. Both Plug & Play Universal Low-Loss Systems trunks and extender trunks are available in hybrid connector options.

Ordering Information:



Use the following options to construct the part number:
Please Note: The Low-Loss System is only with OM3 and OM4 fibres available

1 Select grip application

A = Grip on first end only
B = Grip on both ends
N = No grip (only protective grips)

2 Select MTP® connector 1st end.

Hybrid trunk

75 = MTP/f Low-Loss MM (without Pins)

Hybrid Extender trunk

93 = MTP/f Low-Loss MM (with Pins)

3 Select connector 2nd end.

LC Duplex
05 = LC-Duplex, Multimode

SC Duplex
57 = SC-Duplex, Multimode

4 Select fibre count

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5 Select fibre type

Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5
T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5

6 Select cable type

DZ = DC Cable 12-24 fibre
UZ = Loose tube cable 32-48 fibre
CZ = Ribbon cable 72-144 fibre

7 Select trunk furcation length for 1st end.

A = 600 mm (+70/-0 mm),
B = 1000 mm (+70/-0 mm)

8 Select trunk furcation length for 2nd end.

E = 300 mm(+70/-0), 900µm
F = 600 mm(+70/-0), 900µm
G = 1000 mm (+70/-0), 900µm
H = 1200 mm(+70/-0), 900µm

J = 300 mm(+70/-0), 2.0mm
K = 600 mm(+70/-0), 2.0mm
L = 1000 mm (+70/-0), 2.0mm
M = 1200 mm(+70/-0), 2.0mm

9 Select trunk type

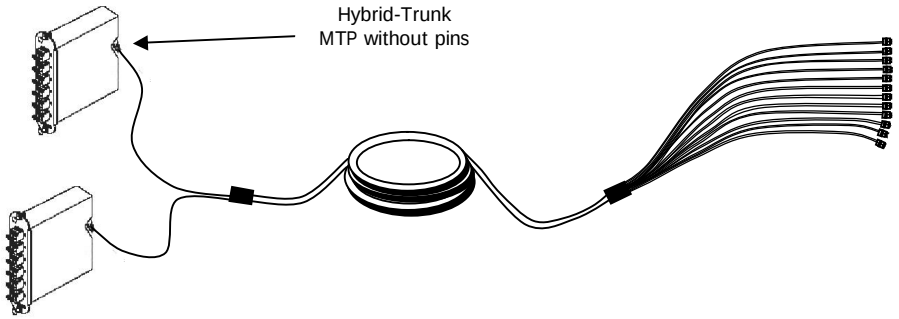
W = Hybrid
Z = Hybrid Extender

10 Select overall length

001- 999 meter*
* Trunk length is measured from furcation point to

Example:A750548TUZBGW100M

Type designation: P&P Hybrid Low-Loss Trunk based on halogen free, FRNC, Loose tube cable with 48 Pretium 300 ClearCurve OM3 fibres, with 24 LC-Duplex connectors on one side and 4 MTP connectors on the other side, furcation legs on both side 1000 mm, pull grip on MTP side, trunk length



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Plug & Play™ Universal Low-Loss Systems Modules

Corning Cable Systems Plug & Play Universal Low-Loss Systems modules are used to break out the 12-fibre MTP® Connectors terminated on trunk cables into LC duplex connectors. Jumpers can then be used to patch into system equipment ports, patch panels, or work area outlets. The modules feature LC-Duplex or SC-Duplex adapters across the front and one or two MTP Connector adapters across the back. A factory-terminated and -tested optical fibre assembly inside the modules connects the front adapters to the back MTP Connector adapter(s). The modules fit into Corning Cable Systems LANscape® Pretium™ Solutions hardware and are available in 12- and 24-fibre configurations with LC-Duplex connectors. The modules' reduced-depth footprint provides added room for routing cables in the back of hardware and also provides a solution for shallow, raised-floor boxes. Using modules provides adaptability for the changing data centre environment, which requires technology evolution every 12 to 18 months. The use of Plug & Play Universal Low-Loss Systems modules in the data centre offers the advantage of greater manageability. They can easily be swapped with new modules when future requirements change, leaving the existing trunk cable infrastructure in place.

Order information

CCH-UM 1 2 3 4

Use the following options to construct the part number:

1. Fibre count

12 = 12 fibres for LC-Duplex and SC-Duplex adapters
24 = 24 fibres, option available only for LC-Duplex adapters

2. Front side adapter types

***Please Note: Low-Loss System is only with OM3 and OM4 fibre and LC-Duplex or SC-Duplex adapters available**

Order code	Type	Insert	Housing	Color OM3 / OM4
05	LC-Duplex / MM	Ceramic	Composite	Aqua
57	SC-Duplex / MM	Ceramic	Composite	Aqua

3. Rear side adapter types

93 = MTP®, Low-Loss Multimode, Pinned (Male)

4. Fiber type

***Please Note: Low-Loss System is only with OM3 and OM4 fibre and LC-Duplex or SC-Duplex adapters available**

Order Code	Fiber Type	Fiber Class	Fiber core-Ø [µm]
Q	ClearCurve OM4 Pretium 550 Ultra Bend 7.5	OM4	50
T	ClearCurve OM3 Pretium 300 Ultra Bend 7.5	OM3	50

Example: CCH-UM24-05-93Q 24-Fiber LC Duplex, Multimode Low-Loss Module with Pretium 550 ClearCurve OM4 fibre

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Plug & Play™ Universal Low-Loss Systems Harness Assembly

Plug & Play Universal Low-Loss Systems harnesses have a pinned MTP® Connector on one end that connects to a Plug & Play Universal Low-Loss Systems trunk or extender trunk, while the other end is equipped with LC duplex and SC duplex connectors. The assembly uses Data centre Cable, a round plenum-rated interconnect cable with a small outside diameter, which allows for easy routing without preferential bend concerns. The LC duplex and SC duplex connectors are terminated on 2.0 mm legs to provide a ruggedized solution; additionally, many ranges of length requirements are available to ease fibre routing. Used with the Plug & Play Universal Low-Loss Systems trunks or extender trunks, the LC duplex connectors provide quick installation in applications where up-jacketed legs are needed for direct installation into electronic equipment. They also provide a routing solution that is less dense than traditional jumpers since the MTP Connector end of the harness that routes through the rack or cabinet is much smaller than the equivalent six 2-fibre patch cords.

Ordering information:

	1	2	3	4	5
H	☐☐	☐☐	12☐	EZ-☐Z 0	☐☐ M

Use the following options to construct the part number:

1 Select MTP® connector

93 = MTP, pinned, multimode

2 Select Duplex connector

LC-Duplex
05 = LC duplex, multimode
SC-Duplex
57 = SC Duplex, multimode

3 Select fibre type
Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5
T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5

4 Select leg length for break out side; 2.0 mm dia.

J = 300 mm (+70/-0)
K = 600 mm (+70/-0)
L = 900 mm (+70/-0)
M = 1000 mm (+70/-0)
N = 1500 mm (+70/-0)
P = 1800 mm (+70/-0)

5 Select overall length

01- 30 Meter

Example: H935712TE8-MZ010M
Type designation: Low-Loss Harness with 12 Pretium 300 ClearCurve fibres, assembled with MTP/m to 6 SC-Duplex connectors, SC furcation legs 1000mm, Harness length: 10m.

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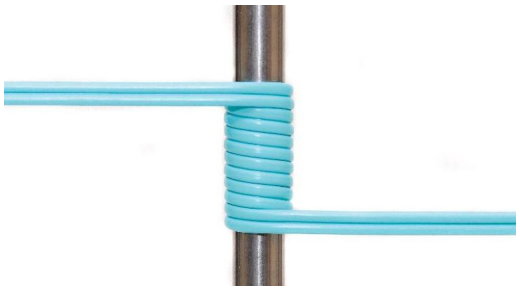
Datasheet
Plug & Play Low Loss/ October 2009

Pretium® Low-Loss OM3, OM4 Patchords with Ultra-Bendable Performance

The enhanced bend performance of Corning Cable Systems Low-Loss OM3 Jumpers is enabled by Corning's new ClearCurve® multimode fibre. Light traveling in an optical fibre will remain confined in the core when the pathway is relatively straight. When an optical fibre is bent, portions of the light will escape from the core of the fibre as it navigates around the bend. Although there are many proven technologies to achieve optimized bend performance, Corning selected an engineered optical trench technology for the new ClearCurve multimode fibre. The optical trench secures the modes in the core of the fibre, resulting in less signal loss.

Characteristics cable

- Low smoke (IEC 61034) and zero-halogen (LSZH), flame retardant to IEC 60332-3 and non-corrosive to IEC 60754-2 (FRNC)
- Metal-free, hence no ground loop problems or potential equalization problems.
- Completely dry design (without gel)
- Colour of outer sheath: OM3 - aqua



Attenuation of low-loss ultra-bendable jumper (0.2 dB with 11 mm mandrel wrap)

Mechanical Characteristics – (Duplex) Zipcord cable

Temperature range Laying and installation Operation Transport and storage			[°C]			-5 to + 50°C -20 to + 60°C -25 to + 70°C	
Number of fibres	Outside-Ø [mm]	Weight [kg/km]	Min. Bend radius installation over flat side [mm]	Min. Bend radius operation over flat side [mm]	Max. Tensile load for installation [N]	Max. Crush resistance (IEC 60794-1-2-E3) [N/10cm]	Fire rating [MJ/m]
2	2.0 x 4.1	8.5	20	10	300	750N/10cm	0.16

Ordering information:

Jumper Part Numbers OM3

E050502T5Z20xxxM LC Duplex to LC Duplex, with Pretium® 300 Low-Loss Jumpers with Ultra-Bendable Performance (OM3 Solutions) 2.0 mm FRNC zipcord – unit of measure is meter

E575702T5Z80xxxM SC Duplex to SC Duplex, with Pretium® 300 Low-Loss Jumpers with Ultra-Bendable Performance (OM3 Solutions) 2.0 mm FRNC zipcord – unit of measure is meter

Jumper Part Numbers OM4

E050502T5Z20xxxM LC Duplex to LC Duplex, with Pretium® 550 Low-Loss Jumpers with Ultra-Bendable Performance (OM3 Solutions) 2.0 mm FRNC zipcord – unit of measure is meter

E575702T5Z80xxxM SC Duplex to SC Duplex, with Pretium® 300 Low-Loss Jumpers with Ultra-Bendable Performance (OM3 Solutions) 2.0 mm FRNC zipcord – unit of measure is meter

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Plug & Play™ Universal Systems

Application

- Data centre / LAN/SAN
- Enterprise building backbone
- Fibre-to-the-desk

Description

Corning Cable Systems Plug & Play™ Universal Systems are pre-terminated optical fibre cabling systems designed to dramatically improve performance for the increasing demand for high speeds in data centre applications. This innovative, value added system significantly reduces installation time and cost by streamlining the process of deploying an optical networking infrastructure in the premises environment, particularly in data centre applications. Corning Cable Systems Plug & Play Universal Systems consist of modules, harnesses, trunks and extender trunks. In order to guarantee a Plug&Play system as depicted in the illustration below, all components must be from the Plug & Play Universal Systems family.

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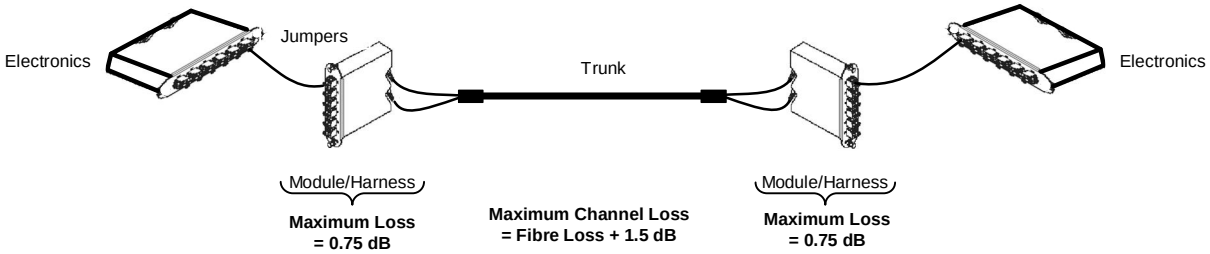
Plug & Play Universal Systems Scenarios

Trunk with Modules and Jumpers on Each End



**Scenario assumes discrete connectors on harnesses are installed into patch panels and jumpers are used to mate into electronics on both Ends

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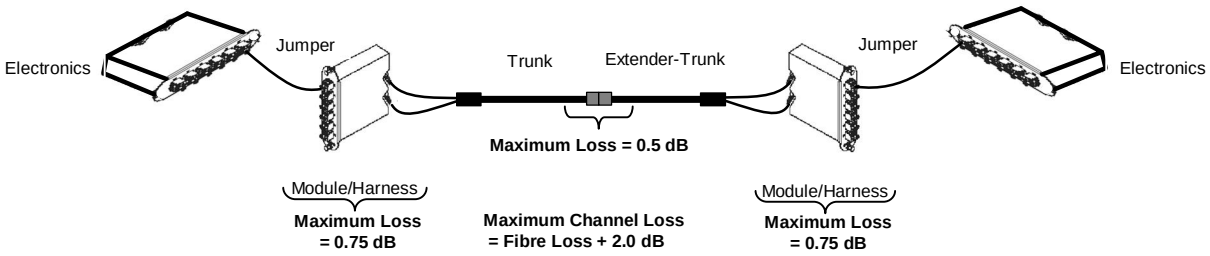
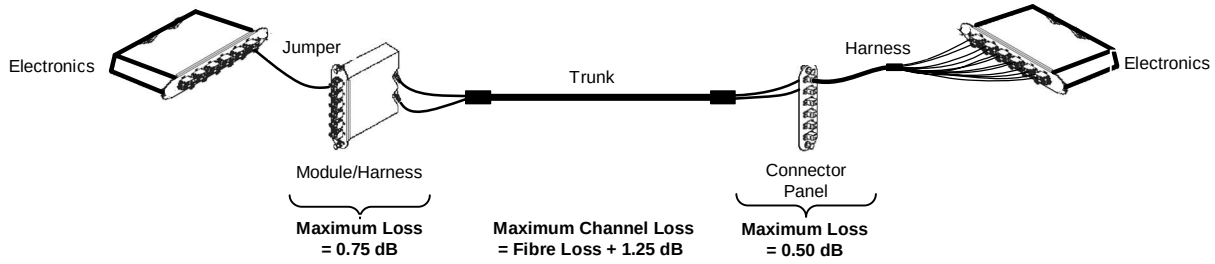
Trunk and Extender Trunk with Modules and Jumpers on Each End



**Scenario assumes discrete connectors on harnesses are installed into patch panels and jumpers are used to mate into electronics.

Trunk with Module and Jumpers on End 1; Harness on End 2 Installed Directly into Electronics



**Scenario assumes discrete connectors on harnesses are installed into patch panels and jumpers are used to mate into electronics on End 1; discrete connectors at End 2 are installed directly into electronics

What is Polarity?

Polarity maintains proper transmitter-to-receiver continuity throughout the system so that when end-equipment patch cords are installed, the transmit signal is routed to the receive port and vice versa.

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Installing the System

Pre-terminated trunk cabling systems constructed with a factory-installed protective pulling grip are routed through the cabling pathways and spaces. Once deployed, the pulling grip is removed and the exposed connectors on both ends are plugged into patch panels or system equipment. High-density MTP® Connector-based trunk systems plug into break-out modules or harnesses for a simple, fast, modular solution with easy scalability. Modules and harnesses conveniently load into LANscape® Pretium Solutions hardware, and correct fibre polarity is guaranteed throughout the systems' link.

With Corning Cable Systems Plug & Play™ Universal Systems, there are only four steps required to install the optical network:

1. Pull the cable assembly
2. Mount the hardware
3. Plug in the connectors
4. Test the system

There is no time-consuming fibre preparation and termination. There are no consumables or piece parts and no tools are needed other than a screwdriver. All cable assemblies are custom-built to each customer's design specifications.

Features / Benefits

• Factory-terminated solutions provide improved system performance, component compatibility and consistent quality

• Universal wired modular system components enable fast and simple networking moves, adds and changes without polarity concerns associated with special polarity-compensating components

• Plug & Play™ Universal Systems provides a simple migration path between 2-fibre and parallel optics applications

Specification of Connected mated pairs with Single- or Two-Fibre Connectors

Connector type:	ST/PC	SC/PC	MT-RJ	MTP	LC/PC
Ferrule:	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Housing:	Metal	Composite	Composite	Composite	Composite
Colour:	Connector housing / Connector boot				
OM3 (50µm)	Nickel / Aqua	Black / Aqua	Black / Aqua	Aqua / Black	Black / Aqua
OM2 (50µm)	Nickel / Black	Black / Black	Black / Black	Black / Black	Black / Black
OM1 (62.5µm)	Nickel / Beige	Beige / Black	Black / Beige	Beige / Black	Black / Black
OS1/OS2 (E9) UPC	Nickel / Blue	Blue / Blue	Black / Blue	-	Blue / Blue
OS1/OS2 (E9) APC	-	-	-	Green / Black	-
Loss max. (dB) MM	≤ 0.25	≤ 0.25	≤ 0.25	≤ 0.50	≤ 0.25
Loss max. (dB) SM	≤ 0.50	≤ 0.50	≤ 0.50	≤ 0.75	≤ 0.50
Back reflection typical (dB) SM UPC	≤ -58	≤ -58	≤ -53	≤ -58	≤ -58
Back reflection typical (dB) SM APC	-	-	-	≤ -75	-
Durability change to FOTP-21	≤ 0.2 dB, 1000 rematings			≤ 0.2 dB, 200 rematings	≤ 0.2 dB, 500 rematings
Max. tensile load on connector	44N for 2.0mm legs / 4N for 900µm legs				
Temperature cycling	Typ. ΔIL ≤ 0.3 dB temperature range -40°C to +75°C				

All connectors are tested to FOTP -21; other options are available on request.
MTP meets requirements of ANSI HIPPI-6400 and IEC 61754-7 and TIA/EIA-604-5 (FOCIS) documents

Specification of Modules / Harnesses (max.30m)

Loss max. (dB) MM Standard SM Standard	 ≤ 0.75 ≤ 1.3

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Fibre characteristics:

Fibre type	G62.5L/125 Infinicor 300	G50/125 Pretium 150 ULTRA-BEND 7.5	G50/125 Pretium 300 ULTRA-BEND 7.5	G50/125 Pretium 550 ULTRA-BEND 7.5	E9/125
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – Max (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – Typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**K**	**B**	**T**	**Q**	**R**

Pulling and protection grip

Pulling grip

Protective grip

Mechanical characteristics – Pulling Grips:

Cable Fibre count	Pull grip tensile strength [N]	Pull grip outer Ø [cm (in.)]	Min. duct size Ø [cm (in.)]
Size 0 for 12-24	450	2.5 (1.0)	3.2 (1.2)
Size 1 for 36-48	450	5.1 (2.0)	6.4 (2.5)
Size 2 for 72-144	450	6.4 (2.5)	7.9 (3.1)

If only one or no pull grip is chosen then the trunk is delivered with one protection grip on the open end or with protection grips on both ends.

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Plug & Play™ Universal Systems Trunks

Plug & Play Universal Systems are available in fibre counts of 12 to 144 fibres. Using the MTP® Connector, a 12-fibre push/pull optical connector with a footprint similar to the SC simplex connector, high density and rapid deployment with space savings and minimal error can be realized. The MTP Connector, used in conjunction with high-density ribbon cable, provides a space savings of up to 45 percent and three times the fibre-tray capacity over traditional bulkier cabling solutions. Cable tray weight and cooling air impediment are minimized. Corning Cable Systems' enhanced pulling grip and furcation plug make deployment and installation quicker and easier than ever before. The furcation plug mechanically joins the trunk cable and furcation legs, providing strain-relief and featuring a design which allows easy integration into Corning Cable Systems' hardware. Optional brackets are available for mounting the furcation plug into equipment racks and cabinets.

Features / Benefits

- For 12- and 24-fibre trunks, Data Centre Cable, a round, FRNC distribution cable with a small outside diameter is used, allowing more room for trunk cables and easier routing in patch panels without preferential bend concerns
- High fibre count trunks based on ribbon cable are utilized to provide space savings while providing quick, convenient deployment
- MTP® connector meets requirements of ANSI HIPPI-6400 and IEC 61754-7 and TIA/EIA-604 (FOCIS)
- Metal-free, therefore no grounding concerns
- Test protocol delivered with each trunk

Cable Characteristics:

Temperature range	Laying and installation Operation Transport and storage			[°C]				-5 to +50 -20 to +60 -25 to +70	
Cable Design[1)]	**Fibre count[2)]**	Cable Ø [mm]	Cable weight [kg/km]	Min. bend radius, installation [mm] All fibres	Min. bend radius in service, [mm] Ultra-Bend	Min. bend radius in service, [mm] OM1, OS2	Max. tensile load during installation [N]	Max. crush resistance, reversible [N/10cm]	Fire rating [MJ/m]
DZ = Data-Center Distribution Cable									
J-B(ZN)H	1x(1x12)	4.6	19	90	23	70	400	750	0.48
J-B(ZN)H	1x(2x12)	5.2	41	110	26	85	600	750	0.58
UZ = Loose Tube Cable									
J-DH	3 x 12	9.1	76	165	140	140	2000	2000	1.43
J-DH	4 x 12	9.1	76	165	140	140	2000	2000	1.50
CZ = Ribbon Cable									
J-B(BN)H	72-96	12.4	125	186	124	124	2000	2700	3.10
J-B(BN)H	144	15.3	167	230	150	150	2000	2700	4.10

Cable jacket and Furcation leg colour:

OM1, OM2 - orange
OM3, OM4 - aqua
OS2 - yellow

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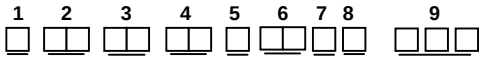
Ordering Information:



Use the following options to construct the part number:

1 Select grip application

A = Grip on first end only
B = Grip on both ends
N = No grip

2 Select MTP® connector on 1st end.

69 = MTP/f MM (without Pins)

90 = MTP/APC/f SM (without Pins)

3 Select MTP® connector on 2nd end.

Use options in 2.

4 Select fibre count

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5 Select fibre type

Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5

T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5

B = ClearCurve OM2 Pretium 150 Ultra Bend 7.5

K = InfiniCor 300 OM1 62.5µm

R = SMF-28e+, OS2 E9

6 Select cable type

UZ= Loose tube cable 36-48 fibre

CZ = Ribbon cable 72-144 fibre

DZ = DC Dist. Cable 12-24 fibre

7 Select trunk furcation length for 1st end.

A = 600 mm (+70/-0 mm),
B = 1000 mm (+70/-0 mm)

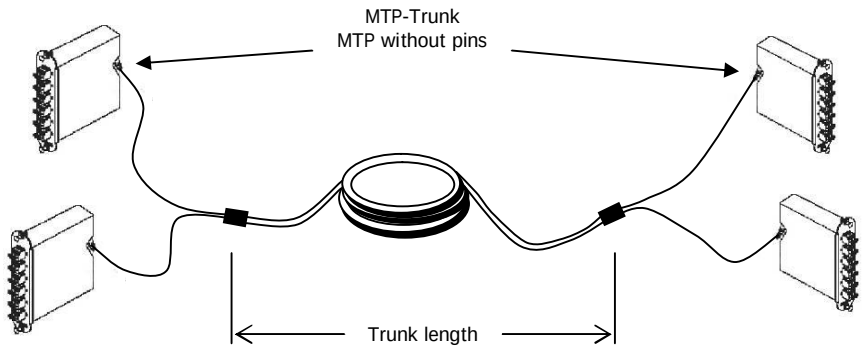
8 Select trunk furcation length for 2nd end.

Use options in 6.

9
Select overall length

001- 999 meter*
* Trunk length is measured from furcation plug to furcation plug

Example: B696972TCZBBU010M
Type designation: P&P Universal MTP Trunk based on halogen free, FRNC, ribbon cable with 72 ClearCurve OM3 Pretium 300 Ultra Bend 7.5 fibres, furcation legs of 1000 mm, pulling grip on both sides, trunk length 10m.



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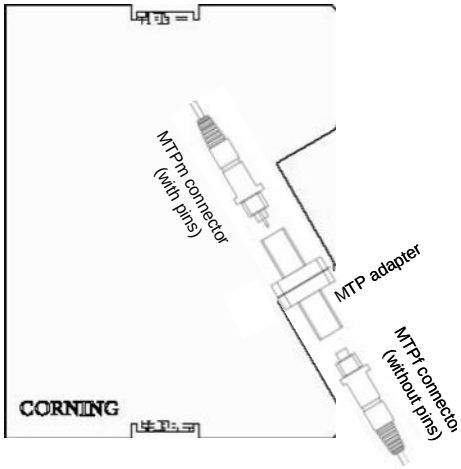
Plug & Play™ Universal Systems Modules

Corning Cable Systems Plug & Play Universal Systems modules are used to break out the 12-fibre MTP® Connectors terminated on trunk cables into single or dual fibre connectors. Jumpers can then be used to patch into system equipment ports, patch panels, or work area outlets. The modules feature LC-Duplex, SC-Duplex, ST and MTRJ adapters across the front and one or two MTP Connector adapters across the back. A factory-terminated and -tested optical fibre assembly inside the modules connects the front adapters to the back MTP Connector adapter(s). The modules fit into Corning Cable Systems LANscape® Pretium™ Solutions hardware and are available in with LC-Duplex, SC- Duplex ST, MTRJ; 24-fibre configurations with LC-Duplex and MTRJ connectors only. The modules' reduced-depth footprint provides added room for routing cables in the back of hardware and also provides a solution for shallow, raised-floor boxes. The use of Plug & Play Universal Systems modules in the data centre offers the advantage of greater manageability. They can easily be swapped with new modules when future requirements change, leaving the existing trunk cable infrastructure in place.



Features / Benefits

- Factory-terminated systems install in one-third of the time of field-terminated systems
- Patented polarity method – universal wiring
- Polarity scheme is compatible with the duplex fibre system today
- Polarity scheme allows easy migration to parallel systems in future
- All MTP® connections are standard key up to key down orientation
- Only one type of module within the P&P system (no A+B modules required)
- 100% tested; each module shipped with test protocol
- MTP® and MT-RJ have pins to coincide with system parameters (trunks without pins)
- All modules are compliant with TIA/EIA 942 Data centre cabling and ISO/IEC 24764.
- MTP® connectors and adapter: IEC 61754-7, TIA/EIA-604-5.
- LC-Duplex, SC, SC-Duplex, ST® compatible and MT-RJ adapter: TIA/EIA-604 -10, -3, -2, -12 respectively

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Technical Characteristics

Dimensions (H x W x D) cm (in)	Shipping Weight kg (lb)	Delivery scope
11.7 x 3.5 x 9.0 (3.5 x 4.6 x 1.4)*	0.2 (0.4)	1/1

* Dimensions without adapters

Order information

CCH-UM 1 2 3 4

Use the following options to construct the part number:

1. Fibre count

12 = 12 fibres
24 = 24 fibres, option available only for LC-Duplex and MT-RJ adapters

2. Front side adapter types

Order code	Type	Insert	Housing	Colour OM1	Colour OM2	Colour OM3 / OM4	Colour OS2
50	ST / MM	Ceramic	Metal	-	-	-	-
61	ST / SM	Ceramic	Metal	-	-	-	-
05	LC-Duplex / MM	Ceramic	Composite	Beige	Black	Aqua	-
04	LC-Duplex / SM	Ceramic	Composite	-	-	-	Blue
57	SC-Duplex / MM	Ceramic	Composite	Beige	Black	Aqua	-
72	SC-Duplex/UPC SM	Ceramic	Composite	-	-	-	Blue
44	SC-Simplex/APC SM	Ceramic	Composite	-	-	-	Green
86	MT-RJ/m* MM	-	Composite	Beige	Black	Aqua	-
87	MT-RJ/m* SM	-	Composite	-	-	-	Blue

*MT-RJ with pins

3. Rear side adapter types

70 = MTP®, Standard Multimode, Pinned (Male)
89 = MTP®/APC, Single-mode, Pinned (Male)

4. Fibre type

Order Code	Fibre Type	Fibre Class	Fibre core-Ø [µm]
Q	ClearCurve OM4 Pretium 550 Ultra Bend 7.5	OM4	50
T	ClearCurve OM3 Pretium 300 Ultra Bend 7.5	OM3	50
B	ClearCurve OM2 Pretium 150 Ultra Bend 7.5	OM2	50
K	Infinicor 300 OM1 62.5µm	OM1	62.5
R	SMF-28e+, OS2 E9	OS2	9

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Plug & Play™ Universal Systems Harness Assembly

Plug & Play Universal Systems harnesses have a pinned MTP® Connector on one end that connects to a Plug & Play Universal Systems trunk or extender trunk, while the other end is equipped with single and dual fibre connectors. The assembly uses Data Centre Interconnect Cable, a round FRNC interconnect cable with a small outside diameter, which allows for easy routing without preferential bend concerns. The LC duplex and SC duplex connectors are terminated on 2.0 mm legs to provide a ruggedized solution; additionally, many ranges of length requirements are available to ease fibre routing. Used with the Plug & Play Universal Systems trunks or extender trunks, the LC duplex harness provide quick installation in applications where up-jacketed legs are needed for direct installation into electronic equipment. They also provide a routing solution that is less dense than traditional jumpers since the MTP Connector end of the harness that routes through the rack or cabinet is much smaller than the equivalent six 2-fibre patch cords.

Ordering information:

1	2		3	4	5		6	
H	□□	□□	12	□	□□-	□Z	0	□□M

Use the following options to construct the part number:
***Please Note:** The data centre cable is only with OM3 fibre type available

1 Select MTP® connector
70 = MTP/m, pinned, MM
89 = MTP/m, pinned, SM

2 Select Duplex connector

ST Compatible® Connector
50 = ST compatible MM
61 = ST compatible SM

LC Duplex
05 = LC duplex, MM
04 = LC duplex, SM

SC Duplex
57 = SC Duplex, MM
72 = SC Duplex, SM

MT-RJ Connector
97 = MT-RJ non-pinned, MM
98 = MT-RJ non-pinned, SM

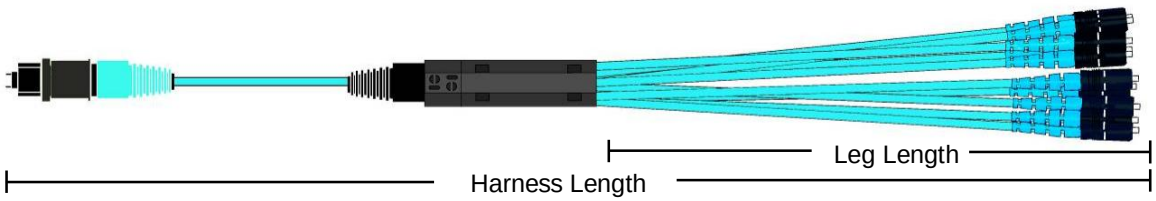
3 Select fibre type
Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5
T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5
B = ClearCurve OM2 Pretium 150 Ultra Bend 7.5
K = InfiniCor 300 OM1 62.5µm
R = SMF-28e+, OS2 E9

4 Cable type
EZ = Data centre interconnect cable

5 Select leg length for break out side; 2.0 mm dia.
J = 300 mm (+70/-0)
K = 600 mm (+70/-0)
L = 1000 mm (+70/-0)
M = 1200 mm (+70/-0)
N = 1500 mm (+70/-0)
P = 1800 mm (+70/-0)

6 Select overall length
01- 30 Meter

Example: H705712QEZ-MZ010M
Type designation: Harness with 12 G50 ClearCurve Pretium 550 OM4 fibres, FRNC, assembled with MTP/m to 6 SC-Duplex connectors, SC furcation legs 1000mm, Harness length: 10m.



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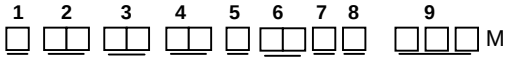
Plug & Play™ Universal Systems Extender Trunks

Plug & Play Universal Systems extender trunks are used to distribute portions, or all, of the fibres in a Plug & Play Universal systems trunk to other areas in the infrastructure. For example, a high-fibre-count trunk can be deployed from a main distribution area (MDA) to a zone distribution area (ZDA). Lower-fibre-count extender trunks can then be utilized to distribute fibre from the ZDAs into cabinets. Extender trunks are manufactured with pinned MTP® Connectors on one end of the cable trunk and non-pinned MTP Connectors on the other end. The pinned MTP Connectors on the extender trunk mate with the non-pinned connectors of the Plug & Play Universal Systems trunk. The non-pinned MTP connectors on the extender trunk are plugged into the module or mated to a harness via an MTP Connector adapter panel. Polarity is maintained correctly, regardless of the number of extender trunks used.

Ordering Information:



Use the following options to construct the part number:

1 Select grip application

A = Grip on first end only
B = Grip on both ends
N = No grip

2 Select MTP® connector on 1st end.

70 = MTP/m, Standard MM (with Pins)
89 = MTP/APC/m, SM (with Pins)

3 Select MTP® connector on 2nd end.

69 = MTP/f MM (without Pins)
90 = MTP/APC/f SM (without Pins)

4 Select fibre count

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5 Select fibre type

Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5
T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5
B = ClearCurve OM2 Pretium 150 Ultra Bend 7.5
K = InfiniCor 300 OM1 62.5µm
R = SMF-28e+, OS2 E9

6 Select cable type

UZ= Loose tube cable 36-48 fibre
CZ = Ribbon cable 72-144 fibre
DZ = DC Dist. Cable 12-24 fibre

7 Select trunk furcation length for 1st end.

A = 600 mm (+70/-0 mm),
B = 1000 mm (+70/-0 mm)

8 Select trunk furcation length for 2nd end.

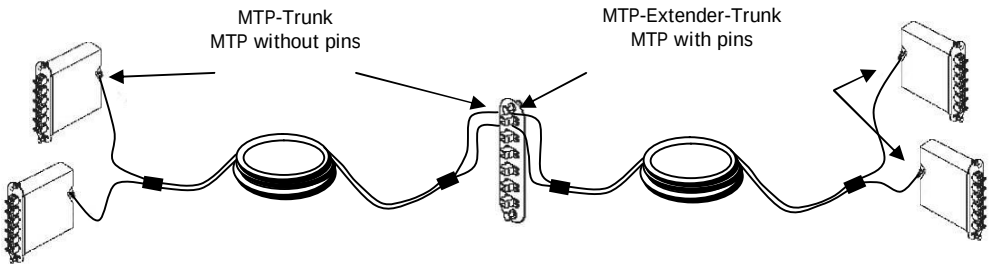
Use options in 7.

9 Select overall length

001- 999 meter*
* Trunk length is measured from furcation point to furcation point

Example: B706948TUZBBX010M

Type designation: P&P Universal Extender MTP Trunk based on halogen free, FRNC, Loose tube cable with 48 ClearCurve OM3 Pretium 300 Ultra Bend 7.5 fibres, furcation legs 1000 mm, pulling grip on both sides, trunk length 10m.



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CORNING

RoHS COMPLIANT

Datasheet
Plug & Play/ October 2009

Plug & Play™ Universal Systems Hybrid Trunks

Plug & Play Universal Systems hybrid connector trunks are terminated with MTP® Connectors on one end of the trunk and single or dual fibre connectors on the other end for applications requiring one end of the trunk to connect directly into system equipment or patch panels. Both Plug & Play Universal Systems trunks and extender trunks are available in hybrid connector options.

Ordering Information:

1 2 3 4 5 6 7 8 W 9 M

Use the following options to construct the part number:

1 Select grip application

A = Grip on first end only
B = Grip on both ends
N = No grip (only protective grips)

2 Select MTP® connector 1st end.

Hybrid trunk

69 = MTP/f MM (without Pins)
90 = MTP/APC/f SM (without Pins)

3 Select connector 2nd end.

ST® compatible connector

74 = ST® compatible MM metal bayonet
83 = ST® compatible/UPC SM metal bayonet
50 = ST® compatible MM composite bayonet
61 = ST® compatible/UPC SM composite bayonet

LC Duplex

05 = LC-Duplex, MM
04 = LC-Duplex/UPC, SM

SC Duplex

57 = SC-Duplex, MM
72 = SC-Duplex/UPC, SM

MT-RJ/f connector (no pins)

97 = MT-RJ/f, MM
98 = MT-RJ/f, SM

4 Select fibre count

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5 Select fibre type

Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5
T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5
B = ClearCurve OM2 Pretium 150 Ultra Bend 7.5
K = InfiniCor 300 OM1 62.5µm
R = SMF-28e+, OS2 E9

6 Select cable type

UZ= Loose tube cable 36-48 fibre
CZ = Ribbon cable 72-144 fibre
DZ = DC Dist. Cable 12-24 fibre

7 Select trunk furcation length for 1st end.

A = 600 mm (+70/-0 mm),
B = 1000 mm (+70/-0 mm)

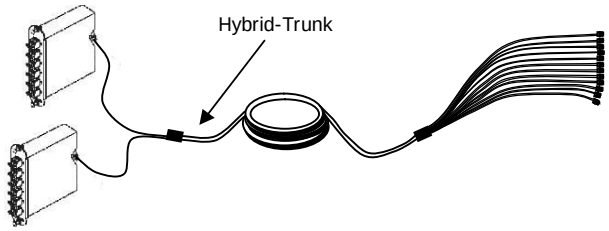
8 Select trunk furcation length for 2nd end.

E = 300 mm(+70/-0), 900µm
F = 600 mm(+70/-0), 900µm
G = 1000 mm (+70/-0), 900µm
H = 1200 mm(+70/-0), 900µm

J = 300 mm(+70/-0), 2.0mm
K = 600 mm(+70/-0), 2.0mm
L = 1000 mm (+70/-0), 2.0mm
M = 1200 mm(+70/-0), 2.0mm

9 Select overall length

001- 999 meter*
* Trunk length is measured from furcation point to furcation point



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RoHS COMPLIANT

Datasheet
Plug & Play/ October 2009

Plug & Play™ Universal Systems Hybrid Extender Trunks

Plug & Play Universal Systems hybrid connector trunks are terminated with MTP® Connectors on one end of the trunk and single and dual fibre connectors on the other end for applications requiring one end of the trunk to connect directly into system equipment or patch panels. Both Plug & Play Universal Systems trunks and extender trunks are available in hybrid connector options.

Ordering Information:

1 2 3 4 5 6 7 8 Z 9

□ □□ □□ □□ □ □□ □□ □□ Z □□□ M

Use the following options to construct the part number:

1 Select grip application

A = Grip on first end only
B = Grip on both ends
N = No grip (only protective grips)

2 Select MTP® connector 1st end.

Hybrid Extender Trunk

69 = MTP/f MM (without Pins)
90 = MTP/APC/f SM (without Pins)

3 Select connector 2nd end.

ST® compatible connector

74 = ST® compatible MM metal bayonet
83 = ST® compatible/UPC SM metal bayonet
50 = ST® compatible MM composite bayonet
61 = ST® compatible/UPC SM composite bayonet

LC Duplex

05 = LC-Duplex, Multimode
04 = LC-Duplex/UPC, SM

SC Duplex

57 = SC-Duplex, Multimode
72 = SC-Duplex/UPC, SM

MT-RJ/f connector (no pins)

97 = MT-RJ/f, MM
98 = MT-RJ/f, SM

4 Select fibre count

12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

5 Select fibre type

Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5
T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5
B = ClearCurve OM2 Pretium 150 Ultra Bend 7.5
K = InfiniCor 300 OM1 62.5µm
R = SMF-28e+, OS2 E9

6 Select cable type

UZ= Loose tube cable 36-48 fibre
CZ = Ribbon cable 72-144 fibre
DZ = DC Dist. Cable 12-24 fibre

7 Select trunk furcation length for 1st end.

A = 600 mm (+70/-0 mm),
B = 1000 mm (+70/-0 mm)

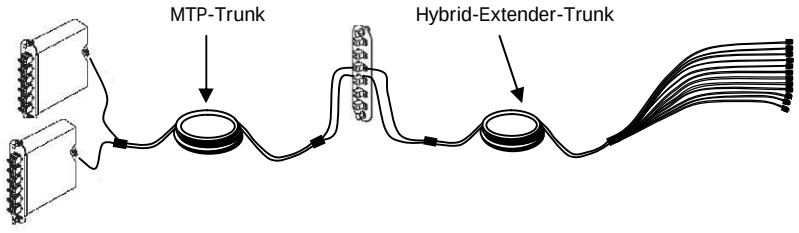
8 Select trunk furcation length for 2nd end.

E = 300 mm(+70/-0), 900µm
F = 600 mm(+70/-0), 900µm
G = 1000 mm (+70/-0), 900µm
H = 1200 mm(+70/-0), 900µm

J = 300 mm(+70/-0), 2.0mm
K = 600 mm(+70/-0), 2.0mm
L = 1000 mm (+70/-0), 2.0mm
M = 1200 mm(+70/-0), 2.0mm

9 Select overall length

001- 999 meter*
* Trunk length is measured from furcation point to furcation point



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CORNING

RoHS COMPLIANT

Data sheet
June 2009

Single fibre Trunks with single-fibre or Two-fibres connectors

The single fibre trunks are pre-terminated indoor cables and are especially suitable for Data Centre and networks with high fibre counts. In combination with patch panels and patchcords they offer a fast installable cabling solution and allow traditional cross-connection or direct connection to active components with individual connection cables of 900 µm or 2.0 mm diameter.

Order information:

1	2	3	4	5	6	7	8	9	
□	□□	□□	□□	□	□□	□□		□□□	M

Use the following options to construct the part number:
To build the order number, please select the lower connector code at first (Pos.1)
Use 00 in Pos.1, if no connector is required on one end.

1 Select pulling grip options

A = Pulling grip on one side
B = Pulling grip on both sides
N = No grip (only protection grips)

2 Select connector 1st end

ST compatible® connector
74 = ST® comp. MM metal bayonet
83 = ST® comp./UPC SM metal bayonet
50 = ST® comp. MM composite bayonet
61 = ST® comp./UPC SM composite bayonet

LC Duplex
05 = LC-Duplex, MM
04 = LC-Duplex/UPC, SM

SC Duplex
57 = SC-Duplex, MM
72 = SC-Duplex/UPC, SM

MT-RJ/f connector (w/o pins)
97 = MT-RJ/f, MM
98 = MT-RJ/f, SM

3 Select connectors 2nd end

Use the order number from section 2

4 Select fibre count

12 = 12-fibres
24 = 24-fibres
36 = 36-fibres
48 = 48-fibres
72 = 72-fibres
96 = 96-fibres
E4 = 144-fibres

5 Select fibre type

Q = ClearCurve OM4 Pretium 550 Ultra Bend 7.5
T = ClearCurve OM3 Pretium 300 Ultra Bend 7.5
B = ClearCurve OM2 Pretium 150 Ultra Bend 7.5
K = InfiniCor 300 OM1 62.5µm
R = SMF-28e+, OS2 E9

6 Select cable type

8Z = Indoor i-MIC cable, FRNC, for 900µm legs, 12 & 24 fibres
UZ = Indoor stranded mini-tube cable FRNC, for 900µm legs, 36-144 fibres
DZ = DC Dist. Cable 12-24 fibre

7 Select trunk furcation length for 1st end.

E = 300 mm(+70/-0), 900µm
F = 600 mm(+70/-0), 900µm
G = 1000 mm (+70/-0), 900µm
H = 1200 mm(+70/-0), 900µm

J = 300 mm(+70/-0), 2.0mm
K = 600 mm(+70/-0), 2.0mm
L = 1000 mm (+70/-0), 2.0mm
M = 1200 mm(+70/-0), 2.0mm

8 Select trunk furcation length for 2nd end.

E = 300 mm(+70/-0), 900µm
F = 600 mm(+70/-0), 900µm
G = 1000 mm (+70/-0), 900µm
H = 1200 mm(+70/-0), 900µm

J = 300 mm(+70/-0), 2.0mm
K = 600 mm(+70/-0), 2.0mm
L = 1000 mm (+70/-0), 2.0mm
M = 1200 mm(+70/-0), 2.0mm

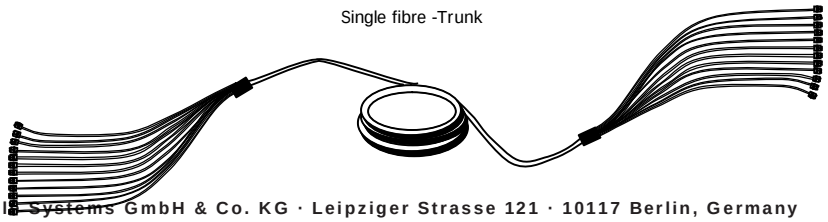
9 Select overall length

001-999 meters*

* Trunk length is measured from furcation point to furcation point.

Example: B059724T8ZGG100M
Type designation: I-MIC cable with 24 ClearCurve OM3 Pretium 300 Ultra Bend 7.5, halogen free, FRNC, with 900 µm legs, terminated on side 1 with 12 LC-Duplex, on side 2 with 12 MT-RJ/f. Pulling grip on both sides. Legs length 1000mm on both sides, cable length 100m.

Single fibre -Trunk



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Reference Jumpers
Corning Cable Systems offers the most complete line of connectors and factory-terminated cables, including jumpers to meet or exceed all industry standards for reflectance and insertion loss. Corning Cable Systems' state-of-the-art manufacturing process ensures unsurpassed connector performance. Fibres and ferrules are thoroughly screened at the beginning of the process, assembled and polished in a carefully monitored and controlled process, and quality tested to ensure top performance. This assembly and polishing process ensures the same outstanding quality in every connector.

Ordering information:

Jumper Part Numbers
C050502T5Z20xxxM LC Duplex to LC Duplex, multimode ClearCurve Pretium 300 (OM3 Solutions)
2.0 mm FRNC zipcord – unit of measure is meter
C575702T5Z80xxxM SC Duplex to SC Duplex, multimode ClearCurve Pretium 300 (OM3 Solutions)
2.8 mm FRNC zipcord – unit of measure is m
C050502Q5Z20xxxM LC Duplex to LC Duplex, multimode ClearCurve Pretium 550 (OM4 Solutions)
2.0 mm FRNC zipcord – unit of measure is m
C575702Q5Z80xxxM SC Duplex to SC Duplex, multimode ClearCurve Pretium 550 (OM4 Solutions)
2.8 mm FRNC zipcord – unit of measure is m

Test Reference Jumper Part Numbers*
E033901T2Z80xxxM LC Simplex to SC Simplex, multimode ClearCurve Pretium 300 (OM3 Solutions)
2.0 mm FRNC jumper – unit of measure is m
E393901T3Z80xxxM SC Simplex to SC Simplex, multimode ClearCurve Pretium 300 (OM3 Solutions)
2.8 mm FRNC jumper – unit of measure is m
E033901Q2Z80xxxM LC Simplex to SC Simplex, multimode ClearCurve Pretium 550 (OM4 Solutions)
2.0 mm FRNC jumper – unit of measure is m
E393901Q3Z80xxxM SC Simplex to SC Simplex, multimode ClearCurve Pretium 550 (OM4 Solutions)
2.8 mm FRNC jumper – unit of measure is m

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LANscape® Pretium™ Solutions

Plug & Play™ Systems U-Clip Strain-Relief and Accessory Brackets

Part Number Reference Sheet

PC1-RJ-STR Photo LAN1363

PC2-STRN Photo LAN1364

PC4-RJ-STR Photo LAN1366

Mounting of Plug & Play™ Systems trunks using the integrated U-clip strain-relief feature is available utilizing the following brackets. The following tables detail whether a separate bracket is required for the housing (accessory) or if it is standard with the housing. The quantity of Plug & Play Systems MTP® Connector trunks that can be mounted are shown by fiber count.

Rack-Mountable Housing Strain-Relief Brackets

Hardware			12-24 Fibers		36-48 Fibers	72-96 Fibers	144 Fibers	
			Non-Armored	Armored	Non-Armored and Armored	Non-Armored and Armored	Non-Armored	Armored
PCH-01U								
1U Strain-Relief Bracket (2)	Accessory	**PC1-RJ-STR**	3	2	2	2	2	2
PCH-02U								
2U Strain-Relief Bracket	Accessory	**PC2-STRN**	4	2	2	2	2	2
PCH-04U								
4U Strain-Relief Bracket (2)	Accessory	**PC4-RJ-STR**	3	2	2	2	2	2
Strain-Relief Rear Plate to install inside of PCH	Accessory	**PC4-RJ-PLT**	12	0	0	0	0	0
PCH-M3-01U								
Strain-Relief Integral to Housing	Standard	**N/A**	6	0	0	0	0	0
96-Fiber (Example P/N: HD1A-U96-05-70S)								
Strain-Relief Integral to Housing	Standard	**N/A**	8*	4**	4**	2***	N/A	N/A

A (2) in the part description indictes two brackets are included.

** Using up to (4) U-Clip locations each in the left and right floor of the shelf*

*** Using up to (2) U-Clip locations each in the left and right floor of the shelf*

**** Two rear flanges (one each at the left and right rear corners of the shelf) accommodate (1) trunk U-Clip each*

Wall-Mountable Housing Strain-Relief Brackets

Hardware			12-24 Fibers		36-48 Fibers	72-96 Fibers	144 Fibers	
			Non-Armored	Armored	Non-Armored and Armored	Non-Armored and Armored	Non-Armored	Armored
PWH-02P								
Interior Strain-Relief Bracket	Standard	**N/A**	3	1	1	1	1	1
PWH-04P								
Interior Strain-Relief Bracket	Standard	**N/A**	4	2	2	2*	2*	0
PWH-06P								
Interior Strain-Relief Bracket	Standard	**N/A**	4	2	2	2*	2*	0
PWH-12P								
Interior Strain-Relief Bracket	Standard	**N/A**	8	4	4	4*	4*	0
Exterior Strain-Relief Bracket for PWH-02P, -04P, -06P, -12P								
Exterior Strain-Relief Bracket (2)	Accessory	**PWH-RJSR**	3	2	2	1	1	1

A (2) in the part description indictes two brackets are included.

** Requires removal and reinstallation of a bracket via two nuts*

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Pretium™ Solutions

PC4-RJ-PLT Photo LAN1365

PWH-RJSR Photo LAN1367

CDF-RJ-BKT Photo LAN1357

LANscape® Pretium™ Solutions

Plug & Play™ Systems U-Clip Strain-Relief and Accessory Brackets

Part Number Reference Sheet

CDF-RJ06-BKT Photo LAN1358

CDF-RJ07-BKT Photo LAN1359

CDF-RJ12-BKT Photo LAN1360

Frame-Mountable Strain-Relief Brackets

Frame Mounted Strain-Relief Bracket			12-24 Fibers		36-48 Fibers	72-96 Fibers	144 Fibers	
			Non-Armored	Armored	Non-Armored and Armored	Non-Armored and Armored	Non-Armored	Armored
Strain-Relief Bracket (2)	Accessory	**CDF-RJ-BKT**	1	1	1	0**	0**	0
6-in Strain-Relief Bracket	Accessory	**CDF-RJ06-BKT**	6	3	3	3	3	3
7-in Strain-Relief Bracket	Accessory	**CDF-RJ07-BKT**	7	4	4	4	4	4
12-in Strain-Relief Bracket	Accessory	**CDF-RJ12-BKT**	12	6	6	6	6	6
18-in Strain-Relief Bracket	Accessory	**CDF-RJ18-BKT**	18	9	9	9	9	9

A (2) in the part description indictes two brackets are included.

*** May accommodate one 72- to 144-Fiber trunk depending on the IBU used and location on the rack*

Accessory Brackets/Panels for Plug & Play™ Systems

Part Number	Description
RBC-02P	Frame-Mountable Bracket, capacity for up to two (2) Plug & Play Systems modules or adapter panels
CPP-01U-PNL	1U Rack-Mountable Panel, capacity for up to two (2) Plug & Play Systems modules or adapter panels
CPP-M3-01U	1U Rack-Mountable Panel, capacity for up to three (3) Plug & Play Systems modules or adapter panels

RBC-02P Photo LAN1368

CPP-01U-PNL Photo LAN1361

CPP-M3-01U Photo LAN1362

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2 Fibre Optic Cables

2.1. Outdoor Cables

2.1.1. Outdoor Cables with Rodent Protection, Dielectric, Loose Tube

2.1.2. Outdoor Cables with Aramid Yarns, Dielectric, Stranded Loose Tube, 12-144 fibres

2.1.3. Outdoor Cables with Aramid Yarns and Steel Armoring, Loose Tube

2.2. Indoor/Outdoor Cables

2.2.1. Indoor/Outdoor Cables with Rodent Protection, Dielectric, Loose Tube

2.2.2. Indoor/Outdoor Cables with Steel Armoring, Loose Tube

2.2.3. Indoor/Outdoor Cables with Aramid Yarns, Dielectric, Loose Tube

2.2.4. Indoor/Outdoor Cables Dielectric, Tight Buffered

2.3. Indoor Cables

2.3.1. Indoor Cables, Loose Tube

2.3.2. Indoor Cables, Tight Buffered

CORNING

Datasheet
A-DQ(BN)2Y CT/ November 2009

Product Family: **LANscape® Outdoor Cables**

Cable type: **Outdoor central tube cable (maxibundle) with glass yarn armouring / A-DQ(BN)2Y 4 - 24 …. CT**

Fibre: **All fibre types**

Description and applications

The outdoor central tube (maxibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.

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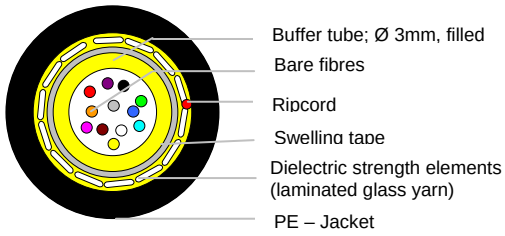
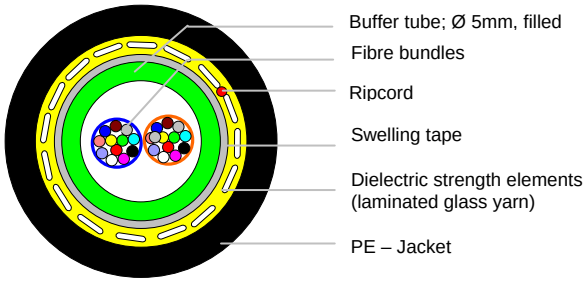


Example: A-DQ(BN)2Y 12E9/125 OS2

Cable

- Water blocking to IEC 60794-1-2-F5
- Laminated swelling glass yarns for improved rodent resistance and longitudinal water protection
- UV and microbe resistant
- Metal-free cable, hence no ground loop problems.
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DQ(BN)2Y 24G50/125 OM2, OM3 or OM4

Design

Fibres and central tube colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Fibre bundles > 12 fibres yarn: blue, orange
- Buffer tube: yellow (E9/125), green (G50eSX+/125, G50SX+/125, G50/125), blue (G62.5/125)

Cable

- Central tube: up to 12 fibres Ø =3.0 mm, >12 fibres Ø =5.0 mm, with thixotropic filling compound
- Dielectric strength elements and swelling elements (laminated swelling glass yarn)
- Ripcord
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -20 to +60 -25 to +70	
Cable type	**Fibre count**	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible
A-DQ(BN)2Y CT	4	7.0	39	140	105	1000	1500
A-DQ(BN)2Y CT	6	7.0	39	140	105	1000	1500
A-DQ(BN)2Y CT	8	7.0	39	140	105	1000	1500
A-DQ(BN)2Y CT	12	7.0	39	140	105	1000	1500
A-DQ(BN)2Y CT	16 (2x8)	9.0	63	180	135	1500	2500
A-DQ(BN)2Y CT	24 (2x12)	9.0	63	180	135	1500	2500

Colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

FWCT01- S00 1 □□ - 2 □ 3 002

Use the following options to construct the catalogue number:

1 Fibre count

004 = 4 fibres
006 = 6 fibres
008 = 8 fibres
012 = 12 fibres
016 = 16 fibres
024 = 24 fibres

2 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

3 Cable type

002 = Outdoor central tube (maxibundle) cable

Example:

Catalogue number:FWCT01-S0004-H002
Outdoor central tube (maxibundle) cable
A-DQ(BN)2Y 1x4G50CC OM3/125 CT= Pretium 300 ULTRA-BEND 250µm fibre; Maxibundle with laminated swelling glass yarn, Jacket: Black

Catalogue number: LCXLM1-D0012-U700
Outdoor central tube (maxibundle) cable
A-DQ(BN)2Y 1x12E9/125 = SMF28e+ (OS2) 250µm fibre; Maxibundle with laminated swelling glass yarn, Jacket: Black

Max. delivery length per drum:

Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(BN)2Y 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue fibre bundle 8x 50µm fibres and Orange fibre bundle 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(BN)2Y 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue fibre bundle 12x 50µm fibres and Orange fibre bundle 12x 9µm fibres.

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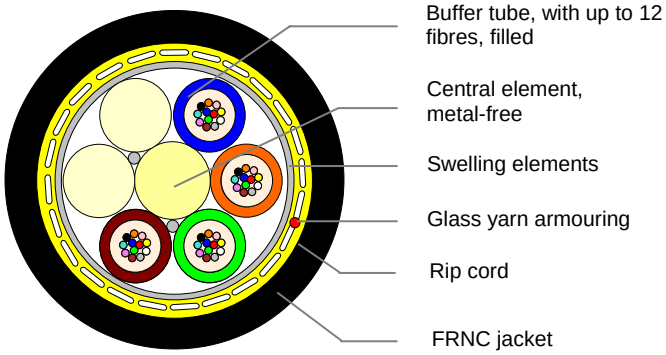
Product Family: **LANscape® Outdoor Cables**

Cable type: **Outdoor stranded loose tube cable (minibundle) with glass yarn armouring / A-DQ(BN)2Y 12 – 144…. LT, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

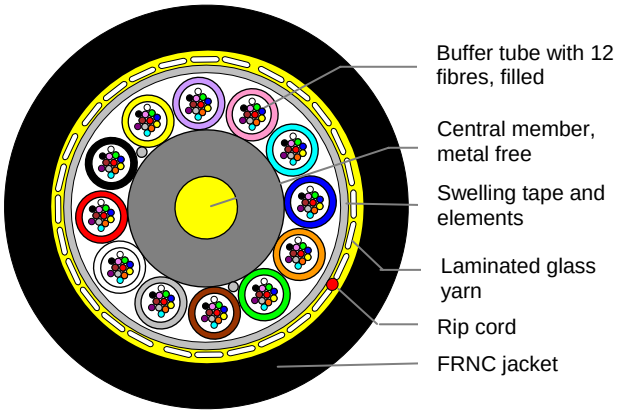
The outdoor stranded loose tube (minibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.



Example: A-DQ(BN)H 4x12 … LG

Cable

- Water blocking to IEC 60794-1-2-F5
- Laminated glass yarns for improved rodent resistance
- UV and microbe resistant
- Metal-free cable, hence no ground loop problems.
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DQ(BN)H 12x12 … LG

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Filling elements: natural

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound; up to 72 fibres, if required for the 6 elements core, filling elements (Ø = 2.25 mm) are used
- Swelling tape and elements
- Laminated glass yarn
- Ripcord
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -30 to +70 -40 to +70	
Cable type	**Fibre count**	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible
A-DQ(BN)2Y LT	12 (2x6)	10.9	91	215	160	4000	2000
A-DQ(BN)2Y LT	24 (4x6)	10.9	91	215	160	4000	2000
A-DQ(BN)2Y LT	24 (2x12)	10.9	91	215	160	4000	2000
A-DQ(BN)2Y LT	36 (3x12)	10.9	91	215	160	4000	2000
A-DQ(BN)2Y LT	48 (4x12)	10.9	91	215	160	4000	2000
A-DQ(BN)2Y LT	72 (6x12)	10.9	91	215	160	4000	2000
A-DQ(BN)2Y LT	96 (8x12)	12.3	116	245	185	4000	2000
A-DQ(BN)2Y LT	120 (10x12)	13.8	145	275	205	4000	2000
A-DQ(BN)2Y LT	144 (12x12)	15.3	180	305	230	4000	2000

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3	4
FWLT01-	□□	□□□	- □	**003**

Use the following options to construct the catalogue number:

1 Fibre per tubes

N6 = 6 fibres per tube
S0 = 12 fibres per tube

2 Fibre count

012 = 12 fibres
024 = 24 fibres
036 = 36 fibres
048 = 48 fibres
072 = 72 fibres
096 = 96 fibres
120 = 120 fibres
144 = 144 fibres

3 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

4 Cable type

003 = Outdoor stranded loose tube (minibundle) cable with glass yarn armouring

Examples:

Catalogue number: FWLT01-N6012-H003
Outdoor stranded loose tube (minibundle) cable with glass yarn armouring
A-DQ(BN)2Y 2x6 G50CC OM3/125 LT= Pretium 300 ULTRA-BEND 250µm fibre; Minibundle with laminated glass yarn, Jacket: Black

Catalogue number: FWLT01-S0144-U003
Outdoor stranded loose tube (minibundle) cable with glass yarn armouring
A-DQ(BN)2Y 12x12E9/125 = SMF28e+ (OS2) 250µm fibre; Minibundle with laminated glass yarn, Jacket: Black

Max. delivery length per drum:

Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(BN)2Y 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(BN)2Y 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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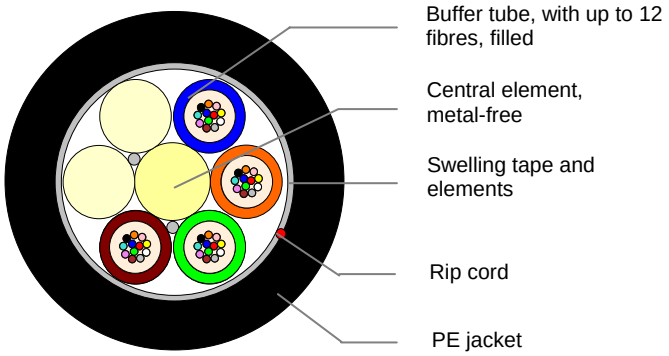
Product Family: **LANscape® Outdoor Cables**

Cable type: **Outdoor stranded loose tube cable (minibundle) / A-DQ(ZN)2Y 12 – 144…. LT, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

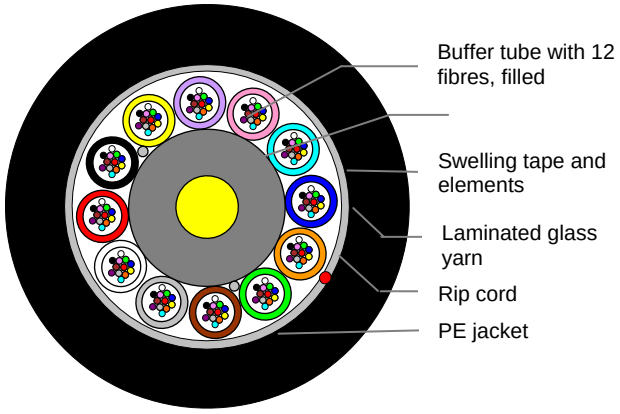
The outdoor stranded loose tube (minibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.



Example: A-DQ(ZN)2Y 4x12 … LG

Cable

- Water blocking to IEC 60794-1-2-F5
- UV and microbe resistant
- Metal-free cable, hence no ground loop problems.
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DQ(ZN)2Y 12x12 … LG

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Filling elements: natural

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound; up to 72 fibres, if required for the 6 elements core, filling elements (Ø = 2.25 mm) are used
- Swelling tape and elements
- Ripcord
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -30 to +70 -40 to +70	
Cable type	**Fibre count**	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible
A-DQ(ZN)2Y LT	12 (2x6)	10.5	80	185	155	2700	2000
A-DQ(ZN)2Y LT	24 (4x6)	10.5	80	185	155	2700	2000
A-DQ(ZN)2Y LT	24 (2x12)	10.5	80	185	155	2700	2000
A-DQ(ZN)2Y LT	36 (3x12)	10.5	80	185	155	2700	2000
A-DQ(ZN)2Y LT	48 (4x12)	10.5	80	185	155	2700	2000
A-DQ(ZN)2Y LT	72 (6x12)	10.5	80	185	155	2700	2000
A-DQ(ZN)2Y LT	96 (8x12)	11.9	103	210	180	2700	2000
A-DQ(ZN)2Y LT	120 (10x12)	13.4	131	235	200	2700	2000
A-DQ(ZN)2Y LT	144 (12x12)	14.9	163	260	225	2700	2000

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3	4
FWLT01-	□□	□□□	- □	**001**

Use the following options to construct the catalogue number:

1 Fibre per tubes

N6 = 6 fibres per tube
S0 = 12 fibres per tube

2 Fibre count

012 = 12 fibres
024 = 24 fibres
036 = 36 fibres
048 = 48 fibres
072 = 72 fibres
096 = 96 fibres
120 = 120 fibres
144 = 144 fibres

3 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

4 Cable type

001 = Outdoor stranded loose tube (minibundle) cable

Examples:

Catalogue number: FWLT01-N6012-H001
Outdoor stranded loose tube (minibundle) cable
A-DQ(ZN)2Y 2x6 G50CC OM3/125 LT= Pretium 300 ULTRA-BEND 250µm Fibre; Minibundle, Jacket: Black

Catalogue number: FWLT01-S0144-U001
Outdoor stranded loose tube (minibundle) cable
A-DQ(ZN)2Y 12x12E9/125 = SMF28e+ (OS2) 250µm Fibre; Minibundle, Jacket: Black

Max. delivery length per drum:

Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(ZN)2Y 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(ZN)2Y 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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Product Family: **LANscape® Outdoor Cables**

Cable type: **Outdoor central tube cable (maxibundle) with corrugated steel armouring/ A-DQ(ZN)(SR)2Y 4 - 24 …. CT**

Fibre: **All fibre types**

Description and applications

The outdoor central tube (maxibundle) armoured cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.

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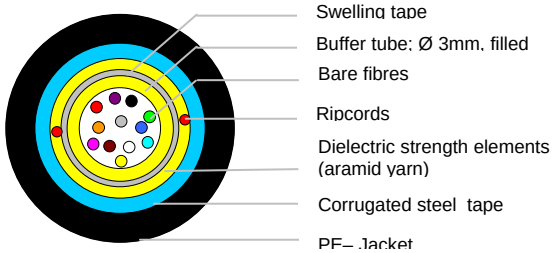
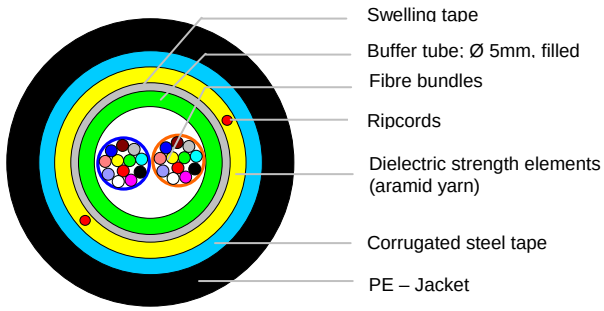


Example: A-DQ(ZN)(SR)2Y 12E9/125 OS2

Cable

- Water blocking to IEC 60794-1-2-F5
- Dielectric strength elements (aramid yarn)
- Corrugated steel tape as protection against rodents and mechanical damage
- UV and microbe resistant
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DQ(ZN)(SR)2Y 24G50/125 OM2, OM3 or OM4

Design

Fibres and central tube colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Fibre bundles > 12 Fibres yarn: blue, orange
- Buffer tube: yellow (E9/125), green (G50eSX+/125, G50SX+/125, G50/125), blue (G62.5/125)

Cable

- Central tube: up to 12 fibres Ø =3.0 mm, >12 fibres Ø =5.0 mm, with thixotropic filling compound
- Swelling tape
- Dielectric strength elements (aramid yarn)
- Ripcords
- Corrugated steel tape
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -20 to +60 -25 to +70	
Cable type	**Fibre count**	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible
A-DQ(ZN)(SR)2Y CT	4	7.5	60	150	110	1000	2000
A-DQ(ZN)(SR)2Y CT	6	7.5	60	150	110	1000	2000
A-DQ(ZN)(SR)2Y CT	8	7.5	60	150	110	1000	2000
A-DQ(ZN)(SR)2Y CT	12	7.5	60	150	110	1000	2000
A-DQ(ZN)(SR)2Y CT	16 (2x8)	9.7	93	195	145	1500	3000
A-DQ(ZN)(SR)2Y CT	24 (2x12)	9.7	93	195	145	1500	3000

Colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

1 2 3
FWCT01- S00□□ - □ 003

Use the following options to construct the catalogue number:

1 Fibre count
004 = 4 fibres
006 = 6 fibres
008 = 8 fibres
012 = 12 fibres
016 = 16 fibres
024 = 24 fibres

2 Fibre category
A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

3 Cable type
003 = Outdoor armoured central tube (maxibundle) cable

Example:

Catalogue number: FWCT01-S0004-H003
Oudoor armoured central tube (maxibundle) cable
A-DQ(ZN)(SR)2Y 1x4G50CC OM3/125 CT=Pretium 300 ULTRA-BEND 250µm Fibre; Maxibundle with corrugated steel tape, Jacket: Black

Catalogue number: FWCT01-S0012-U003
Outdoor armoured central tube (maxibundle) cable
A-DQ(ZN)(SR)2Y 1x12E9/125 = SMF28e+ (OS2) 250µm Fibre; Maxibundle with corrugated steel tape, Jacket: Black

Max. delivery length per drum:
Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(ZN)(SR)2Y 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue fibre bundle 8x 50µm fibres and Orange fibre bundle 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(ZN)(SR)2Y 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue fibre bundle 12x 50µm fibres and Orange fibre bundle 12x 9µm fibres.

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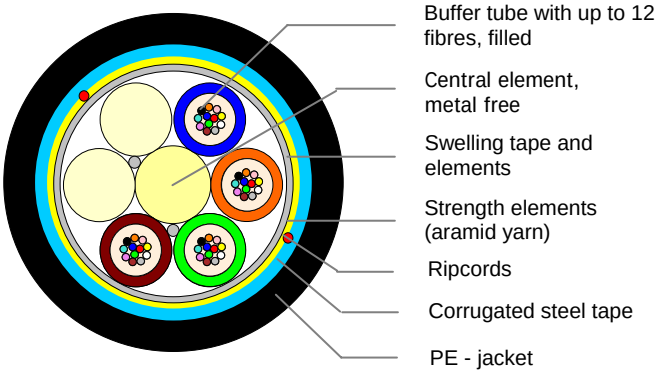
Product Family: **LANscape® Outdoor Cables**

Cable type: **Outdoor stranded loose tube cable (minibundle) with corrugated steel armouring / A-DQ(ZN)(SR)2Y 12 –144…. LT, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

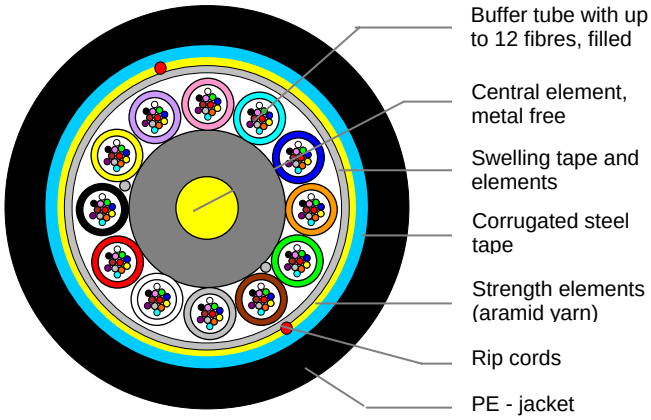
The outdoor stranded loose tube (minibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.



e.g.: A-DQ(ZN)(SR)2Y 4x12 … LG

Cable

- Water blocking to IEC 60794-1-2-F5
- Dielectric strength elements (aramid yarn)
- Corrugated steel tape as protection against rodents and mechanical damage
- UV and microbe resistant
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DQ(ZN)(SR)2Y 12x12 … LG

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Filling elements: natural

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound; up to 72 fibres, if required for the 6 elements core, filling elements (Ø = 2.25 mm) are used
- Swelling tape and elements
- Strength elements (aramid yarn)
- Ripcords
- Corrugated steel tape
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿∿ - CORNING - Year

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -30 to +70 -40 to +70	
Cable type	**Fibre count**	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible
A-DQ(ZN)(SR)2Y LT	12 (2x6)	11.6	127	230	175	2700	3000
A-DQ(ZN)(SR)2Y LT	24 (4x6)	11.6	127	230	175	2700	3000
A-DQ(ZN)(SR)2Y LT	24 (2x12)	11.6	127	230	175	2700	3000
A-DQ(ZN)(SR)2Y LT	36 (3x12)	11.6	127	230	175	2700	3000
A-DQ(ZN)(SR)2Y LT	48 (4x12)	11.6	127	230	175	2700	3000
A-DQ(ZN)(SR)2Y LT	72 (6x12)	11.6	127	230	175	2700	3000
A-DQ(ZN)(SR)2Y LT	96 (8x12)	13.0	156	260	195	2700	3000
A-DQ(ZN)(SR)2Y LT	120 (10x12)	14.5	193	290	215	2700	3000
A-DQ(ZN)(SR)2Y LT	144 (12x12)	16.0	232	320	240	2700	3000

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

FWLT01- **1** ☐☐ **2** ☐☐☐ **-** **3** ☐ **4** **005**

Use the following options to construct the catalogue number:

1 Fibre per tubes

N6 = 6 fibres per tube
S0 = 12 fibres per tube

2 Fibre count

012 = 12 fibres
024 = 24 fibres
036 = 36 fibres
048 = 48 fibres
072 = 72 fibres
096 = 96 fibres
120 = 120 fibres
144 = 144 fibres

3 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

4 Cable type

005 = Outdoor armoured stranded loose tube (minibundle) cable

Examples:

Catalogue number: FWLT01-N6012-H005
Outdoor armoured stranded loose tube (minibundle) cable
A-DQ(ZN)(SR)2Y 2x6 G50CC OM3/125 LT=Pretium 300 ULTRA-BEND 250µm Fibre; Minibundle with corrugated steel tape, Jacket: Black

Catalogue number: FWLT01-S0144-U005
Outdoor armoured stranded loose tube (minibundle) cable
A-DQ(ZN)(SR)2Y 12x12E9/125 = SMF28e+ (OS2) 250µm Fibre; Minibundle with corrugated steel tape, Jacket: Black

Max. delivery length per drum:

Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(ZN)(SR)2Y 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(ZN)(SR)2Y 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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Product Family: **LANscape® Multi-Purpose Cables (indoor/outdoor)**

Cable type: **Multipurpose central tube cable (maxibundle) with glass yarn armouring / A-DQ(BN)H 4 - 24 …. CT**

Fibre: **All fibre types**

Description and applications

The MPC (Multi-Purpose Cables) central tube (indoor/outdoor maxibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.

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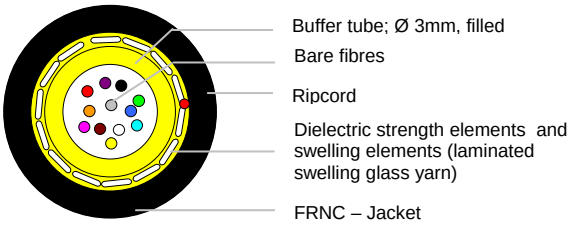
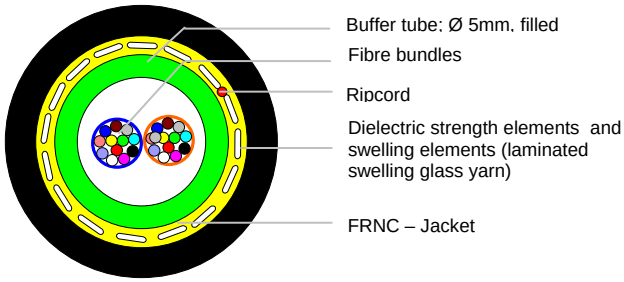


Example: A-DQ(BN)H 12E9/125 OS2

Cable

- Low smoke to IEC 61034 and EN 50268, halogen free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Water blocking to IEC 60794-1-2-F5
- Laminated swelling glass yarns for improved rodent resistance and longitudinal water protection
- UV and microbe resistant
- Metal-free cable, hence no ground loop problems.
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DQ(BN)H 24G50/125 OM2, OM3 or OM4

Design

Fibres and central tube colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Fibre bundles > 12 Fibres yarn: blue, orange
- Buffer tube: yellow (E9/125), green (G50eSX+/125, G50SX+/125, G50/125), blue (G62.5/125)

Cable

- Central tube: up to 12 fibres Ø =3.0 mm, >12 fibres Ø =5.0 mm
- Dielectric strength elements and swelling elements (laminated swelling glass yarn)
- Ripcord
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -20 to +60 -25 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
A-DQ(BN)H CT	4	6.6	46	135	100	1000	1500	0.94
A-DQ(BN)H CT	6	6.6	46	135	100	1000	1500	0.94
A-DQ(BN)H CT	8	6.6	46	135	100	1000	1500	0.94
A-DQ(BN)H CT	12	6.6	46	135	100	1000	1500	0.94
A-DQ(BN)H CT	16 (2x8)	8.6	73	175	130	1500	1500	1.64
A-DQ(BN)H CT	24 (2x12)	8.6	73	175	130	1500	1500	1.64

Colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (maximum values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125 SMF-28e+**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Max. Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information:

	1	2	3		4	
L C X L M 1-	☐	☐	☐☐☐	**-**	☐	**700**

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
K = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

0 = MPC central tube (indoor/outdoor maxibundle) cable

3 Fibre count

004 = 4 fibres
006 = 6 fibres
008 = 8 fibres
012 = 12 fibres
016 = 16 fibres
024 = 24 fibres

4 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

Example:

Catalogue number: LCXLM1-K0004-H700
MPC central tube (indoor/outdoor maxibundle) cable
A-DQ(BN)H 1x4G50CC OM3/125 CT= Pretium 300 ULTRA-BEND 250µm fibre; Maxibundle with laminated swelling glass yarn, Jacket: Black

Catalogue number: LCXLM1-D0012-U700
MPC central tube (indoor/outdoor maxibundle) cable
A-DQ(BN)H 1x12E9/125 = SMF28e+ (OS2) 250µm fibre; Maxibundle with laminated swelling glass yarn, Jacket: Black

Max. delivery length per drum:

Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

For these cables ordering information please contact our Customer Service Centre (see footnote)

Multimode & Multimode Cable
Example: Cable A-DQ(BN)H 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue fibre bundle 8x 50µm fibres and Orange fibre bundle 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(BN)H 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue fibre bundle 12x 50µm fibres and Orange fibre bundle 12x 9µm fibres.

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Product Family: **LANscape® Multi-Purpose Cables (indoor/outdoor)**

Cable type: **Multipurpose stranded loose tube cable (minibundle) with glass yarn armouring / A-DQ(BN)H 12 – 72 …. LT, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

The MPC (Multi-Purpose Cables) stranded loose tube (indoor/outdoor minibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.

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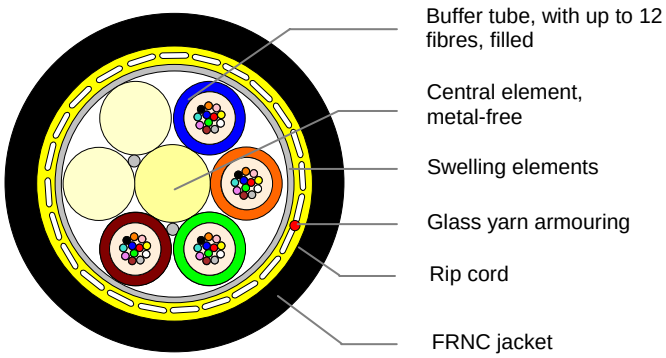

Example: A-DQ(BN)H 4x12 … LG

Cable

- Low smoke to IEC 61034 and EN 50268, halogen free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3-24 and EN 50266-2-4
- Water blocking to IEC 60794-1-2-F5
- Laminated glass yarns for improved rodent resistance
- UV and microbe resistant
- Metal-free cable, hence no ground loop problems.
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white
- Filling elements: natural

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound; if required for the 6 elements core, filling elements (Ø = 2.25 mm) are used
- Swelling tape and elements
- Laminated glass yarn
- Ripcord
- LSZH FRNC jacket: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -30 to +70 -40 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
A-DQ(BN)H LT	12 (2x6)	10.9	117	215	160	4000	2000	2.51
A-DQ(BN)H LT	24 (4x6)	10.9	117	215	160	4000	2000	2.41
A-DQ(BN)H LT	24 (2x12)	10.9	117	215	160	4000	2000	2.51
A-DQ(BN)H LT	36 (3x12)	10.9	117	215	160	4000	2000	2.47
A-DQ(BN)H LT	48 (4x12)	10.9	117	215	160	4000	2000	2.40
A-DQ(BN)H LT	72 (6x12)	10.9	117	215	160	4000	2000	2.34

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelen-gths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

Single mode fibre E9/125 / SMF28e+ (OS2):

Cable type	A-DQ(BN)H 2x6E9/125 LG	A-DQ(BN)H 4x6E9/125 LG	A-DQ(BN)H 2x12E9/125 LG
Max. delivery length	6000 m +3/-2%	6000 m +3/-2%	6000 m +3/-2%
Catalogue number	**LCXLM1-D4012-U702**	**LCXLM1-D4024-U702**	**LCXLM1-D4024-U703**

Cable type	A-DQ(BN)H 3x12E9/125 LG	A-DQ(BN)H 4x12E9/125 LG	A-DQ(BN)H 6x12E9/125 LG
Max. delivery length	6000 m +3/-2%	6000 m +3/-2%	6000 m +3/-2%
Catalogue number	**LCXLM1-D4036-U702**	**LCXLM1-D4048-U702**	**LCXLM1-D4072-U701**

Multimode fibre G50CC OM4/125 / Pretium 550:

Cable type	A-DQ(BN)H 2x6G50CC OM4/125 LG	A-DQ(BN)H 4x6G50CC OM4/125 LG	A-DQ(BN)H 2x12G50CC OM4/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4012-K703**	**LCXLM1-K4024-K703**	**LCXLM1-K4024-K700**

Cable type	A-DQ(BN)H 3x12G50CC OM4/125 LG	A-DQ(BN)H 4x12G50CC OM4/125 LG	A-DQ(BN)H 6x12G50CC OM4/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4036-K700**	**LCXLM1-K4048-K700**	**LCXLM1-K4072-K700**

Multimode fibre G50CC OM3/125 / Pretium 300:

Cable type	A-DQ(BN)H 2x6G50CC OM3/125 LG	A-DQ(BN)H 4x6G50CC OM3/125 LG	A-DQ(BN)H 2x12G50CC OM3/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4012-H703**	**LCXLM1-K4024-H703**	**LCXLM1-K4024-H700**

Cable type	A-DQ(BN)H 3x12G50CC OM3/125 LG	A-DQ(BN)H 4x12G50CC OM3/125 LG	A-DQ(BN)H 6x12G50CC OM3/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4036-H700**	**LCXLM1-K4048-H700**	**LCXLM1-K4072-H700**

Multimode fibre G50CC OM2/125 / Pretium 150:

Cable type	A-DQ(BN)H 2x6G50CC OM2/125 LG	A-DQ(BN)H 4x6G50CC OM2/125 LG	A-DQ(BN)H 2x12G50CC OM2/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4012-G703**	**LCXLM1-K4024-G703**	**LCXLM1-K4024-G700**

Cable type	A-DQ(BN)H 3x12G50CC OM2/125 LG	A-DQ(BN)H 4x12G50CC OM2/125 LG	A-DQ(BN)H 6x12G50CC OM2/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4036-G700**	**LCXLM1-K4048-G700**	**LCXLM1-K4072-G700**

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Multimode fibre G62.5L/125 / Infinicor 300

Cable type	A-DQ(BN)H 2x6G62.5L/125 LG	A-DQ(BN)H 4x6G62.5L/125 LG	A-DQ(BN)H 2x12G62.5L/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-M4012-A703**	**LCXLM1-M4024-A703**	**LCXLM1-M4024-A700**

Cable type	A-DQ(BN)H 3x12G62.5L/125 LG	A-DQ(BN)H 4x12G62.5L/125 LG	A-DQ(BN)H 6x12G62.5L/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-M4036-A700**	**LCXLM1-M4048-A700**	**LCXLM1-M4072-A700**

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(BN)H 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(BN)H 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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Product Family: **LANscape® Multi-Purpose Cables (indoor/outdoor)**

Cable type: **Multipurpose stranded loose tube cable (minibundle) with glass yarn armouring / A-DQ(BN)H 96 – 144 …. LT, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

The MPC (Multi-Purpose Cables) stranded loose tube (indoor/outdoor minibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.

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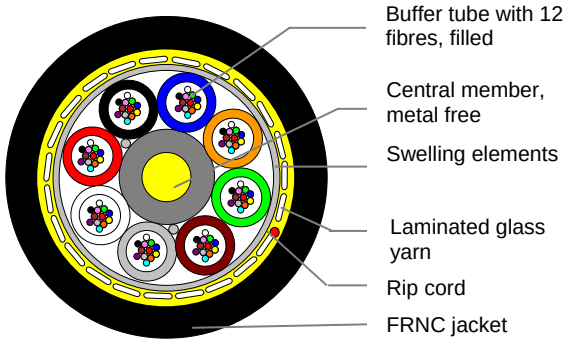
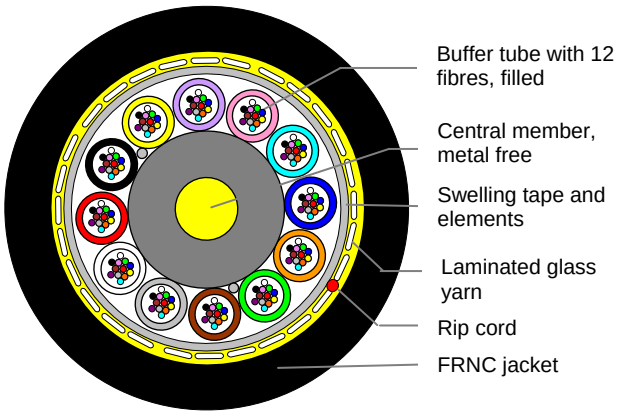


Example: A-DQ(BN)H 8x12 … LG



Example: A-DQ(BN)H 12x12 … LG

Cable

- Low smoke to tested parameters, halogen free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Water blocking to IEC 60794-1-2-F5
- Laminated glass yarns for improved rodent resistance
- UV and microbe resistant
- Metal-free cable, hence no ground loop problems.
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound
- Swelling tape and elements
- Laminated glass yarn
- Ripcord
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1] + Fibre count[2] + Fibre type[3]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -30 to +70 -40 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
A-DQ(BN)H LT	96 (8x12)	12.3	144	245	185	4000	2000	2.95
A-DQ(BN)H LT	120 (10x12)	13.8	177	275	205	4000	2000	3.74
A-DQ(BN)H LT	144 (12x12)	15.3	215	305	230	4000	2000	4.61

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Max. Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

Single mode fibre E9/125 / SMF28e+ (OS2):

Cable type	A-DQ(BN)H 8x12E9/125 LG	A-DQ(BN)H 10x12E9/125 LG	A-DQ(BN)H 12x12E9/125 LG
Max. delivery length	6000 m +3/-2%	6000 m +3/-2%	6000 m +3/-2%
Catalogue number	**LCXLM1-D4096-U701**	**LCXLM1-D4120-U700**	**LCXLM1-D4144-U700**

Multimode fibre G50CC OM4/125 / Pretium 550:

Cable type	A-DQ(BN)H 8x12G50CC OM4/125 LG	A-DQ(BN)H 10x12G50CC OM4/125 LG	A-DQ(BN)H 12x12G50CC OM4/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4096-K700**	**LCXLM1-K4120-K700**	**LCXLM1-K414-K700**

Multimode fibre G50CC OM3/125 / Pretium 300:

Cable type	A-DQ(BN)H 8x12G50CC OM3/125 LG	A-DQ(BN)H 10x12G50CC OM3/125 LG	A-DQ(BN)H 12x12G50CC OM3/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4096-H700**	**LCXLM1-K4120-H700**	**LCXLM1-K4144-H700**

Multimode fibre G50CC OM2/125 / Pretium 150:

Cable type	A-DQ(BN)H 8x12G50CC OM2/125 LG	A-DQ(BN)H 10x12G50CC OM2/125 LG	A-DQ(BN)H 12x12G50CC OM2/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-K4096-G700**	**LCXLM1-K4120-G700**	**LCXLM1-K4144-G700**

Multimode fibre G62.5L/125 / Infinicor 300

Cable type	A-DQ(BN)H 8x12G62.5L/125 LG	A-DQ(BN)H 10x12G62.5L/125 LG	A-DQ(BN)H 12x12G62.5L/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLM1-M4096-A700**	**LCXLM1-M4120-A700**	**LCXLM1-M4144-A700**

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(BN)H 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(BN)H 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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Product Family: **LANscape® Multi-Purpose Cables (indoor/outdoor)**

Cable type: **Multipurpose central tube cable (maxibundle) with corrugated steel armouring/ A-DQ(ZN)(SR)H 4 - 24 …. CT**

Fibre: **All fibre types**

Description and applications

The MPC (Multi-Purpose Cables) central tube (indoor/outdoor maxibundle) armoured cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.

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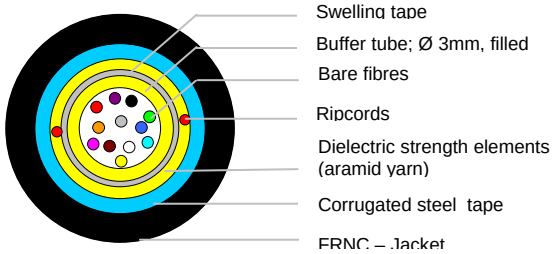
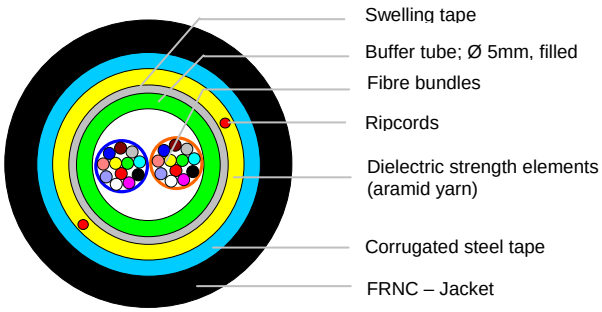


Example: A-DQ(ZN)(SR)H 12E9/125 OS2

Cable

- Low smoke to IEC 61034 and EN 50268, halogen free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Water blocking to IEC 60794-1-2-F5
- Dielectric strength elements (aramid yarn)
- Corrugated steel tape as protection against rodents and mechanical damage
- UV and microbe resistant
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DQ(ZN)(SR)H 24G50/125 OM2, OM3 or OM4

Design

Fibres and central tube colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Fibre bundles > 12 fibres yarn: blue, orange
- Buffer tube: yellow (E9/125), green (G50eSX+/125, G50SX+/125, G50/125), blue (G62.5/125)

Cable

- Central tube: up to 12 fibres Ø =3.0 mm, >12 fibres Ø =5.0 mm, with thixotropic filling compound
- Swelling tape
- Dielectric strength elements (aramid yarn)
- Ripcords
- Corrugated steel tape
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ☎ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -20 to +60 -25 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
A-DQ(ZN)(SR)H CT	4	7.5	76	150	110	1000	2000	1.16
A-DQ(ZN)(SR)H CT	6	7.5	76	150	110	1000	2000	1.16
A-DQ(ZN)(SR)H CT	8	7.5	76	150	110	1000	2000	1.16
A-DQ(ZN)(SR)H CT	12	7.5	76	150	110	1000	2000	1.16
A-DQ(ZN)(SR)H CT	16 (2x8)	9.7	114	195	145	1500	3000	1.91
A-DQ(ZN)(SR)H CT	24 (2x12)	9.7	114	195	145	1500	3000	1.91

Colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

FWCT01- S00 1 □□ - 2 □ 3 004

Use the following options to construct the catalogue number:

1 Fibre count

04 = 4 fibres
06 = 6 fibres
08 = 8 fibres
12 = 12 fibres
16 = 16 fibres
24 = 24 fibres

2 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

3 Cable type

004 = MPC armoured central tube (indoor/outdoor maxibundle) cable

Examples:

Catalogue number: FWCT01-S0004-H004
MPC armoured central tube (indoor/outdoor maxibundle) cable
A-DQ(ZN)(SR)H 1x4G50CC OM3/125 CT= Pretium 300 ULTRA-BEND 250µm Fibre; Maxibundle with corrugated steel tape, Jacket: Black

Catalogue number: FWCT01-S0012-U004
MPC armoured central tube (indoor/outdoor maxibundle) cable
A-DQ(ZN)(SR)H 1x12E9/125 = SMF28e+ (OS2) 250µm Fibre; Maxibundle with corrugated steel tape, Jacket: Black

Max. delivery length per drum:

Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(ZN)(SR)H 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue fibre bundle 8x 50µm fibres and Orange fibre bundle 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(ZN)(SR)H 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue fibre bundle 12x 50µm fibres and Orange fibre bundle 12x 9µm fibres.

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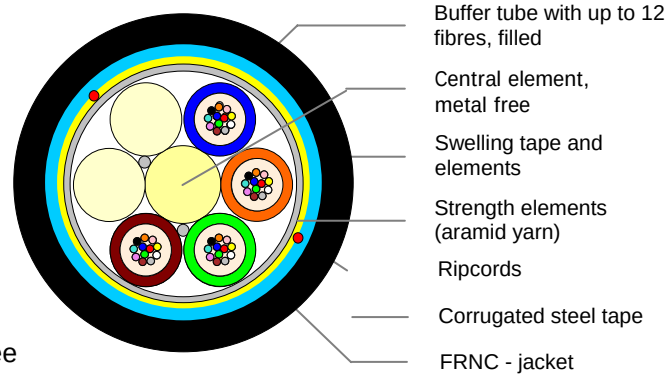
Product Family: **LANscape® Multi-Purpose Cables (indoor/outdoor)**

Cable type: **Multipurpose stranded loose tube cable (minibundle) with corrugated steel armouring / A-DQ(ZN)(SR)H 12 – 72 …. LT, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

The MPC (Multi-Purpose Cables) stranded loose tube (indoor/outdoor minibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.



e.g.: A-DQ(ZN)(SR)H 4x12 … LG

Cable

- Low smoke to IEC 61034 and EN 50268, halogen free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Water blocking to IEC 60794-1-2-F5
- Dielectric strength elements (aramid yarn)
- Corrugated steel tape as protection against rodents and mechanical damage
- UV and microbe resistant
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white
- Filling elements: natural

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound; if required for the 6 elements core, filling elements (Ø = 2.25 mm) are used
- Swelling tape and elements
- Strength elements (aramid yarn)
- Ripcords
- Corrugated steel tape
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ☎ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -30 to +70 -40 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
A-DQ(ZN)(SR)H LT	12 (2x6)	11.6	153	230	175	2700	3000	2.62
A-DQ(ZN)(SR)H LT	24 (4x6)	11.6	153	230	175	2700	3000	2.53
A-DQ(ZN)(SR)H LT	24 (2x12)	11.6	153	230	175	2700	3000	2.62
A-DQ(ZN)(SR)H LT	36 (3x12)	11.6	153	230	175	2700	3000	2.57
A-DQ(ZN)(SR)H LT	48 (4x12)	11.6	153	230	175	2700	3000	2.53
A-DQ(ZN)(SR)H LT	72(6x12)	11.6	153	230	175	2700	3000	2.45

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3	4
FWLT01-	□□	□□□	- □	**007**

Use the following options to construct the catalogue number:

1 Fibre per tubes

N6 = 6 fibres per tube
S0 = 12 fibres per tube

2 Fibre count

012 = 12 fibres
024 = 24 fibres
036 = 36 fibres
048 = 48 fibres
072 = 72 fibres

3 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

4 Cable type

007 = MPC armoured stranded loose tube (indoor/outdoor minibundle) cable

Examples:

Catalogue number: FWLT01-N6012-H007
MPC armoured stranded loose tube (indoor/outdoor minibundle) cable
A-DQ(ZN)(SR)H 2x6 G50CC OM3/125 LT= Pretium 300 ULTRA-BEND 250µm Fibre; Minibundle with corrugated steel tape, Jacket: Black

Catalogue number: FWLT01-S0024-U007
MPC armoured stranded loose tube (indoor/outdoor minibundle) cable
A-DQ(ZN)(SR)H 2x12E9/125 = SMF28e+ (OS2) 250µm Fibre; Minibundle with corrugated steel tape, Jacket: Black

Max. delivery length per drum:

Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(ZN)(SR)H 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(ZN)(SR)H 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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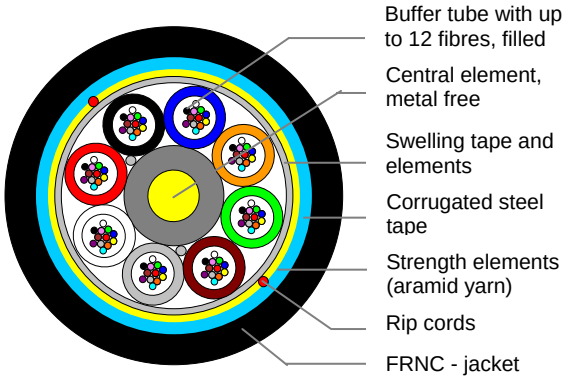
Product Family: **LANscape® Multi-Purpose Cables (indoor/outdoor)**

Cable type: **Multipurpose stranded loose tube cable (minibundle) with corrugated steel armouring / A-DQ(ZN)(SR)H 96 – 144 …. LT, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

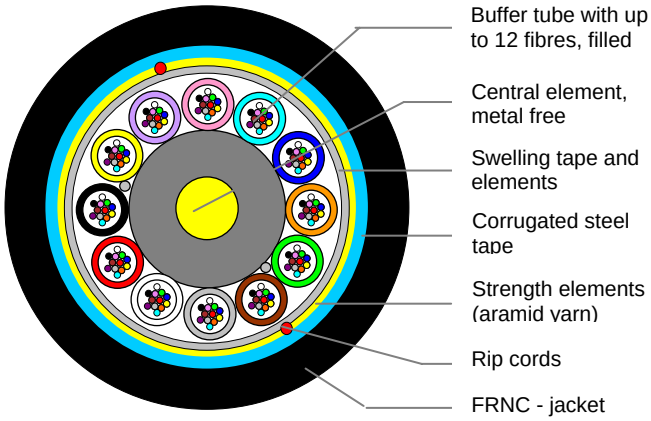
The MPC (Multi-Purpose Cables) stranded loose tube (indoor/outdoor minibundle) armoured cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.



Example: A-DQ(ZN)(SR)H 8x12 … LG

Cable

- Low smoke to IEC 61034 and EN 50268, halogen free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Water blocking to IEC 60794-1-2-F5
- Dielectric strength elements (aramid yarn)
- Corrugated steel tape as protection against rodents and mechanical damage
- UV and microbe resistant
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DQ(ZN)(SR)H 12x12 … LG

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound
- Swelling tape and elements
- Strength elements (aramid yarn)
- Ripcords
- Corrugated steel tape
- LSZH FRNC jacket; nominal thickness: 1.5 mm
- Jacket colour: Black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1] + Fibre count[2] + Fibre type[3]

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -30 to +70 -40 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
A-DQ(ZN)(SR)H LT	96 (8x12)	13.0	185	260	195	2700	3000	3.12
A-DQ(ZN)(SR)H LT	120 (10x12)	14.5	226	290	215	2700	3000	3.90
A-DQ(ZN)(SR)H LT	144 (12x12)	16.0	269	320	240	2700	3000	4.77

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

1 2 3 4
FWLT01- S0□□□-□ 007

Use the following options to construct the catalogue number:

1 Fibre per tubes

S0 = 12 fibres per tube

2 Fibre count

096 = 96 fibres
120 = 120 fibres
144 = 144 fibres

3 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

4 Cable type

007 = MPC armoured stranded loose tube (indoor/outdoor minibundle) cable

Examples:

Catalogue number: FWLT01-S0096-H007
MPC armoured stranded loose tube (indoor/outdoor minibundle) cable
A-DQ(ZN)(SR)H 8x12 G50CC OM3/125 LT=Pretium 300 ULTRA-BEND 250µm Fibre; Minibundle with corrugated steel tape, Jacket: Black

Catalogue number: FWLT01-S0144-U007
MPC armoured stranded loose tube (indoor/outdoor minibundle) cable
A-DQ(ZN)(SR)H 12x12E9/125 = SMF28e+ (OS2) 250µm Fibre; Minibundle with corrugated steel tape, Jacket: Black

Max. delivery length per drum:
Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable A-DQ(ZN)(SR)H 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable A-DQ(ZN)(SR)H 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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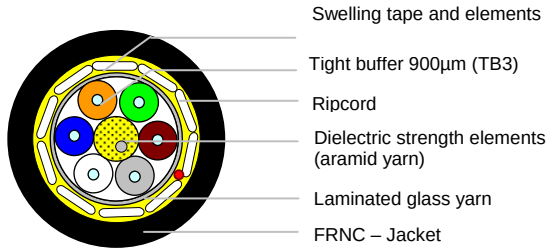
Product Family: **LANscape® Multi-Purpose Cables (indoor/outdoor)**

Product: **Multipurpose tight buffered cable (i-MPC) with glass yarn armouring / A-VQ(BN)H 2- 24 … TB3**

Fibre: **All fibre types**

Description and applications

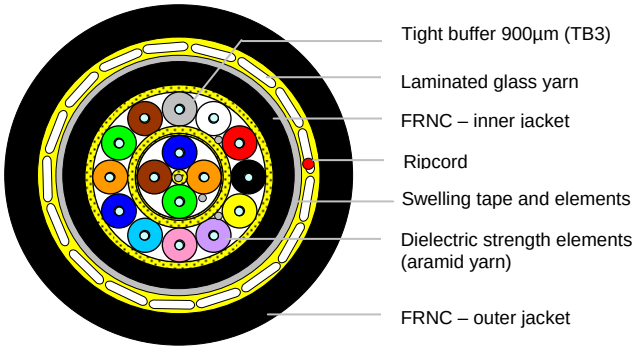
The i-MPC (indoor/outdoor tight buffered) cables can be employed both indoors and outdoors for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors and terminal equipments / workstations (fibre-to-the-desk). The cables can be installed in conduits, ducts and be buried directly in the ground. Due to the tight buffered construction (TB3 = stripping length 10 cm) the connectorization on the field is made fast and easy without need of a fan-out.



Example: A-VQ(BN)H 6 all fibre types

Cable

- Low smoke to IEC 61034 and EN 50268, halogen free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3-24 and EN 50266-2-4
- Water blocking to IEC 60794-1-2-F5
- Laminated glass yarns for improved rodent resistance
- Completely dry design
- Metal-free cable, hence no ground loop problems.
- Thin, robust cable.
- 900µm-tight buffers allow easy and field connectorization
- UV and microbe resistant.
- Can be directly buried or installed in ducts.
- RoHS compliant
- Telcordia (Bellcore) colour coding



Example: A-VQ(BN)H 16 all fibre types

Design

Fibres and tight buffers colour coding

- Tight buffer up to 12 fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Tight buffer >12 fibres: same colour coding with black dashes
- Fibre: natural

Cable construction

- Dielectric strength elements with swelling elements
- Tight buffered fibres, 900µm (TB3), stranded on 1 layer up to 8 fibres with swelling elements
  stranded on 2 layers > 12 fibres with swelling elements
- Strength elements (aramid yarn) – only for 2 layers stranded design
- Inner FRNC jacket; nominal thickness: 0.5 mm – only for 2 layers stranded design
- Swelling tape
- Laminated glass yarn
- Ripcord
- FRNC jacket; nominal thickness: 0.8 mm
- Jackets colour: black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:

Meter - ☎ - ∿ - CORNING - Year - Cable type[1] + Fibre count[2] + Fibre type[3]

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage	[°C]					-5 to +50 -20 to +60 -25 to +70		
Cable type[1]	**Fibre count**[2]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend	Min. bend radius operation [mm] Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
A-VQ(BN)H	2*	6.2	37	125	31	95	1500	2000	0.58
A-VQ(BN)H	4	6.2	37	125	31	95	1500	2000	0.58
A-VQ(BN)H	6	6.8	42	135	34	100	2000	2000	0.68
A-VQ(BN)H	8	7.0	46	140	35	105	2000	2000	0.73
A-VQ(BN)H	12	8.7	74	175	44	130	2700	2000	1.21
A-VQ(BN)H	16	9.3	81	185	47	140	2700	2000	1.38
A-VQ(BN)H	24	10.3	99	205	52	155	2700	2000	1.61

*** 2-fiber version with 2 filling elements (900µm)**

Colour coding of tight-buffer coatings, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

L C X L M 2 - 1 2 3 - 4 700

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
L = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

5 = i-MPC (indoor/outdoor tight buffered cable)

3 Fibre count

002 = 4 fibres
004 = 4 fibres
006 = 6 fibres
008 = 8 fibres
012 = 12 fibres
016 = 16 fibres
024 = 24 fibres

4 Fibre category

A = Infinicor 300, OM1
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

Examples:

Catalogue number: LCXLM2-L5004-H700
i-MPC cable (indoor/outdoor tight buffered)
A-VQ(BN)H 4G50CC OM3/125 TB3 = Pretium 300 ULTRA-BEND Fibre; TB3 900µm tight buffer; jacket colour: black

Catalogue number: LCXLM2-D5012-U700
i-MPC cable (indoor/outdoor tight buffered)
A-VQ(BN)H 12E9/125 TB3 YE = SMF28e+ (OS2) Fibre, TB3 900µm tight buffer; jacket colour: black

Max. delivery length per drum (all fibre types): 2000 m
Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

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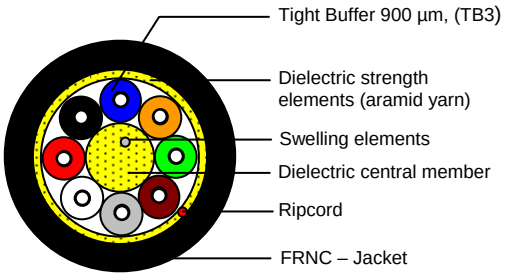
Product Family: **LANscape® Multi-Purpose Cables (indoor/outdoor)**

Product: **Multipurpose tight buffered cable (i-MUC) with water penetration protection**
A-VQH 2- 24 … TB3

Fibre: **All fibre types**

Description and applications

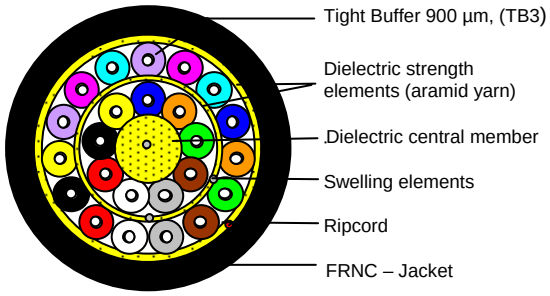
The i-MUC (indoor/outdoor tight buffered) cables can be employed both indoors and outdoors for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors and terminal equipments / workstations (fibre-to-the-desk). The cables can be installed in conduits, ducts and be buried directly in the ground. Due to the tight buffered construction (TB3 = stripping length 10 cm) the connectorization on the field is made fast and easy without need of a fan-out.



Example: A-VQH 6 all fibre types

Cable

- Low smoke to IEC 61034 and EN 50268, halogen free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Water blocking to IEC 60794-1-2-F5
- Completely dry design
- Metal-free cable, hence no ground loop problems.
- Thin, robust cable.
- 900µm-tight buffers allow easy and field connectorization
- UV and microbe resistant.
- Can be directly buried or installed in ducts.
- RoHS compliant
- Telcordia (Bellcore) colour coding



Example: A-VQH 24 all fibre types

Design

Fibres and tight buffers colour coding

- Tight buffer up to 12 fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Tight buffer >12 fibres: same colour coding with black dashes
- Fibre: natural

Cable construction

- Dielectric strength elements with swelling elements
- Tight buffered fibres, 900µm (TB3), stranded on 1 layer up to 8 fibres with swelling elements
  stranded on 2 layers > 12 fibres with swelling elements
- Strength elements (aramid yarn) – only for 2 layers stranded design
- Swelling tape
- Ripcord
- FRNC jacket; nominal thickness: 0.8 mm
- Jacket colour: black (OM4, OM3, OM2,OM1, OS2)

- Cable marking:
  Meter - ⌒ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage	[°C]					-5 to +50 -20 to +60 -25 to +70		
Cable type[1]	**Fibre count**[2]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend	Min. bend radius operation [mm] Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
A-VQH	4	4.5	20	68	23	45	600	2000	0.35
A-VQH	6	5.1	25	77	26	50	750	2000	0.48
A-VQH	8	5.5	29	85	27	55	800	2000	0.56
A-VQH	12	6.3	37	95	31	65	1100	2000	0.70
A-VQH	16	6.5	43	100	33	65	1500	2000	0.81
A-VQH	24	8.1	61	120	41	80	1500	2000	1.13

Colour coding of tight-buffers coatings, jacket colours and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

L C X L N 2 - □ 5 □□□ - □ 700
1 2 3 4

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
L = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

5 = i-MUC (indoor/outdoor tight buffered cable)

3 Fibre count

004 = 4 fibres
006 = 6 fibres
008 = 8 fibres
012 = 12 fibres
016 = 16 fibres
024 = 24 fibres

4 Fibre category

A = InfiniCor 600, OM1
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

Examples:

Catalogue number: LCXLN2-L5004-H700
i-MUC cable (indoor/outdoor tight buffered)
A-VQH 4G50CC OM3/125 TB3 = Pretium 300 ULTRA-BEND Fibre; TB3 900µm tight buffer; jacket colour: black

Catalogue number: LCXLN2-D5012-U700
i-MUC cable (indoor/outdoor tight buffered)
A-VQH 12E9/125 TB3 = SMF28e+ (OS2) Fibre, TB3 900µm tight buffer; jacket colour: black

Max. delivery length per drum (all fibre types): 2000 m
Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

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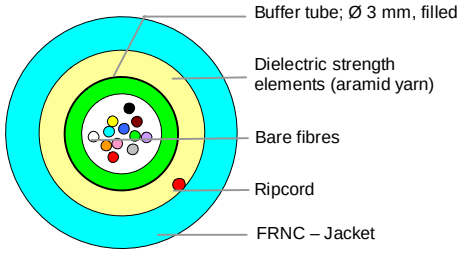
Product Family: **LANscape® Multifibre cable indoor**

Cable type: **Indoor central tube cable (maxibundle) / J-DH 4 - 24 …. CT**

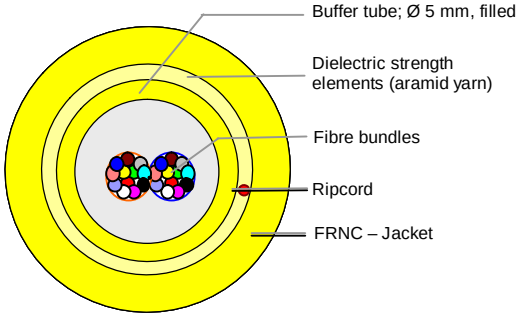
Fibre: **All fibre types**

Descripitions and applications

The central tube indoor cables are particularly suitable for laying and pulling into cable conduits and shafts inside buildings and in the building riser between floor distributors and they are it is especially fitted for splice connections.



Example: J-DH 12G50CC OM3 or OM4



Example: J-DH 24E9/125 OS2

Cable

- Low smoke (IEC 61034 and EN 50268) and zero halogen (LSZH)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-1 up to 24 fibres and IEC 60332-3C and EN 50266-2-4 up to 12 fibres
- Metal-free cable, hence no ground loop problems.
- Thin and light cable.
- Low fire load
- RoHS compliant
- Telcordia (Bellcore) standard for fibres colour coding

Design

Fibres and central tube colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Fibre bundles > 12 fibres yarn: blue, orange
- Buffer tube: yellow (E9/125), green (G50/125 Pretium 150, -300, -550), blue (G62.5L/125)

Cable

- Central tube: up to 12 fibres Ø =3.0 mm, >12 fibres Ø =5.0 mm, with thixotropic filling compound
- Dielectric strength elements (aramid yarn)
- Ripcord
- LSZH FRNC jacket: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1] + Fibre count[2] + Fibre type[3]

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -20 to +60 -25 to +70		
Cable type[1]	**Fibre count**[2]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
J-DH CT	4	6.2	40	125	95	800	1500	0.71
J-DH CT	6	6.2	40	125	95	800	1500	0.71
J-DH CT	8	6.2	40	125	95	800	1500	0.71
J-DH CT	12	6.2	40	125	95	800	1500	0.71
J-DH CT	16 (2x8)	7.8	63	155	120	1200	1500	1.36
J-DH CT	24 (2x12)	7.8	63	155	120	1200	1500	1.36

Colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3	4	
L C X L I 1 -	□	**0**	□□□	□	**700**

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
K = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

0 = Indoor central tube (maxibundle) cable

3 Fibre count

004 = 4 fibres
006 = 6 fibres
008 = 8 fibres
012 = 12 fibres
016 = 16 fibres
024 = 24 fibres

4 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

Example:

Catalogue number: LCXLI1-K0004-H700
Indoor central tube cable (maxibundle)
J-DH 1x4G50CC OM3/125 = Pretium 300 ULTRA-BEND 250µm Fibre; Maxibundle, Jacket: Aqua

Catalogue number: LCXLI1-D0012-U700
Indoor central tube cable (maxibundle)
J-DH 1x12E9/125 = SMF28e+ (OS2) 250µm Fibre; Maxibundle, Jacket: Yellow

Max. delivery length per drum:

Multimode fibres: 4000 m
Singlemode fibres: 6000 m

Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable J-DH 8G50CC OM4/125 + 4G62.5L/125 (OM1)
Blue fibre bundle 8x 50µm fibres and Orange fibre bundle 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable J-DH 12G50CC OM2/125 + 12E9/125 (OS2)
Blue fibre bundle 12x 50µm fibres and Orange fibre bundle 12x 9µm fibres.

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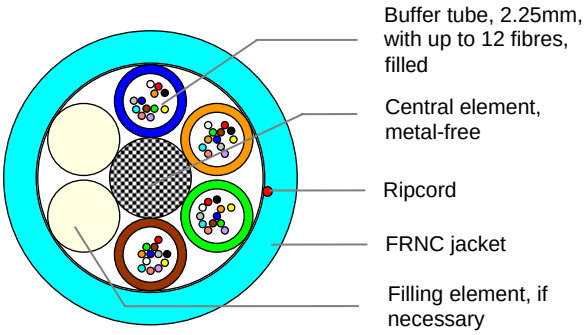
Product Family: **LANscape® Multifibre cable indoor**

Product: **Stranded loose tube (minibundle) cable/ J-DH 12 – 72… LG, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

The stranded loose tube (minibundle) indoor cables are particularly suitable for laying and pulling into cable conduits and shafts inside buildings and in the building riser between floor distributors.



Example: J-DH 4x12 G50SX+/125 LG TQ

Cable

- Low smoke to IEC 61034 and EN 50268 halogen-free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-1
- RoHS compliant
- Metal-free cable, hence no ground loop problems.
- Thin and light cable.
- Low fire load
- Telcordia (Bellcore) standard for fibres and bundle colour coding.

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white
- Filling elements: natural

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound; if required for the 6 elements core, filling elements (Ø = 2.25 mm) are used
- Ripcord
- LSZH FRNC jacket: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage		[°C]		-5 to +50 -20 to +60 -25 to +70		
Cable type[1]	**Fibre count**[2]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
J-DH LT	12 (2x6)	9.1	76	160	135	2000	1500	1.35
J-DH LT	24 (4x6)	9.1	76	160	135	2000	1500	1.51
J-DH LT	24 (2x12)	9.1	76	160	135	2000	1500	1.35
J-DH LT	36 (3x12)	9.1	76	160	135	2000	1500	1.43
J-DH LT	48 (4x12)	9.1	76	160	135	2000	1500	1.50
J-DH LT	72 (6x12)	9.1	76	160	135	2000	1500	1.65

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

Single mode fibre E9/125 / SMF28e+ (OS2):

Cable type	J-DH 2x6E9/125 LG	J-DH 4x6E9/125 LG	J-DH 2x12E9/125 LG
Max. delivery length	6000 m +3/-2%	6000 m +3/-2%	6000 m +3/-2%
Catalogue number	**LCXLI1-D4012-U700**	**LCXLI1-D4024-U702**	**LCXLI1-D4024-U701**

Cable type	J-DH 3x12E9/125 LG	J-DH 4x12E9/125 LG	J-DH 6x12E9/125 LG
Max. delivery length	6000 m +3/-2%	6000 m +3/-2%	6000 m +3/-2%
Catalogue number	**LCXLI1-D4036-U701**	**LCXLI1-D4048-U701**	**LCXLI1-D4072-U700**

Multimode fibre G50CC OM4/125 / Pretium 550:

Cable type	J-DH 2x6G50CC OM4/125 LG	J-DH 4x6G50CC OM4/125 LG	J-DH 2x12G50CC OM4/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4012-K700**	**LCXLI1-K4024-K701**	**LCXLI1-K4024-K700**

Cable type	J-DH 3x12G50CC OM4/125 LG	J-DH 4x12G50CC OM4/125 LG	J-DH 6x12G50CC OM4/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4036-K700**	**LCXLI1-K4048-K700**	**LCXLI1-K4072-K700**

Multimode fibre G50CC OM3/125 / Pretium 300:

Cable type	J-DH 2x6G50CC OM3/125 LG	J-DH 4x6G50CC OM3/125 LG	J-DH 2x12G50CC OM3/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4012-H700**	**LCXLI1-K4024-H701**	**LCXLI1-K4024-H700**

Cable type	J-DH 3x12G50CC OM3/125 LG	J-DH 4x12G50CC OM3/125 LG	J-DH 6x12G50CC OM3/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4036-H700**	**LCXLI1-K4048-H700**	**LCXLI1-K4072-H700**

Multimode fibre G50CC OM2/125 / Pretium 150:

Cable type	J-DH 2x6G50CC OM2/125 LG	J-DH 4x6G50CC OM2/125 LG	J-DH 2x12G50CC OM2/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4012-G700**	**LCXLI1-K4024-G701**	**LCXLI1-K4024-G700**

Cable type	J-DH 3x12G50CC OM2/125 LG	J-DH 4x12G50CC OM2/125 LG	J-DH 6x12G50CC OM2/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4036-G700**	**LCXLI1-K4048-G700**	**LCXLI1-K4072-G700**

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Multimode fibre G62.5L/125 / Infinicor 300

Cable type	J-DH 2x6G62.5L/125 LG	J-DH 4x6G62.5L/125 LG	J-DH 2x12G62.5L/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-M4012-A700**	**LCXLI1-M4024-A701**	**LCXLI1-M4024-A700**

Cable type	J-DH 3x12G62.5L/125 LG	J-DH 4x12G62.5L/125 LG	J-DH 6x12G62.5L/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-M4036-A700**	**LCXLI1-M4048-A700**	**LCXLI1-M4072-A700**

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable J-DH 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable J-DH 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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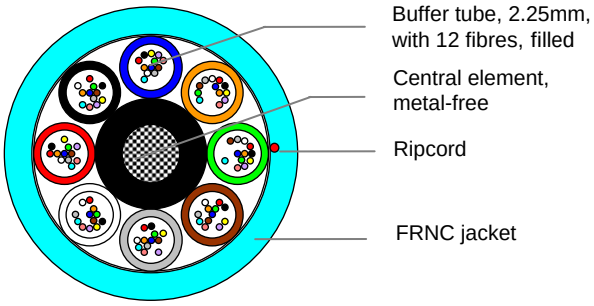
Product Family: **LANscape® Multifibre cable indoor**

Product: **Stranded loose tube (minibundle) cable/ J-DH 96 - 144… LG, 2.25 mm tubes**

Fibre: **All fibre types**

Description and applications

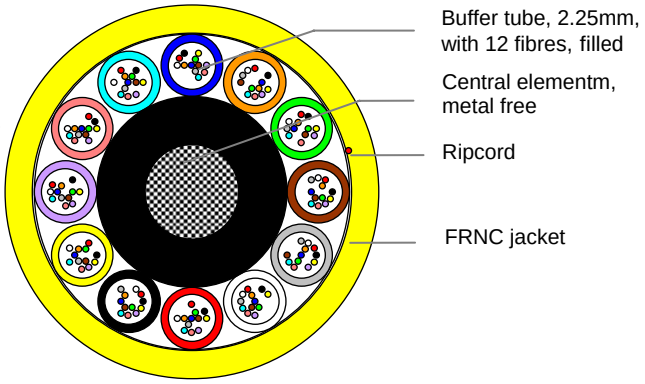
The stranded loose tube (minibundle) indoor cables are particularly suitable for laying and pulling into cable conduits and shafts inside buildings and in the building riser between floor distributors.



Example: J-DH 8x12 G50SX+/125 LG TQ

Cable

- Low smoke to to tested parameters halogen-free (LSZH™)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-1
- RoHS compliant
- Metal-free cable, hence no ground loop problems.
- Thin and light cable.
- Low fire load
- Telcordia (Bellcore) standard for fibres and bundle colour coding.



Example: J-DH 12x12 E9/125 LG YE

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise

Cable

- Central element GRP
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound
- Ripcord
- LSZH FRNC jacket: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -20 to +60 -25 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
J-DH LT	96 (8x12)	10.6	102	185	160	2000	1500	2.28
J-DH LT	120 (10x12)	12.0	135	210	180	2000	1500	3.00
J-DH LT	144 (12x12)	13.5	160	235	200	2000	1500	3.78

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

Single mode fibre E9/125 / SMF28e+ (OS2):

Cable type	J-DH 8x12E9/125 LG	J-DH 10x124x6E9/125 LG	J-DH 12x12E9/125 LG
Max. delivery length	6000 m +3/-2%	6000 m +3/-2%	6000 m +3/-2%
Catalogue number	**LCXLI1-D4096-U700**	**LCXLI1-D4120-U700**	**LCXLI1-D4144-U700**

Multimode fibre G50CC OM4/125 / Pretium 550:

Cable type	J-DH 8x12G50CC OM4/125 LG	J-DH 10x12G50CC OM4/125 LG	J-DH 12x12G50CC OM4/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4096-K700**	**LCXLI1-K4120-K700**	**LCXLI1-K4144-K700**

Multimode fibre G50CC OM3/125 / Pretium 300:

Cable type	J-DH 8x12G50CC OM3/125 LG	J-DH 10x12G50CC OM3/125 LG	J-DH 12x12G50CC OM3/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4096-H700**	**LCXLI1-K4120-H700**	**LCXLI1-K4144-H700**

Multimode fibre G50CC OM2/125 / Pretium 150:

Cable type	J-DH 8x12G50CC OM2/125 LG	J-DH 10x12G50CC OM2/125 LG	J-DH 12x12G50CC OM2/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-K4096-G700**	**LCXLI1-K4120-G700**	**LCXLI1-K4144-G700**

Multimode fibre G62.5L/125 / Infinicor 300

Cable type	J-DH 8x12G62.5L/125 LG	J-DH 10x12G62.5L/125 LG	J-DH 12x12G62.5L/125 LG
Max. delivery length	4000 m +3/-2%	4000 m +3/-2%	4000 m +3/-2%
Catalogue number	**LCXLI1-M4096-A700**	**LCXLI1-M4120-A701**	**LCXLI1-M4144-A700**

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

Please notice that in the hybrid cables construction (different fibre types) the Multimode fibres are in sequence from the higher to the lower performance followed by the Singlemode fibres

Multimode & Multimode Cable
Example: Cable J-DH 8G50L/125 (OM4) + 4G62.5L/125 (OM1)
Blue buffer tube 8x 50µm fibres and Orange buffer tube 4x 62.5µm fibres.

Multimode & Singlemode Cable
Example: Cable J-DH 12G50L/125 (OM2) + 12E9/125 (OS2)
Blue buffer tube 12x 50µm fibres and Orange buffer tube 12x 9µm fibres.

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CORNING

RoHS COMPLIANT

Datasheet
V-/ November 2009

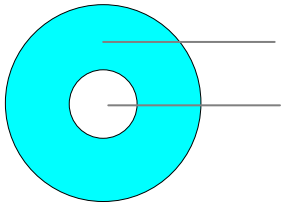
Product Family: **LANscape® system indoor cable**

Product: **Tight buffer coated fibre / V-… TB, TBR, TB3, TB3R**

Fibre: **All fibre types**

Description and Applications

Tight buffered fibers are used primarily by assembly manufacturing operations for making pigtails. Tight-buffered pigtails are typically used for connecting adapters and splice trays in patch panels where the incoming and outgoing cables are spliced. The ClearCurve enabled, bend-tolerant fibre allows for tighter bends and smaller slack loops in the fibre hardware. This specialty fibre terminates and splices like and is compatible with traditional multimode fibre from Corning.



Outer Coating (Secondary): 900µm or 700µm

Glass Fibre: 125µm with 250µm primary coating

Example: V-G50L/125 OM4 or OM3
TB, TBR, TB 3 or TB3R

.

Cable

- Low smoke (IEC 61034 and EN 50268) and zero halogen (LSZH)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Completely dry design
- 900µm tight buffer (**TB3**) and 700µm (**TB3R**) - easy to strip **up to 100mm**
- 900µm tight buffer (**TB**) and 700µm (**TBR**) - easy to strip **up to 1500mm**
- RoHS compliant

Colour identification

- Tight buffer coating 900/700µm (fibre type): aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)
- Fibre coating 250µm: natural/clear

Tight buffer characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage				[°C]			-5 to +50 -20 to +60 -25 to +70	
Buffer type	Fibre count	Buffer Ø [mm]	Buffer Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend	Min. bend radius operation [mm] Ultra Bend	Min. bend radius installation [mm] Standard	Min. bend radius operation [mm] Standard	Stripping lentgh [mm]	Fire load [MJ/m]
TB	1	0.9	1.0	15	7.5	30	30	1500	0.016
TB3	1	0.9	1.0	15	7.5	30	30	100	0.016
TBR	1	0.7	0.6	15	7.5	30	30	1500	0.010
TB3R	1	0.7	0.6	15	7.5	30	30	100	0.010

Fibres and/or tight buffers coatings colours deviating from the standard design have no influence on mechanical and optical characteristics.

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Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125 SMF-28e+**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

Ordering information for standard design tight-buffered fibres:

Coating Diameter	Standard Buffer 900µm		Reduced Buffer 700µm	
Coating Type FRNC	TB - Easy Strip (1.5m)	TB3 – Standard (10cm)	TBR - Easy Strip (1.5m)	TB3R – Standard (10cm)
Pretium OM1, 62.5µm	LCXLI2-MX001-A700-BL	LCXLI2-MX001-A704-BL	LCXLI2-MX001-A702-BL	LCXLI2-MX001-A701-BL
ClearCurve 50µm OM2 Pretium 150	LCXLI2-LX001-G700-GN	LCXLI2-LX001-G704-GN	LCXLI2-LX001-G702-GN	LCXLI2-LX001-G701-GN
ClearCurve 50µm OM3 Pretium 300	LCXLI2-LX001-H700-AQ	LCXLI2-LX001-H704-AQ	LCXLI2-LX001-H702-AQ	LCXLI2-LX001-H701-AQ
ClearCurve 50µm OM4 Pretium 550	LCXLI2-LX001-K700-AQ	LCXLI2-LX001-K704-AQ	LCXLI2-LX001-K702-AQ	LCXLI2-LX001-K701-AQ
SMF-28e+ 9µm OS2	LCXLI2-EX001-U700-GE	LCXLI2-EX001-U704-GE	LCXLI2-EX001-U702-GE	LCXLI2-EX001-U701-GE

Max. delivery length per spool: 2000 m

For non-standard design tight-buffered fibres ordering information please contact our Customer Service Centre (see footnote)

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Product Family: **LANscape® system indoor cable**

Product: **Patchcable simplex 2.8 mm and 2.0 mm/ J-VH … TB3 2.8 and 2.0**

Fibre: **All fibre types**

Description and Applications

The simplex cables can be employed indoor for jumper cabling and for the cabling between floor distributors and terminal equipments / workstations (fibre-to-the-desk), as well as for manufacturing of connector cables (Patchcords). The cables can be installed in dry conduits and ducts.
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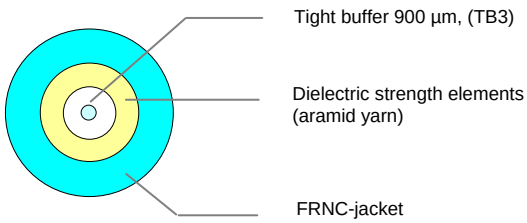

Example: J-VH 1G50L/125 OM4 or OM3

Cable

- Low smoke (IEC 61034 and EN 50268) and zero halogen (LSZH)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Completely dry design
- Metal-free cable, hence no ground loop problems.
- Thin and light cable
- 900µm-tight buffers allow easy and direct field connectorization
- 2.8 and 2.0 mm diameter
- RoHS compliant

Design

Fibre and tight buffer colour coding

- Tight buffer: white
- Fibre: natural

Cable construction

- Tight buffered fibre, 900µm (TB3),
- Dielectric strength elements (aramid yarn)
- LSZH FRNC outer jacket; nominal thickness: 0.6 mm for 2.8 mm cable; 0.35 mm for 2.0 mm cable
- Jacket colour: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Cable marking:

Meter - ⌒ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]			-5 to +50 -20 to +60 -25 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & standard	Min. bend radius operation [mm] Ultra Bend	Min. bend radius operation [mm] Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
J-VH	1	2.0	4.1	30	10	30	150	1000	0.08
J-VH	1	2.8	8.0	45	14	30	200	1000	0.15

Colour coding of tight-buffer coating, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics.

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3		4	5
L C X L I 2 -	□	**2**	**001**	**-**	□ **7**	□□

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
L = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

2 = simplex indoor cable

3 Fibre count

001 = 1 fibre

4 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

5 Cable diameter

20 = 2.8mm
50 = 2.0mm

Examples:

Catalogue number: LCXLI2-L2001-H720
Simplex indoor cable (2.8mm)
J-VH 1G50CC OM3/125 TB3 TQ 2.8 = Pretium 300 ULTRA-BEND Fibre; TB3 900µm tight buffer, 2.8mm diameter; jacket colour: aqua,

Catalogue number: LCXLI2-D2001-U750
Simplex indoor cable (2.0mm)
J-VH 1E9/125 TB3 YE 2.0 = SMF28e+ (OS2) Fibre, TB3 900µm tight buffer, 2.0mm diameter; jacket colour: yellow

Max. delivery length per drum (all fibre types): 2000 m
Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

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Product Family: **LANscape® system indoor cable**

Product: **Patchcable duplex 2.8 mm, 2.0 mm (Zipcord) and 1.8 mm (MiniZip)/ J-VH 2x1… TB3 2.8 and 2.0 or TB3R 1.8**

Fibre: **All fibre types**

Description and Applications

The Zipcord/MiniZip duplex cables can be employed indoor for jumper cabling and for the cabling between floor distributors and terminal equipments / workstations (fibre-to-the-desk), as well as for manufacturing of connector cables (Patchcords). The cables can be installed in dry conduits and ducts.

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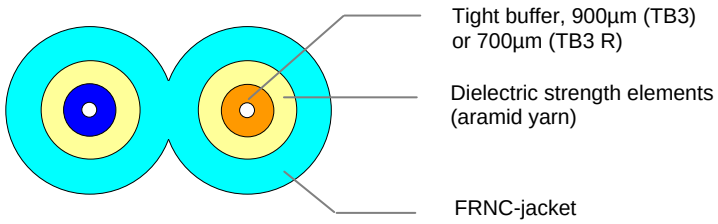

Example: J-VH 2x1G50L/125 OM4 or OM3

Cable

- Low smoke (IEC 61034 and EN 50268) and zero halogen (LSZH)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Completely dry design
- Metal-free cable, hence no ground loop problems.
- Thin and light cable
- Tight buffers allow easy and direct field connectorization
- 2x2.8, 2x2.0 and 2x1.8 mm diameter
- 900µm tight buffers (TB3) for 2.8mm and 2.0mm subunits
- 700µm tight buffers (TB3 R) for 1.8mm subunit
- RoHS compliant

Design

Fibres and tight buffers colour coding

- Tight buffer: blue, orange
- Fibre: natural

Cable construction

- Tight buffered fibre, 900µm (TB3) for 2x2.8mm and 2x2.0mm Zipcord, or 700µm (TB3R) for 2x1.8mm MiniZip
- Dielectric strength elements (aramid yarn)
- LSZH FRNC outer jacket; nominal thickness: 0.6 mm for 2.8 mm subunits; 0.35 mm for 2.0 mm subunits, 0.275 mm for 1.8 mm subunits
- Jacket colour: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]			-5 to +50 -20 to +60 -25 to +70		
Cable type[1]	**Fibre count**[2]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius* installation [mm] Ultra Bend & Standard	Min. bend radius* operation [mm] Ultra Bend	Min. bend radius* operation [mm] Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
J-VH 2x1	2	1.8 x 3.7	6.0	30	10	30	150	1000	0.11
J-VH 2x1	2	2.0 x 4.1	8.5	30	10	30	300	1000	0.16
J-VH 2x1	2	2.8 x 5.7	15.0	45	14	30	400	1000	0.33

*****Minimum bend radii are defined for the flat side

Colour coding of tight-buffers coatings, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics.

Optical characteristics (values cabled)

Fibre type[3]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3		4	5
L C X L I 2 -	□	**2**	**002**	**-**	□ **7**	□□

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
L = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

2 = Zipcord / MiniZip indoor cable

3 Fibre count

002 = 2 fibres

4 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

5 Subunit diameter

20 = 2.8mm
50 = 2.0mm
40 = 1.8mm

Examples:

Catalogue number: LCXLI2-L2002-H720
Zipcord indoor cable (duplex 2x2.8)
J-VH 2x1 G50CC OM3/125 TB3 TQ 2.8 = Pretium 300 ULTRA-BEND Fibre; TB3 900µm tight buffer, 2x2.8mm subunits; jacket colour: aqua

Catalogue number: LCXLI2-D2002-U750
Zipcord indoor cable (duplex 2x2.0)
J-VH 2x1E9/125 TB3 YE 2.0 = SMF28e+ (OS2) Fibre, TB3 900µm tight buffer, 2x2.0mm subunits; jacket colour: yellow

Catalogue number: LCXLI2-M2002-U740
MiniZip indoor cable (duplex 2x1.8)
J-VH 2x1G62.5L/125 TB3 OR 1.8 = Infinicor 300 (OM1) Fibre, TB3R 700µm reduced tight buffer, 2x1.8mm subunits; jacket colour: orange

Max. delivery length per drum (all fibre types): 2000 m
Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

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Product Family: **LANscape® system indoor cable**

Product: **Patchcable duplex Mini-MIC/ J-VH 1x2… TB3R**

Fibre: **All fibre types**

Description and Applications

The Mini-Mic bulk cabling for cable manufacturing operations is used primarily for terminating multifiber connectors (MT-RJ). The cables can be installed in dry conduits and ducts.

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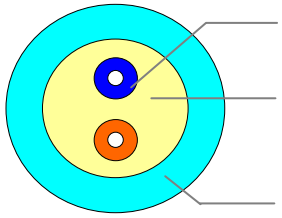

Example: J-VH 1x2G50L/125 OM4 or OM3

Cable

- Low smoke (IEC 61034 and EN 50268) and zero halogen (LSZH)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Completely dry design
- Metal-free cable, hence no ground loop problems.
- Thin and light cable
- Tight buffers allow easy and direct field connectorization
- 700µm tight buffers (TB3 R)
- RoHS compliant

Design

Fibres and tight buffers colour coding

- Tight buffer: blue, orange
- Fibre: natural

Cable construction

- Tight buffered fibre, 700µm (TB3R)
- Dielectric strength elements (aramid yarn)
- LSZH FRNC outer jacket; nominal thickness: 0.5 mm
- Jacket colour: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Cable marking:

Meter - ☎ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]			-5 to +50 -20 to +60 -25 to +70		
Cable type[1]	**Fibre count**[2]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius* installation [mm] Ultra Bend & Standard	Min. bend radius* operation [mm] Ultra Bend	Min. bend radius* operation [mm] Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
J-VH 1x2	2	2.9	8.0	45	15	30	200	1000	0.20

Colour coding of tight-buffers coatings, jacket colours and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics.

Optical characteristics (values cabled)

Fibre type[3]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3		4	5
L C X L I 2 -	**□**	**1**	**002**	**-**	**□**	**7 01**

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
L = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

1 = Mini-MIC indoor patch-cable

3 Fibre count

002 = 2 fibres

4 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

5 Cable diameter

01 = 2.9mm

Examples:

Catalogue number: LCXLI2-L1002-H701
Mini-MIC indoor cable
J-VH 1x2 G50CC OM3/125 TB3 TQ = Pretium 300 ULTRA-BEND Fibre; TB3R 700µm tight buffer; jacket colour: aqua

Max. delivery length per drum (all fibre types): 2000 m
Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

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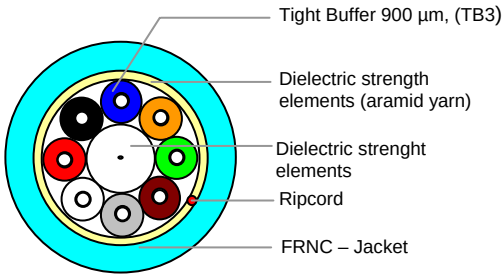
Product Family: **LANscape® Multifibre indoor cable**

Product: **Indoor tight buffered cable (mini-breakout) i-MIC / J-VH 2- 24 … TB3**

Fibre: **All fibre types**

Description and Applications

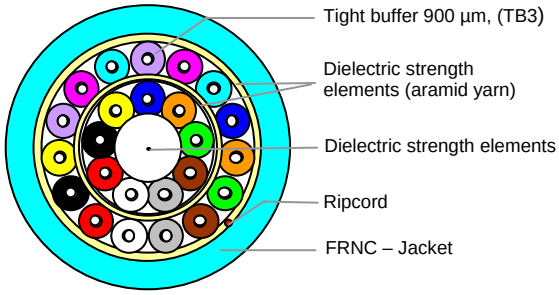
The multifiber indoor (i-mini-breakout) cables are particularly suitable for placing and pulling into cable conduits and shafts (building backbone and horizontal subsystems), and for connecting distributors and workstations inside buildings (FTTD). They can also be used as interbuilding cables laid in dry conduits and ducts. Due to the tight buffered construction (TB3 = stripping length 10 cm) the connectorization on the field is made fast and easy without need of a fan-out.



Example: J-VH 8G50L/125 OM4 or OM3

Cable

- Low smoke (IEC 61034 and EN 50268) and zero halogen (LSZH)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Completely dry design
- Metal-free cable, hence no ground loop problems.
- Thin and light cable
- 900µm-tight buffers allow easy and direct field connectorization
- RoHS compliant
- Colour code acc. to Telcordia (Bellcore)



Example: J-VH 24G50L/125 OM3 or OM4

Design

Fibres and tight buffers colour coding

- Tight buffer up to 12 fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
  Tight buffer >12 fibres: same colour coding with black dashes
- Fibres: natural

Cable construction

- Dielectric strength elements
- Tight buffered fibres, 900µm (TB3), stranded on 1 layer up to 8 fibres
  stranded on 2 layers > 12 fibres
- Dielectric strength elements (aramid yarn)
- Ripcord
- LSZH FRNC outer jacket; nominal thickness: 0.8 mm
- Jacket colour: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Cable marking:

Meter - ∩ - ∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]			-5 to +50 -20 to +60 -25 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend	Min. bend radius operation [mm] Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
J-VH	2	3.8	15	57	19	38	400	1000	0.28
J-VH	4	4.2	18	63	21	42	600	1000	0.35
J-VH	6	5.1	25	90	26	51	600	1000	0.48
J-VH	8	5.5	29	85	28	55	800	1000	0.56
J-VH	12	6.2	36	93	31	62	800	1000	0.70
J-VH	16	6.5	42	98	33	65	1000	1000	0.81
J-VH	24	8.0	59	120	40	80	1000	1000	1.13

Colour coding of tight-buffers coatings, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics.

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3	4	
L C X L I 2 -	□	**5**	□□□	**-** □	**700**

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
L = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

5 = Multifibre indoor cable (Mini-Breakout)

3 Fibre count

002 = 2 fibres
004 = 4 fibres
006 = 6 fibres
008 = 8 fibres
016 = 16 fibres
012 = 12 fibres
024 = 24 fibres

4 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

Examples:

Catalogue number: LCXLI2-L5004-H700
Multifibre indoor cable (Mini-Breakout)
J-VH 4G50CC OM3/125 TB3 TQ = Pretium 300 ULTRA-BEND Fibre; TB3 900µm tight buffer; jacket colour: aqua

Catalogue number: LCXLI2-D5012-U700
Multifibre indoor cable (Mini-Breakout)
J-VH 12E9/125 TB3 YE = SMF28e+ (OS2) Fibre, TB3 900µm tight buffer; jacket colour: yellow

Max. delivery length per drum (all fibre types): 2000 m
Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

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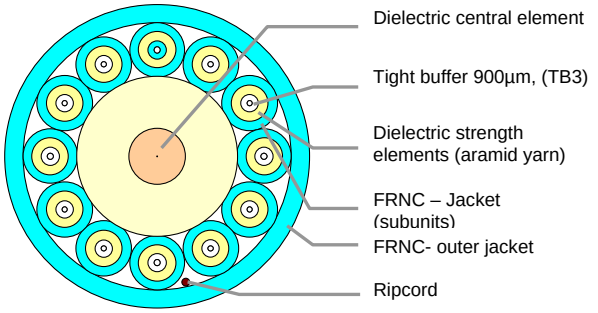
Product Family: **LANscape® Multifibre indoor cable**

Product: **Breakout cable with 2.0mm or 2.8mm Subunits T-VHH 2-24 … TB3**

Fibre: **All fibre types**

Description and applications

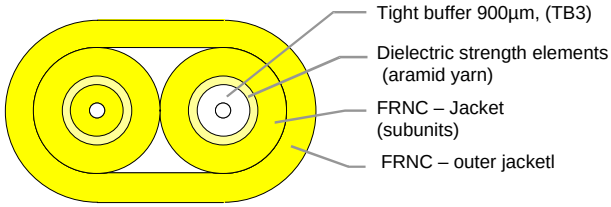
Breakout cables can be employed indoor for jumper cabling and for the cabling between floor distributors and terminal equipments / workstations (fiber-to-the-desk), as well as for manufacturing of connector cables (Patchcords). The cables can be installed in dry conduits and ducts. Due to the tight buffered construction (TB3 = stripping length 10 cm) the connectorization on the field is made fast and easy without need of a fan-out.



Example: T-VHH 12G50L/125 OM4 or OM3

Kabel

- Low smoke (IEC 61034 and EN 50268) and zero halogen (LSZH)
- Non corrosive to IEC 60754-2 and EN 50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Completely dry design
- Metal-free cable, hence no ground loop problems.
- 2.0 mm or 2.8 mm subunits
- 900µm-tight buffers allow easy and direct field connectorization
- RoHS compliant



Example: T-VHH 2E9/125 OS2

Design

Fibres and tight buffers colour coding

- Tight buffer 1st fibre: aqua (OM4 and OM3); green (OM2); blue (OM1); yellow (OS2)
- Tight buffers all others: white
- Fibres: natural

Subunits

- Tight buffered fibre, 900µm (TB3)
- Dielectric strength elements (aramid yarn)
- LSZH FRNC jacket; nominal thickness: 0.6 mm for 2.8 mm subunits; 0.35 mm for 2.0 mm subunits
- Jacket colour: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Subunit marking: sequential number

Cable

- Subunit 2.0 mm or 2.8 mm stranded on 1 layer up to 12 fibres
  stranded on 2 layers for 24 fibres (only 2.0mm subunits): 9 inner / 15 outer
- Ripcord
- LSZH FRNC jacket; nominal thickness: 0.5 mm for 2 subunits flat cables; 0.8 mm for all others
- Jacket colour: aqua (OM4, OM3), orange (OM2,OM1), yellow (OS2)

- Cable marking:

Meter - ∩ - ∿∿ - CORNING - Year - Cable type[1)] + Fibre count[2)] + Fibre type[3)]

See page 2

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -20 to +60 -25 to +70		
Cable type[1)]	**Fibre count**[2)]	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
2.0mm Subunit								
T-VHH	2	3.0 x 5.0	17	55*	40*	300	1000	0.34
T-VHH	4	6.7	41	115	100	600	1500	0.75
T-VHH	6	7.8	58	135	115	1200	1500	0.99
T-VHH	8	9.1	79	160	135	1200	1500	1.48
T-VHH	12	11.6	135	200	175	2000	1500	2.48
T-VHH	24	13.9	170	240	210	2000	1500	3.21
2.8mm Subunit								
T-VHH	2	3.9 x 6.8	28	60*	40*	400	1000	0.53
T-VHH	4	8.5	62	150	130	1000	1500	1.14
T-VHH	6	10.3	94	180	155	1600	1500	1.77
T-VHH	8	12.1	133	210	180	2000	1500	2.49
T-VHH	12	15.8	240	275	235	2700	1500	4.43

*****Minimum bend radii for 2 fibres breakout cables are defined for the flat side

Colour coding of tight-buffers coatings, jackets colours and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics.

Optical characteristics (values cabled)

Fibre type[3)]	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**A**	**G**	**H**	**K**	**U**

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Ordering information for standard design cables:

	1	2	3		4	5
L C X L I 2 -	□	**3**	□□□	**-**	□ **7**	□□

Use the following options to construct the catalogue number:

1 Fibre core

M = 62.5 µm (OM1)
L = 50 µm (OM2, OM3, OM4)
D = 9 µm (OS2)

2 Cable type

3 = Breakout

3 Fibre count

002 = 2 fibres
004 = 4 fibres
006 = 6 fibres
008 = 8 fibres
012 = 12 fibres
024* = 24 fibres
*only with 2.0mm subunits

4 Fibre category

A = OM1 Pretium
G = ClearCurve OM2 Pretium 150
H = ClearCurve OM3 Pretium 300
K = ClearCurve OM4 Pretium 550
U = Singlemode, OS2 SMF-28e+

5 Subunit diameter

20 = 2.8mm
50 = 2.0mm

Examples:

Catalogue number: LCXLI2-L3004-H750
Breakout cable indoor
T-VHH 4G50CC OM3/125 TB3 TQ = Pretium 300 ULTRA-BEND Fibre, TB3 900µm tight buffer, subunits: 2.0mm; jackets colours: aqua

Catalogue number: LCXLI2-D3012-U720
Breakout cable indoor
T-VHH 12E9/125 TB3 YE = SMF28e+ (OS2) Fibre**,** TB3 900µm tight buffer, subunits: 2.0mm; jackets colours: yellow

Max. delivery length per drum (all fibre types): 2000 m
Standard tolerances: -2/+3%

For non-standard design cables ordering information please contact our Customer Service Centre (see footnote)

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3 Fibre Termination

3.1. UniCam

3.1.1. UniCam Pretium

3.1.2. UniCam Standard

3.1.3. UniCam 250 µm

3.1.4. UniCam SC-APC

3.1.5. UniCam MTP

3.1.6. UniCam Tool Kit

3.2. Anaerobic

3.2.1. Anaerobic Connectors

3.2.2. Anaerobic Tool Kit

3.3. Furcation Kit

3.3.1. Buffer Tube Fan Out

3.3.2. Ribbon

3.3.3. Spider Fan Out

3.4. Camsplice

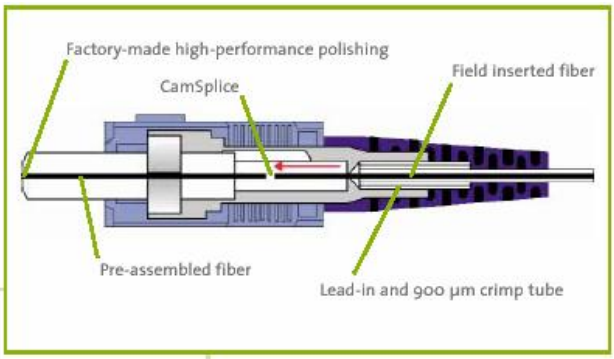
Product Family: **LANscape® Field Installable Connectors**

Product: **UniCam® Pretium ST, SC and LC Connectors**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e+™ OS2**

Description

The UniCam® Pretium Connector is the ideal solution for all your field-installable fibre optic connector requirements. The quick installation reduces the total installed cost of connectorization, making the UniCam Connector cost-effective for all fibre applications, from the main cross-connect to the workstation. The UniCam Connector can best be described as a mini pigtail. It incorporates a factory-installed fibre stub that is fully bonded in the ferrule. The other end is precisely cleaved and placed into the patented alignment mechanism of a mechanical splice. Both the field fibre and fibre stub are fully protected from environmental factors. Unlike other no epoxy, field-installable connectors, the UniCam Connector requires no polishing.
The unique features of the Unicam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual feedback system during field installation.



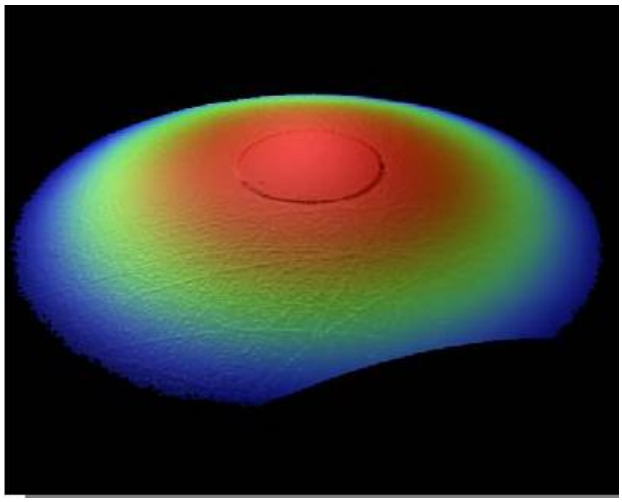
UniCam principle

Applications

All field-installable UniCam® Pretium connector versions provide a high-quality alternative to epoxy and polish connectors. They provide simple, quick and reliable connector installation on site. Fibre stubs are pre-installed in the ferrules of the UniCam connectors at the factory, thus eliminating the critical epoxy and polish operations in the field. This approach also allows the necessary high quality, controlled end face processing to be performed as part of the production process in the factory, thus reducing field technician influence to a minimum. On site, the stripped and cleaved field fibres are inserted into the UniCam connectors and retained. A mechanical splice inside the connector establishes the low-loss connection between the field fibre and the preinstalled fibre inside the connector.

Features / Benefits

- Fastest termination time in the industry: less than 1 min with single fibre connector
- Continuity- Test-Set gives immediate go/no go feedback of successful termination



3-D view from polished end face of a Unicam connector

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Characteristics

Connector type	ST/PC	SC/PC	LC/PC
Ferrule	Ceramic	Ceramic	Ceramic
Connector body	Composite	Composite	Composite
Insertion loss, typical (dB) MM	0.10	0.10	0.10
Insertion loss, max. (dB) MM	0.50	0.50	0.50
Reflectance Multimode typical (dB) MM PC OM1/OM2	≤ -20	≤ -20	≤ -20
Reflectance Multi Mode typical (dB) MM PC OM3	≤ -26	≤ -26	≤ -26
Insertion loss, typical (dB) SM	0.20	0.20	0.20
Insertion loss, max. (dB) SM	0.50	0.50	0.50
Reflectance Single-Mode typical (dB) MM UPC	≤ -55**	≤ -55**	≤ -55**
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles		
Max. Tensil load Connector	44N on 2.0mm and 2.8mm Legs / Cable		
Max. Tensil load Connector	4N on 900µm Legs / Tight Buffer		
Temperatur in operation	-40°C to 75°C		
Temperature cycling to FOTP-3	IL ≤ 0.3 dB, -40 – +75 °C, 21 cycles		

* The insertion loss values is only for using Unicam Pretium Tool Kit. When using the standard Tool Kit the values are 0,3dB typical and 0.75 maximum.

** Please Note: The reflectance values are for 18° to 26° C

Connectors according to standard

SC	TIA/EIA 604-3 / IEC 61754-4
ST compatible	TIA/EIA 604-2 / IEC 61754-2
LC	TIA/EIA 604-10A / IEC 61754-20

Connector Identification according to EIA/TIA-568-C.3 Draft 2006

Colour code:	Housing	Boot
OM3 (50µm)	Black	Aqua
OM2 (50µm)	Black	Black
OM1 (G62,5µm)	Beige	Black
OS1/OS2 (E9) UPC	Blue	Blue

Contents Single pack

Connector type	Connector	Crimp ring	Boot 900µm	Boot 2.0mm	Boot 2.8mm
SC	X	X	X		X
ST compatible	X	X	X		X
LC	X	X	X	X	X

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Optical Characteristics of fibres:

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® SX+ OM3
Laser bandwidth at 850 nm: 2000 MHz·km
Fibre core diameter: 50.0 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAC-A, IEC 60793-2-10 Type A1a.2, ISO/IEC 11801 OM3.
Fibre tested using minEMBc method, according to TIA/EIA 455-220, IEC 60793-2-10 Ed 2.0 and IEC 60793-1-49 Ed 2.0.

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® 600 OM2
Laser bandwidth at 850 nm: 585 MHz·km
Fibre core diameter: 50.0 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAB; IEC 60793-2-10 Type A1a.1; ISO/IEC 11801 OM2.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised multi-mode fibre 62.5/125 µm, InfiniCor® 300 OM1
Laser bandwidth at 850 nm: 220 MHz·km
Fibre core diameter: 62.5 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAA; IEC 60793-2-10 Type A1b.1; ISO/IEC 11801 OM1.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised single-mode fibre 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter at 1310: 9.2 ± 0.4 µm
Mode-Field diameter at 1550: 10.4 ± 0.5 µm
Fibre meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS2, Telcordia GR20.

Order information

SC

Ordering number	Description **SC** Connectors	Fibre type
95-000-41	Unicam SC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-41	Unicam SC-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-41-X	Unicam SC-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-42	Unicam SC/UPC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

ST

Ordering number	Description **ST** Connectors	Fibre type
95-000-51	Unicam ST-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-51	Unicam ST-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-51-X	Unicam ST-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-52	Unicam ST/UPC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

LC

Ordering number	Description **LC** Connectors	Fibre type
95-000-99	Unicam LC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-99	Unicam LC-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-99-X	Unicam LC-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-99	Unicam LC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

Minimum Order Quantity in multiples of 25 pce

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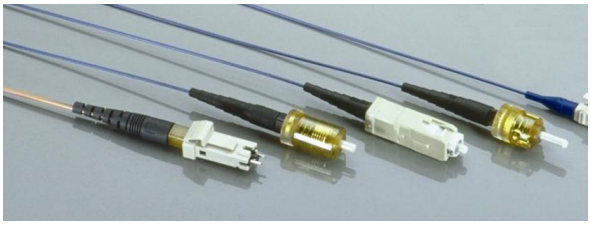
Product Family: **LANscape® Field Installable Connectors**

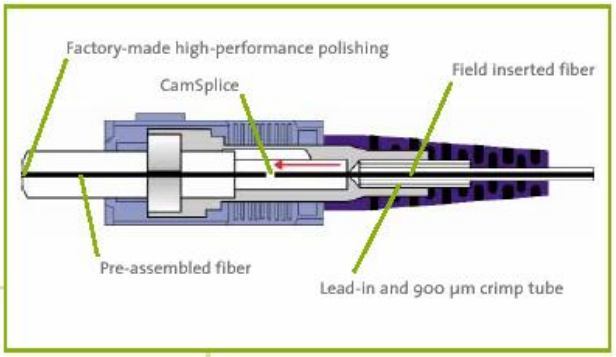
Product: **UniCam® Classic ST, SC, FC & MT-RJ Connectors**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e+™ OS2**

Description

The UniCam® Standard Connectors are the ideal solution for all your field-installable fibre optic connector requirements. The quick installation reduces the total installed cost of connectorization, making the UniCam Connector cost-effective for all fibre applications, from the main cross-connect to the workstation. The UniCam Connector can best be described as a mini pigtail. It incorporates a factory-installed fibre stub that is fully bonded in the ferrule. The other end is precisely cleaved and placed into the patented alignment mechanism of a mechanical splice. Both the field fibre and fibre stub are fully protected from environmental factors. Unlike other no epoxy, field-installable connectors, the UniCam Connector requires no polishing.
The unique features of the Unicam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual feedback system during field installation.

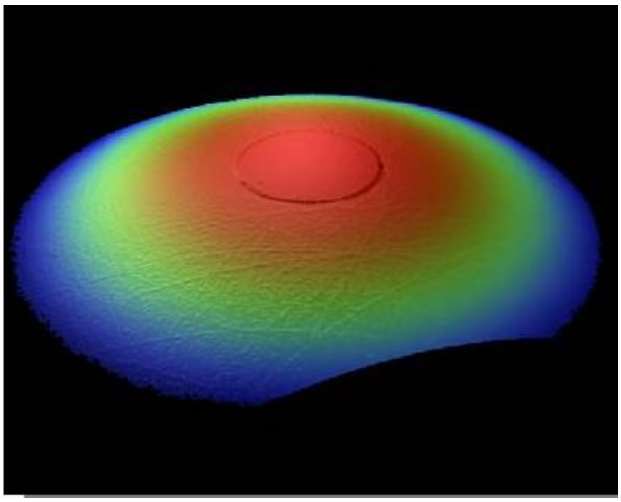




UniCam principle

Applications

The field-installable UniCam® connector versions provide a high-quality alternative to epoxy and polish connectors. They provide simple, quick and reliable connector installation on site. Fibre stubs are pre-installed in the ferrules of the UniCam connectors at the factory, thus eliminating the critical epoxy and polish operations in the field. This approach also allows the necessary high quality, controlled end face processing to be performed as part of the production process in the factory, thus reducing field technician influence to a minimum. On site, the stripped and cleaved field fibres are inserted into the UniCam connectors and retained. A mechanical splice inside the connector establishes the low-loss connection between the field fibre and the preinstalled fibre inside the connector.



3-D view from polished endface of a Unicam connector

Features / Benefits

- Fastest termination time in the industry: less than 1 min with single fibre connector
- Fastest termination time in the industry: less than 3 min with MTRJ connector
- Continuity- Test-Set gives immediate go/no go feedback of successful termination
- Minimal tool kit, reduced setup time; universal assembly tool terminates all single- and 2-fiber UniCam Connector styles

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Characteristics

Connector type	ST/PC	SC/PC	FC/PC	MTRJ
Connector body	Composite	Composite	Composite	Composite
Ferrule **multimode**	Composite	Composite	Ceramic	Composite
Insertion loss, typical (dB) MM	0.30	0.30	0.30	0.30
Insertion loss, max. (dB) MM	0.75	0.75	0.75	0.75
Reflectance Multimode typical (dB) MM PC OM1/OM2	≤ -20	≤ -20	≤ -20	≤ -20
Reflectance Multi Mode typical (dB) MM PC OM3	-	-	-	≤ -20
Ferrule **singlemode**	Ceramic	Ceramic	Ceramic	Composite
Insertion loss, typical (dB) SM	0.20*	0.20*	0.30	-
Insertion loss, max. (dB) SM	0.50*	0.50*	0.75	-
Reflectance Single-Mode typical (dB) MM UPC	-	-	≤ -55**	-
Reflectance Single-Mode typical (dB) MM SPC	≤ -40**	≤ -40**	≤ -40**	-
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles			
Max. Tensil load Connector	44N on 2.0mm and 2.8mm Legs / Cable			
Max. Tensil load Connector	4N on 900µm Legs / Tight Buffer			
Temperatur in operation	0°C to 60°C			
Temperature cycling to FOTP-3	IL ≤ 0.3 dB, -40 – +75 °C, 21 cycles			

* The insertion loss values is only for using Unicam Pretium Tool Kit. When using the standard Tool Kit the values are 0,3dB typical and 0.75 maximum.

** Please Note: The reflectance values are for 18° to 26° C

Connectors according to standard

SC	TAI/EIA 604-3 / IEC 61754-4
ST compatible	TAI/EIA 604-2 / IEC 61754-2
FC	TAI/EIA 604-4 / IEC 61754-13
MT-RJ	TAI/EIA 604-12 / IEC 61754-18

Connector Identification according to EIA/TIA-568-C.3 Draft 2006

Colour code:	Housing	Boot
OM3 (50µm)	Black	Aqua
OM2 (50µm)	Black	Black
OS2 (E9)	Blue	Blue
OS1/OS2 (E9) SPC	Blue	White

Contents Single pack

Connector type	Connector	Crimp ring	Boot 900µm	Boot 2.0mm	Boot 2.8mm
SC	**X**	**X**	**X**		**X**
ST compatible	**X**	**X**	**X**		**X**
FC	**X**	**X**	**X**		**X**
MT-RJ	**X**	**X**			**X**

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Optical Characteristics of fibres:

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® SX+ OM3
Laser bandwidth at 850 nm: 2000 MHz·km
Fibre core diameter: 50.0 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAC-A, IEC 60793-2-10 Type A1a.2, ISO/IEC 11801 OM3.
Fibre tested using minEMBc method, according to TIA/EIA 455-220, IEC 60793-2-10 Ed 2.0 and IEC 60793-1-49 Ed 2.0.

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® 600 OM2
Laser bandwidth at 850 nm: 585 MHz·km
Fibre core diameter: 50.0 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAB; IEC 60793-2-10 Type A1a.1; ISO/IEC 11801 OM2.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised multi-mode fibre 62.5/125 µm, InfiniCor® 300 OM1
Laser bandwidth at 850 nm: 220 MHz·km
Fibre core diameter: 62.5 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAA; IEC 60793-2-10 Type A1b.1; ISO/IEC 11801 OM1.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised single-mode fibre 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter at 1310: 9.2 ± 0.4 µm
Mode-Field diameter at 1550: 10.4 ± 0.5 µm
Fibre meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS2, Telcordia GR20.

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Order Information

SC

Ordering number	Description **SC** Connectors	Fibre type
95-000-40	Unicam SC-Connector with composite ferrule, Multimode 62,5µm	OM1
95-050-40	Unicam SC-Connector with composite ferrule, Multimode 50µm	OM2
95-200-41	Unicam SC/SPC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

ST

Ordering number	Description **ST** Connectors	Fibre type
95-000-50	Unicam ST-Connector with composite ferrule, Multimode 62,5µm	OM1
95-050-50	Unicam ST-Connector with composite ferrule, Multimode 50µm	OM2
95-200-51	Unicam ST/SPC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

FC

Ordering number	Description **FC** Connectors	Fibre type
95-000-61	Unicam FC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-200-61	Unicam FC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2
95-200-62	Unicam FC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

***Please Note: This Connector may not be used with Unicam Pretium Tool Kit**

MT-RJ with Pins

Ordering number	Description **MT-RJ** Connectors with pins	Fibre type
92-001-97-P-E	Unicam MT-RJ Connector with pins Composite ferrule, Multimode 62,5µm	OM1
92-051-97-P-E	Unicam MT-RJ Connector with pins Composite ferrule, Multimode 50µm	OM2
92-051-97-P-E-X	Unicam MT-RJ Connector with pins Composite ferrule, Multimode 50µm	OM3

***Please Note: This Connector may not be used with Unicam Pretium Tool Kit**

MT-RJ without Pins

Ordering number	Description **MT-RJ** Connectors without pins	Fibre type
92-001-97-NP-E	Unicam MT-RJ Connector without pins Composite ferrule, Multimode 62,5µm	OM1
92-051-97-NP-E	Unicam MT-RJ Connector without pins Composite ferrule, Multimode 50µm	OM2
92-051-97-NP-E-X	Unicam MT-RJ Connector without pins Composite ferrule, Multimode 50µm	OM3

***Please Note: This Connector may not be used with Unicam Pretium Tool Kit**

Minimum Order Quantity in multiples of 25 pce

Corning Cable Systems GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, Germany
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Product Family: **LANscape® Field Installable Connectors**

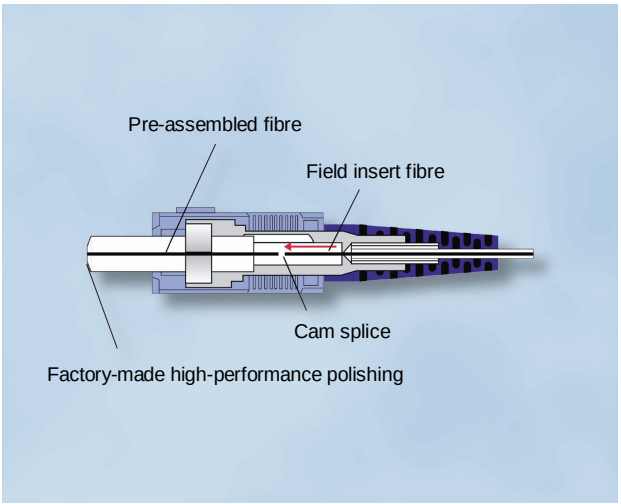
Product: **UniCam® 250µm Pretium™ SC and LC connectors**

Fibre: **InfiniCor® OM3, InfiniCor® OM2, InfiniCor® OM1, SMF-28+™ OS2**

Description

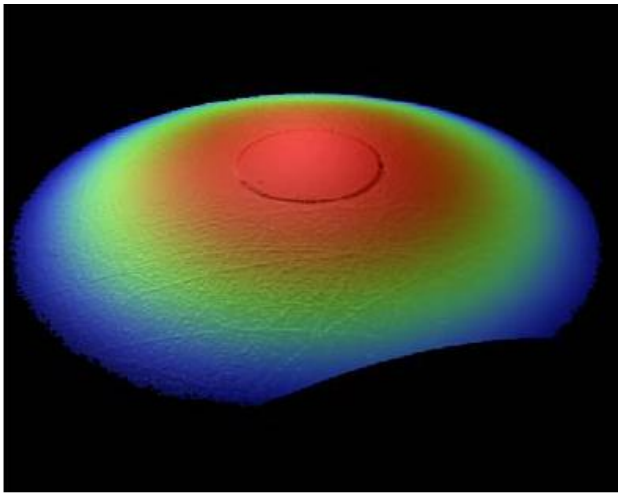
The UniCam® 250µm connector is the ideal solution for field-installable fibre optic connector requirements on 250µm bare fibres. The quick installation reduces the total installed cost of connectorization, making the UniCam connector cost-effective for all fibre applications, from the main cross-connect to the workstation. The UniCam connector can best be described as a mini pigtail. It incorporates a factory-installed fibre stub that is fully bonded in the ferrule. The other end is precisely cleaved and placed into the patented alignment mechanism of a mechanical splice. Both the field fibre and fibre stub are fully protected from environmental factors. Unlike other no-epoxy, field-installable connectors requires the UniCam connector no polishing.

The unique features of the Unicam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual go/no go feedback system during field installation.



Applications

The field-installable UniCam® 250µm connector versions provide a high-quality, quick and reliable connector installation on site. The direct termination on loose- or central tube cables with standard 250µm fibres do not require additional accessories. The high quality end face, controlled during the production process in the factory, reduces field technician influence to a minimum. On site, the stripped and cleaved field fibres are inserted into the UniCam connectors and retained. A mechanical splice inside the connector establishes the low-loss connection between the field fibre and the preinstalled fibre inside the connector.



3-D view from polished endface of a Unicam connector

Features / Benefits

- Fastest termination time in the industry: Less than 1 min with single fibre possible
- Pretium Tool Kit gives immediate go/no go feedback of successful termination
- Minimal Unicam Pretium Tool Kit allows reduced setup time; universal assembly tool terminates all LC and SC UniCam Connector directly on 250µm bare fibres
- Dimensions for fibre preparation are printed on the connector kit package

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Characteristics

Connector type	SC	LC
Ferrule	Ceramic	Ceramic
Connector body	Composite	Composite
Insertion loss*, typical (dB) MM	0.1*	0.1*
Insertion loss*, maximum (dB) MM	0.5*	0.5*
Reflectance**Multimode typical (dB) MM/PC OM1/OM2	≤ -20	≤ -20
Reflectance** Multi Mode typical (dB) MM/PC OM3	≤ -26	≤ -26
Insertion loss*, typical (dB) SM*	0.2	0.2
Insertion loss*, maximum (dB) SM*	0.5	0.5
Reflectance**Single-Mode typical (dB) SM/UPC OS2	≤ -55**	≤ -55**
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles	
Max. Tensil load Connector	2N on 250µm Bare fibre with ≤ 0.2 change	
Temperatur in operation	-40°C to 75°C	
Temperature cycling to FOTP-3	IL ≤ 0.3 dB, -40 – +75 °C, 21 cycles	

* The insertion loss values is only for using Unicam Pretium Tool Kit. When using the standard Tool Kit the values are 0,3dB typical and 0.75 maximum.

** Please Note: The reflectance values are for 18° to 26° C

Connectors according to standard

SC	TAI/EIA 604-3 / IEC 61754-4
LC	TAI/EIA 604-10A / IEC 61754-20

Connector Identification according to EIA/TIA-568-C.3 Draft 2006

Colour code:	Housing	Boot
OM3 (50µm)	Black	Aqua
OM2 (50µm)	Black	Black
OM1 (62.5µm)	Beige	Beige
OS2 (E9) UPC	Blue	Blue

Contents Single pack

Connector type	Connector / Housing / Dust cab	Tube	Boot 900µm
SC	**X**	**X**	**X**
LC	**X**	**X**	**X**

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Optical Characteristics of fibres:

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® OM3
Laser bandwidth at 850 nm: 2000 MHz·km
Fibre core diameter: 50.0 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAC-A, IEC 60793-2-10 Type A1a.2, ISO/IEC 11801 OM3.
Fibre tested using minEMBc method, according to TIA/EIA 455-220, IEC 60793-2-10 Ed 2.0 and IEC 60793-1-49 Ed 2.0.

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® OM2
Laser bandwidth at 850 nm: 585 MHz·km
Fibre core diameter: 50.0 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAB; IEC 60793-2-10 Type A1a.1; ISO/IEC 11801 OM2.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised multi-mode fibre 62.5/125 µm, InfiniCor® OM1
Laser bandwidth at 850 nm: 220 MHz·km
Fibre core diameter: 62.5 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAA; IEC 60793-2-10 Type A1b.1; ISO/IEC 11801 OM1.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised single-mode fibre 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter at 1310: 9.2 ± 0.4 µm
Mode-Field diameter at 1550: 10.4 ± 0.5 µm
Fibre meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS2, Telcordia GR20.

Order information

SC Pretium™

Ordering number	Description **SC** Connectors	Fibre type
95-000-41P	Unicam SC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-41P	Unicam SC-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-41P-X	Unicam SC-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-42P	Unicam SC/UPC-Connector with Ceramic ferrule, Single-mode 9µm	OS2

LC Pretium™

Ordering number	Description **LC** Connectors	Fibre type
95-000-99P	Unicam LC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-99P	Unicam LC-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-99P-X	Unicam LC-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-99P	Unicam LC/UPC-Connector with Ceramic ferrule, Single-mode 9µm	OS2

Minimum Order Quantity in multiples of 25 pce

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Product Family: **LANscape® Field Installable Connectors**

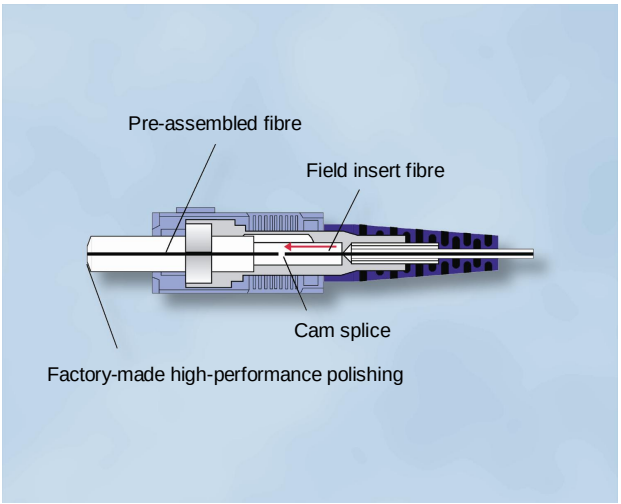
Product: **UniCam® Pretium SC - APC connectors (Pretium Tool Compliant)**

Fibre: **SMF-28+™ OS2**

Description

The field-installable UniCam® APC connector is the ideal solution to minimize back reflectance from laser sources, a critical requirement for applications such as analogue video. UniCam APC Connectors, with their 8º angled end-face and factory polish, dramatically reduce reflectance. The quick installation reduces the total installed cost of connectorization, making the UniCam connector cost-effective for all fibre applications, from the main cross-connect to the workstation. The UniCam connector can best be described as a mini pigtail. It incorporates a factory-installed fibre stub that is fully bonded in the ferrule. The other end is precisely cleaved and placed into the patented alignment mechanism of a mechanical splice. Both the field fibre and fibre stub are fully protected from environmental factors. Unlike other no-epoxy, field-installable connectors requires the UniCam connector no polishing.

The unique features of the UniCam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual go/no go feedback system during field installation.



Applications

The field-installable UniCam® APC connector versions provide a high-quality, quick and reliable connector installation on site. The direct termination on tight buffer, loose- or central tube cables do not require any additional accessories. The high quality end face, controlled during the production process in the factory, reduces field technician influence to a minimum. On site, the stripped and cleaved field fibres are inserted into the UniCam connectors and retained. A mechanical splice inside the connector establishes the low-loss connection between the field fibre and the preinstalled fibre inside the connector.

Features / Benefits

- Fastest termination time in the industry:
  Less than 1 min with single fibre possible
- Pretium Tool Kit gives immediate go/no go feedback of successful termination
- Minimal UniCam Pretium Tool Kit allows reduced setup time; universal assembly tool terminates all SC UniCam Connector directly on 250µm bare fibres or tight buffer
- Dimensions for fibre preparation are printed on the connector kit package

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Characteristics

Connector type	SC/APC
Ferrule	Ceramic
Connector body	Composite
Insertion loss, typical (dB) at 18 - 26°	0.40
Insertion loss, maximum (dB) at 0° - 60°	0.75
Reflectance typical (dB) at 18 - 26°	-60
Reflectance maximum (dB) at 0° - 60°	-40
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles
Max. Tensile load Connector ≤ 0.2 change	2N on 250µm Bare fibre, 4N on 900um, 44N on cable
Temperature in operation	0°C to 60°C , meets TIA/EIA 568-B.3

*Please Note: This values are only valid when utilizing the FBC-015 cleaver (blue). Cleaving values: **≤**1° +/- 1°

Connectors according to standard

SC	TAI/EIA 604-3 / IEC 61754-4

Connector Identification according to EIA/TIA-568-C.3 Draft 2006

Colour code:	Housing	Boot
OS2 (E9) APC	Green	Green

Contents Single pack

Connector type	Connector / Housing / Dust cab	Tube	Boot 900µm	Boot 2.0mm	Boot 2.9mm
SC/APC	**X**		**X**		**X**
SC/APC 250	**X**	**X**	**X**		

Optical Characteristics of fibres:

Laser optimised single-mode fibre 9/125 µm, SMF 28+™ OS2
Mode-Field diameter at 1310: 9.2 ± 0.4 µm
Mode-Field diameter at 1550: 10.4 ± 0.5 µm
Fibre meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS2, Telcordia GR20.

Order information

SC Pretium™

Ordering number	Description **SC** Connectors	Fibre type
95-200-44	UniCam SC/APC-Connector with Ceramic ferrule, single pack	OS2
95-200-44-Z	UniCam SC/APC-Connector with Ceramic ferrule, organizer pack	OS2
95-200-44P	UniCam SC/APC-250µm Connector with Ceramic ferrule, single pack	OS2
95-200-44P-Z	UniCam SC/APC-250µm Connector with Ceramic ferrule, organizer pack	OS2

Minimum Order Quantity in multiples of 25 pce

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CORNING

RoHS COMPLIANT

Product Family: **LANscape® Field Installable Connectors**

Product: **UniCam® MTP connectors**

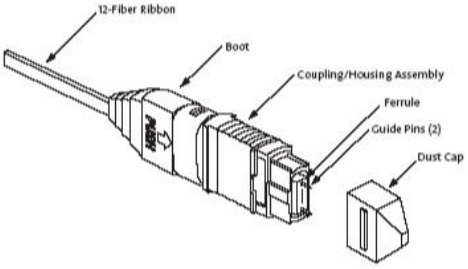
Fibre: **InfiniCor® OM3, InfiniCor® OM2, InfiniCor® OM1, SMF-28+e™ OS2**

Description

The Corning Cable Systems UniCam® MTP® Connector is the latest innovation in the proven UniCam Connector family. It is the first no epoxy / no-polish, field-installable 12-fibre connector in the industry. It is the ideal solution for applications using 12-fibre ribbons. The UniCam MTP Connector utilizes the same reliable, proven no-epoxy/no polish technology as all other Corning Cable Systems UniCam Connectors. The UniCam MTP Connector installs with the same push-pull reliability as the familiar SC connector.

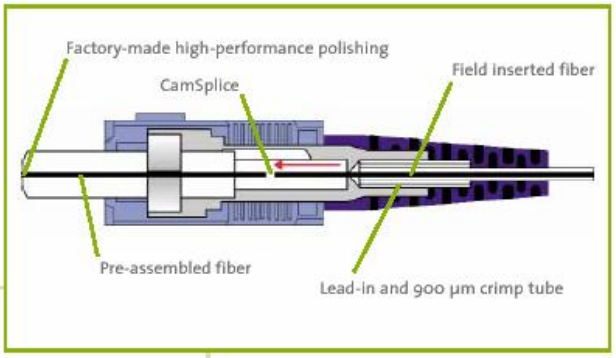
Application

The field-installable UniCam MTP connector versions provide simple, quick and reliable connector installation on site. Fibre stubs are pre-installed in the ferrules of the UniCam connectors at the factory, thus eliminating the critical epoxy and polish operations in the field. On site, the stripped and cleaved field fibres are inserted into the UniCam MTP connectors and retained. A mechanical splice inside the connector establishes the low-loss connection between the field fibre and the preinstalled fibre inside the connector. The UniCam MTP connector is installable on bare ribbon or ribbon interconnect cables.



Features / Benefits

- Repair of Plug & Play™ Systems trunk cables
- Terminates jacketed or bare 12-fiber ribbons in less than five minutes
- Alignment achieved with precision guide pins
- IEEE-802.3, Fibre Channel and ANSI/TIA/EIA-568 B.3 compliant



UniCam principle

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Characteristics

Parameter:	Multimode & Single-Mode	
Standard	TAI/EIA 604-5	
Insertion loss, typical (dB	≤ 0.5 dB typ.	≤ 1.0 dB max.
Reflectance Multi Mode typical (dB) MM PC OM3	≤ -20dB for Ultra PC	
Reflectance Single-Mode typical (dB) MM PC OS2	≤ -55dB for Ultra APC	
Cycling to FOTP-21	≤ 0.2 dB, 200 cycles	
Max. Tensil load Connector	≤10N Ribbon Inter connect	
Temperature cycling to FOTP-3	IL ≤ 0.3 dB, -40 – +75 °C, 21 cycles	

* Please Note: The reflectance values are for 18° to 28°

Optical Characteristics of fibres:

Laser optimised multimode fibre 50/125 µm, InfiniCor® OM3
Laser bandwidth at 850 nm: 2000 MHz·km
Fibre core diameter: 50.0 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAC-A, IEC 60793-2-10 Type A1a.2, ISO/IEC 11801 OM3.
Fibre tested using minEMBc method, according to TIA/EIA 455-220, IEC 60793-2-10 Ed 2.0 and IEC 60793-1-49 Ed 2.0.

Laser optimised multimode fibre 50/125 µm, InfiniCor® OM2
Laser bandwidth at 850 nm: 585 MHz·km
Fibre core diameter: 50.0 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAB; IEC 60793-2-10 Type A1a.1; ISO/IEC 11801 OM2.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised multimode fibre 62.5/125 µm, InfiniCor® OM1
Laser bandwidth at 850 nm: 220 MHz·km
Fibre core diameter: 62.5 ± 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAA; IEC 60793-2-10 Type A1b.1; ISO/IEC 11801 OM1.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised single-mode fibre 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter at 1310: 9.2 ± 0.4 µm
Mode-Field diameter at 1550: 10.4 ± 0.5 µm
Fibre meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS2, Telcordia GR20.

Order information

Ordering number	Fibre type	Ferrule	Housing	Colour housing	Colour boot
93-001-69	62.5µ/OM1	Composite without pins	Composite	Beige	Beige
93-051-69	50µ/OM2	Composite without pins	Composite	Black	Black
93-051-69-X	50µ/OM3	Composite without pins	Composite	Black	Aqua
93-201-69	9µ/OS2	Composite without pins	Composite	Black/Green	Green
93-001-70	62.5µ/OM1	Composite with pins	Composite	Beige	Beige
93-051-70	50µ/OM2	Composite with pins	Composite	Black	Black
93-051-70-X	50µ/OM3	Composite with pins	Composite	Black	Aqua
93-201-70	9µ/OS2	Composite with pins	Composite	Black/Green	Green

Quantity per delivery unit: 1/1

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Product Family: **LANscape® Field Installable Connectors Tool-Kits**

Product: **UniCam® Single Fibre Connectors Tool-Kits**

Fibre: **OM3 Pretium™ 300, OM2 Pretium™ 150, InfiniCor® 300 OM1, SMF-28e™ OS1/OS2**

Applications

The Corning Cable Systems' UniCam® tool-kits are intended for the installation of all Corning Cable Systems' UniCam® connectors.
Tool kits with different equipment are available also for installation of a special group of connectors.

Description

Corning Cable Systems' tool kits for field installable connectors provide with a collection of essential tools required for tasks associated with the termination of fibre optic cable. The tools are thoughtfully assembled and are stored in compact and easy to carry cases that are lined with a foam-padding material in order to protect the high-quality tools.

The TKT-UNICAM-PFC includes a lightweight, handheld installation tool with an immediate go/no-go feedback signal, providing unmistakable confirmation of a successful termination. The kit's high-performance cleaver has an integrated fibre scrap bin and a dual-clamp precision hold for the field fibre, with a diamond blade to achieve a superior cleave. The UniCam Pretium Tool Kit can be used with multimode or singlemode LC, SC and ST® Compatible UniCam Connectors (standard and Pretium-performance), and is required to achieve Pretium-Performance specifications for UniCam Pretium-Performance singlemode Connectors.

The classic UniCam Connector Installation Tool Kit (TKT-UNICAM) is a basic installation tool kit and can be used to terminate all single- UniCam Connector styles (SC, LC and ST compatible). UniCam Multimode Connectors (SC, LC and ST compatible) can achieve high-performance with the use of this tool.

The UniCam Connector Installation Tool Kit with Continuity Test Set (TKT-UNICAM-CTS) provides a visual feedback feature when terminating UniCam SC, LC or ST Compatible Connectors. Useful for reducing scrap rates or for training new installers, the TKT-UNICAM-CTS-SF is very popular, since the installer can watch for the red glow in the back of the connector to dim or disappear. This indicates that the field fibre is inserted properly in the connector.

UniCam® Pretium Tool Kit

UniCam® CTS-SF Tool Kit

UniCam® Basic Tool Kit

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Features / Benefits UniCam® Pretium™ Tool Kit (TKT-UNICAM-PFC)

- Virtually eliminates human variability in installation, ensuring consistent, reliable results
- UniCam Pretium Installation Tool uses a go/no go LED to provide unmistakable confirmation of a successful termination
- Pretium Cleaver uses dual-clamp precision and a diamond blade for a superior cleave
- About 60 seconds per connector to install
- Sleek, well-organized carrying case with built-in conveniences for easy, on-the-go field terminations.
- Tool kit designed to allow work out of the bag, eliminating set-up and tear-down time
- One kit terminates both singlemode and multimode LC, SC and ST® Compatible Connectors

UniCam Pretium Handheld Tool Kit

Standard UniCam SF Connector Installation Tool Kit with Continuity Test Set (TKT-UNICAM-CTS-SF)

- Convenient carrying bag contains all of the components necessary to terminate UniCam Connectors
- Installs SC, LC and ST compatible connectors in less than two minutes
- One kit terminates singlemode and multimode UniCam
- Connectors CTS option reduces scrap rate and helps train new installers

Pretium Cleaver

Standard UniCam Connector Installation Tool Kit (TKT-UNICAM)

- Convenient carrying bag contains all of the components necessary to terminate UniCam Connectors
- Installs SC, LC and ST compatible connectors in less than two minutes
- One kit terminates singlemode and multimode UniCam

Elite Installation

Cleaver
1-2 Fibers
FBC-001

Standard Score and Snap Cleaver

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Tool kits contents

Item	Item code	PFC	CTS-SF	Basic
Pretium UniCam® installation tool with integrated CTS	TL-UCP	1 pce	-	-
UniCam Standard Installation Tool	TL-UC01	-	1 pce	1 pce
UniCam® CTS-SF complete	TEST-UNICAM-CTS-SF	-	1 Set	-
VFL	VFL-350		1 pce	-
SC and ST® Compatible 2.5 mm	VFL-A250	1 pce	-	-
LC Compatible 1.25 mm	VFL-A125	1 pce	-	-
Pretium Flat Cleaver with Diamond Blade and Built-In Fibre Scrap Container	FBC-15	1 pce	-	-
Fibre cleaver, score & snap	FBC-001	-	1 pce	1 pce
Crimp tool, UniCam® aramide	3201007-01	1 pce	1 pce	1 pce
Stripper 6" wire Jensen tool	3206001-01	1 pce	1 pce	1 pce
"Dual-Hole" Miller Tool Fibre Stripper (for 900 µm and 250 µm fibre)	2104502-01	1 pce	1 pce	1 pce
Scissors 5" electrician	100294-01	1 pce	1 pce	1 pce
Tweezers	100312-01	-	1 pce	1 pce
Wipes alcohol	1508001-01	-	6 pce	6 pce
Retractable Permanent Marker	Not sold separately	1 pce	-	-
Standard Capped Permanent	Not sold separately	-	1 pce	1 pce
SC and ST Compatible 2.5 mm Ferrule Cleaning Sticks (10/pack)	2104255-01	1 Pack a 10pce	-	-
LC 1.25 mm Ferrule Cleaning Sticks (10/pack)	2104417-01	1 Pack a 10pce	-	-
Package of Corning Wipes (1Pak = 90sheets)	2104493-01	1 pce	-	-
Bottle of Corning Fibre Cleaning Fluid	FCC-Cleaner-Fiber	1 pce	-	-
Electrical Tape,black	2104282-01	-	1 pce	1 pce
UniCam Pretium Tool Bag with Integrated Waste Receptacle and Organized Foam Insert Interior	02-001860-001	1 pce	-	-
Standard UniCam Tool Bag	2104407-01	-	1 pce	1 pce

Ordering information:

Type Description	UniCam Pretium tool kit	UniCam CTS-SF tool kit	UniCam basic tool kit
Quantity/deliver unit	1/1	1/1	1/1
Ordering number	**TKT-UNICAM-PFC**	**TKT-UNICAM-CTS-SF**	**TKT-UNICAM**

Optional accessories:

Item	Item code	CTS	CTS-SF
CTS adapter for UniCam® SC connectors	TER-CTS-SC	3 pcs	3 pce
CTS adapter for UniCam® ST® compatible connectors	TER-CTS-ST	3 pcs	3 pcs
CTS adapter for UniCam® LC connectors	TER-CTS-LC	3 pcs	3 pcs
Jumper ST® compatible to SC SM simplex, 1m, FRNC	586101R3Z31001M	1 pce	1 pce
Jumper ST® compatible to LC SM simplex, 1m, FRNC	026101R2Z31001M	1 pce	1 pce

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Product Family: **LANscape® Field installable connectors**

Product: **ST® compatible, FC, SC and LC anaerobic-cure connectors**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Applications

The Corning Cable Systems' anaerobic-cure all ceramic ST® compatible, FC, SC and LC connectors are ideal for all applications requiring field installed connectors, like fibre-to-the-desk, fibre-to-the-machine and enterprise networks installations.

Description

The Corning Cable Systems' anaerobic-cure multimode and single-mode connectors combine the quick-cure convenience of anaerobic adhesive with the performances of epoxy and polish connectors.
The anaerobic adhesive uses a two-part epoxy-resin curing process. The adhesive is first injected into the connector's ferrule, the fibre is dipped into the primer and inserted into the ferrule, curing takes one minute without the use of UV lamps or ovens.
Anaerobic connectors can be completely assembled and polished in less than three minutes.

ST® compatible anaerobic-cure connector MM 50/125µm OM2

Features /Benefits

- Fast cure anaerobic adhesive: does not require electrical power supply.
- Minimal tools required.
- Hand polish: does not require polishing machine.
- Reduced installation time: < 3 minutes (assembled and polished)
- Typical insertion loss: 0.2 dB with physical contact polish.
- ST® compatible, FC, SC connectors delivered in single connector's bags including connector body with preassembled ferrule, boots for 900 µm fibres and 2-mm, 3-mm jacketed cables, crimp rings for 2-mm, 3-mm jacketed cables.
- LC connectors delivered in single connector's bags including connector body with preassembled ferrule, boots for 900 µm fibres and 2-mm, 3-mm jacketed cables, crimp rings for 1.6 – 2-mm, 3-mm jacketed cables.
- Available in 3 versions:
  MM OM3/OM2: pack includes 2 sets of boots (Aqua OM3, Black OM2 to EIA/TIA-568-C.3 Draft 2006)
  MM OM1: pack includes 1 set of boots (Beige to EIA/TIA-568-C.3 Draft 2006)
  SM: pack includes 1 set of boots (Blue to EIA/TIA-568-C.3 Draft 2006 for LC connectors)*
- ST® compatible to TIA/EIA 604-2, FC to TIA/EIA 604-4, SC to TIA/EIA 604-3 and LC to TIA/EIA 604-10

***** Boots for ST® compatible, FC and SC single-mode connectors are white.

Characteristics

Connector type	ST® comp./PC	FC/PC	SC/PC	LC/PC
Ferrule	Ceramic	Ceramic	Ceramic	Ceramic
Connector body	Metal	Metal	Composite	Composite
Insertion loss, typical PC (dB)	0.2			
Reflectance Multi Mode (dB)	≤ -26			
Reflectance SingleMode (dB)	≤ -40			
Temperature cycling to FOTP-3	ΔIL ≤ 0.3 dB, -40 – +75 °C, 21 cycles			

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Ordering information: Multimode connectors

ST® compatible

Ordering number	Description	Fibre type
95-051-52-SP	ST® compatible MM Anaerobic, metal housing, black + aqua boots	OM3/OM2
95-101-52-SP	ST® compatible MM Anaerobic, metal housing, beige boots	OM1

FC

Ordering number	Description	Fibre type
95-051-61-SP	FC MM Anaerobic, metal housing, black + aqua boots	OM3/OM2
95-101-61-SP	FC MM Anaerobic, metal housing, beige boots	OM1

SC

Ordering number	Description	Fibre type
95-051-41-SP	SC MM Anaerobic, black housing, black + aqua boots	OM3/OM2
95-101-41-SP	SC MM Anaerobic, beige housing, beige boots	OM1

LC

Ordering number	Description	Fibre type
95-051-98-SP	LC MM Anaerobic, black housing, black + aqua boots	OM3/OM2
95-101-98-SP	LC MM Anaerobic, beige housing, beige boots	OM1

Ordering information: Single-mode connectors

ST® compatible

Ordering number	Description	Fibre type
95-201-52-SP	ST® compatible SM Anaerobic, metal housing, white boots	OS2

FC

Ordering number	Description	Fibre type
95-201-61-SP	FC SM Anaerobic, metal housing, blue boots	OS2

SC

Ordering number	Description	Fibre type
95-201-41-SP	SC SM Anaerobic, blue housing, blue boots	OS2

LC

Ordering number	Description	Fibre type
95-201-98-SP	LC SM Anaerobic, blue housing, blue boots	OS2

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Product Family: **LANscape® field installable connectors tool-kits**

Product: **Anaerobic-cure connectors tool-kits**

Fibre: **All Fibre Types**

Applications

The Corning Cable Systems' Anaerobic tool-kits are intended for the installation of all Corning Cable Systems' Anaerobic and Anaerobic GIC connectors.
Tool kits with different equipment are available also for installation of a special group of connectors.

TKT-ANAEROBIC2-EMEA tool kit
(Adhesive bottles may differ from photo)

Description

Corning Cable Systems' tool kits for field installable connectors provide with a collection of essential tools required for tasks associated with the termination of fibre optic cable. The tools are thoughtfully assembled and are stored in compact and easy to carry cases that are lined with a foam-padding material in order to protect the high-quality tools.

The standard tool kit (TKT-ANAEROBIC2-EMEA) allows installation and polishing of multimode and single-mode all-ceramic anaerobic connectors as well as of the anaerobic GIC connectors. All CCS' anaerobic connector types can be installed with this kit: ST® compatible, FC, SC and LC. The kit contains consumables for up to 500 connectors.

The TKT-ANAEROBIC2-25-EMEA is an economical alternative for installation of the only connectors with 2.5 mm diameter ferrules (ST® compatible, FC and SC). The kit contains consumables for up to 500 connectors.

The LC supplement kit TKT-ANAEROBIC2-S integrates the TKT-ANAEROBIC2-25-EMEA kit with the additional tools necessary for LC termination.

The combined features of TKT-ANAEROBIC2-25-EMEA and TKT-ANAEROBIC2-S are equivalent to those of TKT-ANAEROBIC2-EMEA.

A consumables set (TKT-ANAEROBIC2-C-EMEA) is available for replacing consumable materials like polishing films and two components adhesive. The kit contains consumables for up to 500 connectors.

Features/Benefits

- Compact and practical carrying bag
- Full in-depth instruction included
- All components necessary to install Anaerobic and Anaerobic GIC connectors are included.
- Each of the tool kit includes consumables for the installation of up to 500 connectors
- A consumables set including consumables for the installation of up to 500 connectors is available.

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Tool kits contents

Item	Item code	TKT-ANAEROBIC2-EMEA	TKT-ANAEROBIC2-C-EMEA	TKT-ANAEROBIC2-25-EMEA	TKT-ANAEROBIC2-S
Loctite#648 anaerobic adhesive, 50ml		1pc	1pc	1pc	-
Loctite #7649 Primer anaerobic, spray, 150ml		1pc	1pc	1pc	-
Syringe 3cc	100335-01	2 pcs	-	2 pcs	-
Syringe tip 1.5mm	2104090-01	20 pcs	-	20 pcs	-
Polishing film clear, 0.2µm, 5”	1506069-01	1 Pack / 50 pcs	1 Pack / 50 pcs	1 Pack / 50 pcs	-
Polishing film grey, 3µm, 6”	2104004-02	1 Pack / 50 pcs	1 Pack / 50 pcs	1 Pack / 50 pcs	-
Polishing film yellow, 12µm, 5”	2104071-01	1 Pack / 15 pcs	1 Pack / 15 pcs	1 Pack / 15 pcs	-
Polishing film white, 0.3µm, 5”	2104072-01	1 Pack / 50 pcs	1 Pack / 50 pcs	1 Pack / 50 pcs	-
Puck polish. SC/ST/FC conn.	2104020-01	2 pcs	-	2 pcs	-
Puck-LC hand, spring loaded	2104459-01	1 pce	-		1 pce
Plate-polish. 6x6” (GIC conn.)	2104306-01	2 pcs	-	2 pcs	-
Pad rubber (all-cer. Conn.)	2104454-01	3 pcs	-	3 pcs	-
Crimp tool SC/ST/FC single step	3201031-01	1 pce	-	1 pce	-
Crimp tool LC	3201032-01	1 pce	-	-	1 pce
Scribe, ruby (reversible blade)	3233004-01	1 pce	-	1 pce	-
Stripper 6” wire Jensen tool	3206001-01	1 pce	-	1 pce	-
Stripper, No-nicks, 203µm	3205007-01	1 pce	-	1 pce	-
Fibre stripper, plier type	3205004-01	1 pce	-	1 pce	-
Gauge LC strip length	3201032-01	1 pce	1 pce		1 pce
Gauge GIC RPP ST/SC strip length	2104264-02	1 pce	1 pce	1 pce	-
Razor blade single edge	3224001-01*	3 pcs	-	3 pcs	-
Compressed air	2101005-01	1pce	-	1pce	-
Scissors 5” electrician	100294-01	1 pce	-	1 pce	-
Tweezers	100312-01	1 pce	-	1 pce	-
Wipes alcohol	1508001-01	12 pcs	-	12 pcs	-
Lint free wipes	3615001-01	-	1 pack	-	-
Marker black	2104007-01*	1 pce	1 pce	1 pce	-
200x microscope 2.5 univ.adp	LSCOPE-9	1 pce	-	1 pce	-
1.25 univ.adp for microscope	2104375-01	1pce	-	-	1 pce
Battery 1.5V for microscope	1716016-01	3 pcs	3 pcs	3 pcs	-
Bottle 2.0 oz. with cap	1603004-03	2 pcs	-	2 pcs	-
Box, plastic clear	1605059-01	1 pce	-	1 pce	-
Spiral wrap 1/8” o.d.	1819001-02	2 pcs	-	-	2 pcs
Anaerobic procedure ISS 2	SRP-006-160	1 pce	1 pce	1 pce	1 pce

Note: All materials in the list of contents, except those marked with *, can be ordered separately

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Ordering information:

Type Description	Anaerobic tool kit for (ST/FC/SC/LC) GIC and all-ceramic connectors	Consumables for anaerobic tool kits
Quantity/deliver unit	1/1	1/1
Ordering number	**TKT-ANAEROBIC2-EMEA**	**TKT-ANAEROBIC2-C-EMEA**

Type Description	Anaerobic tool kit for (ST/FC/SC) GIC and all-ceramic conn. 2.5mm ferrule	Integration for TKT-ANAEROBIC2-25 for LC terminations
Quantity/deliver unit	1/1	1/1
Ordering number	**TKT-ANAEROBIC2-25-EMEA**	**TKT-ANAEROBIC2-S**

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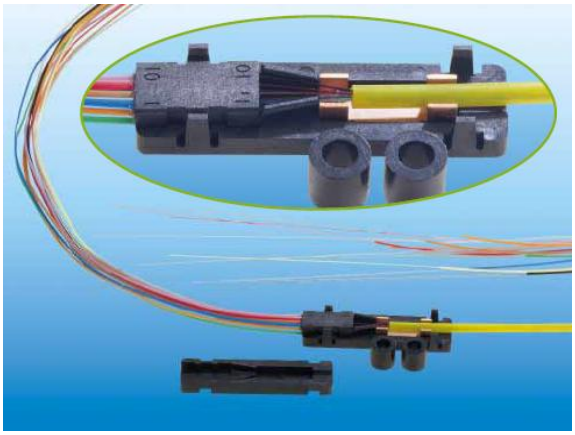
Product Family: **LANscape® Fan-out kits**

Product: **Buffer tube indoor and outdoor single fibres fan-out-kits**

Fibre: **Multimode and Single-Mode Fibres**

Applications

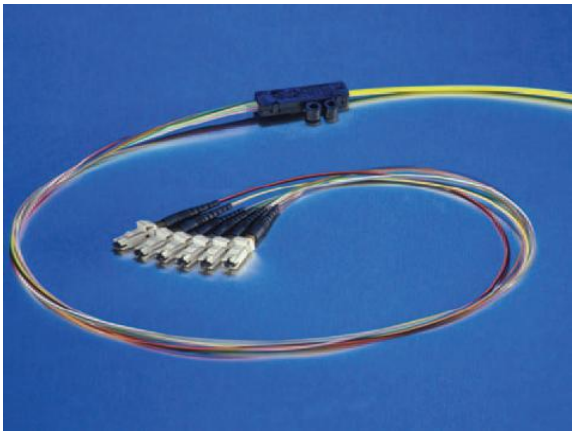
The Corning Cable Systems' buffer-tube fan-out kits are intended for the furcation of buffer tubes onto 900µm legs as required to field-install connectors on bare fibres.
Different kits are available for applications on stranded loose tube cables at indoor or outdoor cross-connection points. In combination with the transition kits the indoor buffer tubes fan-out kits can be also installed on single maxi-tube cables.



Buffer tube fan-out kit: furcation unit

Description

Corning Cable Systems' indoor and outdoor buffer tube fan-out kits are specifically designed for the termination of 6- and 12-fibres buffer tubes. These kits provide the ultimate solution for the field termination of loose tube cables by means of a compact easy to install assembly not requiring additional hardware or space than that required for terminating tight buffered cables.
Indoor and outdoor kits feature a 900µm fan-out assembly that is colour coded to match the fibres colour scheme (to Telcordia). The fan-out assembly is available with 6- or 12-fibres units in lengths of 600 mm (25-in.) or 1200 mm (47-in). These different lengths provide the flexibility needed for installation in a variety of hardware options.



Buffer tube fan-out kit for single maxi-tube cables

Features / Benefits

- Eliminates strain on fibres by isolating them from tensile forces
- Colour coded fan-out tubing to Telcordia:
  6 fibres: blue, orange, green, brown, grey, white
  12 fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua
- Snap-together furcation unit eliminates epoxy resin for indoor kits.
- Compact design.
- Quick and easy to install.
- Optimized for field termination of loose tube cables.
- Excellent fibre routing capabilities.
- Bend radius protection designed into each unit.
- Indoor temperature range: 0 °C – +70 °C.
- Outdoor temperature range: -40 °C – +70 °C
- Single maxi-tube cables fan-out extension kits suitable for single maxi-tube cables containing individual fibres or up to 5 bundles with up to 12 fibres each.

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Ordering information:

Indoor buffer tube fan-out kits

FAN – BT□□ – □□
1 2

Outdoor buffer tube fan-out kits

FAN – OD□□ – □□
1 2

Use the following options to construct the part number:

1 Select length of furcation length (900µm tubing)
25 = 600 mm (25-in.)
47 = 1200 mm (47-in.)

2 Select number of fibres
06 = 6 fibres
12 = 12 fibres

Examples:
FAN – BT47 – 06
Type designation: Indoor fan-out kit for 6 fibres, length of 900µm tubing = 1200 mm (47-in.).

FAN –OD25 – 12
Type designation: Closet fan-out kit for 12 fibres, length of 900µm tubing = 600 mm (25-in.).

Optional accessories:

Part Number	Description
TKT-FANBT-A	Buffer tube fan-out assembly tool kit. Includes: buffer tube fan-out assembly fixture, case for buffer tube fan-out assembly fixture.
TKT-FANBT-C	Consumables for buffer tube fan-out assembly tool kit. Includes: buffer tube fan-out clamp, Loctite 411 adhesive (3g), alcohol wipes (20 pcs), Kimwipes (1 pack).
EST-END-01-SM	Single maxi-tube fan-out kit for single-mode applications: includes funnel, yellow branch tubing, transition heat-shrink sleeves and installation instructions.
EST-END-01-MM	Single maxi-tube fan-out kit for single-mode applications: includes funnel, orange branch tubing, transition heat-shrink sleeves and installation instructions.

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Product Family: **LANscape® Fan-out kits**

Product: **Single ribbon fan-out-kit**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

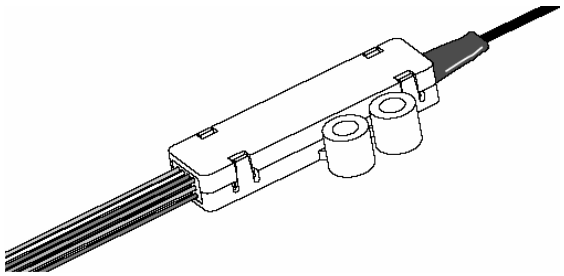
Applications

The Corning Cable Systems' ribbon fan-out kit is intended for the furcation of a single ribbone (bare, in a rectangular fan-out tubing or in a ribbon interconnect cable) onto 900µm single fibre legs as required to field-install single fibre connectors.

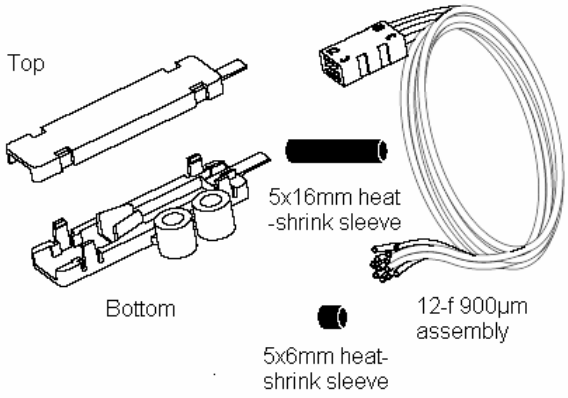
Description

The Corning Cable Systems' ribbon fan-out kit is specifically designed for the indoor termination of 12-fibres ribbons bare as well as jacketed (fan-out tubing or ribbon interconnect cable). This kit provide the ultimate solution for the field termination onto single fibre connectors by means of a compact, easy to install assembly not requiring additional hardware or space than that required for terminating tight buffered cables.

The ribbon fan-out kit features a 900µm fan-out assembly that is colour coded to match the fibres colour scheme of the ribbon. The fan-out assembly is available with 12-fibres units in lengths of 600 mm (25-in.) or 900 mm (36-in). These different lengths provide the flexibility needed for installation in a variety of hardware options.



Single ribbon fan-out kit



Ribbon fan-out kit: components

Features / Benefits

- Eliminates strain on fibres by isolating them from tensile forces
- Colour coded fan-out tubing for indoor use
- Snap-together furcation unit eliminates epoxy resin.
- Compact design.
- Quick and easy to install.
- Optimized for field termination of cables.
- Excellent fibre routing capabilities.
- Bend radius protection designed into each unit.

Ordering information:

Ordering number	Description	Tubing length mm (in.)
RIB-FAN-12	Ribbon fan-out kit 12x900µm tubing 600mm (25-in.) length	600 (25)
RIB-FAN-12-36	Ribbon fan-out kit 12x900µm tubing 900mm (36-in.)length	900 (36)

Note: 900 mm (36-in.) length is only recommended if installing into connector modules;
600 mm (25-in.) length is recommended for connector panels and other Corning Cable Systems hardware.

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Product Family: **LANscape® Fan-out kits**

Product: **Spider fan-out-kits**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Applications

The Corning Cable Systems' spider fan-out kits are intended for the furcation of loose tube or tight buffered cables buffer tubes onto ruggedized legs to realize multifibres cable assemblies to be used for direct connections without use of patch panels.
Different kits are available for application on loose tube, tight buffered or ribbon cables.

Description

Corning Cable Systems' spider fan-out kits are a low cost termination option for multifibre cables. These kits are designed for both factory and field termination of tight-buffered, loose tube (with 4 to 24 fibres) and single tube ribbon (24 to 96 fibres) non-armoured cables. These kits provide a modular, easy installable solution based on a simple step-by-step assembly that grants a successful installation. Installation of spider fan-out kits eliminates the need for patch panels at low-cost termination points.

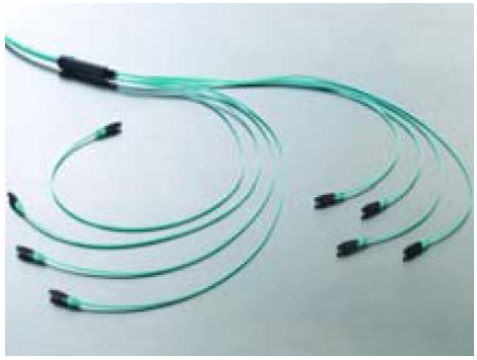
The spider fan-out kits terminate and provide pull-out protection for single fibres (tight buffered 900µm or bare fibres 250µm) or bare 12-fibres ribbons; the single fibres or the ribbons are threaded into the modular inserts which consist of a composite assembly securing, for single fibres, six 1-meter lengths of fan-out tubing, and for 12-fibre ribbons two 1-meter lengths of rectangular fan out tubing. The fan-out tubing (for single fibre as well as for ribbon) provide three layers of protection consisting of a Teflon inner tube (into which the fibre or the ribbon is inserted) an aramid yarn strenght member and an outer protective PVC Jacket. The fan-out insert snaps into the main spider body which is then enclosed within the outer housing.

Features / Benefits

- Modular, compact design.
- No special tool or heat-shrink sleeve
- Field or factory termination
- Fan-out tubing length of one meter provides flexible installation
- Cost effective for splicing and terminating hardware
- Non-metallic/high strength, rugged, composite material.

Spider fan-out MM OM1/OM2 on tight buffered cable

Spider fan-out kit SM on loose tube cable



Ribbon spider fan-out kit MM OM3

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Specifications :

	Loose tube/Single tube cable (bare fibre / 250µm)		Mic / A-VQ(BN)H (tight buffered fibre / 900µm)		Single tube ribbon cable (12-fibres ribbon)	
Fibre count	Length mm (in.)	Diameter mm (in.)	Length mm (in.)	Diameter mm (in.)	Length mm (in.)	Diameter mm (in.)
6 to 12	146 (5.75)	28 (1.1)	121 (4.75)	19 (0.75)	–	–
13 to 24	146 (5.75)	28 (1.1)	146 (5.75)	28 (1.1)	–	–
24 to 96	–	–	–	–	146 (5.75)	28 (1.1)

Acceptable cable outer diameter:

	Loose tube/Single tube cable (bare fibre / 250µm)		Mic / A-VQ(BN)H (tight buffered fibre / 900µm)		Single tube ribbon cable (12-fibres ribbon)	
Fibre count	Min. O.D. mm (in.)	Max. O.D. mm (in.)	Min. O.D. mm (in.)	Max. O.D. mm (in.)	Min. O.D. mm (in.)	Max. O.D. mm (in.)
6 to 12	8.6 (0.34)	15.7 (0.62)	4.6 (0.18)	7.1 (0.28)	–	–
13 to 24	8.6 (0.34)	15.7 (0.62)	6.6 (0.26)	10.9 (0.43)	–	–
24 to 96	–	–	–	–	8.6 (0.34)	15.7 (0.62)

Ordering information:
H indicates the RoHS compliance

SFK – □ – □□ – □□□ – □H
(1 – 2 – 3 – 4)

Use the following options to construct the part number:

1 Select length of furcation length (900µm tubing)

P = 3mm (single fibre) or rectangular (ribbon) fan-out tubing
P2 = 2mm (single fibre) fan-out tubing

2 Select number of fibres

06 = up to 6 single fibres
12 = up to 12 single fibres
18 = up to 18 single fibres
24 = up to 24 single fibres or 2 ribbons (24 fibres)
48 = up to 4 ribbons (48 fibres)
72 = up to 6 ribbons (72 fibres)
96 = up to 8 ribbons (96 fibres)

3 Select fibre type

900 = accepts 900µm tight buffered fibres
250 = accepts 250µm bare fibres
RIB = accepts 12 fibres ribbon

4 Select fan-out tubing colour

M = Orange (62.5µm or standard 50µm multimode)
S = Yellow (single-mode)
A = Aqua (laser optimized 50µm multimode)

Examples:

SFK – P – 06 – 900 – SH
Type designation: Spider fan-out kit for 6x 900µm single-mode fibres, 6 fan-out tubings 3mm diameter, yellow.

SFK – P2 – 24 – 250 – AH
Type designation: Spider fan-out kit for 24x250µm multimode 50µm laser optimized fibres (OM3), 24 fan-out tubings 2mm in diameter, aqua.

SFK – P – 24 – RIB –MH
Type designation: Spider fan-out kit for 2xribbon (24 fibres) multimode 50µm or 62.5µm fibres (OM3), 2 rectangular fan-out tubings, orange.

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Optional accessories:

Part Number	Description
2104148-01	6 fibres insert plug for bare fibres (250µm) orange (62.5µm or standard 50µm multimode).
2104149-01	6 fibres insert plug for tight buffered fibres (900µm) orange (62.5µm or standard 50µm multimode).
2104150-01	6 fibres insert plug for bare fibres (250µm) yellow (single-mode).
2104151-01	6 fibres insert plug for tight buffered fibres (900µm) yellow (single-mode).
SFK-P-IH-RIB-A	2 horizontal ribbons insert plug aqua (multimode 50µm laser optimized fibres)
SFK-P-IV -RIB-A	2 vertical ribbons insert plug aqua (multimode 50µm laser optimized fibres)
SFK-P-IH-RIB-M	2 ribbons horizontal insert plug orange (62.5µm or standard 50µm multimode).
SFK-P-IV-RIB-M	2 ribbons horizontal insert plug orange (62.5µm or standard 50µm multimode).
SFK-P-IH-RIB-S	2 ribbons horizontal insert plug yellow (single mode).
SFK-P-IV-RIB-S	2 ribbons horizontal insert plug yellow (single mode).
2104189-01	Blank plug

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CORNING

Product Family: **LANscape® CamSplice™ no-adhesive mechanical splice**

Product: **CamSplice™ no-adhesive mechanical splice**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Applications

Corning Cable Systems' CamSplice™ no-adhesive mechanical splices are especially indicated for emergency restoration and lab splicing for temporary system testing. They offer also a simple solution for those cases where the use of a fusion splice machine is not practicable.

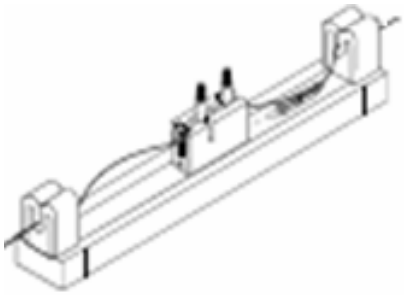
Description

Corning Cable Systems' CamSplice™ is a simple, craft-friendly mechanical splice for both multimode and single-mode fibres. It features a "cam" locking mechanism, which requires no adhesive. The CamSplice™ mechanical splice incorporate a unique, patented fibre alignment method that self-centres the fibres and provides extremely accurate alignment. Average "blind" (non-tuned) splice loss for the CamSplice™ mechanical splice is specified at 0.3 dB with a minimum loss less than 0.15 dB. There is only one part for 250 µm to 250 µm, 250 µm to 900 µm or 900 µm to 900 µm applications (one size fits all).

The CamSplice™ mechanical splice requires minimal training and few accessories to assemble. The assembly process involves stripping and cleaving fibres, inserting the fibres into the splice part until they touch and turning the cams to secure the fibre. The process does not involve any adhesives or special tools, although an optional assembly fixture is recommended. A typical installation takes less than two minutes. A compact, self-contained tool kit is available with standard tools including the optional the assembly fixture.

Completed splices fit in Corning Cable Systems and many other industry standard splice trays.

CamSplice™ and antitorsion CamSplice™



CamSplice™ assembly tool

Features / Benefits

- No adhesive or epoxy required
- Universal: one part fits all fibre coatings
- Re-mateable, tunable.
- Self centring alignment mechanism.
- Antitorsion option with lead-in tubes for securing 900µm tight buffered fibres.
- Pre-inserted index-matching gel.
- No stress in fibre alignment area.
- Small assembly fixture recommended, but optional.
- Fits in most industry standard splice trays.

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Characteristics

Dimensions LxW: mm (in.)	44.0 x 4.2 (1.73 x 0.17)
Typical splice loss: dB	0.15
Typical “blind” splice loss: dB	0.3
Reflectance (flat cleave): dB	≤ -45 dB
Reflectance (angled cleave): dB	≤ -60 dB
Tensile strength: N	2.25
Temperature range:	-40 – +75 °C, ΔIL ≤ 0.1 dB average
Vibration	10 – 55 Hz, amplitude max. 1.52 m, 3 axis, 2 h each, ΔIL ≤ 0.5 dB

Ordering information:

Ordering number	Description	Quantity/ delivery unit
95-000-04	CamSplice™ mechanical splice	6 / 1
95-000-04-ATC*	Antitorsion CamSplice™ mechanical splice for 900µm applications	900 (36)

*** Once crimped the antitorsion CamSplice™ is not re-mateable**

Optional accessories:

Part Number	**Description**
TKT-100-01	CamSplice™ tool kit, includes CamSplice™ assembly fixture, fibre coating stripping tool.
TKT-100-02	CamSplice™ tool kit with cleaver, includes CamSplice™ assembly fixture, fibre coating stripping tool and Score & Snap Cleaver.
2104040-01	CamSplice™ assembly fixture.
2104200-01	Crimp tool for antitorsion CamSplice™ mechanical splice
FBC-001	Score & Snap cleaver.
FBC-006	Precision fibre cleaver.

Tool kits contents

Item	**Item code**	**TKT-100-01**	**TKT-100-02**
CamSplice™ assembly tool	2104040-01	1 pce	1 pce
Fibre cleaver, score & snap	FBC-001	-	1 pce
Stripper 6” wire Jensen tool	3206001-01	1 pce	1 pce
Stripper, No-nicks, 203µm	3205007-01	1 pce	1 pce
Fibre stripper, plier type	3205004-01	1 pce	1 pce
Scissors 5” electrician	100294-01	1 pce	1 pce
Marker black	2104007-01*	1 pce	1 pce
Tweezers	100312-01	1 pce	1 pce
Black tape, electrical,3/4”x20’	2104047-01	1 pce	1 pce
Wipes alcohol	1508001-01	6 pcs	6 pcs
Bottle 60 ml dispensing	1604003-01*	1 pce	1 pce
Book of numbers 0 - 9	100297-01	1 pce	1 pce
Instructions CamSplice™ assembly	SRP-006-038	1 pce	1 pce
Instructions FBC-001 cleaver	SRP-001-040	-	1 pce
Instructions fibre stripping tool	SRP-005-006	1 pce	1 pce
Instructions buffer stripping tool	SRP-005-005	1 pce	1 pce
Instructions stripper No-nicks, 203µm	SRP-004-036	1 pce	1 pce

Note: All items in the content lists, except those marked with *, can be ordered separately

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4 Cable Assemblies

4.1. Pigtails

4.1.1. Multimode

4.1.2. Singlemode

4.2. Patchcords

4.2.1. Singlefibre, Multimode

4.2.2. Singlefibre, Singlemode

4.3. Multifibre Assemblies

4.4. MT-RJ Patchcords

4.5. MTP Patchcords

CORNING

RoHS COMPLIANT

Product Family: **LAN*scape*® Cable assemblies**

Product: **Pigtails TB multimode ST® compatible/ FC / E2000™ / SC / LC / MT-RJ**

Fibre: **All Multimode Fibre Types**

Application

Pigtails are used for non-permanent connections in patch panels, transmission equipment etc. Factory assembled pigtails allow for high quality termination of a network.

Pigtail ST® compatible, multimode fibre 62.5/125 µm

Features / Benefits

- Tight buffer design:
  - V-G50 ClearCurve OM4 TB AQ (900µm)
  - V-G50 ClearCurve OM3 TB AQ (900µm)
  - V-G50 ClearCurve OM2 TB GN (900µm)
  - V-G62.5L/125 TB BL (900µm)
- The TB fibres are low smoke according to IEC 61034 and zero halogen (LSZH), flame retardant and non corrosive to IEC 60 754-2 (FRNC)
- Completely dry design (without gel) and metal-free, hence no ground loop problems or potential equalization problems
- Easy to strip up to 1500 mm in one strip
- LC-Duplex, FC, SC-Duplex, ST® compatible, MT-RJ connectors to TIA/EIA-604 -10, -4, -3, -2, -12 respectively
- E2000 connector to IEC 61754-15
- Connectors are pre-radius polished

Characteristics of connectors and boots

Connector type	**ST**	**FC**	**E2000**	**SC**	**LC**	**MT-RJ/m***
Ferrule	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Composite
Connector housing	Metal	Metal	Composite	Composite	Composite	Composite
Colour:	Connector housing / Connector boot					
ClearCurve 50µm OM4 Pretium 550	Nickel / Aqua	-	-	Black / Aqua	Black / Aqua	Black / Aqua
ClearCurve 50µm OM3 Pretium 300	Nickel / Aqua	-	-	Black / Aqua	Black / Aqua	Black / Aqua
ClearCurve 50µm OM2 Pretium 150	Nickel / Black	Nickel / Black	Beige / Black	Black / Black	Black / Black	Black / Black
MM 62.5/125 OM1	Nickel / Black	Nickel / Black	Beige / Black	Beige / Black	Beige / Black	Beige / Black
Insertion loss typical	0.35 dB	0.35	0.35	0.35	0.35	0.30
Durability FOTP-21	≤ 0.2 dB, 1000 rematings				≤ 0.2 dB, 500 rematimgs	≤ 0.3 dB, 1000 rematings
Temperature Cycling	Typical ≤ 0.3 dB change @ temperature range -40°C to 75°C					

*Standard pigtails MT-RJ connector is MT-RJ/m (with pins). For MT-RJ/f (without pins) contact our customer service.

All connectors are tested to FOTP -21; other options are available on request.

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Characteristics tight buffered fibres:

TB fibre strippable length 1500 mm	Cable Code for Single- and Dual- fibre Pigtails	Outer diameter [µm]	Tight Buffer Colour	Max. tensile strength on terminated connector [N]
Pigtail fiber TB MM G50/125µm OM4	**Q4Z80**	900	**Aqua**	4
Pigtail fiber TB MM G50/125µm OM3	**T4Z80**	900	**Aqua**	4
Pigtail fiber TB MM G50/125µm OM2	**B4Z31**	900	**Green**	4
Pigtail fiber TB MM G62.5L/125µm OM1	**K4Z41**	900	**Blue**	4

Temperature range	Laying and installation Operation Transport and storage	[°C]	-5 to +50 -20 to +60 -25 to +70

Buffer type	Fibre count	Buffer Ø [mm]	Buffer Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend 50µm	Min. bend radius operation [mm] Ultra Bend 50µm	Min. bend radius installation [mm] 62,5µm	Min. bend radius operation [mm] 62,5µm	Stripping lentgh [mm]	Fire load [MJ/m]
TB	1	0.9	1.0	15	7.5	30	30	1500	0.016

Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode
Fibre category	OM1	OM2	OM3	OM4
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801

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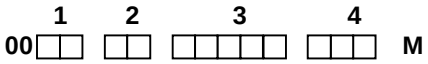
Ordering information:



Use the following options to construct the part number:

1 Select connector

03 = LC/PC-Simplex
17 = FC/PC
39 = SC/PC-Simplex
50 = ST/PC, plastic bayonet
74 = ST/PC, metal bayonet
95 = E2000/PC-Simplex
86 = MT-RJ/m (with pins)*

2 Select fibre count

01 = 1 Fibre
02 = 2 Fibre
Note: 2 fibres pigtails are only available with MT-RJ connectors

3 Select cable type

Q4Z80 = TB ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
T4Z80 = TB ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
B4Z31 = TB ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
K4Z41 = TB Infinicor 300 OM1 62.5µm

4 Select overall length

001- 010 meters*

*Pigtails on tight buffered fibres are typically no longer than 10 m, for longer pigtails please contact customer service

Example:

008602T4Z80002M

Type designation: Pigtail 2xTB MM 50/125µm Clear Curve, Pretium 300, OM3 fibre, LSZH and FRNC jacket, assembled with MT-RJ/m connector, length: 2 m.

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RoHS COMPLIANT

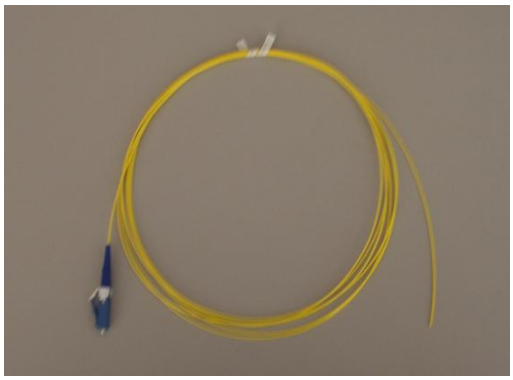
Product Family: **LAN*scape*® Cable assemblies**

Product: **Pigtails TB single-mode ST® compatible/ FC / E2000™ / SC / LC / MT-RJ**

Fibre: **Full spectrum single-mode fibre SMF 28e+™, OS2**

Application

Pigtails are used for permanent connections in patch panels, transmission equipment etc. Factory assembled pigtails allow for high quality termination of a network.



Pigtail LC/UPC, single mode fibre

Features / Benefits

- Tight buffer design: V-E9/125 TB YE (900µm)
- The TB fibers are low smoke according to IEC 61034 and zero halogen (LSZH), flame retardant and non corrosive to IEC 60 754-2 (FRNC)
- Completely dry design (without gel) and metal-free, hence no ground loop problems or potential equalization problems
- Easy to strip up to 1500 mm in one strip
- LC-Duplex, FC, SC-Duplex, ST® compatible, MT-RJ connectors to TIA/EIA-604 -10, -4, -3, -2, -12 respectively
- E2000 connector to IEC 61754-15
- Connectors are pre-radius polished

Characteristics of connectors and boots

Connector type	**ST**	**FC**	**E2000**	**SC**	**LC**	**MT-RJ/m***
Ferrule	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Composite
Connector housing	Metal	Metal	Composite	Composite	Composite	Composite
Colour:	Connector housing / Connector boot					
UPC connectors	Nickel / Blue	Nickel / Blue	Blue / Blue	Blue / Blue	Blue / Blue	Blue / Black
APC connectors	-	Nickel / Green	Green / Green	Green / Green	Green / Green	-
Insertion loss typical (dB)	0.15	0.15	0.10	0.15	0.10	0.30
Reflactance typical (dB) **UPC**	≤ -58	≤ -58	≤ -58	≤ -58	≤ -58	≤ -53
Reflactance typical (dB) **APC**	-	≤ -75	≤ -75	≤ -75	≤ -75	-
Durability FOTP-21	≤ 0.2 dB, 1000 rematings				≤ 0.2 dB, 500 rematings	≤ 0.3 dB, 1000 rematings
Temperature Cycling	Typical ≤ 0.3 dB change at temperature range -40°C to 75°C					

*Standard pigtails MT-RJ connector is MT-RJ/m (with pins). For MT-RJ/f (without pins) contact our customer service.

All connectors are tested to FOTP -21; other options are available on request.

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Characteristics tight buffered fibre

The TB fibre strippable length 1500 mm Color: Yellow	Code	Outer diameter [µm]	Bend radius for installation [mm]	Max. tensile strength on terminated connector [N]
Tight-buffer fibre TB SM E9/125 OS2	**R4Z31**	900	≥ 30	4

Optical characteristics of full-spectrum single-mode fibres 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter @ 1310: 9.2 ± 0.4 µm
Mode-Field diameter @ 1550: 10.4 ± 0.5 µm
Typical attenuation (1310nm/1550nm): 0.38 / 0.25 dB/km
Fibre meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS1/OS2, Telcordia GR20.

Ordering information:

1 2 3
00☐☐ ☐☐ R4Z31☐☐☐ M

Use the following options to construct the part number:

1 Select connector
02 = LC/UPC-Simplex
22 = LC/APC- Simplex
54 = FC/UPC
21 = FC/APC
58 = SC/UPC-Simplex
44 = SC/APC-Simplex
61 = ST/UPC, plastic bayonet
83 = ST/UPC, metal bayonet
19 = E2000/APC-Simplex
20 = E2000/UPC-Simplex
87 = MT-RJ/m (with pins)

2 Select fibre count
01 = 1 Fibre
02 = 2 Fibre
Note: 2 fibres pigtails are only available with MT-RJ connectors

3 Select overall length
001- 010 meters*

*Pigtails on tight buffered fibres are typically no longer than 10 m, for longer pigtails please contact customer service

Example:

002201R4Z31002M

Type designation: Pigtail TB SM OS2 fibre, LSZH, assembled with LC/APC connector, length: 2 m.

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CORNING

RoHS COMPLIANT

Datasheet
Cable Assemblies / October 2009

Product Family: **LANscape® cable assemblies**

Product: **ST / FC / E2000 / SC / LC Multimode Patchcords and Jumpers**

Fibre: **All Multimode Fibre Types**

Application

For non-permanent connections between patch panels, transmission equipment etc. patch cables are used. Pre-assembled cables allow for the implementation of complete „plug & play“ solutions. When such a solution is adopted with accurate dimensioning and appropriate cable routing, it is possible to install even large cabling systems rapidly.

Features

- LC-Duplex, FC, SC-Duplex, ST® compatible connectors: TIA/EIA-604 -10, -4, -3, -2 respectively
- E2000 connector: IEC 61754-15
- Connectors are pre-radius polished

Mechanical Characteristics of Connectors and Boots

Connector type	**ST**	**FC**	**E2000**	**SC**	**LC**
Ferrule	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Connector housing	Metal	Metal	Composite	Composite	Composite
Color:	Connector housing / Connector boot*				
OM4 (50µm)	Nickel / Aqua	Nickel / Aqua	-	Black / Aqua	Black / Aqua
OM3 (50µm)	Nickel / Aqua	Nickel / Aqua	-	Black / Aqua	Black / Aqua
OM2 (50µm)	Nickel / Black	Nickel / Black	Beige / Black	Black / Black	Black / Black
OM1 (62.5µm)	Nickel / Black	Nickel / Black	Beige / Black	Beige / Black	Beige / Black
Insertion loss typical (dB)	0.35	0.35	0.35	0.35	0.35
Durability change per FOTP-21	≤ 0.2 dB, 1000 rematings				≤ 0.2 dB, 500 rematings
Max. tensile load on connector	44 N (on 2.0 and 2.8mm cables)				
Temperature Cycling	Typical ≤ 0.3 dB change @ temperature range -40°C to 75°C				

*For Duplex connectors the second connector boot is white.

All connectors are tested to FOTP -21; other options are available on request.

Characteristics cable

- Low smoke (IEC 61034) and zero-halogen (LSZH), flame retardant to IEC 60332-1 and non-corrosive to IEC 60754-2 (FRNC)
- Metal-free, hence no ground loop problems or potential equalization problems.
- Completely dry design (without gel)
- Colour of outer sheath: OM1, OM2 - orange
  OM3, OM4 - aqua

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Characteristics of cable type for Patchcords and Jumpers
Mechanical Characteristics – (Simplex) Jumper cable

Temperature range Laying and installation Operation Transport and storage	[°C]	-5 to + 50°C -20 to + 60°C -25 to + 70°C

Number of fibres	Outside-Ø [mm]]	Weight [kg/km]	Min. Bend radius, installation [mm] All Multimode	Min. Bend radius operation [mm] Ultra Bend	Min. Bend radius operation [mm] OM1	Max. Tensile load for installation [N]	Max. Crush resistance (IEC60794-1-2-E3) [N/10cm]	Fire rating [MJ/m]
1	2.0	4.1	30	10	30	150	1000	0.08
1	2.8	8.2	45	14	30	200	1000	0.15

Mechanical Characteristics – (Duplex) Zipcord cable

Temperature range Laying and installation Operation Transport and storage	[°C]	-5 to + 50°C -20 to + 60°C -25 to + 70°C

Number of fibres	Outside-Ø [mm]]	Weight [kg/km]	Min. Bend radius, installation [mm]	Min. Bend radius operation [mm] Ultra Bend	Min. Bend radius operation [mm] Standard	Max. Tensile load for installation [N]	Max. Crush resistance (IEC60794-1-2-E3) [N/10cm]	Fire rating [MJ/m]
2	2.0 x 4.1	8.5	30	10	30	300	1000	0.15
2	2.8 x 5.7	16.0	45	14	30	400	1000	0.34

* Bend radius over flat side

Optical Characteristics (cabled):

Fibre type	G62.5L/125 Infinicor 300	G50/125 Pretium 150 ULTRA-BEND 7.5	G50/125 Pretium 300 ULTRA-BEND 7.5	G50/125 Pretium 550 ULTRA-BEND 7.5
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode
Fibre category	OM1	OM2	OM3	OM4
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300
Attenuation – Max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0
Attenuation – Typ. (dB/km)	3.1 / 0.8	2.7 / 0.8	2.7 / 0.8	2.7 / 0.8
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc Method to TIA/EIA 455-220, IEC 60793-2-10, Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801

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Ordering information:

1	2	3	4	5	
□□	□□	□□	□□□□□	□□□	M

Use the following options to construct the part number:

1 Select connector 1st end*

03 = LC/PC-Simplex
05 = LC/PC-Duplex
17 = FC/PC
39 = SC/PC-Simplex
57 = SC/PC-Duplex
50 = ST/PC, plastic bayonet
74 = ST/PC, metal bayonet
95 = E2000/PC-Simplex

2 Select connector 2nd end*

Use the order number from section 1

3 Select fibre count

01 = 1 Fibre
02 = 2 Fibre

4 Select fibre and cable type

Simplex cable

Q2Z80	2.0 mm	ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
Q3Z80	2.8 mm	ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
T2Z80	2.0 mm	ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
T3Z80	2.8 mm	ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
B2Z31	2.0 mm	ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
B3Z31	2.8 mm	ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
K2Z41	2.0 mm	Infinicor 300 OM1 62.5µm
K3Z41	2.8 mm	Infinicor 300 OM1 62.5µm

Duplex cable (Zipcords)

Q5Z20	2.0 mm	ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
Q5Z80	2.8 mm	ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
T5Z20	2.0 mm	ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
T5Z80	2.8 mm	ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
B5Z20	2.0 mm	ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
B5Z31	2.8 mm	ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
K5Z20	2.0 mm	Infinicor 300 OM1 62.5µm
K5Z41	2.8 mm	Infinicor 300 OM1 62.5µm

Please note: LC-LC or LC-Hybrid connections are only with 2.0mm cable available

5 Select overall length

001- 999 Meter

***To build the correct ordering number always use the connectors with lowest code number in position 1 and the connector with higher code number in position 2. If the cable should be terminated only on one end then use code "00" in position 1.**

Example:

050502T5Z20002M

Type designation: 2.0 mm Duplex Patchcord with 2 G50-ClearCurve OM3 Pretium 300 fibres, halogen free, FRNC, assembled with LC-Duplex connectors on both sides, length: 2 m.

057402B5Z20002M

Type designation: 2.0 mm Duplex Patchcord with 2 G50 - ClearCurve OM2 Pretium 150 Faser fibres, halogen free, FRNC, assembled with 1X LC-Duplex connectors and 2XST connectors, length: 2 m.

577402K5Z41005M

Type designation: 2.8 mm Duplex Patchcord with 2 G62.5/L OM1 fibres, halogen free, FRNC, assembled with 1X SC-Duplex connectors and 2XST connectors, length: 5 m.

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CORNING

RoHS COMPLIANT

Datasheet
Cable Assemblies / October 2009

Product Family: **LANscape® cable assemblies**

Product: **ST / FC / E2000 / SC / LC Single-Mode Patchcords and Jumpers**

Fiber: **Full spectrum single mode fibre, SMF 28e™ OS1 & OS2**

Application

For non-permanent connections between patch panels, transmission equipment etc. patch cables are used. Pre-assembled cables allow for the implementation of complete „plug & play“ solutions. When such a solution is adopted with accurate dimensioning and appropriate cable routing, it is possible to install even large cabling systems rapidly.

Features

- LC-Duplex, FC, SC-Duplex, ST® compatible connectors: TIA/EIA-604 -10, -4, -3, -2 respectively
- E2000 connector: IEC 61754-15
- Connectors are pre-radius polished

Characteristics of connectors and boots

Connector type	**ST**	**FC**	**E2000**	**SC**	**LC**
Ferrule	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Connector housing	Metal	Metal	Composite	Composite	Composite
Colour:	Connector housing / Connector boot*				
UPC connectors	Nickel / Blue	Nickel / Blue	Blue / Blue	Blue / Blue	Blue / Blue
APC connectors	-	Nickel / Green	Green / Green	Green / Green	Green / Green
Insertion loss typical (dB) SM	0.15	0.15	0.10	0.15	0.10
Reflactance typical (dB) SM UPC	≤ -59	≤ -59	≤ -59	≤ -59	≤ -59
Reflactance typical (dB) SM APC	-	≤ -75	≤ -75	≤ -75	≤ -75
Durability change per FOTP-21	≤ 0.2 dB, 1000 rematings				≤ 0.2 dB, 500 rematings
Max. tensile load on connector	44 N on 2.0 and 2.8 cable				
Temperature Cycling	Typical ≤ 0.3 dB change @ temperature range -40°C to 75°C				

*For Duplex jumpers or patchcords the second connector boot is white.

All connectors are tested to FOTP -21; other options are available on request.

Characteristics cable

- Low smoke (IEC 61034) and zero-halogen (LSZH), flame retardant to IEC 60332-13 and non-corrosive to IEC 60754-2 (FRNC)
- Metal-free, hence no ground loop problems or potential equalization problems.
- Completely dry design (without gel)
- Color of outer sheath: OS2 - yellow

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Characteristics of cable type for Patchcords and Jumpers

Mechanical Characteristics – (Duplex) Zipcord cable

Temperature range Laying and installation Operation Transport and storage			[°C]			-5 to + 50°C -20 to + 60°C -25 to + 70°C	
Number of fibers	Outside-Ø [mm]	Weight [kg/km]	Min. Bend radius installation over flat side [mm]	Min. Bend radius operation over flat side [mm]	Max. Tensile load for installation [N]	Max. Crush resistance (IEC 60794-1-2-E3) [N/10cm]	Fire rating [MJ/m]
2	2.0 x 4.1	8.5	30	30	300	1000	0.16
2	2.8 x 5.6	15	45	30	400	1000	0.30

Mechanical Characteristics – (Simplex) Jumper cable

Temperature range Laying and installation Operation Transport and storage			[°C]			-5 to + 50°C -20 to + 60°C -25 to + 70°C	
Number of fibers	Outside-Ø [mm]	Weight [kg/km]	Min. Bend radius installation over flat side [mm]	Min. Bend radius operation over flat side [mm]	Max. Tensile load for installation [N]	Max. Crush resistance (IEC 60794-1-2-E3) [N/10cm]	Fire rating [MJ/m]
1	2.0	4.1	30	30	150	1000	0.08
1	2.8	8.2	45	30	200	1000	0.15

Optical Characteristics (cabled):

Full spectrum single-mode fibers 9/125 µm, SMF 28^{e}+™ OS2
Mode-Field diameter @ 1310: 9.2 ± 0.4 µm
Mode-Field diameter @ 1550: 10.4 ± 0.5 µm
Typical attenuation (1310 nm / 1550 nm): 0.38 / 0.25 dB/km
Fiber meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS1/OS2, Telcordia GR20.

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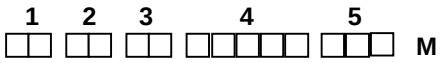
Ordering information :



Use the following options to construct the part number:

1 Select connector 1st end*

02 = LC/UPC-Simplex
04 = LC/UPC-Duplex
54 = FC/UPC
21 = FC/APC
58 = SC/UPC-Simplex
44 = SC/APC-Simplex
72 = SC/UPC-Duplex
66 = SC/APC-Duplex
61 = ST/UPC, plastic bayonet
83 = ST/UPC, metal bayonet
19 = E2000/APC-Simplex
20 = E2000/UPC-Simplex

2 Select connector 2nd end*

Use the order number from section 1

3 Select fibre count

01 = 1 Fibre
02 = 2 Fibre

4 Select fibre type and cable type

Simplex cable

R2Z31 2.0 mm SMF 28e+™ OS2, 9µm
R3Z31 2.8 mm SMF 28e+™ OS2, 9µm

Duplex cable (Zipcords)

R5Z20 2.0 mm SMF 28e+™ OS2, 9µm
R5Z31 2.8 mm SMF 28e+™ OS2, 9µm

Please note: LC-LC or LC-Hybrid connections are only with 2.0 mm cable available

5 Select overall length

001- 999 Meter

***To build the correct ordering number use always the connectors with lowest code number in position 1 and the connector with higher code number in position 2. If the cable should be terminated only on one end then use code "00" in position 1.**

Example:

040402R5Z20002M

Type designation: 2.0 mm Duplex Patchcord with 2 E9 OS2 fibres, halogen free, FRNC, assembled with LC-Duplex connectors on both sides, length: 2 m.

047202R5Z20002M

Type designation: 2.0 mm Duplex Patchcord with 2 E9 OS2 fibres, halogen free, FRNC, assembled with 1x LC-Duplex connector and 2xST connectors, length: 2 m.

586101R3Z31005M

Type designation: 2.8 mm Simplex Patchcord with 1 E9 OS2 fibre, halogen free, FRNC, assembled with 1x SC-UPC connector and 1xST connector, length: 5 m.

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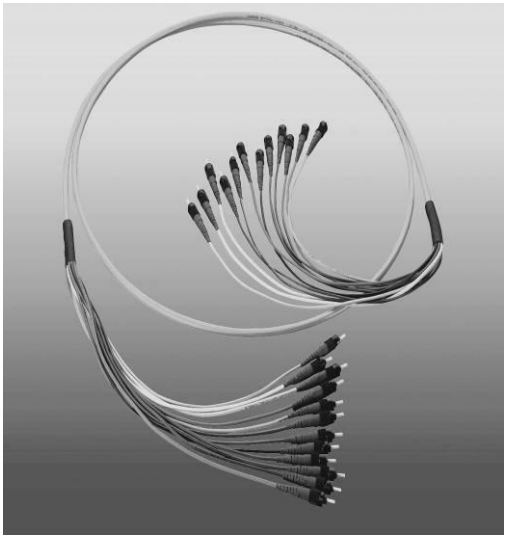
Product Family: **LANscape® cable assemblies**

Product: **Multifibre Cable Assemblies with Single-fibre or Two-fibre Connectors**

Fibre: **All Fibre Types**

Applications

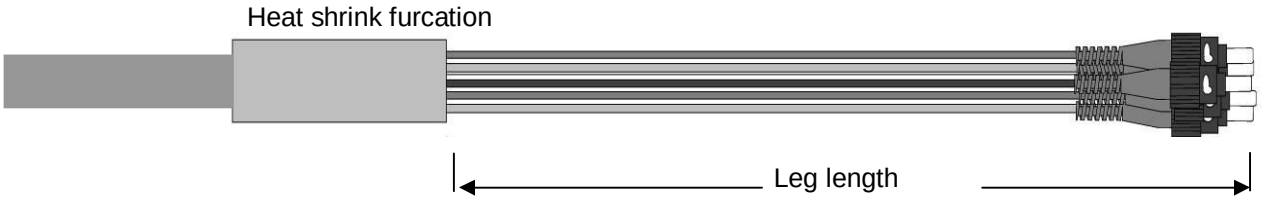
The multifibre cable assemblies are pre-terminated indoor cables and are especially suitable for installation or expansion of networks with high fibre counts. In combination with patchpanels and patchcords they offer a fast installable cabling solution and allow traditional cross-connection or direct connection to active components with individual connection cables of 900 µm or 2.0 mm diameter.



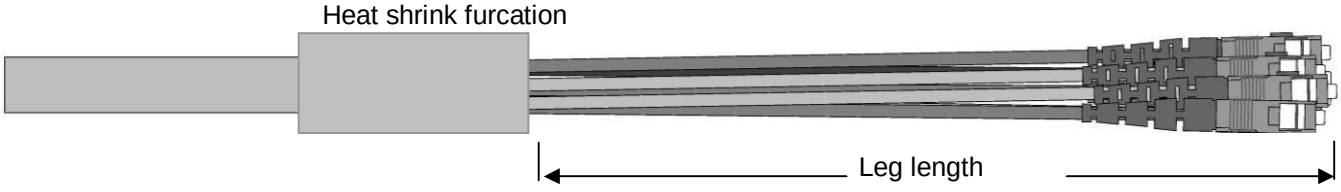
Multifibre Cable Assembly with ST® compatible connectors on both sides

Description

Pre-terminated multifibre cables constitute an optimum solution for an easy and safe laying in containment trays, conduits or underfloor cable trays. Once deployed, the protecting grip is removed and the exposed connectors on both ends are plugged into patch panels or system equipment. Multifibre cable assemblies are a high density solution for connections with Simplex-, Duplex-single-fibre or with two fibres (MT-RJ) connectors. The multifibre cable assemblies are available, depending on the requirements, with different cable characteristics and offer an easy and modular solution of excellent quality. The multifibre cable assemblies terminated with Duplex-single-fibre or with MT-RJ connectors are manufactured in Reverse-Fibre-Polarity (RFP) according ANSI/TIA/EIA-586B.1 (Cabling) and ANSI/TIA/EIA-586B.3 (Duplex-Connector), this guarantees a correct polarity of the complete structured cabling installation.



Multi fibre cable based on i-MIC cable up to 24 fibres with 900µm legs



Multi fibre cable based on T-VHH break out cable up to 24 fibres with 2.0 mm

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Characteristics

- A pre-terminated, easy-to-install, high fibre density cabling solution
- Single-fibre connector trunks plug to patchpanels or directly to active components.
- Polarity of single fibre trunks with Duplex- or MT-RJ connectors is RFP (Reverse-Fibre-Polarity) to ANSI/TIA/EIA-586B.1 (Cabling) and ANSI/TIA/EIA-586B.3 (Duplex-connector)
- Factory installed pulling grips can stand a tensile strength up to 450 N.
- Guaranteed minimum transmission length for 1 Gigabit Ethernet and 10 Gigabit Ethernet.
- Metal-free, therefore no grounding concerns.

Mechanical characteristics of single- or two-fibre connectors

Connector type:	**ST**	**FC**	**E2000**	**SC**	**MT-RJ/f***	**LC**
Ferrule:	Ceramic	Ceramic	Ceramic	Ceramic	Composite	Ceramic
Housing:	Metal	Metal	Composite	Composite	Composite	Composite
Colour:	Connector housing / Connector boot**					
OM4 (50µm)	Nickel/Aqua	Nickel/Aqua	-	Black/Aqua	Black/Aqua	Black/Aqua
OM3 (50µm)	Nickel/Aqua	Nickel/Aqua	-	Black/Aqua	Black/Aqua	Black/Aqua
OM2 (50µm)	Nickel/ Black	Nickel/ Black	Beige/Black	Black/ Black	Black/Black	Black/Black
OM1 (62.5µm)	Nickel/ Black	Nickel/ Black	Beige/Black	Beige/ Black	Beige/Black	Beige/Black
OS2 (E9) /UPC	Nickel/Blue	Nickel/Blue	Blue/Blue	Blue/Blue	Blue/Black	Blue/Blue
OS2 (E9) /APC	-	Nickel/ Green	Green/ Green	Green/ Green	-	Green/ Green
Insertion loss typical (dB) MM	0.35	0.35	0.35	0.35	0.35	0.35
Insertion loss typical (dB) SM	0.15	0.15	0.10	0.15	0.30	0.15
Back reflection typical (dB) SM /UPC	≤ -58	≤ -58	≤ -58	≤ -58	≤ -53	≤ -58
Back reflection typical (dB) SM /APC	-	≤ -75	≤ -75	≤ -75	-	≤ -75
Durability cange to FOTP-21	≤ 0.2 dB, 1000 rematings				≤ 0.3 dB, 1000 rematings	≤ 0.2 dB, 500 rematings
Max. tensile load on connector	44 N for 2.0mm legs / 4 N for 900µm legs					
Temperature cycling	Typ. ΔIL ≤ 0.3 dB temperature range -40°C to +75°C					

*The described MT-RJ/f is without pins. For MT-RJ/m with pins contact our customer service.
**Second connector's boot for Duplex-connectors is white
All connectors are tested to FOTP -21; other options are available on request.

Mechanical characteristics – Furcation legs

Temperature range	Laying and installation Operation Transport and storage				[°C]		-5 to +50 -20 to +60 -25 to +70	
Fibre count	Legs outer Ø [mm]	Weight [kg/km]	Min. bend radius, installation [mm] All Fibres	Min. bend radius, operation [mm] Ultra-Bend	Min. bend radius, operation [mm] OM1, OS2	Max. tensile strength [N]	Crush resistance [N/10cm]	Fire load [MJ/m]
1	0.9	1.0	30	7.5	10	4	-	0.016
1	2.0	4.1	35	10	20	150	750	0.09

Halogen-free (LSZH), low smoke (IEC 61034), flame retardant (IEC 60332-1), non-corrosive (IEC 60754-2)

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Cable characteristics:

Mechanical and environmental: Refer to the datasheets of the individual cables
The cable type depend on the type of leg tubings required:

8Z = Indoor i-MIC cable, FRNC, for 900 µm legs, 6, 12 and 24 fibres
(See cable datasheet: J-VH; 6, 12 and 24 fibres; FRNC / LCXLI2-x50xx-x700)

6Z = Indoor breakout cable FRNC, for 2.0 mm legs, 6, 12 and 24 fibres
(See cable datasheet: T-VHH; 6, 12 and 24 fibres; FRNC / LCXLI2-x00xx-x750)

Colour of outer sheath according to fibre class:

OM1, OM2	- Orange
OM3, OM4	- Aqua
OS2	- Yellow

Protective grip

Optical Characteristics (cabled):

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – Max (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – Typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**K**	**B**	**T**	**Q**	**R**

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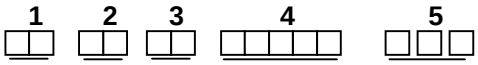
Order information:



Use the following options to construct the part number:

1 Select connector 1st end

ST® kompatibel Stecker
74= ST® compatible MM, metal housing
83 = ST® compatible SM, metal housing
50 = ST® compatible MM, composite housing
61= ST® compatible SM, composite housing

FC Stecker
17 = FC Multimode
54 = FC/UPC Single-Mode
21 = FC/APC Single-Mode

LC Simplex
03 = LC Multimode
02 = LC/UPC Single-Mode
22 = LC/APC Single-Mode

LC Duplex
05 = LC-Duplex, Multimode
04 = LC/UPC Duplex, Single-Mode
18 = LC/APC Duplex, Single-Mode

SC Simplex
39 = SC Multimode
58 = SC/UPC Single-Mode
65 = SC/APC Single-Mode

SC Duplex
57 = SC-Duplex, Multimode
72 = SC/UPC Duplex, Single-Mode

E2000
95 = SC Multimode
20 = SC/UPC Single-Mode
19 = SC/APC Single-Mode

MT-RJ/f* without pins
97 = MT-RJ/f w/o pins, MM
98 = MT-RJ/f w/o pins, SM
*MT-RJ connectors available only on i-MIC cable

2 Select connector 2nd end
Use the order number from section 1

3 Select fibre count
06 = 6-fibres
12 = 12-fibres
24 = 24-fibres

4 Select fibre and cable type

J-VH, i-MIC Cable (900um legs)
Q8Z80 = ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
T8Z80 = ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
B8Z31 = ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
K8Z30 = Infinicor 300 OM1 62.5µm
R8Z31 = SMF-28e+, OS2 E9

T-VHH, Breakout Cable (2.0mm legs)
Q6Z20 = ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
T6Z20 = ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
B6Z20 = ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
K6Z20 = Infinicor 300 OM1 62.5µm
R6Z20 = SMF-28e+, OS2 E9

5 Select overall length
001-999 meters*

* Length is measured from connector tip to connector tip, including leg lengths of 1000m on each side.

Standard leg length 1000mm with following exceptions:
- 2 fibre breakout cable legs are 250mm long
- 4 and 6 fibre breakout legs have 50mm stagger from 1000mm
- Leg length tolerance +70/-0mm

Example: 050524T6Z20100M
Type designation: Breakout cable with 24 G50 ClearCurve OM3 Pretium 300 fibres, halogen free, FRNC, with 900µm legs, terminated both sides with 12 LC-Duplex on 2.0 mm legs (1000 mm long). Cable length 100 m.

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CORNING

RoHS COMPLIANT

Datasheet
MT-RJ Patchcords / October 2009

Product Family: **LANscape® Cable Assemblies**

Product: **MT-RJ patchcords**

Fibre: **All Fibre Types**

Application

For non-permanent connections between patch panels, transmission equipment etc. patch cables are used. Pre-assembled cables allow for the implementation of complete „plug & play" solutions. When such a solution is adopted with accurate dimensioning and appropriate cable routing, it is possible to install even large cabling systems rapidly.

Features

- MiniMIC cable with 2 fibres for MT-RJ to MT-RJ jumpers and 2 x 1.8 mm MiniZip cable for hybrids MT-RJ patchcords
- Halogen free (LSZH) and low smoke to IEC 61034
- Flame retardant and non corrosive to IEC 60754-2 (FRNC)
- Metal free therefore no ground loop or potential equalization issues.
- LC, FC, SC, ST® compatible and MT-RJ connectors: to TIA/EIA-604 -10, -4, -3, -2, -12 respectively

Characteristics of MT-RJ connector

Connector type	MT-RJ/f*
Ferrule	Composite
Connector housing	Composite
Colour:	Connector housing / Connector boot*
OM3 (MM 50µm)	Black / Aqua on MiniMIC cable Black / Black on MiniZip cable
OM2 (MM 50µm)	Black / Black
OM1 (MM 62.5µm)	Beige / Black
OS2 (SM 9µm)	Blue / Black
Connector insertion loss (MM): Typ/Max.	0.35 / 0.50dB
Connector insertion loss (SM): Typ/Max.	0.5 / 0.75dB
Back reflection (SM): Typical	≤ -53 dB
Durability change per FOTP-21	≤ 0.3 dB, 1000 rematings
Max.Tensile load on connector	44 N on MiniMIC and MiniZip cables
Temperature cycling	Typ. ΔIL ≤ 0.75 dB temperature range -40°C to +75°C

*Standard for patchcords are the female connectors (without pins), for patchcords with male connectors contact our customer service.

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Mechanical Characteristics – Jumper cable

Temperature range	Laying and installation Operation Transport and storage			[°C]			-5 to +50 -20 to +60 -25 to +70		
Cable type	Fibre count	Cable Ø [mm]	Weight [kg/km]	Min. bend radius* installation [mm] Ultra-Bend & Standard	Min. bend radius* operation [mm] Ultra-Bend	Min. bend radius* operation [mm] Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
MiniMIC, 2 fibres, 2.9mm, round cable. MT-RJ to MT-RJ patchcords									
J-VH 1x2	2	2.9	8.0	45	15	30	200	1000	0.20
MiniZip, 2 fibres, 2 x 1.8mm, duplex cable. MT-RJ to other connector, hybrid patchcords									
J-VH 2x1	2	1.8 x 3.7	6.0	30	10	30	150	1000	0.11

Colour of outer sheath according to fibre class:

OM1, OM2 - Orange
OM3, OM4 - Aqua

Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – Max (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – Typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**K**	**B**	**T**	**Q**	**R**

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Ordering information:

1	2		3	4
□□	□□	02	□□□□□	□□□M

1 Select connector 1st end*

97 = MT-RJ/f (w/o pins), Multimode
98 = MT-RJ/f (w/o pins), Single-mode

*In case of a pigtail (one end open) use „00“ in position A.

2 Select connector 2nd end

97 = MT-RJ/f (w/o pins), Multimode
98 = MT-RJ/f (w/o pins), Single-mode
For hybrid MT-RJ patchcords, use connector codes from standard patchcords datasheet.

3 Select fibre type and cable type
MiniMIC 2.9mm round cable (for MT-RJ to MT-RJ)
Q8ZM2 = ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
T8ZM2 = ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
B8ZM2 = ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
K8ZM2 = Infinicor 300 OM1 62.5µm
R8ZM2 = SMF-28e+ OS2 E9
(Continued next column)

3 Select fibre type and cable type (cont'd.)
MiniZip 2 x 1.8mm cable (for hybrid patchcords: MT-RJ to other connector style)
Q5Z18 = ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
T5Z18 = ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
B5Z18 = ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
K5Z18 = Infinicor 300 OM1 62.5µm
R5Z18 = SMF-28e+ OS2 E9

4 Select overall length

001- 999 meter

Example: 059702T5Z180002M
Type designation: MT-RJ without pins to LC Duplex patchcord, MiniZip (2 x 1.8mm) cable with 2 G50 ClearCurve OM3 Pretium 300 fibres, FRNC, aqua sheath. Cable length 2m.

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roduct Family: LANscape® cable assemblies

Product: **MTP patchcords**

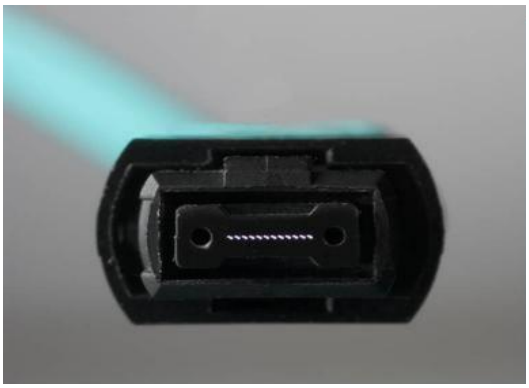
Fibre: **All Fibre Types**

Application

For non-permanent connections between patch panels, transmission equipment etc. patch cables are used. Pre-assembled cables allow for the implementation of complete „plug & play“ solutions. When such a solution is adopted with accurate dimensioning and appropriate cable routing, it is possible to install even large cabling systems rapidly.

Features

- Iindoor cable with 12 fibres in micro modules and dielectric strength members.
- Halogen free (LSZH) and low smoke to IEC 61034 and EN 50286
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Non corrosive to IEC 60754-2 (FRNC) and EN 50267
- Dielectric therefore no ground loop or potential equalization issues.
- Completely dry construction
- MTP connector: to ANSI HIPPI-6400, IEC 61754-7, TIA/EIA-604-5 (FOCIS)
- Standard MTP patchcord polarity ensures fibre 1 (blue) is in ferrule hole #1 on both sides; straight polarity.



Characteristics of connectors and boots

Connector type:	**MTP/MM** male / with pins*	**MTP/MM** female / w/o pins	**MTP/SM** male / with pins*	**MTP/SM** female / w/o pins
Ferrule:	Composite	Composite	Composite	Composite
Housing:	Composite	Composite	Composite	Composite
Connector code	**70**	**69**	**89**	**90**
Colour: Housing / Boot				
OM1:	Black–beige / Black		-	
OM2:	Black / Black		-	
OM3, OM4:	Black / Aqua		-	
OS2 /APC:	-		Black–green / Black	
Insertion loss:				
Standard Performance	0.5 dB		0.75dB	
Low-Loss Peroformance	0.35dB		N / A	
Back reflection	≤ -20 dB		≤ -65 dB (APC)	
Durability	≤ 0.2 dB, 200 rematings			
Max. tensile load on connector	10 N round interconnect cable			
Temperature cycling	Typical ≤ 0.3 dB change @ temperature range -40°C to 75°C			

*Normally, patchcables connecting to transceiver are terminated with female connector (w/o pins).

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Mechanical Characteristics – Jumper cable

Data Centre Cable, 12 fibres, 3.5mm, round cable. MTP to MTP patchcords

Temperature range	Laying and installation Operation Transport and storage			[°C]			-5 to +50 -20 to +60 -25 to +70		
Cable type	Fibre count	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] All fibres	Min. bend radius operation [mm] Ultra-Bend	Min. bend radius operation [mm] OM1, OS2	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible	Fire load [MJ/m]
J-B(ZN)H 1x(1x12)	12	3.5	10.6	35	17.5	35	200	750	0.48

Colour of outer sheath according to fibre class:

OM1, OM2 - Orange
OM3, OM4 - Aqua

Optical characteristics (values cabled)

Fibre type	**G62.5L/125 Infinicor 300**	**G50/125 Pretium 150 ULTRA-BEND 7.5**	**G50/125 Pretium 300 ULTRA-BEND 7.5**	**G50/125 Pretium 550 ULTRA-BEND 7.5**	**E9/125**
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – Max (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.38/0.38/0.25
Attenuation – Typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	**K**	**B**	**T**	**Q**	**R**

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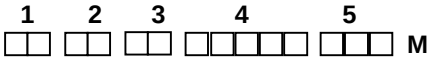
Ordering information:



1 Select connector 1st end*

69 = MTP/f (w/o pins), MM
70 = MTP/m (w/pins), MM
90 = MTP/f (w/o pins), SM
89 = MTP/m (w/pins), SM
*In case of a pigtail (one end open) use „00“ in position A.

2 Select connector 2nd end

Choose from options for 1st end

3 Select fibre count

04 = 4 fibre
08 = 8 fibre
12 = 12 fibre

4 Select fibre type

Data Centre Cable, 3.5mm, round

QEZ80 = ClearCurve OM4 Pretium 550 Ultra Bend 7.5
TEZ80 = ClearCurve OM3 Pretium 300 Ultra Bend 7.5
BEZ80 = ClearCurve OM2 Pretium 150 Ultra Bend 7.5
KEZ80 = Infinicor 300 OM1 62.5µm
REZ80 = SMF-28e+ OS2 E9

5 Select overall length

001- 999 meter

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5 Hardware

5.1. CCHE - Connector Panel Product Family

5.1.1. CCHE-CP

5.1.2. PCH

5.1.3. PCH-M3

5.1.4. CCH

5.1.5. WCH

5.1.6. EDC

5.1.7. FZB

5.1.8. CCH Bracket

5.2. LANscape Product Family

5.2.1. LANscape Modular

5.2.2. LANC

5.2.3. LANscape Modular Adapters

5.3. FCS

5.4. IPOC

5.5. Outlets

5.6. Splice Accessories

CORNING

RoHS COMPLIANT

Data sheet
CCHE-CPXX-XX / March 2007

Product Family: **LANscape® Hardware Solutions**

Product: **CCHE Closet Connector Housings Panels**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF 28e™ OS1/OS2**

Applications

The panels are used with field-installable connectors or in applications where the pre- connectorized cables are routed directly from the equipment to the piece of interconnect hardware provides an efficient way to securely mate two or more connectors

12-Fiber ST® Compatible Connector Panel

Description

Closet Connector Housing Panels are offered in 6-, 8-, 12-, 16- and 24-fiber panels for use with the LANscape® Solutions hardware products. The panels are used with field-installable connectors or in applications where the pre- connectorized cables are routed directly from the equipment to the inter-connect hardware. The panels are available with a variety of industry-standard adapter types. In most applications, the Closet Connector Housing Panels are designed for applications where specified labelling and connector identification are required. This is accomplished by the use of coloured icons with different symbols molded into the icon.

12-Fiber SC Duplex Panel

Features / Benefits

Designed to accommodate all industry-standard adapter types unique colour-coded connector labelling system Universal approach is used; one panel size fits in all standard LANscape® Solutions hardware Available in 6-, 8- and 12-fiber count options in most adapter styles; 16- and 24-fiber count options available in MT-RJ and LC-duplex styles Also available for copper modules 12-Fiber ST® Compatible Connector Panel, 12-Fiber SC Duplex Panel 24-Fiber MT-RJ Connector Panel

24-Fiber MT-RJ Connector Panel

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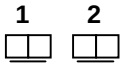
Ordering information:
CCHE – CP = indicates the panel type

CCHE - CP 

Use the following options to construct the part number:

1 Select fibre count

06 = 6 Fibre
08 = 8 Fibre
12 = 12 Fibre
16 = 16 Fibre (*)
24 = 24 Fibre (*)
36 = 36 Fibre (**)
72 = 72 Fibre (**)
E4 = 144 Fibre (**)

* = only LC-Duplex and MT-RJ adapters
** = only MTP adapters

2 Adapter Options:

ST® Compatible
15 = ST MM (OM1/OM2) Threaded metal housing, Ceramic insert, without marking ring
19 = ST SM (OS1/OS2) Threaded metal housing, Ceramic insert, with blue marking ring
E5 = ST MM (OM3) Threaded metal housing, Ceramic insert, with aqua marking ring

FC
11 = FC, Threaded Metal Housing, Ceramic insert

LC Duplex
04 = LC Duplex/UPC SM, Blue, Composite Housing, Ceramic insert
B3 = LC Duplex/APC SM, Green, Composite Housing, Ceramic insert
05 = LC Duplex 62.5/125 OM1, Beige, Composite Housing, Ceramic insert
D3 = LC Duplex 50/125 OM2, Black, Composite Housing, Ceramic insert
E4 = LC Duplex 50/125 OM3, Aqua, Composite Housing, Ceramic insert

E2000
P1 = E2000/APC SM OS1, Green, Composite housing, Ceramic insert
P2 = E2000/UPC SM OS1, Blue, Composite housing, Ceramic insert
P3 = E-2000/PC OM1/OM2 Beige, Composite housing, Ceramic insert

SC Simplex
5C = SC/UPC Simplex SM OS1, Blue, Composite housing, Ceramic insert
6C = SC/APC Simplex SM OS1, Green, Composite housing, Ceramic insert
G6= SC Simplex 50/125 OM2, Black, Composite housing, Ceramic insert
P4 = SC Duplex 50/125 OM2, Black, Composite housing, Metal insert
E6= SC Simplex 50/125 OM3, Aqua, Composite housing, Ceramic insert

SC Duplex
72 = SC/UPC Duplex SM OS1, Blue, Composite housing, Ceramic insert
D9 = SC/APC Duplex SM OS1, Green, Composite housing, Ceramic insert
57 = SC Duplex 62.5/125 OM1, Beige, Composite housing, Ceramic insert
P5 = SC Duplex 50/125 OM2, Black, Composite housing, Metal insert
G7 = SC Duplex 50/125 OM2, Black, Composite housing, Ceramic insert
E7 = SC Duplex 50/125 OM3, Aqua, Composite housing, Ceramic insert

MT-RJ
87 = MTRJ SM OS1 Blue, Composite housing
86 = MTRJ 62.5/125 OM1,White Composite housing
G1 = MTRJ 50/125 OM2, Black Composite housing
E1 = MTRJ 50/125 OM3, Aqua Composite housing

MTP
69 = MTP MM OM1/OM2, Black Composite housing
89 = MTP/UPC SM OS1, Black Composite housing
90 = MTP/APC SM OS1, Black Composite housing
E3 = MTP MM OM3, Aqua Composite housing

Examples:
CCHE-CP24-E4
Type designation: Closet connector panel with 12 LC-Duplex adapters 50µ (OM3), ceramic insert, adapter colour: Aqua

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Product Family: **LANscape® Hardware Solutions**

Product: **PCH-01U, PCH-01U-SPL and PCH-02U, PCH-02U-SPL Pretium™, Connector Housing**

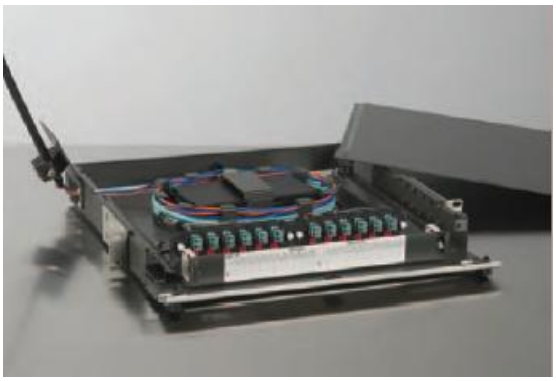
Fibre: **Multimode and Single-Mode Fibres**

Applications

Corning Cable Systems' Pretium-Connector-Housings (PCH) provide main cross-connect, intermediate cross-connects capabilities in telecommunications rooms or data centres, between the outside plant, riser, or distribution cables, and the opto-electronics.

Description

Corning Cable Systems Pretium-Connector-Housings are designed for the LAN and data centre environment. The housings are four inches deeper than standard CCH housings and are shipped with everything the installer needs.
Mountable in 19- or 23-in (optional) equipment racks or cabinets, the housings provide easy, open access to connectors for moves, add´s and changes and for connector cleaning. The 1U housing accepts 2 Corning Cable Systems CCHE connector panels or CCH connector modules. CCHE connector panels and CCH modules are available in a wide variety of port counts depending on connector style. Blank panels are provided in unused positions to give a finished look. The PCH-01U housing contains an integral jumper manager on the front of the housing. The PCH-01U housing has a removable top that slides forward with the simple release of two latches, providing unencumbered access to interior components. The drawer slides forward or backward for easy access to the interior after installation.



PCH-01U with removed cover and splice tray

PCH-01U with removed cover and Plug & Play Hybrid Cable

Features / Benefits

- Optional splicing available in all units
- Deeper housings provide extra room for high cable counts and Corning Cable Systems Plug & Play™ Systems
- Large fibre guides in front contain patch cords
- Connector labelling optimized for use with machine-generated labels and Microsoft®Word templates
- Front and rear removable doors (optional locks available)
- Rugged metal construction
- Units include patented Universal Cable Clamp for cable strain-relief
- Fibre capacity: PCH-01U = 48 fibres, PCH-02U = 96 fibres (using LC or MT-RJ connectors)
- Accepts CCHE panels and CCH modules (panels or the reduced-depth module design must be used when splicing)

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Specifications

Part Number	Dimensions H x W x D cm (in)	Shipping Weight kg (lb)
PCH-01U	4.5 x 43.2 x 41.0 (1.75 x 17.00 x 16.00)	5.0 (11.0)
PCH-01U-SPL	4.5 x 43.2 x 41.0 (1.75 x 17.00 x 16.00)	5.5 (12.0)
PCH-02U	9 x 43.0 x 42.0 (3.5 x 17.00 x 16.5)	5.7 (12.6)
PCH-02U-SPL	9 x 43.0 x 42.0 (3.5 x 17.00 x 16.5)	6.2 (13.6)

PCH-01U & PCH-01U-SPL
Pretium Connector Housing, 1U tall, accepts up to 2 CCHE connector panels or CCH reduced depth modules, supplied with one Universal Cable Clamp, 2 blank panels and installation hardware. Capacity: 24 fibres for SC, ST, FC or 48 fibres with LC or MTRJ connectors.

PCH-02U & PCH-02U-SPL
Pretium Connector Housing, 1U tall, accepts up to 4 CCHE connector panels or CCH reduced depth modules, supplied with one Universal Cable Clamp, 4 blank panels and installation hardware. Capacity: 48 fibres for SC, ST, FC or 96 fibres with LC or MTRJ connectors.

Accessories

Part Number	Description	Qty per Delivery Unit
PCH-01U	Pretium connector housing 1U, capacity for 2 CCHE panels. Includes housing, mounting brackets for 19" rack, 1 side-bracket for mounting cables, 1 UCC clamp (see details in UCC clamp below), label for port identification, blanks for connector panels, spiral wrap, routing guides and cable ties for fibre and buffer tube management. Order CCHE connector panels or Plug & Play modules separately.	1/1
PCH-01U-SPL	Includes above equipped with MFT splice cassette holder. Capacity for 2 cassettes. Order MFT cassettes separately.	1/1
PCH-02U	Pretium connector housing 2U, capacity for 4 CCHE panels. Includes housing, mounting brackets for 19" rack, 1 side-bracket for mounting cables or P&P trunks with U -Clip, 1 UCC clamp (see details in UCC clamp below), label for port identification, blanks for connector panels, spiral wrap, routing guides and cable ties for fibre and buffer tube management. Order CCHE connector panels or Plug & Play modules separately.	1/1
PCH-02U-SPL	Includes above equipped with MFT splice cassette holder. Capacity for 4 cassettes. Order MFT cassettes separately.	1/1
S46998-A4-A60	MFT stackable splice tray for up to 24 single-fibre heat-shrink splice protectors on 2 layers	10/1
S46998-A4-A61	MFT stackable splice tray for up to 24 single-fibre crimp splice protectors on 1 layer	10/1
S46998-A4-A48	MFT splice cover pack	10/1
C46197-K11-C8	MFT splice cover, single	1/1
PCH-LBL-PI10	PCH-01U Master Label provides room to label up to 48 individual fibres per label; one master label per 8-1/2 x 11-in sheet, for ink-based printers only.	10/1
CCH-WALLMNT-KIT	Bracket Kit for wall mounting the CCH housing, 6 rack spaces tall, hinged	1/1
PC1-STRN	PCH-01U Strain-Relief Bracket; will accept up to two Universal Cable Clamp kits (UCC-001)	1/1
UCC-01	Universal cable clamp for 1cable (diameter 9.5-28.5mm) or 5 cables (each with 9-10mm diameter)	1/1
CJP-01U	Closet Jumper Management Panel; provides jumper management in a 4.45 cm rack space, black	1/1

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CJP-02U	Closet Jumper Management Panel; provides jumper management in a 8.9 cm rack space, black	1/1
PC1-LOCK-KIT	Door Lock Kit; can be installed on the front and/or back doors of the PCH-01U; comes with one lock and two keys	1/1
FDC-CABLE-GRND	Armoured Cable Grounding Kit; contains armour grounding clip and ground strap	1/1

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CORNING

Product Family: **LANscape® Hardware Solutions**

Product: **PCH-04U und PCH-04U-SPL Pretium™, Connector Housing**

Fibre: **Multimode and Single-Mode Fibres**

Applications

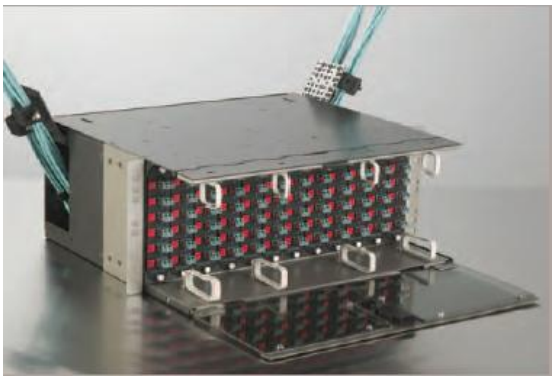
Corning Cable Systems' Pretium-Connector-Housings (PCH) provide main cross-connect, intermediate cross-connects capabilities in telecommunications rooms or data centres, between the outside plant, riser, or distribution cables, and the opto-electronics.

Description

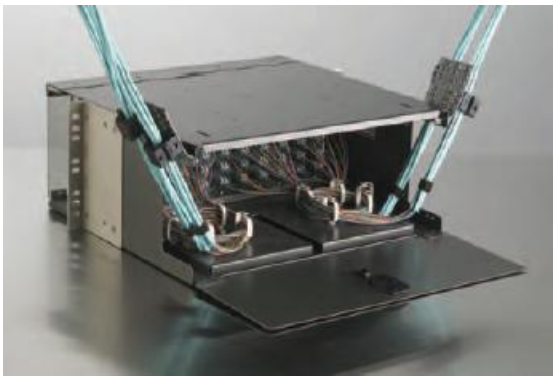
Corning Cable Systems Pretium-Connector-Housings are designed for the LAN and data centre environment. The housings are four inches deeper than standard CCH housings and are shipped with everything the installer needs.
Mountable in 19- or 23-in (optional) equipment racks or cabinets, the housings provide easy, open access to connectors for moves, add´s and changes and for connector cleaning. The 4U housing accepts 12 Corning Cable Systems CCHE connector panels or CCH connector modules. CCHE connector panels and CCH modules are available in a wide variety of port counts depending on connector style. Blank panels are provided in unused positions to give a finished look. The PCH-04U housing contains an integral hinged jumper manager on the front of the housing. This manager can be locked in the "up" position for an additional 1U of horizontal jumper management or left in the default "down" position to provide additional capacity for jumper routing along the top of the housing. The PCH-04U housing has a removable top that slides forward with the simple release of two latches, providing unencumbered access to interior components. The drawer slides forward or backward for easy access to the interior after installation.

Features / Benefits

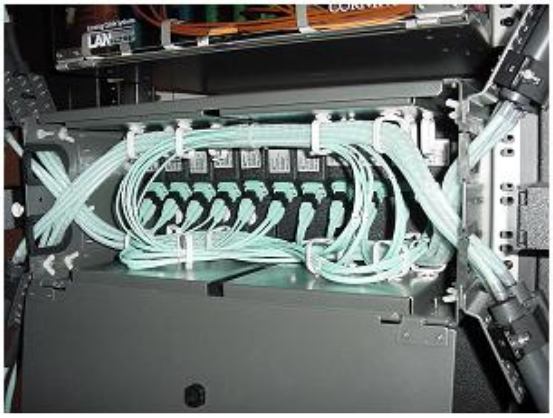
- Optional splicing available in all units
- Large fibre guides in front contain patch cords
- Connector labelling optimized for use with machine-generated labels and Microsoft®Word templates
- Front and rear removable doors (optional locks available)
- Grommet cable entries keep dust out of the PCH-04U
- Integrated, hinged jumper manager
- Units include patented Universal Cable Clamp for cable strain-relief
- Fibre capacity: PCH-04U = 288 fibres (using LC or MT-RJ direct termination; 144 when splicing),



Close-up of PCH-04U Integrated Jumper Manager



Close-up of PCH-04U Cable Entry



PCH-04U-EU-RH full equiped with 12 CCH LC-Duplex P&P Modules OM3 , integrated cable management

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Specifications

Part Number	Dimensions H x W x D cm (in)	Shipping Weight kg (lb)
PCH-04U	18.0 x 43.2 x 41.0 (7 x 17 x 16)	7.5 (16.5)
PCH-04U-SPL	18.0 x 43.2 x 41.0 (7 x 17 x 16)	9.5 (20.9)

PCH-04U
Pretium Connector Housing, 4U tall, accepts up to 12 CCHE connector panels or CCH reduced depth modules, supplied with one Universal Cable Clamp, 12 blank panels and installation hardware
Twelve 6-fiber panels = 72 fibre total capacity;
Twelve 8-fiber panels = 96 fibre total capacity;
Twelve 12-fiber panels = 144 fibre total capacity;
Twelve 16-fiber panels = 192 fibre total capacity; (MT-RJ and LC)
Twelve 24-fiber panels = 288 fibre total capacity; (MT-RJ and LC)
Twelve 72-fibre panels = 864 fibre total capacity (MTP only)
Twelve 144-fibre panels = 1728 fibre total capacity (MTP only)

PCH-04U-SPL
Pretium Connector Housing, 4U tall, accepts up to 12 CCHE connector panels, supplied with one Universal Cable Clamp, 12 blank panels and installation hardware and tray holder for 12 MFT splice trays 288 fibre total capacity

Accessories

Part Number	Description	Quantity per Delivery Unit
CJP-01U	Closet Jumper Management Panel; provides jumper management in a 4.45 cm rack space	1/1
CJP-02U	Closet Jumper Management Panel; provides jumper management in a 8.9 cm rack space	1/1
PC4-LBL-PI10	PCH-04U Master Label provides room to label up to 288 individual fibres per label; one master label per 8-1/2 x 11-in sheet, for ink-based printers only.	1/10
PC4-STRN	PCH-04U Strain-Relief Bracket; will accept up to two Universal Cable Clamp kits (UCC-001)	1/1
UCC-001	Universal Cable Clamp Strain-Relief Kit; to be used with PC1-STRN	1/1
PC4-SLK	Rear Slack Storage Bracket for PCH-04U; installed in the rear of the housing for additional slack storage; one supplied with PCH-04U	1/1
HDWR-LOCK-KIT	Door Lock Kit; can be installed on the front and/or back doors of the PCH-04U; comes with one lock and two keys	1/1
PC4-BKT-FLSH	Flush Mount Brackets for PCH-04U	1/1
PC4-BKT-23	Mounting Brackets for 23-in frames/cabinets for PCH-04U	1/1
PC4-SLK-D24	Accessory Unit attached to the rear of the PCH-04U providing fibre cable storage in 24 circular cassettes	1/1

RoHS COMPLIANT

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CORNING

Data sheet
PCH-M3-1U/ March 2007

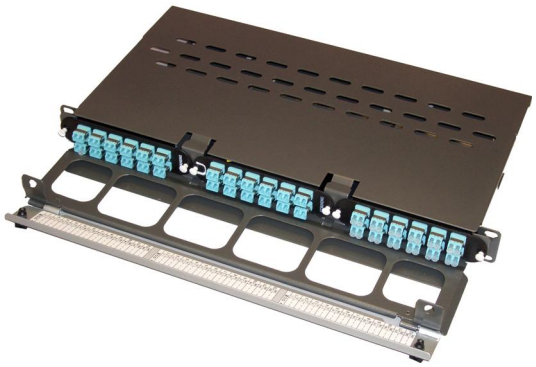
Product Family: **LANscape® Hardware Solutions**

Product: **PCH Pretium™ 3-Module Housing**

Fibre: **Multimode and Single-Mode Fibres**

Applications

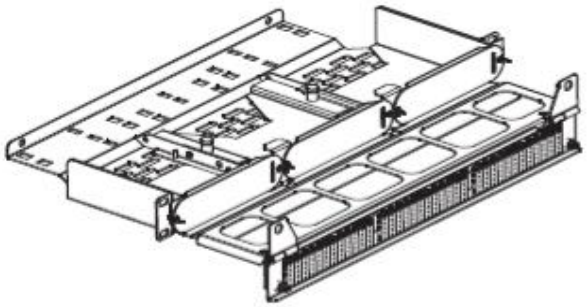
Corning Cable Systems' Pretium-Connector-Housings (PCH) provide main cross-connect, intermediate cross-connects capabilities in telecommunications rooms or data centres, between the outside plant, riser, or distribution cables, and the opto-electronics.



PCH-M3-1U fully loaded with LC P&P Modules

Description

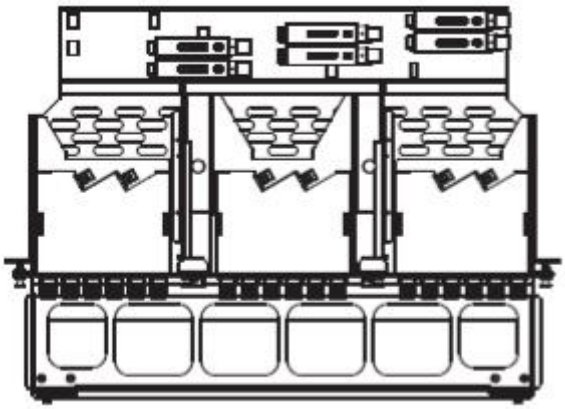
Corning Cable Systems Pretium-Connector-Housings are designed for the LAN and data centre environment. The housings are two inches deeper than standard CCH housings and are shipped with everything the installer needs.
Mountable in 19- or 23-in (optional) equipment racks or cabinets, the housings provide easy, open access to connectors for moves, add´s and changes and for connector cleaning. The 1U housing accepts 3 Corning Cable Systems CCHE connector panels or CCH reduced-depth P&P Universal System Modules. CCHE connector panels and Modules are available in a wide variety of port counts depending on connector style. Blank panels are provided in unused positions to give a finished look. The PCH-M3-1U housing contains an integral jumper manager on the front of the housing. This new 3-module housing is designed to integrate with Corning Cable Systems Plug & Play Universal Systems products, which utilize the RJ-clip integration holding six size-zero plugs. The PCH-M3-1U housing has a removable top that slides forward with the simple release of two latches, providing unencumbered access to interior components. The removable rear cover for easy access to the interior after installation.



Pretium 3-Module Housing (PCH-M3-01U), Open | Drawing ZA-2980

Features / Benefits

- Shallow housing depth of 8.75 in allows back-to-back mounting in many cabinets
- Module tray slides forward for ease of access
- Strain-relief provided with RJ-clip Plug & Play Universal Systems integration plugs
- Accepts up to six, size-zero Plug & Play Universal Systems plugs
- Removable rear cover provides additional access to the rear of the modules
- Rugged metal construction
- Fibre capacity: PCH-3M-1U = 72 fibres (using LC or MT-RJ direct termination;
- Accepts CCHE panels and CCH modules



Pretium 3-Module Housing (PCH-M3-01U), Top View | Drawing ZA-2979

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Specifications:

Part Number	Dimensions (H x W x D) cm (in)	Shipping Weight kg (lb)
PCH-M3-01U	45.0 x 48.3 x 34.0 (1.75 x 17.00 x 12.00)	3.85 (5)

Ordering Information

PCH-M3-01U	Pretium Connector Housing, 1U tall, accepts three reduced-depth CCH-style Plug & Play Universal Systems modules supplied with required installation hardware; Plug & Play Universal Systems modules sold separately

Accessories		Quantity per Delivery Unit
PC1-BKT-23	Mounting Brackets for a 23 in frame or cabinet (one set)	1/1
CDF-RJ-BKT	Frame-Mounted, RJ-Clip Bracket (two); each 14.60 x.3.43 x 2.03 cm and accepts one size-zero or size-one RJ-clip plug	1/1

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CORNING

Product Family: **LANscape® Hardware Solutions**

Product: **CCH-01U & CCH-02U Closet Connector Housings**

Fibre: **Multimode and Single-Mode Fibres**

Applications

Corning Cable Systems' Closet Connector Housings (CCH) provide interconnect or cross-connect capabilities between the outside plant, riser, or distribution cables, and the opto-electronics.

Description

The units can be rack-mounted in 19-in (48 cm) or 23-in (58 cm) equipment racks (1.75-in (4.45 cm) EIA/TIA hole spacing) and are available in one rack space (two connector panels) or two rack spaces (four panels). Closet Connector Housings can be ordered with connector panels for multimode and single-mode applications. Connector panels are offered in 6-, 8-, 12-, 16- and 24-fiber configurations. Documentation labels are provided and units or components can be added as needed to construct a fibre distribution frame for any application.

Features / Benefits

Ideal for field connectorization Suitable for loose tube, tight-buffered and optical fibre ribbon cables Mounting configurations include standard 4.5-in (11.4 cm) frontal projection, partially flush and flush mount Multiple locations for jumper egress Accepts CCH connector panels or modules Slide-out drawer for easy connector access Lock can be field-installed meets requirements of ANSI/TIA/EIA-568A and 606 Brackets included for rack mounting in 19-in (48 cm) or 23-in (58 cm) equipment racks.

Closet Connector Housing, CCH-01U

Closet Connector Housing, CCH-02U

Bracket Kit for Wall Mounting, CCH-WALMNT-KIT

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Specifications:

Part Number Dimensions	(H x W x D) cm (in)	Shipping Weight kg (lb)
CCH-01U	4.4 x 43.2 x 30.5 (1.75 x 17 x 12)	2.3 (5)
CCH-02U	8.9 x 43.2 x 30.5 (3.5 x 17 x 12)	2.7 (6)

Ordering information:

Part Number Description

CCH-01U
Closet Connector Housing that will accept up to two CCH panels;
comes with blank panels and hardware to strain-relieve one cable
with the Universal Cable Clamp (UCC) or up to five 1 cm (0.4-in)
or smaller cables with the UCC insert;
Two 6-fiber panels = 12 fibre total capacity;
Two 8-fiber panels = 16 fibre total capacity;
Two 12-fiber panels = 24 fibre total capacity;
Two 16-fiber panels = 32 fibre total capacity;
Two 24-fiber panels = 48 fibre total capacity (MT-RJ and LC)
Two 72-fibre panels = 144 fibre total capacity (MTP only)
Two 144-fibre panels = 288 fibre total capacity (MTP only)

CCH-02U
Closet Connector Housing that will accept up to four CCH panels;
comes with blank panels and hardware to strain-relieve one cable
with the Universal Cable Clamp (UCC) or up to five 1 cm (0.4-in)
or smaller cables with the UCC insert;
Four 6-fiber panels = 24 fibre total capacity;
Four 8-fiber panels = 32 fibre total capacity;
Four 12-fiber panels = 48 fibre total capacity;
Four 16-fiber panels = 64 fibre total capacity;
Four 24-fiber panels = 96 fibre total capacity (MT-RJ and LC)
Four 72-fibre panels = 288 fibre total capacity (MTP only)
Four 144-fibre panels = 576 fibre total capacity (MTP only)

Accessories

CCH-1U-LBL	Replacement Label Kit for the CCH housing (1-rack-space housing); contains 10 labels
CCH-2U-LBL	Replacement Label Kit for the CCH housing (2-rack-space housing); contains 10 labels
CCH-WALLMNT-KIT	Bracket Kit for wall mounting the CCH housing, 6 rack spaces tall, hinged
CCH-UCC-KIT	One Bracket and Two Universal Cable Clamps (UCCs); each housing is shipped with one bracket and two UCCs; an additional bracket and UCC can be added
CJP-01U	Closet Jumper Management Panel; provides jumper management in a 1.75-in (4.45 cm) rack space
CJP-02U	Closet Jumper Management Panel; provides jumper management in a 3.5-in (8.9 cm) rack space
HDWR-LOCK-KIT	Lock Kit for front door of housing; contains one lock with two keys
FDC-CABLE-GRND	Armoured Cable Grounding Kit; contains armour grounding clip and ground strap

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CORNING

Product Family: **LANscape® Hardware Solutions**

Product: **CCH-03U & CCH-04U Closet Connector Housings**

Fibre: **Multimode and Single-Mode Fibres**

Applications

Corning Cable Systems' Closet Connector Housings (CCH) provide interconnect or cross-connect capabilities between the outside plant, vertical, or horizontal distribution cables, and the end equipment.

Description

The units can be rack-mounted in 19-in (48 cm) or 23-in (58 cm) equipment racks (1.8-in (4.5 cm) TIA hole spacing) and are available in three-rack-space (6 panels) or four rack-space (12 panels) versions. For installations requiring 144 fibres, the capacity can be achieved using SC simplex, SC duplex, LC and MT-RJ connectors for 12 fibres per panel in conjunction with the 4-rack-space housing. For installations requiring up to 288 fibres, the capacity can be achieved using LC and MT-RJ connectors with 24 fibres per panel in conjunction with the 4-rack-space housing. Closet Connector Housings can be ordered with connector panels for multimode and single-mode applications. Connector panels are offered in 6-, 8-, 12-, 16- and 24-fibre configurations. Documentation labels are provided and units or components can be added as needed to construct a fibre distribution frame for any application. The CCH has been designed with an open top, located in the front of the housing in the 3- and 4-rack-space versions of the design. The opening, when used in conjunction with the Closet Jumper Management Panel (CJP), facilitates jumper routing.

Features / Benefits

Ideal for field connectorization and suitable for loose tube, tight-buffered and optical fibre ribbon cables. Rack mounting configurations include standard 4.5-in (11.4cm) frontal projection, partially flush- and flush-mount to allow jumper routing. Removable, durable, clear polycarbonate-tinted front door (CCH-03U and CCH-04U)

Closet Connector Housing, CCH-03U

Closet Connector Housing, CCH-04U

Bracket Kit for Wall Mounting, CCH-WALMNT-KIT

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Specifications:

Part Number	Dimensions (H x W x D) cm (in)	Shipping Weight kg (lb)	Delivery scope
CCH-03U	13.3 x 43.2 x 30.5 (5.3 x 17.0 x 12.0)	2.7 (6.0)	1/1
CCH-04U	17.8 x 43.2 x 30.5 (7.0 x 17.0 x 12.0)	3.8 (8.0)	1/1

CCH-03U
Closet Connector Housing that will accept up to six CCH panels or modules; delivered with blank panels and hardware to strain-relieve two cables with the Universal Cable Clamp (UCC) or up to ten 1 cm (0.4-in) or smaller cables with the UCC insert.
Six 6-fibre panels = 36 fibre total capacity;
Six 8-fibre panels = 48 fibre total capacity;
Six 12-fibre panels = 72 fibre total capacity;
Six 16-fibre panels = 96 fibre total capacity (MT-RJ, LC-Duplex only);
Six 24-fibre panels = 144 fibre total capacity (MT-RJ, LC-Duplex only)
Six 72-fibre panels = 432 fibre total capacity (MTP only)
Six 144-fibre panels = 864 fibre total capacity (MTP only)

CCH-04U
Closet Connector Housing that will accept up to 12 CCH panels or modules; delivered with blank panels and hardware to strain-relieve two cables with the Universal Cable Clamp (UCC) or up to ten 1 cm (0.4-in) or smaller cables with the UCC insert;
Twelve 6-fibre panels = 72 fibre total capacity;
Twelve 8-fibre panels = 96 fibre total capacity;
Twelve 12-fibre panels = 144 fibre total capacity;
Twelve 16-fibre panels = 192 fibre total capacity (MT-RJ, LC-Duplex only);
Twelve 24-fibre panels = 288 fibre total capacity (MT-RJ, LC-Duplex only)
Twelve 72-fibre panels = 864 fibre total capacity (MTP only)
Twelve 144-fibre panels = 1728 fibre total capacity (MTP only)

Accessories

CJP-01U	Closet Jumper Management Panel; provides jumper management in a 4.45 cm rack space
CJP-02U	Closet Jumper Management Panel; provides jumper management in a 8.9 cm rack space
CCH-3U-LBL	Replacement Label Kit for the CCH housing (3-rack-space housing); contains 10 labels
CCH-4U-LBL	Replacement Label Kit for the CCH housing (4-rack-space housing); contains 10 labels
CCH-WALLMNT-KIT	Bracket Kit for wall mounting the CCH housing, 6 rack spaces tall, hinged
CCH-UCC-KIT	One Bracket and Two Universal Cable Clamps (UCCs); each housing is shipped with one bracket and two UCCs; an additional bracket and UCC can be added; two multi-cable grommets included that accept up to five 1.0 cm diameter cables
HDWR-LOCK-KIT	Lock Kit for front door of housing; contains one lock with two keys
CCH-TOP-CVR	Patch Field Cover that covers top opening in CCH-03U and CCH-04U housings
FDC-CABLE-GRND	Armoured Cable Grounding Kit; contains armour grounding clip and ground strap

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RoHS COMPLIANT

Product Family: **LANscape®, Hardware solutions**

Product: **WCHE wall-mountable connector housing**

Fibre: **Multimode and Single-Mode Fibres**

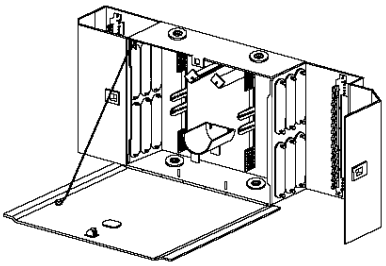
Application

Corning Cable Systems' wall-mountable connector housings provide interconnect or cross-connect capabilities between the outside plant, riser, or distribution cables and the opto-electronics.

Wall mountable connector housings WCHE

Description

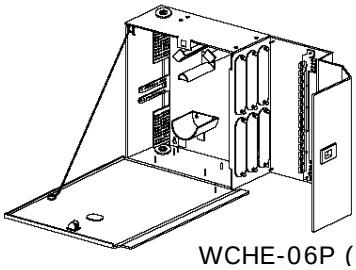
The units can be wall-mounted in main cross-connect or telecommunication rooms, and are available in different version with different capacities: 2 CCHE panels, 4 CCHE panels, 6 CCHE panels and 12 CCHE panels. All versions provide separate access to provider's and user's areas.
Optional accessories such as the wall-mountable jumper srorage guide kit (WJG-02R) and cable strain relief kit (WCH-STRNRLF-KIT) have been designed to make your wall-mounable product installation easier. The standoff bracket (WCH-STDOFF-BKT) is designed to extend the WCHE housing from the wall so that the cables can be routed behind the units. Brackets can be stacked to allow a larger space behind the units.



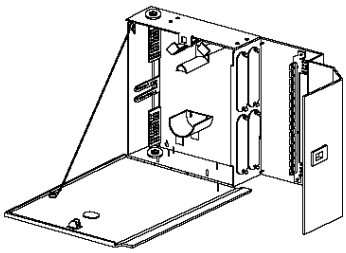
WCHE-12P (up to 288 fibres)

Features / Benefits

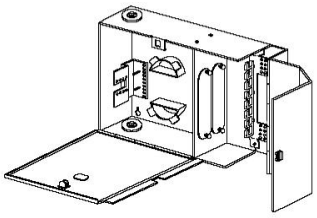
- Optimized design for field connectorization.
- Suitable for loose tube, tight buffered and ribbon fibre optic cables.
- Metal housing construction.
- Jumper routing guides and jumper strain relief points.
- Optional field-installable lock kit (for central door only).
- Include bracket for buffer tube fan-out kits.
- Optional pivoting splice tray holders (to be ordered separately) allow easy cable routing and is designed to make field splicing easier. Splice trays must be ordered separately.
- Accept standard CCHE connector panels (to be ordered separately). CCHE panels are available for 6, 8, 12, 16*, 24* and 72** fibre terminations for most commonly used connector types.
- -04P, -06P and -12P housings have a durable, clear polycarbonate-tinted jumper door for easy viewing of jumper connections.



WCHE-06P (up to 144 fibres)



WCHE-04P (up to 96 fibres)



WCHE-02P (up to 48 fibres)

* 16 and 24 fibres configurations are available only with LC duplex and MT-RJ adapters.
** 72 fibres configuration is available only with MTP adapters.

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Specifications

Order number	Dimensions (HxWxD) cm	Shipping weight kg
WCHE-12P	34.3 x 57.1 x 13.0	7.8
WCHE-06P	34.3 x 40.8 x 13.0	5.8
WCHE-04P	34.3 x 40.8 x 10.3	5.2
WCHE-02P	23.5 x 33.2 x 8.2	3.5

Order information:

Description	WCHE for up to 12 CCHE panels*	WCHE for up to 6 CCHE panels*
Quantity per delivery unit	1/1	1/1
Order number	**WCHE-12P**	**WCHE-06P**

Description	WCHE for up to 4 CCHE panels*	WCHE for up to 2 CCHE panels*
Quantity per delivery unit	1/1	1/1
Order number	**WCHE-04P**	**WCHE-02P**

*CCHE connector panels must be ordered separately, refer to CCHE connector panels datasheets.

Optional equipment: Splice tray holders

Order number	Description
WCHE-SPLC-4-6-12*	Splice tray holder for WCHE-12P, WCHE-06P and WCHE-04P units; accommodates up to 6 MFT splice trays with a capacity of up to 24 splice protectors each.
WCHE-SPLC-2P*	Splice tray holder for WCHE-02P unit; accommodates up to 2 standard splice trays with a capacity of up to 12 splice protectors each.

Optional accessories:

Part Number	Description
WCH-SSH-4-12*	Wall-mountable slack storage housing for WCHE-12P, WCHE-06P and WCHE-04P units; accommodates up to 4 metal splice trays 0.4-in thick (type 4R or 4S) or up to 8 metal splice trays 0.2 -in thick (type 2R or 2S).
WCH-SSH-2*	Wall-mountable slack storage housing for WCHE-02P unit; accommodates up to 2 metal splice trays 0.4-in thick (type 4R) or up to 4 metal splice trays 0.2-in thick (type 2R).
WJG-02R	Wall-mountable jumper storage guides, provide jumper management. Kit includes mounting screws.
WCH-STRNRLF-KIT	External cable strain relief kit: includes bracket with UCC cable clamp with inserts for 1 cable (9.65 to 25.40 mm diameter) and one multi-cable insert for 5 cables up to 10 mm diameter. Kit includes mounting hardware.
WCH-STOFF-BKT	Wall stand-off bracket for WCHE-12P, WCHE-06P and WCHE-04P housings; provides a 2.54 cm spacing from wall.
WCH-STOFF-BKT-2P	Wall stand-off bracket for WCHE-02P housing; provides a 2.54 cm spacing from wall.
HDE-WR-LOCK-KIT	Field installable lock for central door only; includes one lock and two keys.
WCH-DUST-CVR-D	Dust cover for WCHE-12P and WCHE-06P housings; includes mounting hardware. Covers two jumper exits; two kits are required for the WCHE-12P housing.
WCH-DUST-CVR	Dust cover for WCHE-04P housing; includes mounting hardware.
WCHE-LBL-KIT	Replacement label kit for WCHE housings.
BKT-ALL-R23-75	Universal rack-mount bracket for 19-in. or 23-in. equipment racks.

*Splice trays and related equipment must be ordered separately, refer to splice trays datasheets.

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CORNING

Datasheet
EDC-xxP / August 2008

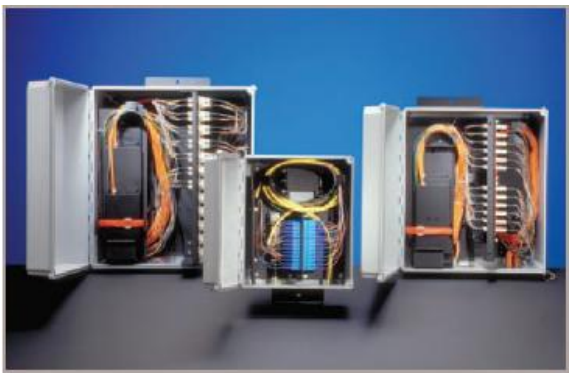
Product Family: **LANscape®, Hardware solutions**

Product: **Environmental Distribution Centre EDC**

Fibre: **Multimode and Single-Mode Fibres**

Application

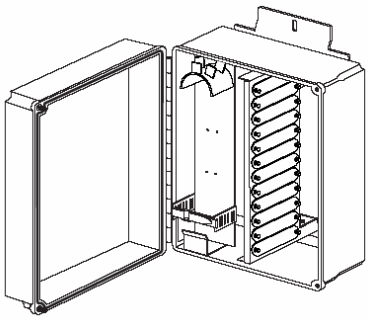
Corning Cable Systems' environmental distribution centre housings are suitable for backbone cabling termination in harsh environmental conditions such as in industrial or outdoor applications.



Environmental distribution centre

Description

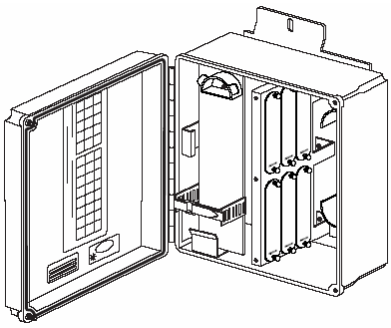
The EDC units are designed for the storage and protection of fibre optic connections and splices in indoor or outdoor environments, and are ideal for industrial, marine security or traffic control applications. The EDC units are available in different version with different capacities: 2 CCHE panels, 6 CCHE panels and 12 CCHE panels. All versions are provided with a splice tray holder and brackets for mounting to a wall or a pole.
Optional accessories for the EDC units includes various high rated cable/conduit fittings, a grounding kit and a rack mounting bracket.



EDC-12P-NH (up to 144 fibres)

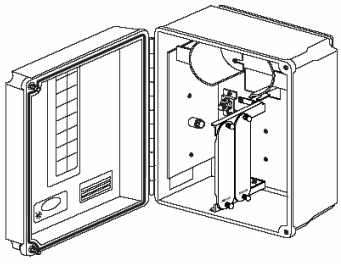
Features / Benefits

- Composite construction offers outstanding chemical, temperature ad weather resistance.
- Low smoke, zero halogen housing material.
- NEMA 4X and IEC IP66 rated.
- Unit is easy to punch, drill, file or saw, for an easy and flexible cable installation.
- Cover can be secured with corrosion-resistant, captive screws or quick-release latches.
- If additional security is required an user-supplied padlock can be installed
- Unit accommodate metal splice trays (0.4-in. or 0.2-in. thick) suitable for a variety of splicing techniques including fusion and mechanical splicing.
- Accept standard CCHE connector panels (to be ordered separately). CCHE panels are available for 6, 8, 12, 16*, 24* and 72** fibre terminations for most commonly used connector types.
- Suitable for loose tube, tight-buffered and ribbon fibre optic cable.
- Brackets for wall or pole mounting are included.



EDC-06P-NH (up to 72 fibres)

* 16 and 24 fibres configurations are available only with LC duplex and MT-RJ adapters.
** 72 fibres configuration is available only with MTP adapters.



EDC-02P-NH (up to 24 fibres)

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Specifications

Order number	Dimensions (HxWxD) cm	Shipping weight kg	Splice tray capacity 0.2-in. / 0.4-in.*
EDC-12P-NH	47.2 x 42.2 x 26.2	12.7	12 x 2S type / 6 x 4S or 4A type*
EDC-06P-NH	41.9 x 36.8 x 21.1	9.1	6 x 2S type / 3 x 4S type*
EDC-02P-NH	31.8 x 26.7 x 15.9	4.5	2 x 2R type / 1 x 4R type*

*Splice trays must be ordered separately, refer to splice trays datasheets.

Order information:

Description	EDC for up to 12 CCHE panels*	EDC for up to 6 CCHE panels*	EDC for up to 2 CCHE panels*
Quantity per delivery unit	1/1	1/1	1/1
Order number	**EDC-12P-NH**	**EDC-06P-NH**	**EDC-02P-NH**

*CCHE connector panels must be ordered separately, refer to CCHE connector panels datasheets.

Optional accessories:

Part Number	Description
EDC-2N4-KIT	2 x 2-in. conduit fitting NEMA 4X rated.
EDC-2WT-KIT	2x water tight compression fittings for cable 6.5 to 20.6 mm diameter.
HDWR-GRND -KIT	Hardware grounding kit; includes two ground wires, one sheath ground clip and one ground bus.
BKT-ALL-R23-75	Universal rack-mount bracket for 19-in. or 23-in. equipment racks.

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CORNING

Data sheet
FZB-04U / March 2007

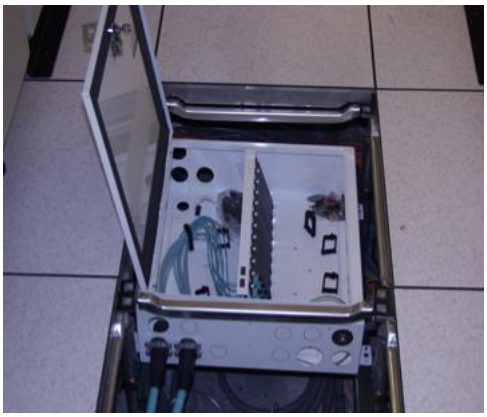
Product Family: **LANscape®, Hardware solutions**

Product: **Fibre Zone Box FZB**

Fibre: **Multimode and Single-Mode Fibres**

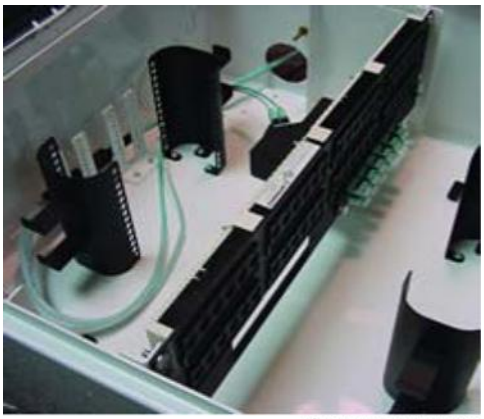
Application

Corning Cable Systems' LAN*scape*® fibre zone box is designed as distribution point for passive applications in LAN and data centre zone cabling systems. It may be installed in drop ceiling openings, under floor in access flooring area or mounted to a wall.
The FZB accepts up to 12 CCHE connector panels or Plug and Play™ Systems modules directly fitted and can be reconfigured to accept up to 4 Future*Link*® front panels 19-in. 1U accepting up to 24 Future*Link*® or Future*Com*® modules each.



Features / Benefits

- Maximum capacity of up to 144 fibers (288 when Small Form Factor connectors: LC or MT-RJ are used) when directly fitted with CCHE connector panels or Plug and Play™ Systems modules.
- Maximum capacity of up to 24 Future*Link*® or Future*Com*® modules when fitted with 19-in. Future*Link*® front panels.
- NEMA 1, 2, 5, 12K rated
- Equipped with key lock
- 12 cable entries 1-in. and 2.5-in. concentric knockouts.
- Possibility of strain relieving up to 24 buffer tube fan-outs
- Suitable for loose tube, tight buffered and ribbon cables



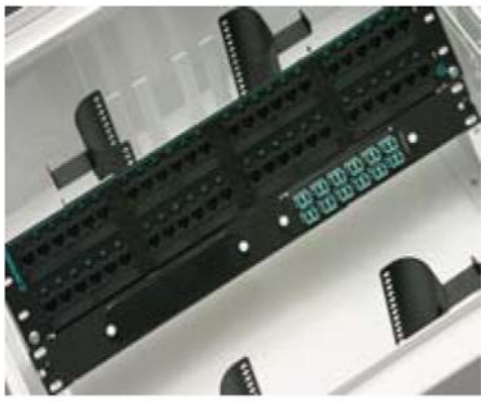
Fiber Zone Box | Photo NS59

Technical data

Dimensions (HxWxD):	54.0 x 54.0 x 21.6 mm
Weight:	6.8 kg

Order information

FZB-04U	Fiber Zone Box for up to 12 CCHE-connector panels or Plug and Play™ Systems modules or 4 x 19-in. 1U front panels



Fiber Zone Box | Photo LAN592

Accessories

UCC-001	Universal cable clamp for strain relief of 1 cable 9.5 to 28.6 mm in diameter
UCC-005	Universal cable clamp for strain relief of 5 cables up to 10 mm in diameter
CPP-01U-PNL	19-in. 1U front panel for up to 2 CCHE connector panels or Plug and Play™ Systems modules
WAXWSV-02400-C002	19-in. 1U Future*Link*® front panel for up to 24 Future*Link*® modules

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CORNING

Data sheet
RBC-02P / March 2007

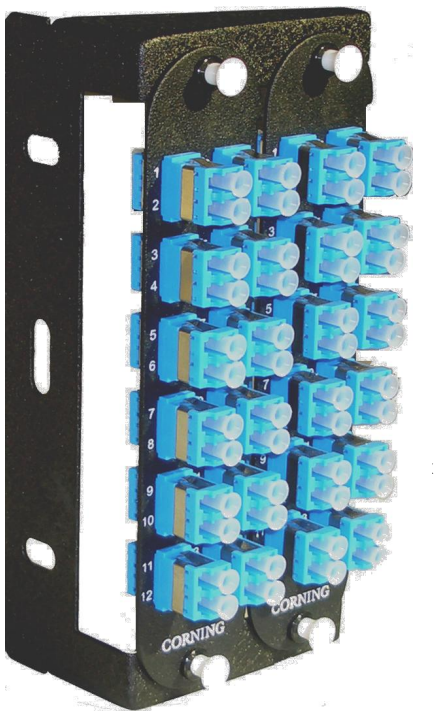
Product Family: **LANscape®, Hardware solutions**

Product: **CCH Subrack for CCHE Panels or Plug & Play System Modules**

Fibre: **Multimode and Single-Mode Fibres**

Application / Description

Corning Cable Systems mountable CCH Subrack provides interconnect or cross-connect capabilities in distribution cabinets or other protected consolidation points. The bracket accepts up to 2X CCHE Connector panels or Plug & Play System modules.



CCH Subrack with 2X12 Port (48 fibre)
LC-Duplex CCHE-Connector Panels OS1/OS2

Features / Benefits

- Optimized design for field connectorization.
- Metal housing construction.
- Accept standard CCHE connector panels (to be ordered separately). CCHE panels are available for 6, 8, 12, 16, 24 and 72 fibre terminations for most commonly used connector types. Please refer to CCHE datasheet
- Accept standard CCH Plug & Play System modules (to be ordered separately). Modules are available for 12 and 24 fibre terminations for most commonly used connector types. Please refer to CCH P&P datasheet
- Please note: The cable has to be fixed separately

Specifications

Order number	Dimensions (HxWxD) cm	Shipping weight kg
RBC-02P	16.5 x 7.3 x 5.1	0.5

Order information:

Description	CCH Subrack for up to 2 CCHE Panels or Plug & Play Modules
Quantity per delivery unit	1/1
Order number	**RBC-02P**

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Product Family: **LANscape® Hardware Lösungen**

Product: **LANS Patch Panel Housing**

Fibre: **All fibre types**

Application

The LAN*scape*® improved LANS patch panel housing was developed for local area network in 19-inch rack applications. This design allows configurations for different connectivity as pre-terminated assemblies, direct terminated field termination, or pigtail splicing. Fibre and copper connectivity can be mixed within the same patch panel.

Description

The LANS patch panel housing is available in either a 1U or 2U version, finished in black or high grade steel.
The drawer, containing patch panel and splice area, is slide able and tilts down to enable easy access to the splice area. Angled cable entries are provided on the rear of the housing to allow the entry of two cables where a metric cable gland can be mounted to strain relief the cable. Plus the additional options for Break-out or Plug&Play trunk entry.
The 1U and 2U housing supply optional Pigtail –or Splice Tray Options with either heat-shrink or crimp splice protectors. The LANS 1U housing can be ordered with a splice box of 4x Standard Splice Trays, or 4x MFT splice trays with a maximum capacity of 48 fibres (with LC-Duplex). The 2U version has doubled the capacity for connectors, cable ports and splice trays, e.g. 96 fibres (with LC-Duplex).

Features / Benefits

- Ideal for field connectorization (UniCam® or Anaerobic)
- Suitable for loose tube, tight-buffered optical fibre cables
- Slide-out drawer for easy connector access
- Slide-out drawer tilts down 30°
- Flexible configuration of connectivity
- Allows presentation of LANscape fibre and copper connectors
- 1U housing provided with 2x cable entry ports for either M20 or M25 glands, 2x Plug&Play trunks with U-clip (Size 1/2)
- 2U housing provided with 4x cable entry ports for either M20 or M25 glands, 2x Plug&Play trunks with U-clip (Size 1/2)
- Pigtails provided with TB (easy strip) coating
- Pigtails colored according to Telcordia at 900µm and 250µm layer for easy identification
- MFT or Standard Splice trays available
- Made of RoHS compliant and recyclable materials

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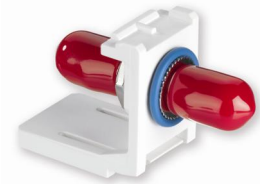
LANS-□ □□ - □□ - □□ □ - □□ □
1 2 3 4 5 6 7

1. Housing height

1 = 1U
2 = 2U

2. Fibre Count

12 = 12 fibres (all adapter types in 1U housings)
24 = 24 fibres (all adapter types in 1U housings)
36 = 36 fibres (only MT-RJ Triplex modules in 1U housings)
48 = 48 fibres (LC Duplex in 1U housings and all adapter types in 2U housing) +SC Duplex (non modular)
72 = 72 fibres (only MT- RJ Triplex modules in 2U housing)
96 = 96 fibres (only LC-Duplex in 2U housing) + SC Duplex (non modular)



3. Adapter Options

ST® Compatible
15 = ST MM (OM1/OM2) Threaded metal housing, Ceramic insert
19 = ST SM (OS1/OS2) Threaded metal housing, Ceramic insert with blue feed-through
E5 = ST MM (OM3) Threaded metal housing, Ceramic insert with aqua feed-through

FC
11 = FC, SM/MM, Threaded Metal Housing, Ceramic insert

LC Duplex
04 = LC Duplex/UPC SM, Blue, Composite Housing, Ceramic insert
B3 = LC Duplex/APC SM, Green, Composite Housing, Ceramic insert
05 = LC Duplex 62.5/125 OM1, Beige, Composite Housing, Ceramic insert
D3 = LC Duplex 50/125 OM2, Black, Composite Housing, Ceramic insert
E4 = LC Duplex 50/125 OM3, Aqua, Composite Housing, Ceramic insert

E2000
P1 = E2000/APC SM OS1, Green, Composite housing, Ceramic insert
P2 = E2000/UPC SM OS1, Blue, Composite housing, Ceramic insert
P3 = E-2000/PC OM1/OM2 Beige, Composite housing, Ceramic insert

SC Simplex
5C = SC/UPC Simplex SM OS1, Blue, Composite housing, Ceramic insert
6C = SC/APC Simplex SM OS1, Green, Composite housing, Ceramic insert
G6= SC Simplex 50/125 OM2, Black, Composite housing, Ceramic insert
P4 = SC Simplex 50/125 OM2, Black, Composite housing, Metal insert
E6= SC Simplex 50/125 OM3, Aqua, Composite housing, Ceramic insert
39 = SC Simplex 62.5/125 OM1, Beige, Composite housing, Metal Insert

SC Duplex
72 = SC/UPC Duplex SM OS1, Blue, Composite housing, Ceramic insert
D9 = SC/APC Duplex SM OS1, Green, Composite housing, Ceramic insert
57 = SC Duplex 62.5/125 OM1, Beige, Composite housing, Ceramic insert
P5 = SC Duplex 50/125 OM2, Black, Composite housing, Metal insert
G7 = SC Duplex 50/125 OM2, Black, Composite housing, Ceramic insert
E7 = SC Duplex 50/125 OM3, Aqua, Composite housing, Ceramic insert

MT-RJ
S1 = MTRJ Simplex MM/SM, White
S2 = MTRJ Simplex MM/SM, Black
S3 = MTRJ Simplex MM OM3, Aqua
T1 = MTRJ Triplex MM/SM, White
T2 = MTRJ Triplex MM/SM, Black
T3 = MTRJ Triplex MM OM3, Aqua composite housing

Note: 1) For fully configurable panel, order empty panel and adapters separately. See Accessories p. 4-5.
2) Feed-through colour determined by panel colour: black panel get black feed-through, silver panel get white feed-through. MTRJ OM3 versions are provided in Aqua feed-through regardless of panel colour.

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4. Pigtail options	
50 = ST® compatible, multimode	03 = LC, multimode
61 = ST® compatible/UPC, single-mode	02 = LC/UPC, single-mode
17 = FC, multimode	86 = MT-RJ, multimode (with pins)
54 = FC/UPC, single-mode	87 = MT-RJ, single-mode (with pins)
21 = FC/APC, single-mode	95 = E2000, multimode
39 = SC, multimode	20 = E2000/UPC, single-mode
58 = SC/UPC, single-mode	19 = E2000/APC, single-mode
44 = SC/APC, single-mode	00 = without Pigtails

Note: Pigtails provided in multiples of 12 with TB (easy strip coating). Pigtails are individually coloured according to Telcordia code at 900µm and 250µm layer for easy identification in splice tray.

5. Fibre type

Q = ClearCurve OM4 Pretium 550 Ultra-Bend 7.5
T = ClearCurve OM3 Pretium 300 Ultra-Bend 7.5
B = ClearCurve OM2 Pretium 150 Ultra-Bend 7.5
K = Laser optimized multimode fibre G62.5L (OM1) InfiniCor® 300
R = Full spectrum singlemode fibre E9 (OS2) SMF-28e+

6. Splice tray options *

S1 = MFT splice tray for up to 24 heat-shrink splice protectors (protectors not included)
S2 = MFT splice tray for up to 24 heat-shrink splice protectors with splice protectors
S3 = MFT splice tray for up to 24 crimp splice protectors (protectors not included) [1]
S4 = MFT splice tray for up to 24 crimp splice protectors with splice protectors [1]

S6 = Standard splice tray for up to 12 heat-shrink splice protectors (protectors not included)
S7 = Standard splice tray for up to 12 heat-shrink splice protectors with splice protectors
S8 = Standard splice tray for up to 12 crimp splice protectors (protectors not included) [1]
S9 = Standard splice tray for up to 12 crimp splice protectors with splice protectors[1]

S0 = No splice tray

*The number of splice trays and of splice protectors corresponds to the chosen fibre count. i.e. 1 splice tray for up to 24 fibres, 2 for up to 48 fibres, 3 for 72 fibres and 4 for 96 fibres.
Corning recommends that only 250µm coated fibres be routed in the MFT tray when splicing 24 fibres. Placing >12 fibres with 900µm coated fibres in the tray is not recommended.
[1] Crimp splice protectors are only suitable for splices of 250µm to 250µm coated fibres.

7. Housing colour

S = High grade silver
B = Black

Mechanical Specification

1U Housing
- Dimensions (H x W x D): 44 x 483 x 213 mm
- Thickness: 1.2mm
- Weight: 2.45 kg empty

2U Housing
- Dimensions (H x W x D): 88 x 483 x 213 mm
-Thickness: 1.2mm
- Weight: 3.8 kg empty

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Empty Panels

Order number	Frame	Unit	Description
LANS-01U-B4	19"	1U	Patch Panel, 1U, Black, 4 splice tray capacity
LANS-01U-S4	19"	1U	Patch Panel, 1U, Silver, 4 splice tray capacity
LANS-02U-B8	19"	2U	Patch Panel, 2U, Black, 8 splice tray capacity
LANS-02U-S8	19"	2U	Patch Panel, 2U, Silver, 8 splice tray capacity

Delivered Contents of empty panel:

- 1U housing empty with patch panel und sliding drawer (MFT and Standard tray compatible)*
- 1 rear angled cable entry bracket accepts 2 cables with M20 or M25 glands (Glands not included)*
- 2 round head screws for securing cable entry brackets to the LANS panel, size M4*
- 2 round head screws for securing top, size M4
- 4 adhesive backed fibre routing guides
- 1 threaded post splice tray holder, M5 x 40, and hexagon nut, M5 (not included with MFT tray version)
- 4 cage nuts, M5
- 4 counter sunk screws (M5 x12) to mount panel to rack

* 2U configuration changes respectively: 2U patch panel, 2 rear angled brackets, 4 screws for securing brackets

Accessories

Order number	Description
LANS-TH-UCLIP-S	Plug & Play U-clip trunk holder; for 2 size 0 or 1 size 1/2, silver
LANS-TH-UCLIP-B	Plug & Play U-clip trunk holder; for 2 size 0 or 1 size 1/2, black
LANS-IND-STRN	Additional strain relief for use with one M20/M25 gland, Silver
LANS-IND-STRN-B	Additional strain relief for use with one M20/M25 gland, Black
LANS-STRN	Cable strain relief, straight, and brush strip; Recommended for direct termination applications. Not compatible with M20/M25
LANS-LBL-WNDW	Port labelling window, self-adhesive, pack of 10
LANS-M20	Cable glands M20 for cable diameters 6-12mm, pack of 10
LANS-M25	Cable glands M25 for cable diameters 13-18mm, pack of 10
LANS-ROUT-GUIDES	Adhesive-backed, fibre routing guides for inside shelf, pack of 6

Cable Routing Panels

Order number	Frame	Unit	Description
WAXWSW-00000-C007	19"	1U	Cable Management Panel, Silver
WAXWSW-00008-C007	19"	1U	Cable Management Panel, Black

Blank Panels

Order number	Frame	Unit	Description
WAXWSW-00000-C004	19"	1U	Blank panel for 1U space, Silver
WAXWSW-00000-C005	19"	1U	Blank panel for 2U space, Silver
WAXWSW-00008-C004	19"	1U	Blank panel for 1U space, Black
WAXWSW-00008-C005	19"	1U	Blank panel for 2U space, Black

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LANS Module

Order information

LANS- MOD - ☐☐ - ☐
1 2

LANS-MOD-E4- B
with black feed-through

LANS-MOD-E4-W
with white feed-through

1. Adapter Options

See adapter codes under "3. Adapter Options" page 2
Remark: ST adapters have a marking ring: blue ring for SM and aqua ring for OM3

2. Module Colour

W = White
B = Black

LANS-MOD-BLNK-W	Blank Module for LANS/LANC Panels, White, pack of 6
LANS-MOD-BLNK-B	Blank Module for LANS/LANC Panels, Black, pack of 6

Example #1:
LANS-148-E4-03T-S7B: LANS Fibre splice drawer, 1U, black, 48 fibre, equipped with LC Duplex Adapters (OM3) Aqua with black feed-through (24 pieces), LC OM3 Pretium 300 ClearCurve pigtails with TB coating (48 pieces) individually colored at 900 µm and 250µm layers, standard splice trays with heat shrink organizers (4 pieces) and heat shrink protectors (48 pieces)

Example #2:
Bill of Material for Break-out Box:
Empty box for direct termination with 12 fibre, LC Duplex, OM3 adapters and 12 fibre SC simplex OS2, adapters, blank adapters and extra strain relief for cables:

Part Number	Description	Qty
LANS-01U-B4	Patch Panel, 1U, Black, 4 splice tray capacity	1
LANS-M20	Cable glands M20 for cable diameters 6-12mm, pack of 10	1
LANS-IND-STRN-B	Additional strain relief for use with one M20/M25 gland, Black	2
LANS-MOD-E4-B	Adapter module, LC Dup, OM3, Aqua, Cer. Insert, Black feed-through	6
LANS-MOD-5C-B	Adapter module, SC Simplex, OS2 Blue, Ceramic insert, Black feed-through	12
LANS-MOD-BLNK-B	Blank Module for LANS/LANC Panels, Black, pack of 6	1

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CORNING

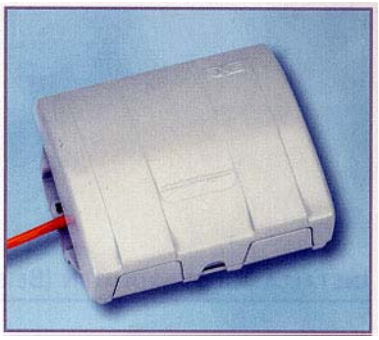
Data sheet
LAXLSD-U0001-C000 / April 2009

Product Group: **LANscape® Future*Link*™ Hardware**

Product: **FO4-W Wall Outlet, white (RAL 9010)**

Application

The Future*Link* – wall outlet is the conclusion of the FO network near to the work place. The computers and periphery devices will be connected to the wall outlet by patch cords. The wall outlet FO4-W can be mounted on standard wall raceways or on surface.



Product description

Wall outlet, for mounting 2 SC duplex, 4 ST, 4 SC, 4 LC or 4 MT-RJ adapters, white, similar RAL 9010, other color variations available on request.

Characteristics

- Made by polyamid
- Optimized for the use of UniCam® connectors
- Suitable for installation on raceways and for surface mounting
- Two outlets can be mounted side by side in standard openings
- Integral fiber management with 30 mm bending radius control
- Storage of 1 m fiber slack
- Optimal cable strain relief

Ordering information

Description	FO4-W Wall Outlet, white (RAL 9010)
Quantity / delivery unit	1/1
Order number	LAXLSD-U0001-C000

Ordering information

Description	Mounting frame for 2 ST®-compatible or 2 FC adapters	Mounting frame for 1 SC duplex adapter	Mounting frame for 2 SC, 2 E2000, 2 MT-RJ or 2 LC-duplex adapters
Quantity / delivery unit	8/1	8/1	8/1
Order number	LAXLSED-U0001-C000	LAXLSED-U0001-C001	LAXLSED-U0001-C002

Adapters must be ordered separately: refer to the adapters datasheet

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CORNING

Datasheet
Splice trays / February 2007

Product Family: **LANscape®, Hardware solutions**

Product: **Splice trays**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Application

Corning Cable Systems' splice trays are suited to protect and manage fibre splices at field-, transition- and end-splice locations. Each splice tray design is specially designed for use with Corning Cable Systems' different indoor or outdoor enclosures (to choose the proper splice tray in combination with a specific enclosure type it must be referred to the datasheets of the enclosure itself).

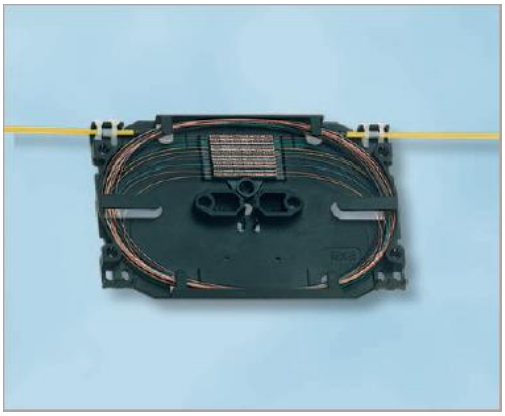
MFT splice tray (flip version) for up to 24 heat-shrink single fibre splice protectors

Description

Corning Cable Systems' splice trays use proven design and fibre organization technology to provide optimum physical protection for fusion and mechanical splicing methods. The trays are engineered for use with both loose tube and tight buffered optical cable designs. Their generous size prevents iduced attenuation due to fibre bending.

MFT splice trays

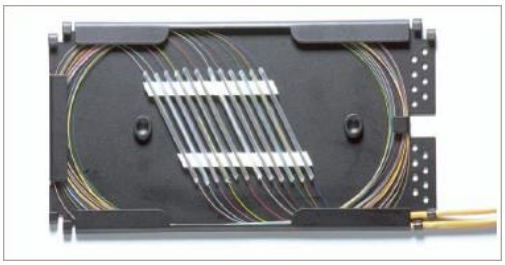
MFT splice trays are available in different designs for allocation of different splice protectors (single-fibre and crimp fusion splice protectors on request also for ribbon heat-shrink splice protectors and CamSplice mechanical splices) and for use in different splice enclosures (Stackable with or without pigtail extension for use in patchpanels, wall boxes and in-line closures, Flip with hinged tail for use in dome closures). The stackable as well as the flip version feature a hinged mounting that alloows full and easy access to each splice tray at any time. MFT splice trays have a maximum capacity of 24 single-fibre fusion splices with a 1200 mm long fibre slack. The routing guides within the tray ensure an easy and secured fibre storage with controlled minimum bend radius (30 mm) and allow to safely revert the sense of rotation of the fibres. MFT splice trays feature up to 8 buffer tube entries allowing for uncut fibres storage in mid-span applications. Break-out components eliminate the need of additional parts to mount the trays in the enclosures, to stack and lock the trays to each other and to fix buffer tubes or tight buffered fibres. A transparent splice cover allow for a clear view of the fibres without need to access the tray.



Standard splice tray with splice organizer for up to 12 crimp single fibre splice protectors

Standard splice trays

Standard splice trays thanks to their small dimensions are especially suitable for small enclosures for splice of low fibre-count cables. The snap-in interchangeable splice oragnizers allow for allocation of different splice protectors (single-fibre and ribbon heat-shrink, single fibre crimp fusion splice protectors and CamSplice mechanical splices). Each standard splice tray can allocate up to 2 splice organizers for a recommended maximum capacity of 12 single-fibre fusion splices with a 1200 mm long fibre slack. The standard splice trays can accept up to 8 buffer tubes to be secured by means of cable ties (included in the packs) and allow for storage of uncut fibres in mid-span applications.



Metal splice tray for up to 12 heat-shrink single fibre splice protectors

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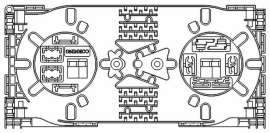
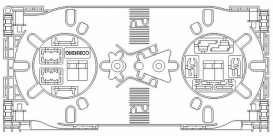
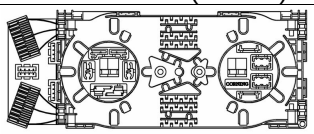
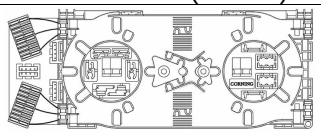
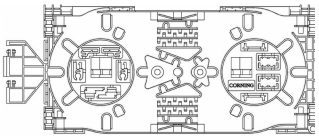
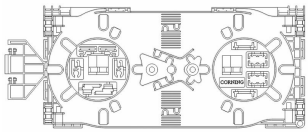
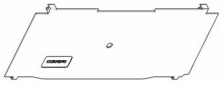
A transparent splice cover allow for a clear view of the fibres without need to access the tray.

Metal splice trays

Metal splice trays consist of a rugged aluminium base (black) with a cover of the same material. Crimpable metal tabs provide buffer-tube strain relief for up to 8 buffer tubes; additional strain relief points are available on one side for securing buffer tubes or pigtails to the trays using cable ties. Different models are available for accommodation of single-fibre (60 mm long) or ribbon fusion splices with heat shrink protectors. The metal splice trays are designed to fit in some of the Corning Cable Systems' splice housings (interconnection hardware and closures) as indicated in the datasheets of these products. Metal splice trays are characterized by a dimension type indicated in the tray description, the indicated type must be chosen compatibly to the indication given in the datasheet of the splice housing it has to be fitted in.

Order information:

MFT splice trays

Ordering number	Description	Drawings/dimensions	Quantity/delivery unit
S46998-A4-A60	MFT stackable splice tray for up to 24 single-fibre heat-shrink splice protectors on 2 layers	 205 x 95 x 7 mm (LxWxT)	10/1
S46998-A4-A61	MFT stackable splice tray for up to 24 single-fibre crimp splice protectors on 1 layer	 205 x 95 x 7 mm (LxWxT)	10/1
S46998-A4-A40	MFT stackable splice tray with out-break pigtail extension for up to 24 single-fibre heat-shrink splice protectors on 2 layers	 245 x 95 x 7 mm (LxWxT)	10/1
S46998-A4-A41	MFT stackable splice tray with out-break pigtail extension for up to 24 single-fibre crimp splice protectors on 1 layer	 245 x 95 x 7 mm (LxWxT)	10/1
S46998-A2-R81	2 MFT Flip splice trays each for up to 24 single-fibre heat-shrink splice protectors on 2 layers + 2 covers	 233 x 95 x 7 mm (LxWxT)	4/1
S46998-A2-R82	4 MFT Flip splice tray each for up to 24 single-fibre heat-shrink splice protectors on 1 layer + 4 covers		2/1
S46998-A2-R91	2 MFT Flip splice trays each for up to 24 single-fibre crimp splice protectors on 1 layer + 2 covers	 233 x 95 x 7 mm (LxWxT)	10/1
S46998-A2-R92	4 MFT Flip splice trays each for up to 24 single-fibre crimp splice protectors on 1 layer + 4 covers		10/1
S46998-A4-A48	MFT splice cover pack	 Thickness tray+cover = 10	10/1
C46197-K11-C8	MFT splice cover, single		1/1

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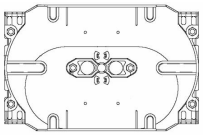
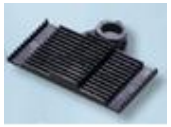
		mm	

Standard splice trays and accessories

Ordering number	Description	Drawings/dimensions	Quantity/delivery unit
C46197-A7-A66	Standard splice tray for up to 2 splice organizers	 138 x 92 x 8 mm (LxWxT)	10/1
S46999-Z12-A1	Splice organizer for up to 6 heat-shrink splice protectors on 1 layer		10/1
C46197-A7-A69	Splice organizer for up to 12 crimp splice protectors on 1 layer		10/1
S46998-A4-R1	Splice organizer for up to 5 CamSplice mechanical splices on 1 layer		10/1
S46998-A4-A1	Standard splice cover pack	 Thickness tray+cover = 10 mm	10/1
C46197-K6-C2	Standard splice cover, single		1/1

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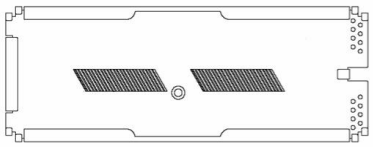
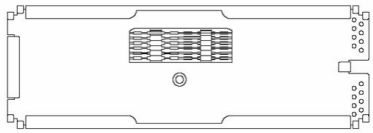
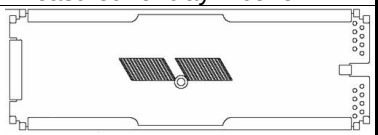
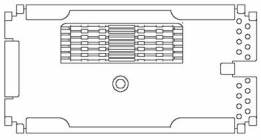
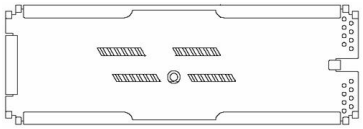
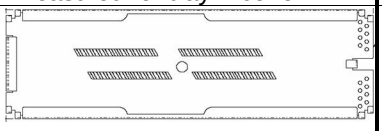
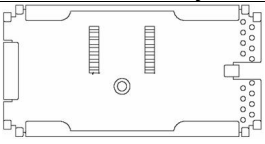
Metal splice trays

Ordering number	Description	Drawings/dimensions	Quantity/delivery unit
M67-078	Metal splice tray wide, 0.4-inch thick for up to 24 heat-shrink splice protectors on 2 layers, with cover. Type 4S	 297 x 110 x 10 mm (LxWxT) T measured for tray + cover	1/1
M67-113	Metal splice tray 0.4-inch thick for up to 12 crimp splice protectors (Splice Pak™) on 2 layers, with cover. Type 4S	 205 x 99 x 10 mm (LxWxT) T measured for tray + cover	1/1
M67-076	Metal splice tray 0.4-inch thick for up to 12 heat-shrink splice protectors, with cover. Type 4S	 297 x 110 x 10 mm (LxWxT) T measured for tray + cover	1/1
M67-110	Metal splice tray reduced length, 0.4-inch thick for up to 12 heat-shrink or 12 crimp (Splice Pak™) splice protectors, with cover. Type 4R	 175 x 89 x 10 mm (LxWxT) T measured for tray + cover	1/1
M67-048	Metal splice tray 0.2 -inch thick for up to 12 heat-shrink splice protectors, with cover. Type 2S	 175 x 99 x 5 mm (LxWxT) T measured for tray + cover	1/1
M67-112	Metal splice tray long 0.2-inch thick for up to 24 heat-shrink splice protectors on 1 layer, with cover. Type 2S Long	 336 x 99 x 5 mm (LxWxT) T measured for tray + cover	1/1
M67-068	Metal splice tray reduced length 0.2-inch thick for up to 6 heat-shrink splice protectors on 1 layer, with cover. Type 2R	 185 x 89 x 5 mm (LxWxT) T measured for tray + cover	1/1

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6 Closures

6.1. In-Line Closures

6.2. Dome Closures

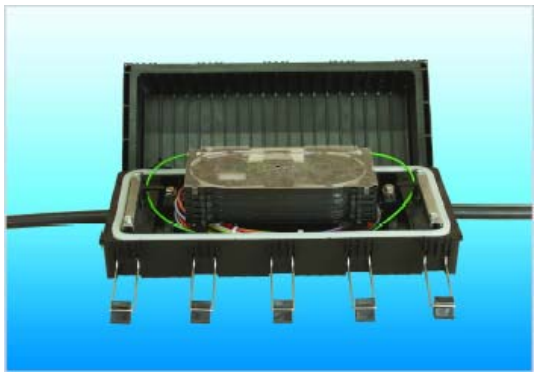
Product Family: **Evolant®, Closures**

Product: **Universal Closure Access for Optical cables (UCAO), 7 MFT**

Fibre: **All fibre types**

Application

Corning Cable Systems' UCAO closure provides environmentally protected sealing on splice s of fibre optic cables. In addition, the unit provides excellent cable strain relief and space for excess buffer tube storage. It can be installed on cable with sheaths of all the common used materials, and it is suitable for direct buried, man- or hand-hole and aerial applications. Due to its compact design, it is ideal, for the connection of cables of low to medium fibre count. The easy accessibility makes this closure ideal for access networks.



In-line closure UCAO 7 MFT

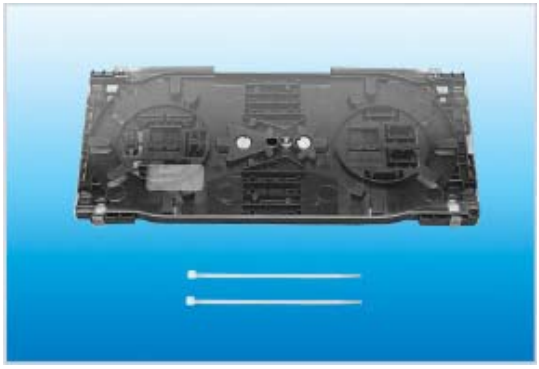
Description

The body of the closure consists of two half shells made of thermoplastic material, resistant against all common environmental influences. The intersection of the half shells is sealed by means of a reusable silicone ring.

The closure has an integral hinge on the top half shell and five stainless steel tensioner with thermoplastic clips fixed to the bottom half shell. The tensioners can be closed by hand and easily opened with a screwdriver. To prevent unauthorized access, an optional anti-access device can be installed on the tensioners' clips.

Management of the buffer tubes

The closure can accommodate up to 7 MFT splice trays each with a capacity of up to 24 fibres, featuring minimum fibre bend control and hinged stapling mechanism for an easy individual access. The buffer tubes can be routed directly into the splice trays. With an optional adapter set the fibres from one tube can be separated and routed into different tubes or, vice versa, fibres from different buffer tubes can be brought together into one single tube. Each MFT splice tray provides four buffer tubes entries (two per side).



MFT splice tray

The two cable entries on each end face of the closure can accommodate one cable each with up to 21 mm diameter. The cable entries, sealed by means of a sealing tape, are situated underneath the cable sealing wedges in the lower half shell. By means of an optional four-cable entry set, including multiple strain relief and a filling sealing piece, each individual cable entry can be adapted to fit four cables each of up to 8 mm in diameter.

Both the cable sheath and the central member are strain relieved with clamps locked into the lower half shell. The same clamps provide electrical connection and external grounding if required. The tightness of the closure can be flash-tested by means of the optional tightness testing set.

Alternatively a closure version with compression fittings is available. In this version each of the sealing wedges include one tape sealed cable entry (one cable up to 21 mm diameter) and one port for installation of compression fittings (one cable 8 to 13 mm in diameter). These ports simplify the installation of branching cables in the event of future demand.

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Features / Benefits

- Suitable for direct buried, man- or hand-hole and aerial installations.
- For straight or branching applications.
- The main cable entries can be used also for mid-span access (uncut buffer tubes).
- Fast and easy access to individual splice trays.
- Capacity for up to 168 splices.
- Closure sealing by means of re-usable silicone ring.
- IP 68 rated.

Specifications

Type	Number and outer diameter of cables	Number of MFT splice trays	Max. splice capacity	Length of buffer tubes (mm)
UCAO 4-9 7 MFT standard	4x up to 21 mm (cut/uncut)*	up to 7 (min. 2)	168	1500 (cut)/2400 (uncut)
UCAO 4-9 7MFT compression fittings	2x up to 21 mm (cut/uncut)* 2x 8 to 13 mm	up to 7 (min. 2)	168	1500 (cut)/2400 (uncut)

*Each of these cable entries can be adapted to fit four cables of up to 8 mm in diameter each (4 cables entry set to be ordered separately)

Dimensions

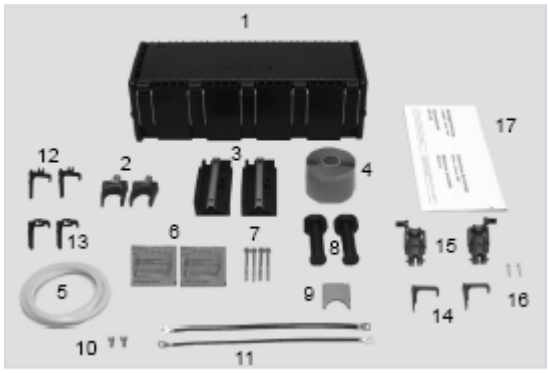
Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
UCAO 4-9 7 MFT standard	378	160	118	2.4
UCAO 4-9 7MFT compression fittings	404	160	118	2.4

Kit contents:

Each closure kit contains all parts for installation of a branching joint including the equipment for fibre management. Application specific accessories such as splice trays and splice protectors have to be ordered separately.

Closure

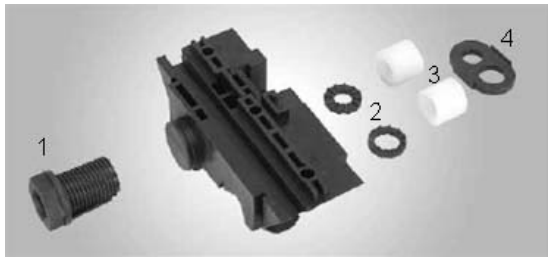
1. Closure with tensioners.
2. Strain relief with screw and contact plate.
3. Sealing wedges with metal bracket.
4. Sealing tape.
5. Silicone sealing ring.
6. Cleaning tissues.
7. Screws for sealing wedges.
8. Dummy plugs for non used entries (standard version only)
9. Wrap gauge.
10. Grounding screw.
11. Shield connection lead.
12. Tray holders
13. Holders for tray's locking elements.
14. Buffer holders.
15. Central member strain relief.
16. Screws.
17. Installation instructions.



Kit contents: UCAO 4-9 standard 7 MFT

Branching kit for UCAO 4-9 7 MFT compression fittings

1. Threaded plug.
2. Lock washers.
3. Silicone sealing rings.
4. Supporting plate.



Cable entry wedge with compression fittings

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Ordering information

Description	UCAO 7 MFT standard with grounding device. With material for 2 cables.	UCAO 7 MFT compression fittings, with grounding device. With material for 2 cables*
Quantity per delivery unit	1/1	1/1
Order number	**S45754-A3-A60**	**S45754-A3-A59**

*Compression fittings are not included: branching kit with compression fittings for the remaining 2 cables must be ordered.

Accessories:

Part Number	**Description**	**Quantity per delivery unit**
S46998-A4-A60	MFT splice tray for up to 24 heat-shrink splice protectors.	10/1
S46998-A4-A61	MFT splice tray for up to 24 crimp splice protectors.	10/1
S46998-A4-A48	Cover for MFT splice tray.	10/1
S46998-A16-A4	Heat-shrink splice protectors, 60 mm long.	100/1
S46998-A4-A29	Heat-shrink splice protectors, 45 mm long.	100/1
CSP-1	Crimp splice protectors, 30 mm long.	150/1
S46998-A6-R1	Branching set for UCAO 7MFT standard: cable and central member strain relief and shield connection for 10 cables.	10/1
S46998-A6-R2	Grounding set for 10 cables	10/1
S45754-A3-R21	Branching set for UCAO 7MFT compression fittings: sealing gland and central member strain relief for 1 cable.	1/1
S45756-M7-A2	4 cable entry set including 4 cable strain relief elements for UCAO entries with sealing tape (does not fit compression fittings entries).	10/1
S45756-M5-A7	Flash-test tightness test set: valve, plug and sealing paste.	1/1
S45756-M5-A2	Wall/pole mounting.	1/1
S45756-M5-A1	Aerial hanging device.	1/1
S45756-M2-A2	Sealing tape, 10 rolls 1.6 meters.	10/1
S45756-M3-A2	Anti-access device (protection against opening without tools)	1/1
S46998-A2-R85	Buffer tube adapter set 1-1: adapter to connect one buffer tube to one spiral wrap, set includes 4 adapters and 4 meters spiral wrap.	4/1
S46998-A2-R84	Buffer tube adapter set 2-1: adapter to connect two buffer tubes to 1 spiral wrap (or vice versa), set includes 4 adapters and 4 meters spiral wrap.	4/1
S46998-A2-R84	Buffer tube adapter set 3-1: adapter to connect three buffer tubes to one spiral wrap (or vice versa), set includes 4 adapters and 4 meters spiral wrap.	4/1

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Product Family: **Evolant®, Closures**

Product: **Universal in-line closure for optical cables (UCNP), Standard (S) and Element (E)**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Application

Corning Cable Systems' universal closures family is designed to protect splices and store excess buffer tube lengths to fibre optic cables. In particular the UCNP versions offer the possibility of jointing in-line 5 to 8 individual cables (in/out) depending on the closure size. The universal closures can be installed on cable with sheaths of all the common used materials, it is suitable for direct buried, man- or hand-hole and aerial applications as interconnection, branching, distribution or access point.

In-line closure UCNP 7-10 E

Description

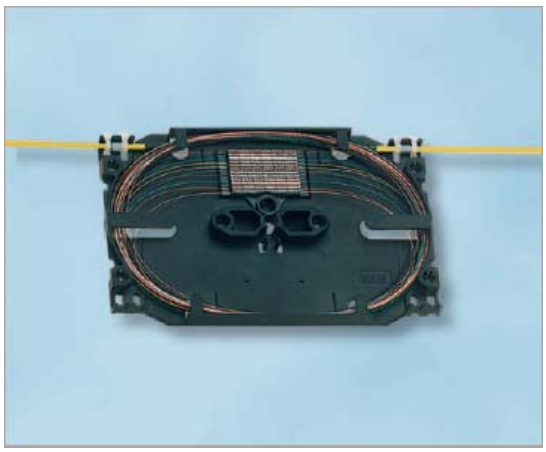
The body of the closure constists of two mechanical end-caps (type UCNP) and a longitudinally split closure tube, all components are made of thermoplastic material, resistant against all common environmental influences. The tube is closed by means of two clamping bars (also of thermoplastic material) that can be affixed, and re-opened, by using only a plastic hammer and are scured with pins. Each mechanical end-cap consist of two halves with two cable entries in the middle for mid span access of up to two cables.

UCNP closed with clamping bars

Permanent elastic seals (one longitudinal for the closure tube and two rings, one for each end-cap) allow the closure to be tightly closed and re-entered without need of additional material. The two halves of each end-cap are sealed by means of pre-cut sealing tape and the cable entries in the middle are sealed by means of a sealing tape wrapped around the cables. The other cable entries, whose number and size varies depending on the closure size, are intended for branching cables and are sealeable by means of compression fittings.

The two end-caps incorporate the cable and central member strain relief. Each closure is delivered with all materials to seal and strain relieve two cables (2 in and 2 out) through the mid-span access entries as well as one branching cable.

The two end caps are interconected by means of two metal bars which are protecting the closure from longitudinal compression and are used as support for the fibre management.



Standard splice tray with crimp splice organizer

Each closure is equipped with a feedthrough for external grounding or a valve for pressure tightness testing (flash-test).

All closure sizes are available with two different fibre management systems, which are included in the pack. The universal closure family includes also canister closures of different sizes and equipped with different fibre management systems (UCNCP).

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Features / Benefits

- Suitable for direct buried, man- or hand-hole and aerial installations.
- For straight or branching applications.
- Two cable entries per side can be used also for mid-span access (uncut buffer tubes).
- Fast and easy re-entering and insertion of branching cables on demand, without need of special tools.
- Different sizes and fibre management systems for a capacity up to 432 splices.
- IP 68 rated.

Specifications: fibre management and splice capacities

Fibre management		Type	Number of splice trays	Max. splice capacity
Standard (S)		UCNP 5-10 S	6 standard (without cover)	72
		UCNP 7-10 S	12 standard (without cover)	144
		UCNP 7-20 S	24 standard (without cover)	288
		UCNP 9-20 S	36 standard (without cover)	432
Element (E)		UCNP 7-10 E	8 standard (with cover)	96
		UCNP 7-20 E	16 standard (with cover)	192
		UCNP 9-20 E	24 standard (with cover)	288

Specifications: dimensions and cable entries

End-cap	Type	Outer Ø (mm)	Length (mm)	Number and outer diameter of cables
	UCNP 5-10 S	150	523	2 x12-20 mm (cut/uncut) each side 3 x 5-15 mm (cut) each side
	UCNP 7-10 S/E	204	523	2 x12-22 mm (cut/uncut) each side 4x 5-18 mm (cut) each side
	UCNP 7-20 S/E	204	768	
	UCNP 9-20 S/E	250	768	2 x12-32 mm (cut/uncut) each side 6 x 12-25 mm (cut) each side

Kit contents:

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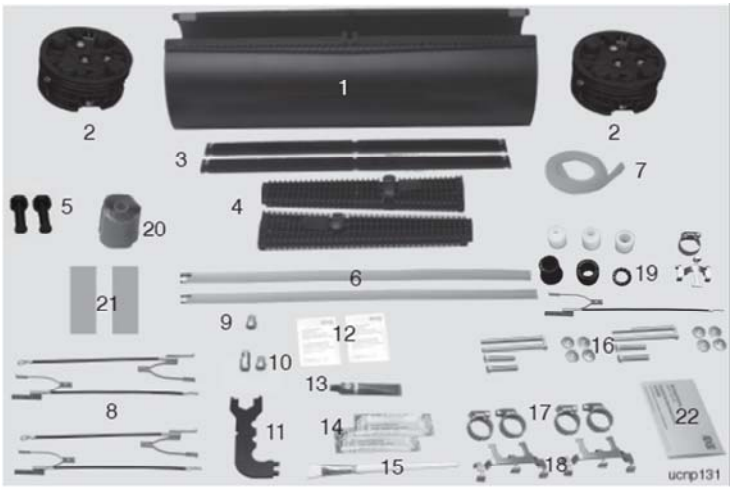
Each closure kit contains all parts for installation of a branching joint including the equipment for up to five cables (up to four in the end-caps intersections and one in one branching port) and for fibre management. Application specific accessories such as splice trays and splice protectors have to be ordered separately.

Closure

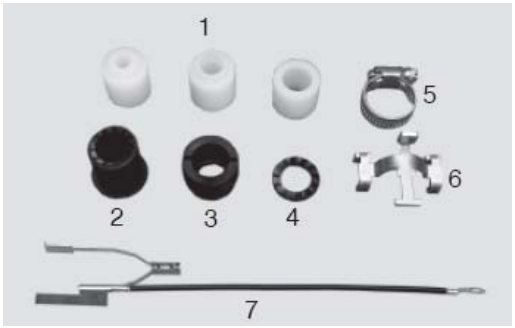
1. Closure tube.
2. End-cap.
3. Connecting bars.
4. Clamping bars.
5. Dummy plugs for non used entries (in the end-caps intersections).
6. Sealing rings.
7. Sealing cord.
8. Central member strain relief and central member / cable armour grounding.
9. Closing screw.
10. Grounding screws.
11. Wrap gauge / wrench.
12. Cleaning tissues.
13. Sealing paste.
14. Lubricant.
15. Brush.
16. Closing screws for end-caps.
17. Cable clamps (worm drive).
18. Double brackets (strain relief for 2 cables).
19. Branching kit (see below).
20. Sealing tape.
21. Pre-cut sealing tape for end-caps.
22. Installation instructions.
23. Fibre management according to selected type (not shown).
24. Shield connection lead (not shown).



Kit contents: UCNP

Branching kit for UCNP (different sizes)

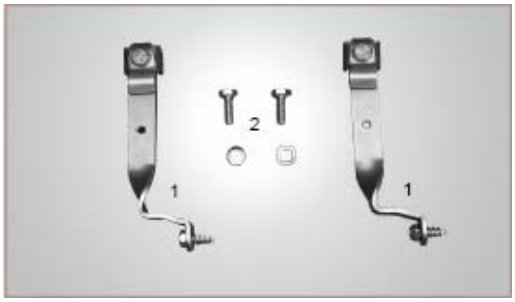
1. Silicon sealing rings (for UCNP 5-10 S only 2 rings).
2. Pressure screw.
3. Closing screw
4. Lock washer.
5. Cable clamp (worm drive).
6. Single bracket (strain relief for 1 cables).
7. Central member strain relief and central member / cable armour grounding.



Branching kit for UCNP

Aerial hanging device (to be ordered separately)

1. Supports.
2. Clamp screws.



Aerial hanging device for UCNP

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UCNP with standard fibre management (S)

Description	UCNP 5-10 S for up to 72 splices. With material for 2 joint cables + 1 branching cable.	UCNP 7-10 S for up to 144 splices. With material for 2 joint cables + 1 branching cable.
Quantity per delivery unit	1/1	1/1
Order number	**S46998-A2-A40**	**S46998-A2-A41**

Description	UCNP 7-20 S for up to 288 splices. With material for 2 joint cables + 1 branching cable.	UCNP 9-20 S for up to 432 splices. With material for 2 joint cables + 1 branching cable.
Quantity per delivery unit	1/1	1/1
Order number	**S46998-A2-A42**	**S46998-A2-A43**

UCNP with element fibre management (E)

Description	UCNP 7-10 E for up to 96 splices. With material for 2 joint cables + 1 branching cable.	UCNP 7-10 E for up to 192 splices. With material for 2 joint cables + 1 branching cable.	UCNP 9-20 E for up to 288 splices. With material for 2 joint cables + 1 branching cable.
Quantity per delivery unit	1/1	1/1	1/1
Order number	**S46998-A2-A44**	**S46998-A2-A45**	**S46998-A2-A46**

Accessories:

Part Number	**Description**	**Quantity per delivery unit**
C46197-A7-A70	Standard splice tray for up to 2 splice organizers (max. 12 single fibres).	2/1
C46197-A7-A66	Standard splice tray for up to 2 splice organizers. (max. 12 single fibres).	10/1
S46998-A4-A1	Cover for standard splice tray.	10/1
S46999-Z12-A1	Splice organizer for up to 6 heat-shrink splice protectors	10/1
C46197-A7-A69	Splice organizer for up to 12 crimp splice protectors.	10/1
S46999-A16-A7	Splice organizer for up to 4 ribbon heat-shrink splice protectors.	10/1
S46998-A16-A4	Heat-shrink splice protectors, 60 mm long.	100/1
CSP-1	Crimp splice protectors, 30 mm long.	150/1
S46998-A2-R36	Branching set for UCNP 5: cable and central member strain relief and grounding for 1 cable 5-15 mm diameter.	1/1
S46998-A2-R16	Branching set for UCNP 7: cable and central member strain relief and grounding for 1 cable 5-18 mm diameter.	1/1
S46998-A2-R37	Branching set for UCNP 9: cable and central member strain relief and grounding for 1 cable 12-25 mm diameter.	1/1
S45754-D1-A1	Aerial hanging device for UCNP (all sizes).	1/1
C45402-Z3-C31	Valve for tightness test (flash-test).	1/1
S45056-M130-A3	Desiccant 50 g bag.	1/1

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Product Family: **Evolant®, Closures**

Product: **Universal canister closure for optical cables (UCNCP) with MFT flip fibre management.**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Application

Corning Cable Systems' universal closures family is designed to protect splices and store excess buffer tube lengths to fibre optic cables. In particular the UCNCP versions offer the possibility of jointing 2 to 4 individual cables (in/out) with 1 branching cable depending on the closure size and on the type of end-cap. The universal closures can be installed on cable with sheaths of all the common used materials, it is suitable for direct buried, man- or hand-hole and aerial (pole mounted) applications as interconnection, branching, distribution or access point.

Canister closure UCNCP MFT 5-10 with mechanical end-cap

Description

The body of the closure constists of a mechanical or heat-shrinkable end-cap (type UCNP) and a canister held together by means of a clamping ring. All components are made of thermoplastic material, resistant against all common environmental influences. The mechanical end-cap consist of two halves with two cable entries in the middle for mid span access of one cable. The heat-shrinkable end-cap in one single per-molded piece with sealed ports has one oval port for mid span access of one cable and various round ports for branching cables: the number and size of round ports depend on the closure size. A permanent elastic sealing ring allow the closure to be tightly closed and re-entered without need of additional material.

For the mechanical end cap the two halves are sealed by means of pre-cut sealing tape and the cable entries in the middle are sealed by means of a sealing tape wrapped around the cables. The other cable entries, whose number and size varies depending on the closure size, are intended for branching cables and are sealeable by means of compression fittings.

In the case of the heat-shrinkable end-cap all ports are sealed by shrinking the sleeves onto the cables to whose they adhere thank to a heat activated glue. The shrinking process can be obtained with the help of an hot air blower. The oval port requires the use of an additional three finger branching clamp to grant the sealing of both cables that can be inserted therein.

MFT flip splice tray for up to 24 heat-shrink splice protectors, with cover

Both types of end-cap incorporate the cable and central member strain relief. Each closure is delivered with all materials to seal and strain relieve one cables (1 in and 1 out) through the mid-span access entries (those at the intersection of the two halves in case of the mechanical end-cap and the oval port in case of the heat-shrink end-cap). The versions with mechanical end-cap include as well all necessary for sealing, strain relieving and grounding a branching cable.

Each closure is equipped with a feedthrough for external grounding or a valve for pressure tightness testing (flash-test). All versions are supplied with the splice trays holder in support of the MFT flip fibre management system. The splice tray holder include also a buffer tube storage for the overlength and for uncut buffer tubes.

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Features / Benefits

- Suitable for direct buried, man- or hand-hole and pole installations.
- For straight or branching applications.
- Mid-span access (uncut buffer tubes) for one cable possible in both closure versions.
- Fast and easy re-entering and insertion of branching cables on demand, without need of special tools.
- Different sizes and fibre management systems for a capacity up to 384 splices.
- The MFT splice tray allow also the storage of uncut fibres
- IP 68 rated.

Kit contents: UCNCP MFT with mechanical end-cap:

Each closure kit contains all parts for installation of a branching joint including the equipment for up to three cables (up to two in the end-cap intersections and one in one branching port) and for fibre management. Application specific accessories such as splice trays and splice protectors have to be ordered separately.

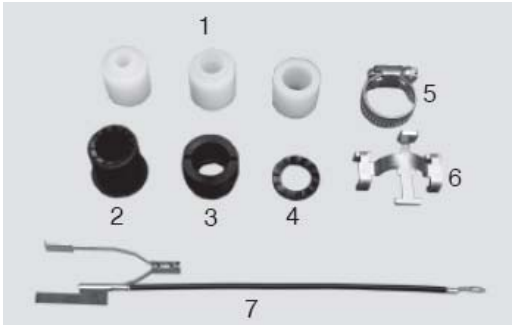
Closure

1. Closure canister.
2. End-cap.
3. Clamping ring.
4. Sealing ring.
5. Splice tray holder.
6. Closing screws for end-cap.
7. Double brackets (strain relief for 2 cables).
8. Cable clamps.
9. Central member strain relief and central member / cable armour grounding.
10. Grounding screws.
11. Plug.
12. Wrap gauge / wrench.
13. Cleaning tissues.
14. Brush.
15. Lubricant.
16. Sealing paste.
17. Screws for tray holder.
18. Sealing tape.
19. Pre-cut sealing tape for end-caps.
20. Installation instructions.
21. Branching kit (not shown).

Kit contents: UCNCP MFT with mechanical end-cap

Branching kit for UCNCP MFT with mechanical end-cap (different sizes)

1. Silicon sealing rings (for UCNCP 5-18 only 2 rings).
2. Pressure screw.
3. Closing screw
4. Lock washer.
5. Cable clamp (worm drive).
6. Single bracket (strain relief for 1 cables).
7. Central member strain relief and central member / cable armour grounding.



Branching kit for UCNCP MFT with mechanical end cap

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Kit contents: UCNCP MFT with heat-shrinkable end-cap:

Each closure kit contains all parts for installation of a branching joint including the equipment for up to two cables (in the oval port) and for fibre management. Application specific accessories such as splice trays and splice protectors have to be ordered separately.

Closure

1. End-cap.
2. Splice tray holder.
3. Closure canister.
4. Clamping ring.
5. Velcor tape securing splice trays
6. Sealing ring.
7. Lubricant.
8. Brush.
9. Sealing paste.
10. Cleaning tissues.
11. Grounding screws and plug.
12. Screws for tray holder.
13. Installation instructions.
14. Heat-shrink kit for oval port (not shown, see below).

Kit contents: UCNCP MFT with heat-shrinkable end-cap

Heat-shrink kit for oval port (included in closure kit)

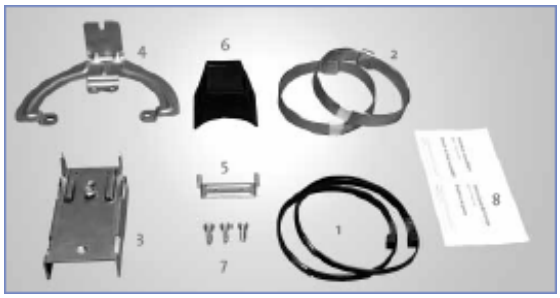
1. Heat-shrink sleeve.
2. Three finger branching clamp.
3. Cleaning tissues.
4. Flame protection foil.
5. Shield connection lead for two cables.
6. Emery strip.
7. Cable and central member strain relief elements with cable clamps.

Branching kit for UCNCP MFT with heat-shrinkable end-cap (to be ordered separately)

1. Heat-shrink sleeve.
2. Cleaning tissues.
3. Flame protection foil.
4. Shield connection lead for two cables.
5. Emery strip.
6. Cable and central member strain relief element with cable clamp.

Wall/pole mounting for UCNCP MFT both versions (to be ordered separately)

1. Ties to secure canister.
2. Clampimg bands for pole mounting.
3. Wall/pole holder.
4. Closure holding bracket (different for different closure sizes).
5. Mounting plate.
6. Canister holder.
7. Securing screws
8. Installation instructions.



Wall/pole mounting for UCNCP MFT

Installation support (to be ordered separately)

An installation support that can be clamped e.g. to a work bench is also available for fixing the closure temporarily in vertical position. It has to be used in combination with the closure holding bracket of the wall/pole mounting kit.

Installation support for UCNCP MFT

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Specifications:

Closure type	**UCNCP 5-18 MFT flip**	**UCNCP 7-22 MFT flip**	**UCNCP 9-18 MFT flip**
Dimensions DxL (mm)	159 x 505	220 x 585	265 x 530
Max. tray capacity	4	8	16
Max. splice capacity	96	192	384
Mechanical end-cap: number and outer diameter of cables	2 x 12-20 mm (cut/uncut) 3 x 5-15 mm (cut)	2 x 12-22 mm (cut/uncut) 4 x 5-18 mm (cut)	2 x 12-32 mm (cut/uncut) 6 x 12-25 mm (cut)
			
Heat-shrink end-cap: number and outer diameter of cables	2 x 12-25 mm (cut/uncut) 3 x 8-16 mm (cut)	2 x 12-32 mm (cut/uncut) 4 x 8-14 mm (cut) 3 x 12-32 mm (cut)	2 x12-37 mm (cut/uncut) 2 x 8-20 mm (cut) 3 x 14-25 mm (cut) 2 x 18-42 mm (cut)
			

Ordering information

UCNCP MFT with mechanical end-cap

Description	UCNCP 5-18 MFT Mechanical, for up to 96 splices. With material for 3 cables.	UCNCP 7-22 MFT Mechanical, for up to 192 splices. With material for 3 cables.	UCNCP 9-18 MFT Mechanical, for up to 384 splices. With material for 3 cables.
Quantity per delivery unit	1/1	1/1	1/1
Order number	**S46998-A2-A130**	**S46998-A2-A132**	**S46998-A2-A134**

UCNCP MFT with heat-shrinkable end-cap

Description	UCNCP 5-18 MFT Heat-shrinkable, for up to 96 splices. With material for 2 cables.	UCNCP 7-22 MFT Heat-shrinkable, for up to 192 splices. With material for 2 cables.	UCNCP 9-18 MFT Heat-shrinkable, for up to 384 splices. With material for 2 cables.
Quantity per delivery unit	1/1	1/1	1/1
Order number	**S46998-A2-A131**	**S46998-A2-A133**	**S46998-A2-A135**

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Accessories:

Splice trays

Part Number	Description	Quantity per delivery unit
S46998-A2-R81	MFT flip splice tray set (2 pcs.) with covers for up to 24 heat-shrink splice protectors/tray.	2/1
S46998-A2-R82	MFT flip splice tray set (4 pcs.) with covers for up to 24 heat-shrink splice protectors/tray.	4/1
S46998-A2-R91	MFT flip splice tray set (2 pcs.) with covers for up to 24 crimp splice protectors/tray.	2/1
S46998-A2-R92	MFT flip splice tray set (4 pcs.) with covers for up to 24 crimp splice protectors/tray.	4/1

Buffer adapter sets

Part Number	Description	Quantity per delivery unit
S46998-A2-R85	Buffer tube adapter set 1-1: adapter to connect one buffer tube to one spiral wrap, set includes 4 adapters and 4 meters spiral wrap.	4/1
S46998-A2-R84	Buffer tube adapter set 2-1: adapter to connect two buffer tubes to 1 spiral wrap (or vice versa), set includes 4 adapters and 4 meters spiral wrap.	4/1
S46998-A2-R84	Buffer tube adapter set 3-1: adapter to connect three buffer tubes to one spiral wrap (or vice versa), set includes 4 adapters and 4 meters spiral wrap.	4/1

Splice protectors

Part Number	Description	Quantity per delivery unit
S46998-A16-A4	Heat-shrink splice protectors, 60 mm long.	100/1
S46998-A4-A29	Heat-shrink splice protectors, 45 mm long.	100/1
CSP-1	Crimp splice protectors, 30 mm long.	150/1

Cable entry kits (branching sets)

Part Number	Description	Quantity per delivery unit
S46998-A2-R36	Branching set for UCNCP 5 mechanical: cable and central member strain relief and grounding for 1 cable 5-15 mm diameter.	1/1
S46998-A2-R16	Branching set for UCNCP 7 mechanical: cable and central member strain relief and grounding for 1 cable 5-18 mm diameter.	1/1
S46998-A2-R37	Branching set for UCNCP 9 mechanical: cable and central member strain relief and grounding for 1 cable 12-25 mm diameter.	1/1
S46998-M8-A1	Branching set for UCNCP heat-shrink, small (for circular port up to 25 mm diameter).	1/1
S46998- M8-A2	Branching set for UCNCP heat-shrink, medium (for circular port up to 35 mm diameter).	1/1
S46998- M8-A3	Branching set for UCNCP heat-shrink, large (for circular port up to 48 mm diameter).	1/1
S46998-M8-A5	Oval port set for UCNCP 5 heat-shrink.	1/1
S46998-M8-A6	Oval port set for UCNCP 7 heat-shrink.	1/1
S46998-M8-A4	Oval port set for UCNCP 9 heat-shrink.	1/1

Fixing devices

Part Number	Description	Quantity per delivery unit
S46998-M1-A3	Wall/pole mounting for UCNCP 5.	1/1
S46998-M1-A4	Wall/pole mounting for UCNCP 7.	1/1
S46998-M1-A5	Wall/pole mounting for UCNCP 9.	1/1
S45754-D1-A3	Aerial hanging device for UCNCP (all sizes).	1/1

Other branching sets with cable glands are available on request; e.g. for up to 4 cables or miniducts.

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Product Family: **Evolant®, Closures**

Product: **Universal canister closure for optical cables (UCNCP) with MAX fibre management.**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Application

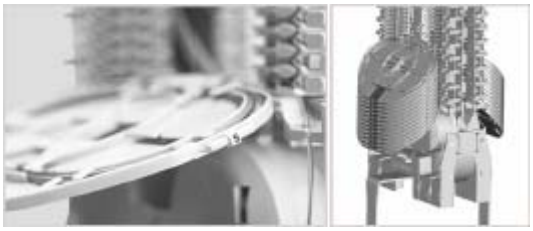
Corning Cable Systems' universal closures family is designed to protect splices and store excess buffer tube lengths to fibre optic cables. In particular the UCNCP versions offer the possibility of jointing 4 individual cables (in/out) and 1 branching cable depending on the type of end-cap. The universal closures can be installed on cable with sheaths of all the common used materials, it is suitable for direct buried, man- or hand-hole and aerial (pole mounted) applications as interconnection, branching, distribution or access point.

Canister closure UCNCP MAX with mechanical end-cap

Description

The body of the closure constists of a mechanical or heat-shrinkable end-cap (type UCNP) and a canister held together by means of a clamping ring. All components are made of thermoplastic material, resistant against all common environmental influences. The mechanical end-cap consist of two halves with two cable entries in the middle for mid span access of one cable. The heat-shrinkable end-cap in one single per-molded piece with sealed ports has one oval port for mid span access of one cable and various round ports for branching cables: the number and size of round ports depend on the closure size. A permanent elastic sealing ring allow the closure to be tightly closed and re-entered without need of additional material.

For the mechanical end cap the two halves are sealed by means of pre-cut sealing tape and the cable entries in the middle are sealed by means of a sealing tape wrapped around the cables. The other cable entries, whose number and size varies depending on the closure size, are intended for branching cables and are sealeable by means of compression fittings.



MAX fibre management system

In the case of the heat-shrinkable end-cap all ports are sealed by shrinking the sleeves onto the cables to whose they adhere thank to a heat activated glue. The shrinking process can be obtained with the help of an hot air blower. The oval port requires the use of an additional three finger branching clamp to grant the sealing of both cables that can be inserted therein.

Both types of end-cap incorporate the cable and central member strain relief. Each closure is delivered with all materials to seal and strain relieve one cables (1 in and 1 out) through the mid-span access entries (those at the intersection of the two halves in case of the mechanical end-cap and the oval port in case of the heat-shrink end-cap). The versions with mechanical end-cap include as well all necessary for sealing, strain relieving and grounding a branching cable.

Each closure is equipped with a feedthrough for external grounding or a valve for pressure tightness testing (flash-test). All versions are supplied with splice trays holder on a frame, fiber channels and distribution plates in support of the MAX fibre management system. Buffer tube overlength can be stored between the two trays staples or in an additional storage tray.

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Evolant MAX fibre routing and management system

The Evolant Max fibre routing and managemet system is built on an aluminium frame and pre-assembled in the ordered configuration with six-fold units for the splice trays. The guiding units are installed on both sides or is also possible to oredr a confirguration with only a single side occupied, equipped with an extra slack storage tray, this latter can, at any time, be removed and replaced by further guiding units to enlarge the splice capacity. The fibers are guided via the distribution plates on the desired side of the frame, through protected channels up to the desired splice tray that is entered directly through the hinge. This patented method guarantees no stress on the fibers during installation or closure re-entering.

The Evolant MAX system can be used for access network applications with either single circuit (SC) or single element (SE) trays or a mixture of both in accordance with the network requirements. One raster unit is required for the SC trays and two are required for the SE trays.

Features / Benefits

- Suitable for direct buried, man- or hand-hole and pole / aerial installations.
- For straight or branching applications.
- Mid-span access (uncut buffer tubes) for one cable possible in both closure versions.
- Fast and easy re-entering and insertion of branching cables on demand, without need of special tools.
- Different sizes and fibre management systems for a capacity up to 720 splices.
- The MAX splice trays are available in two sizes for Single Circuit or Single Element management.
- The fibres are routed in the trays through the hinges: no stress on the fibres during handling
- The MAX trays and channels allow also the storage of uncut fibres
- IP 68 rated.

Specifications

Closure type	**UCNCP 9-20 MAX**	**UCNCP 9-24 MAX**	**UCNCP 9-28 MAX**
Dimensions: DxL* (mm)	306 x 525	306 x 600	306 x 730
Max. tray capacity without/with extra buffer storage			
SC (SE)	48 / 24 (24 / 12)	72 / 36 (36 / 18)	120 / 60 (60 / 30)
Max. splice capacity without / with extra buffer storage			
SC/SE heat-shrink**	288 / 144	432 / 216	720 / 360
Raster units (six-fold)	2x4 / 1x4	2x6 / 1x6	2x10 / 1x10
Cable sheath opening (mm)			
Uncut cables	3600	3800	4100
Branching cables	1800	1900	2050
Storage uncut buffer tubes: max. no. of buffer tubes x length (# x mm)			
Without extra buffer storage	5 x 3600	6 x 3800	8 x 4100
With extra buffer storage	12 x 3600	18 x 3800	25 x 4100

Mechanical end-cap: number and outer diameter of cables	2 x 12-32 mm (cut/uncut) 6 x 12-25 mm (cut)	
Heat-shrink end-cap: number and outer diameter of cables	2 x12-37 mm (cut/uncut) 2 x 8-20 mm (cut) 3 x 14-25 mm (cut) 2 x 18-42 mm (cut)	

*The length of the heat-shrinkable version is 70 mm longer due to the heat-shrinkable sleeves.
** Each SC heat-shrink accommodates up to 6 splices while each SC crimp accommodates up to 12 splices, thus the closure capacity with SC trays for crimp splice protectors is double than the value here given. The capacity with SE crimp trays is the same as with SE heat-shrink trays.

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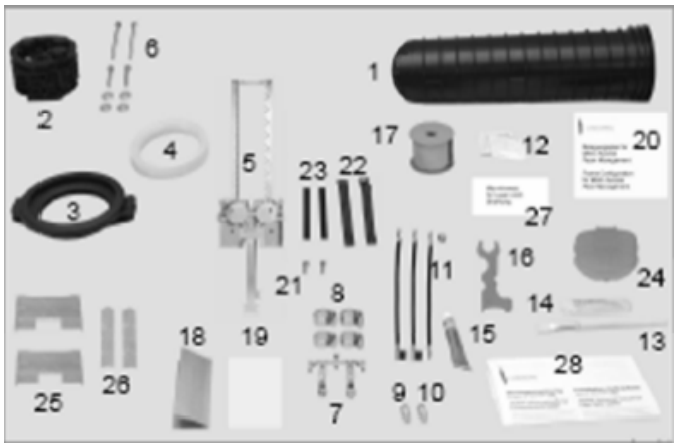
Kit contents: UCNCP MAX with mechanical end-cap:

Each closure kit contains all parts for installation of a branching joint including the equipment for up to three cables (up to two in the end-cap intersections and one in one branching port) and for fibre management. Application specific accessories such as splice trays and splice protectors have to be ordered separately.

Closure

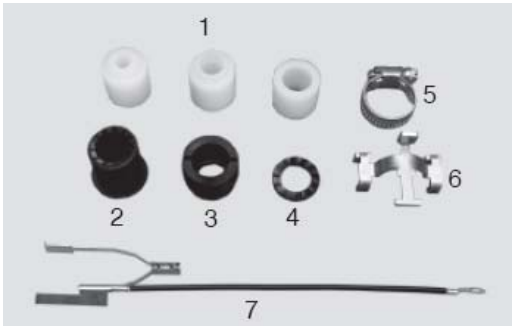
1. Closure canister.
2. End-cap.
3. Clamping ring.
4. Sealing ring.
5. Splice tray frame with MAX distribution elements.
6. Closing screws for end-cap.
7. Double brackets (strain relief for 2 cables).
8. Cable clamps.
9. Plug.
10. Grounding screws.
11. Central member strain relief and central member / cable armour grounding.
12. Cleaning tissues.
13. Brush.
14. Lubricant.
15. Sealing paste.
16. Wrap gauge / wrench.
17. Sealing tape Screws for tray holder.
18. Pre-cut sealing tape for end-caps.
19. Sleeving for buffer tube slack.
20. Frame configuration diagram.
21. Screws for mounting frame.
22. Felt strip for securing the trays
23. Felt strip for securing uncut buffer tubes.
24. Covers for Sc and SE splice trays.
25. Covers for distribution elements.
26. Covers for fibre channels.
27. Warning label for laser/LED radiation
28. Installation instructions.
29. Branching kit (not shown).



Kit contents: UCNCP MAX with mechanical end-cap

Branching kit for UCNCP MAX with mechanical end-cap (different sizes)

1. Silicon sealing rings.
2. Pressure screw.
3. Closing screw
4. Lock washer.
5. Cable clamp (worm drive).
6. Single bracket (strain relief for 1 cables).
7. Central member strain relief and central member / cable armour grounding.



Branching kit for UCNCP MAX with mechanical end cap

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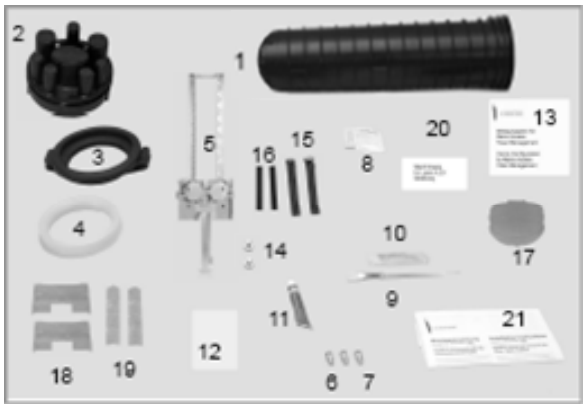
Kit contents: UCNCP MAX with heat-shrinkable end-cap:

Each closure kit contains all parts for installation of a branching joint including the equipment for up to two cables (in the oval port) and for fibre management. Application specific accessories such as splice trays and splice protectors have to be ordered separately.

Closure

1. Closure canister.
2. End-cap.
3. Clamping ring.
4. Sealing ring.
5. Splice tray frame with MAX distribution elements.
6. Plug.
7. Grounding screws.
8. Cleaning tissues.
9. Brush.
10. Lubricant.
11. Sealing paste.
12. Sleeving for buffer tube slack.
13. Frame configuration diagram.
14. Screws for mounting frame.
15. Felt strip for securing the trays.
16. Felt strip for securing uncut buffer tubes.
17. Covers for Sc and SE splice trays.
18. Covers for distribution elements.
19. Covers for fibre channels.
20. Warning label for laser/LED radiation
21. Installation instructions.
22. Heat-shrink kit for oval port (not shown)



Kit contents: UCNCP MAX with heat-shrinkable end-cap

Heat-shrink kit for oval port (included in closure kit)

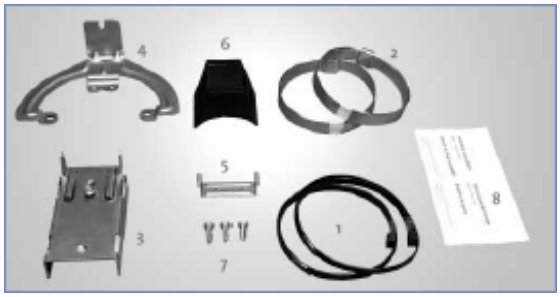
1. Heat-shrink sleeve.
2. Three finger branching clamp.
3. Cleaning tissues.
4. Flame protection foil.
5. Shield connection lead for two cables.
6. Emery strip.
7. Cable and central member strain relief elements with cable clamps.

Branching kit for UCNCP MAX with heat-shrinkable end-cap (to be ordered separately)

1. Heat-shrink sleeve.
2. Cleaning tissues.
3. Flame protection foil.
4. Shield connection lead for two cables.
5. Emery strip.
6. Cable and central member strain relief element with cable clamp.

Wall/pole mounting for UCNCP MAX both versions (to be ordered separately)

1. Ties to secure canister.
2. Clampimg bands for pole mounting.
3. Wall/pole holder.
4. Closure holding bracket (different for different closure sizes).
5. Mounting plate.
6. Canister holder.
7. Securing screws
8. Installation instructions.



Wall/pole mounting for UCNCP MAX

Installation support (to be ordered separately)

An installation support that can be clamped e.g. to a work bench is also available for fixing the closure temporarily in vertical position. It has to be used in combination with the closure holding bracket of the wall/pole mounting kit.

Installation support for UCNCP MAX

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Ordering information

UCNCP MFT with mechanical end-cap

Description	UCNCP 9-20 MAX Mechanical	UCNCP 9-24 MAX Mechanical.	UCNCP 9-28 MAX Mechanical.
Quantity per delivery unit	1/1	1/1	1/1
Order number	**S46998-A2-A160**	**S46998-A2-A117**	**S46998-A2-A118**

Description	UCNCP 9-20 MAX Mechanical with extra slack storage.	UCNCP 9-24 MAX Mechanical with extra slack storage.	UCNCP 9-28 MAX Mechanical with extra slack storage.
Quantity per delivery unit	1/1	1/1	1/1
Order number	**S46998-A2-A163**	**S46998-A2-A164**	**S46998-A2-A165**

UCNCP MFT with heat-shrinkable end-cap

Description	UCNCP 9-20 MAX Heat-shrinkable.	UCNCP 9-24 MAX Heat-shrinkable.	UCNCP 9-28 MAX Heat-shrinkable.
Quantity per delivery unit	1/1	1/1	1/1
Order number	**S46998-A2-A180**	**S46998-A2-A181**	**S46998-A2-A182**

Description	UCNCP 9-20 MAX Heat-shrinkable with extra slack storage.	UCNCP 9-24 MAX Heat-shrinkable with extra slack storage.	UCNCP 9-28 MAX Heat-shrinkable with extra slack storage.
Quantity per delivery unit	1/1	1/1	1/1
Order number	**S46998-A2-A183**	**S46998-A2-A184**	**S46998-A2-A185**

Accessories:

Splice trays

Part Number	Description	Quantity per delivery unit
S46998-A2-R93	SC splice tray for up to 6 heat-shrink splice protectors/tray.	6/1
S46998-A2-R94	SC splice tray for up to 12 crimp splice protectors/tray.	6/1
S46998-A2-R95	SE splice tray for up to 12 heat-shrink splice protectors/tray.	3/1
S46998-A2-R96	SE splice tray for up to 12 crimp splice protectors/tray.	3/1

Splice protectors

Part Number	Description	Quantity per delivery unit
S46998-A4-A29	Heat-shrink splice protectors, 45 mm long.	100/1
CSP-1	Crimp splice protectors, 30 mm long.	150/1

Cable entry kits (branching sets)

Part Number	Description	Quantity per delivery unit
46998-A2-R37	Branching set for UCNCP 9 mechanical (cable Ø 12-25mm)	1/1
S46998-M8-A1	Branching set for UCNCP heat-shrink, small (port Ø≤ 25mm)	1/1
S46998- M8-A2	Branching set for UCNCP heat-shrink, medium (port Ø≤ 35mm)	1/1
S46998- M8-A3	Branching set for UCNCP heat-shrink, large (port Ø≤ 48mm)	1/1
S46998-M8-A4	Oval port set for UCNCP 9 heat-shrink.	1/1

Accessories to replace extra slack storage by splice trays

Part Number	Description	Quantity per delivery unit
S46998-A2-R98	SC crimp splice tray set with fibre routing and tray holder.	6/1
S46998-A2-R99	SC heat-shrink splice tray set with fibre routing and tray holder.	6/1
S46998-A2-R100	SE crimp splice tray set with fibre routing and tray holder.	3/1
S46998-A2-R101	SE heat-shrink splice tray set with fibre routing and tray holder.	3/1
S46998-A2-R90	Fibre routing and tray holder set, for 6SC or 3 SE trays.	1/1

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Fixing devices

Part Number	Description	Quantity per delivery unit
S46998-M1-A5	Wall/pole mounting for UCNCP 9.	1/1
S45754-D1-A3	Aerial hanging device for UCNCP (all sizes).	1/1

Other branching sets with cable glands are available on request; e.g. for up to 4 cables or miniducts.

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FRECAP
with Evolant® MAX Fiber Routing System

Evolant® Solution Products
Product Description

Application

Corning´s FRECAP closure is based on a gel-sealing concepts. We believe that our closure makes the installation faster, easier and more practical than all other existing systems.
The cable entry is based on a reusable gel-sealing material with independent segments. Additionally the Evolant® MAX fiber routing and management system is designed to easily handle bare fibers and provide optimum flexibility at the interconnection, branching, distribution or access levels.

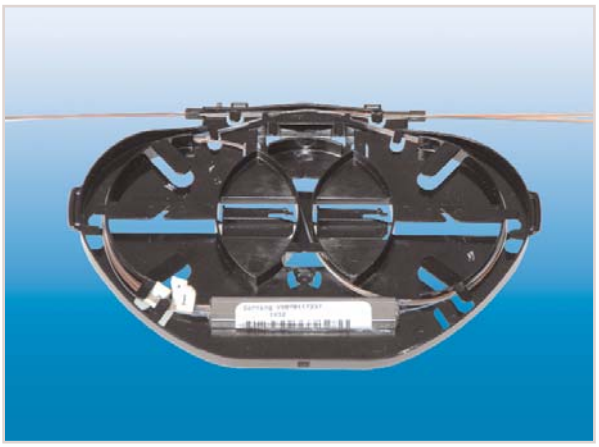
The Evolant® MAX is the new Corning Cable Systems standard to efficiently manage the final section of fiber routing and is commonly used for closures, wall boxes, ODFs and cabinets.

Features

The FRECAP Dome Closure is designed to give the maximum protection for the installed network against environmental influences. FRECAP closures provide the following features:

- Fast, easy and practical installation
- 6 independent segments of cable entries
- Reusable gel-sealing material
- Wide range of different cable diameters, 6-25mm
- Wide range of different cable types, incl. Minicables
- No special tools required
- Up to 720 fibers
- Single Circuit and Single Element Management
- Recommended for FTTX Networks
- Optimized for the usage of optical splitters
- IP 68
- Can be used in various environments:
  - Direct buried
  - Ducts and manholes
  - Aerial and poles

FRECAP Dome Closure with
Evolant® MAX Fiber Routing System



Coloured splice tray with 1:32 splitter

FRECAP
with Evolant® MAX Fiber Routing System

Evolant® Solution Products
Product Description

Closure End Cap

With our new FRECAP closure, the installation is faster, easier and more practical than ever before. The FRECAP has 6 independent segments of cable entries with a reusable gel-sealing material. A wide range of different cable diameters and cable types can be installed, without the need for additional accessories. Also during the installation of new cables and replacement of installed cables the working times are dramatically reduced - hence providing a significant CAPEX/OPEX cost savings. Additionally the FRECAP provides the MAX System with increased security. By successfully combining both systems with modern materials, you will get a product with the highest security standards available today. This provides the unique possibility to open single cable-entries without any impact on the cables that are already installed. This combination is unique. No special tools or heating are required for installation; dramatically reducing costs and improving safety.

MAX Management System

Each tray can be marked individually for identification and registration

Splice Trays

The Evolant® MAX system can be used with either single circuit (SC) or single element (SE) trays or a mixture of both, in accordance with the network requirements. Corning recommends the usage of SC trays. In a Single Element (SE) Network, the fibers from one buffer tube are always stored in one single splice tray. Most network operators are still using 12 fibers per tube. In addition the fibers from up to 6 individual customer drop cables are also guided to one single splice tray. In this case, if maintenance is later required then all the fibers must be taken out of the splice tray. Also, even though the maintenance work may only involve one customer, the maintenance work may often affect the other 5 customers' connections too. With SC Systems this entire risk is eliminated by only using 1 customer per splice tray.

One raster unit is required for the SC tray and two are required for the SE tray. Two SC trays can be replaced by one SE tray or vice versa.

Additional trays for optical splitters, water sensors or mechanical splices are available. Especially for optical splitter Corning recommends the usage of coloured splice trays.

The splice trays provide a complete fiber management system with overlength storage, bending control and the possibility of changing the fiber direction. Splice trays can be equipped with numbered and coloured rings; thus providing fast and secure access.

Evolant® MAX Fiber Routing and Management System

The Evolant® MAX Fiber routing and management system is built with an aluminium frame and pre-assembled with six-fold guiding units for the splice trays. These guiding units are on both sides of the frame or individually stacked with extensive buffer tube storage. When the buffer storage is removed, it is easy to snap in the guiding units to enlarge the splice tray capacity. The fiber itself is guided from the fixed cable end through distribution channels and threaded into the trays directly through the rotation point of the splice tray hinge. Therefore it is not necessary to guide the fibers behind the splice trays in order to avoid any crossings outside the splice trays. This patented method guarantees no stress on the fibers and will prevent any attenuation increases in case of future tray access. Splice trays adjust by themselves in the upper position eliminating the need to use additional fixing devices. A minimum bending radius of 30 mm is guaranteed.

Closure Strain Relief System

Strain relief is provided for the outer sheath and for the central strength member to combat mechanical forces. It is compatible with most common cables.

FRECAP

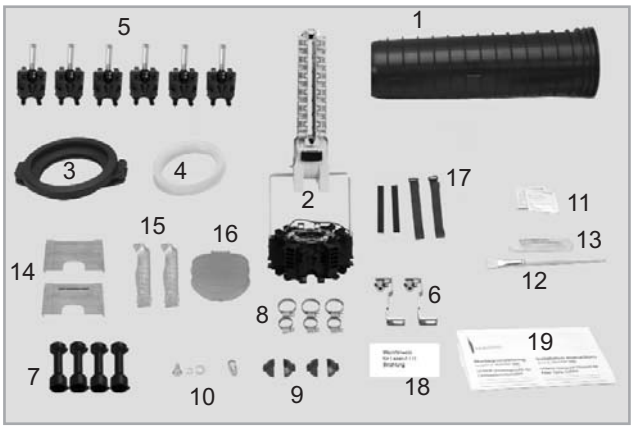
FRECAP
with Evolant® MAX Fiber Routing System

Evolant® Solution Products
Product Description

Content Closure Kit

FRECAP

1. Closure canister
2. End cap incl. fiber management frame
3. Clamping ring
4. Sealing ring
5. Sealing segments
6. Cable strain relief
7. Dummy plug
8. Cable clamps
9. Adapter for cable diameter ≤12.5mm
10. Grounding screw
11. Cleaning tissue
12. Brush
13. Lubricant
14. Cover for distribution element with 1 fiber tool
15. Cover for fiber guides
16. Cover for splive trays
17. Felt strip
18. Warning label for laser/LED radiation
19. Installation instructions



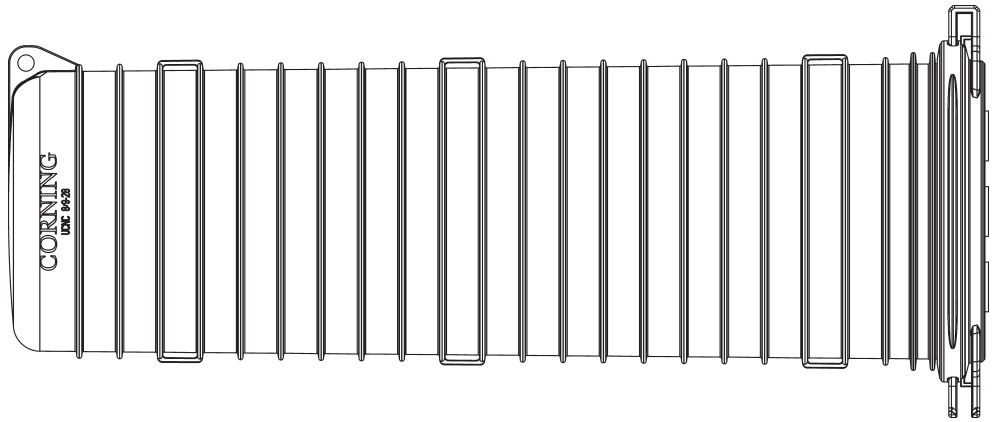
FRECAP
with Evolant® MAX Fiber Routing System

Evolant® Solution Products
Product Description

Specifications

Closure Type	FRECAP MAX 48	FRECAP MAX 72	FRECAP MAX 120
Dimension (mm)			
Length	525	600	730
Diameter max.	306	306	306
Diameter Dome	225	225	225
Capacity (pcs) **without extra buffer storage**			
SC trays	48	72	120
SE trays	24	36	60
SC trays 2Fiber/tray (Heat shrink or Crimp)	96	144	240
SC trays 6Fiber/tray (Heat shrink or Crimp)	288	432	720
SC trays 12Fiber/tray (Crimp only)	576	864	1440
SE trays 12Fiber/tray (Heat shrink or Crimp)	288	432	720
No. of raster units (sixfold)	2 x 4	2 x 6	2 x 10
Cable Sheath Opening, typical (m)			
Uncut cables	3.6	3.8	4.1
Branching cables	1.8	1.9	2.05
Uncut Buffer Storage (no. of cables x m)			
Between double stack	5 x 3.6	6 x 3.8	8 x 4.1
In extra buffer storage	12 x 3.6	18 x 3.8	25 x 4.1
Number and Diameter of Cable Entries (mm)			
6 cable entries for cut and uncut cable	6 - 25	6 - 25	6 - 25

Each of this 6 cable entries can be used with
Multi Cable Entry 4-fold 4x 3.5-8.5
Multi Cable Entry 3-fold 3x 6.5-10.0



Ordering Information

Order No.	Pos.	Type	Description	Max No. of Trays SC	SE
FRECAP Dome Closure with: Closures incl. necessary material to install 2 cables, 4 dummy plugs to close empty ports. Splice trays, splice protection and fixing device must be ordered separately					
S46998-A19-A10	1	FRECAP MAX 48	Dome closure with Gel End Cap	48	24
S46998-A19-A11	2	FRECAP MAX 72	Dome closure with Gel End Cap	72	36
S46998-A19-A12	3	FRECAP MAX 120	Dome closure with Gel End Cap	120	60
S46998-A19-A13	4	FRECAP MAX 48	Dome closure with large buffer storage and Gel End Cap	24	12
S46998-A19-A14	5	FRECAP MAX 72	Dome closure with large buffer storage and Gel End Cap	36	18
S46998-A19-A15	6	FRECAP MAX 120	Dome closure with large buffer storage and Gel End Cap	60	30

Accessories

Order No.	Pos.	Type	Description	Pieces
Splice trays				
S46998-A2-R93	7	SC splice tray set	SC for crimp splice protector	6
S46998-A2-R94	8	SC splice tray set	SC for heat-shrink splice protector	6
S46998-A2-R95	9	SE splice tray set	SE for crimp splice protector	3
S46998-A2-R96	10	SE splice tray set	SE for heat-shrink splice protector	3
S46998-A2-R97	11	SE splice tray splitter	SE for optical splitter or water sensor	1
on request	12	SE splice tray, black 1x4, 1x8, 1x16 or 1x32	For Planar optical splitter,	1
on request	13	SE splice tray, black, 1x2	For 3 FBT optical splitter,	1
Branching sets				
S46998-A19-R21	14	FRECAP branching set	For cable with dia. 6-25mm	1
S46998-A19-R20	15	FRECAP grounding set	Cable grounding	1
Fixing devices				
S46998-A19-R23	16	Wall / Pole mounting device		1
S46998-A19-R22	17	Table mounting set		1
Splice protection				
S46998-A4-A29	18	Heat-shrink splice protector	Length 45mm	100
CSP-1	19	Crimp splice protector	Length 30mm	150
Spare parts				
S46998-A19-R27	20	Dummy plug	To close empty ports	1
S46998-A19-R28	21	Cable adapter	For cable up to 12.5mm, 2pcs per port needed	12
Test accessories				
C45402-Z3-C31	22	Valve for tightness testing		1
Parts to replace the buffer storage by fiber routing guides				
S46998-A2-R98	23	SC splice tray set with fiber routing and tray holder set	SC for crimp splice protector	6
S46998-A2-R99	24	SC splice tray set with fiber routing and tray holder set	SC for heat-shrink splice protector	6
S46998-A2-R100	25	SE splice tray set with fiber routing and tray holder set	SE for crimp splice protector	3
S46998-A2-R101	26	SE splice tray set with fiber routing and tray holder set	SE for heat-shrink splice protector	3
S46998-A2-R90	27	Fiber routing and tray holder set	For 6 SC or 3 SE splice trays	1

FRECAP
with Evolant® MAX Fiber Routing System

Evolant® Solution Products
Product Description

Minicables

Especially for the usage of Minicables as well as cables with small diameters, Corning has developed a multi cable entry kit with various functions.

Multi cable entry

The multi cable entry is available at two sizes:

4-fold for cable diameter from 3.5-8.5mm

3-fold for cable diameter from 6.5-10.0mm

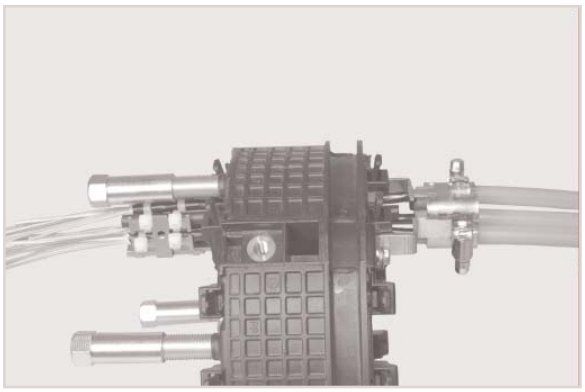
It will be delivered with multi-sealing, cable strain relief inside and dummy plugs to close empty ports. Additional cables can be installed later one. It is only necessary to take the dummy plug out. At this step, we recommend to replace the 4-fold or 3-fold gel-sealing.

Micro Duct strain relief, outside

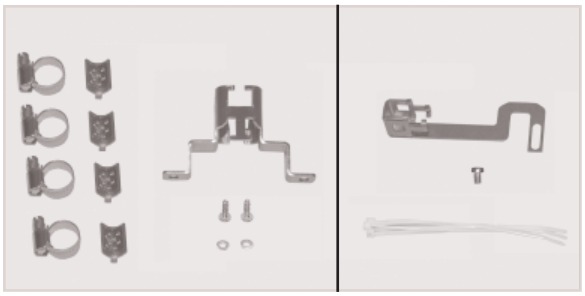
For higher protection it is recommended to fix the micro ducts outside the closure. These reduce the risk to damage the thin cables if cable or closure will be stored within the manhole.

Central member strain relief, multiple

If minicables with central member are in use and this elements needs to be fixed, it is necessary to order the optional central member strain relief, multiple.



Multicable entry,
with optional strain relief outside



left side: Micro duct strain relief, outside

right side: central member strain relief, multiple

Ordering Information

Accessories

Order No.	Pos.	Type	Description	Pieces
Branching sets				
S46998-A19-R40	1	FRECAP Multi Cable Entry 4-fold	For 4 cable with dia. 3.5-8.5mm	1
S46998-A19-R41	2	FRECAP Multi Cable Entry 3-fold	For 3 cable with dia. 6.5-10.0mm	1
Strain relief				
S46998-A19-R42	3	Micro duct strain relief, outside	For Multi Cable Entry 4-fold	1
S46998-A19-R49	4	Micro duct strain relief, outside	For Multi Cable Entry 3-fold	1
S46998-A19-R43	5	Central member strain relief, multiple		1
Spare parts				
S46998-A19-R47	6	Gel Seal 4-fold		10
S46998-A19-R48	7	Gel Seal 3-fold		10

FRECAP
with Evolant® MAX Fiber Routing System

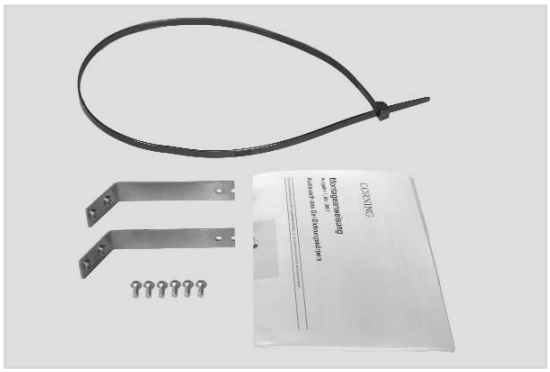
Evolant® Solution Products
Product Description

Civil work damages

Within city networks it is typical to encounter a lot of civil engineering activity. A by-product of this work is that cables and occasionally closures are damaged and must be replaced. Additionally, some planned works (e.g. pipe laying) make it necessary to re-route existing cables. Corning has developed and field tested some toolkits that will assist in these circumstances.

- End cap repair kit: If the end cap of the closure is damaged, this kit will enable a fast and secure replacement of the end cap without disturbing the existing cables in the closure.

- Cable replacement tool: This kit enables the safe removal of an existing cable and ensures the subsequent integrity of the closure.



End cap repair set

Cable replacement tool

Order No.	Pos.	Type	Description	Pieces
Repair sets				
S46998-A19-R29	1	Cable replacement tool	Support to take used cable out of the system	1
S46998-A19-R24	2	End cap replacement set	To replace the complete end cap in case of damage	1
S46998-A19-R25	3	End cap repair set	Support tool to replace damaged end cap	1
S46998-A19-R26	4	Sealing segment repair set	Set to replace damages to the sealing elements	1

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Email for all locations: emea.cs@corning.com / web: www.corning.com/cablesystems

Evolant® OptiDome™

An Evolant® Solutions Product

Product Description

Application

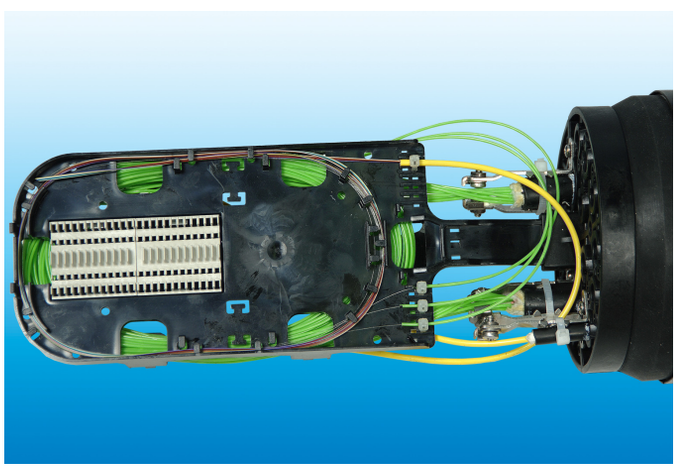
Corning's Evolant® OptiDome™ closure is based on our new gel-sealing concept. The small housing provides capacity for 48 splices and 12 cable entries. In addition an optical splitter up to 2x16 can be used. This feature is perfect for use within access and distribution networks, as well as for FTTH applications.

OptiDome™

Design

The gel endcap has two sections for the practical installation of uncut cables. Both parts simply snap together with no screws required. This makes the installation both fast and simple. An additional 2 branching and 8 drop cables can be used, if necessary. These ports are closed but can be opened easily by using the dummy plugs supplied.

It is also possible to store uncut buffer tubes as well as uncut fibers. The integrated splice tray provides a capacity for either 48 splices; or 24 splices plus one optical splitter. The closing of the cable sealing and the closure can be carried out simultaneously in one step by simply turing the locking ring. This helps reduce installation time whilst ensuring successful installations.



Fiber Management

Optional components making the system complete include:

- External grounding
- Valve for flush test
- Pole/wall mounting device

Features

- Fast, easy and practical installation
- Reusable gel-sealing material
- 12 cable entries for different cable diameters
- No special tools required
- Up to 48 splices
- IP 68
- Optimised for the usage of an optical splitter up to 2x16
- Can be used in various environments:
  - Manholes
  - Poles

Evolant® OptiDome™

An Evolant® Solutions Product

Product Description

Content Closure Kit

1. Gel End Cap
2. Dome with locking ring
3. Fiber management
4. Strain relief mounting bolts
5. Strain relief
6. Cable entry guide/filter plug
7. Cable ties
8. Brush
9. Silicone grease
10. Installation instructions

Specifications

Closure Type	OptiDome™
Dimensions (mm)	
Length	349
Diameter max.	162
Capacity (No. of splices)	
Without optical splitter	48
With 1 optical splitter	24
Cable Sheath Opening, typical (m)	
Uncut cables	4.7
Branching cables	2.4
Number and Diameter of Cable Entries (mm)	
Main cable, cut and uncut	2x 10-17
Branching cable, cut	2x 8-13
Drop cable, cut	8x 4.8-10

Evolant® OptiDome™

An Evolant® Solutions Product

Product Description

Ordering Information

Order No.	Pos.	Type	Description	Pieces
S46998-A22-A1	1	OptiDome	Closure to install and fix 2 main cables including splice tray for 48 splices	1 set
Branching sets				
S46998-A22-R2	2	Strain relief kit	For 2 branching cables or 4 drop cables	1 set
Fixing Devices				
S46998-A22-R3	3	Wall/Pole mounting device		
Splice protection				
S46998-A4-A29	4	Heat-shrink splice protector	Length 45mm	100
Spare parts				
S46998-A22-R5	5	Dummy plugs	To close empty ports	20
Test accessories				
S46998-A22-R4	6	Valve for tightness testing		
Tool				
S46998-A22-R7	7	Tool	OptiDome™ Closing Aid Kit	1

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Email for alll locations: emea.cs@corning.com/web:www.corning.com/cablesystems

UCAO MFT 7
Inline Closure with Multi-Function Tray (MFT)

Evolant® Solution Products
Product Description

Application

The UCAO Closure provides environmentally protected sealing on splices of fiber optic cables. In addition, the unit provides excellent cable strain relief and space for excess buffer tube storage. It can be installed with all common cable sheaths and is suitable for buried, duct and aerial applications. Due to its compact design, it is ideal for the connection of low to medium number of distribution cables. The ease of opening and closing makes this closure ideal for access networks.

Inline Closure UCAO MFT 7

Features

- Suitable for buried, duct and aerial lines
- For straight and branching application
- Fast and easy access to individual splice trays
- Capacity for up to 168 splices
- Closure sealing made of re-usable silicone
- IP 68

Design

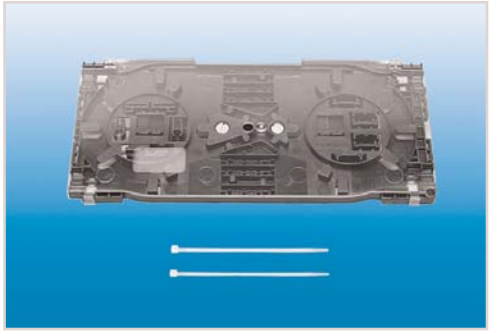
The body of the closure consists of two half shells made of plastic that is resistant against all common environmental influences. The intersection of the half shells is sealed with a reusable silicone ring. The closure has an integral hinge on the top and five stainless steel and plastic tensioners on the botton.

The tensioners can be closed by hand and easily opened with a screwdriver. To prevent unauthorized access, an anti-access device option can be installed on the clips. The two cable entries on each endface of the closure can accommodate cables with outer diameters of up to 21 mm. The cable entries are placed between the cable entry wedges in the lower half shell. With a four-cable entry set, including multiple strain relief and a filling piece, each cable entry can be adapted to fit four cables of up to 8 mm in diameter. Alternatively, a closure with sealing wedges, each containing one port with compression fittings, is available.

These ports simplify the installation of branching cables in the event of future demand. Both the cable sheath and the central members are strain relieved with clamps locked into the lower half shell. The same clamps provide an electrical connection and external grounding if required. The tightness of the closure can be flash-tested by using the optional tightness testing set.

Features Multi-Function Tray:

- Up to 7MFT trays, locked in position
- Up to 24-fiber splice capacity per tray
- Minimum fiber bend controls
- Individual tray access
- Multiple tray mounting access



MFT splice tray

UCAO MFT 7
Inline Closure with Multi-Function Tray (MFT)

Sales & Marketing Carrier EMEA

Evolant® Solution Products
Product Description

Fiber Managment

The splice trays will be inserted into the lower half shell. It can accommodate between two and up to seven MFT splice trays with a fast and easy single tray access. The buffer tubes can be installed directly up to the splice trays. With an optional buffer adapter set the fibers from one tube can be separated and routed into differently tubes. Alternatively, fibers from different tubes can be brought together into one tube. Each MFT splice tray provides 4 buffer tubes entries.

Management of the Buffer Tubes

Specifications

Type	Number and Outer Diameter of Cable	Number of MFT Splice Trays	Splice Capacity	Length of Buffer Tubes (mm)
UCAO 4-9 Standard	4 x up to 21 mm *	up to 7 (min. 2)	168	1500 (cut) 2400 (uncut)
UCAO 4-9 with Compression Fittings	2 x up to 21 mm * 2 x 8 to 13 mm	up to 7 (min. 2)	168	1500 (cut) 2400 (uncut)

* Each of this cable entry can be adapted to fit four cables of up to 8 mm in diameter

Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
UCAO 4-9	378	160	118	2.4
UCAO 4-9 with Compression Fittings	404	160	118	2.4

UCAO MFT 7
Inline Closure with Multi-Function Tray (MFT)

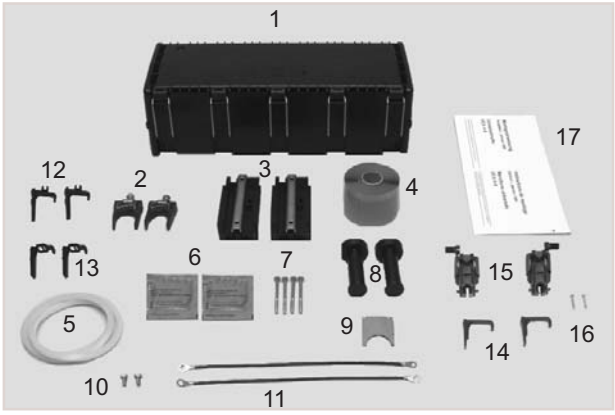
Evolant® Solution Products
Product Description

Kit Content

Each closure kit contains all parts for installation of a straight joint including the equipment for fiber management. Application specific accessories such as splice trays and splice protectors have to be ordered separately.

Closure Content

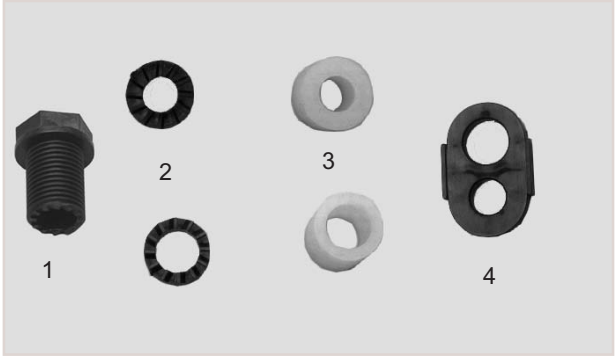
1. Closure with tensioners
2. Strain relief with screw and contact plate
3. Sealing wedge with metal bracket
4. Sealing tape
5. Sealing
6. Cleaning tissue
7. Screws for sealing wedge
8. Dummy plug
9. Wrap gauge
10. Grounding screw
11. Shield connection lead
12. Tray holder
13. Holder for locking element
14. Buffer holder
15. Strain relief for central member
16. Screws
17. Installation instructions



Kit Content UCAO MFT7

Compontents for Cable Entry Wedge with Compression Fittings

1. Threaded plug
2. Washer
3. Sealing
4. Supporting plate



Compression Fittings

UCAO MFT 7
Inline Closure with Multi-Function Tray (MFT)

Sales & Marketing Carrier EMEA

Evolant® Solution Products
Product Description

Ordering Information

Order No.	Pos.	Type		Pieces
Inline Closure with external grounding: Closures with necessary material to install and ground 2 cables. For additional cables, the following parts must be used: Branching set and Sealing tape. Splice trays, covers for splice trays, splice protection and fixing device must be ordered separately.				
S45754-A3-A60	1	UCAO MFT 7	UCAO Inline Closure for 7 MFT splice trays	1 set
Inline Closure with compression fittings, with external grounding: Closures with necessary material to install and ground 2 cables. For additional cables, the following parts must be used: Branching set Splice trays, covers for splice trays, splice protection and fixing device must be ordered separately.				
S45754-A3-A59	2	UCAO MFT 7 with compression fittings	UCAO Inline Closure for 7 MFT splice trays	1 set

Accessories

Order No.	Pos.	Type	Description	Pieces
S46998-A4-A60	3	Splice tray MFT	For 24 shrink splice protection	10
S46998-A4-A61	4	Splice tray MFT	For 24 crimp splice protection	10
S46998-A4-A48	5	Cover for Splice tray MFT		10
S46998-A6-R1	6	Branching set UCAO without comp. fittings	Cable and central member strain relief and shield connection for 10 cables	1 set
S46998-A6-R2	7	Grounding set	For 10 cables	1 set
S45754-A3-R25	8	Branching set UCAO with compression fittings	Set with gland and strain rellief for 1 cable	1 set
S45756-M7-A2	9	4-Cable entry set	Including strain relief elements	10
S45756-M5-A7	10	System for tightness testing	Including valve, plug, sealing paste	10
S45756-M5-A2	11	Wall / Pole mounting		1
S45756-M5-A1	12	Aerial hanging device		1
S45756-M2-A2	13	Sealing tape	Roll with 1.6m	10
S45756-M3-A2	14	Anti-access device	Protection against opening without tools	1
S46999-A16-A4	15	Heat-shrink splice protectors	Length 60 mm	100
S46998-A4-A29	16	Heat-shrink splice protectors	Length 45 mm	100
CSP-1	17	Crimp splice protector	Length 30mm	150
S46998-A2-R85	18	Buffer adapter set 1-1	Spiral wrap and adapter to connect one buffer to one spiral wrap	4
S46998-A2-R84	19	Buffer adapter set 2-1	Spiral wrap and adapter to connect one buffer to two spiral wraps or two buffers to one spiral wrap	4
S46998-A2-R83	20	Buffer adapter set 3-1	Spiral wrap and adapter to connect one buffer to three spiral wraps or three buffers to one spiral wrap	4

Corning Cable Systems GmbH & Co. KG · Leipzigerstr 121 · 10117 Berlin, Germany
Fax: +49 30 5303 2334 · emea.cs@corning.com · http://www.corning.com/cablesystems

7 Cable Assembly Houses

7.1. Connectors

7.1.1. SC

7.1.2. ST

7.1.3. FC

7.1.4. LC

7.1.5. Accessories (Single-Fibre Boots, Crimp, Clips)

7.2. MT-RJ Connectors

7.3. Fan Out Tubing

7.4. Adapters

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Applications

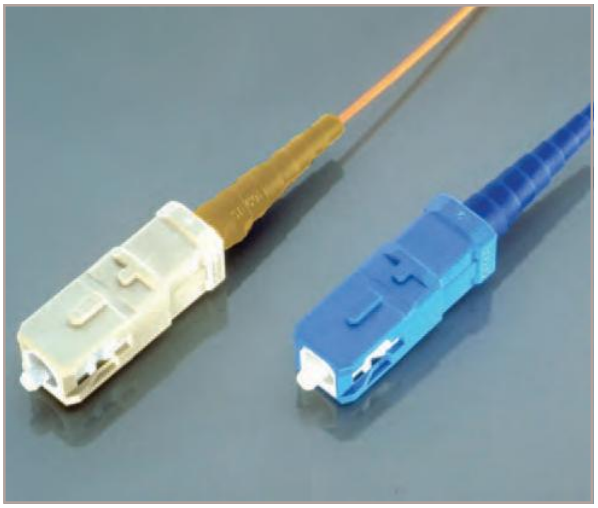
- Building wiring applications
- Ideal for connector assembly house applications in patch cord manufacturing
- Mass terminations when material cost is the main consideration
- Applications requiring low connector reflectance

Description

The Corning Cable Systems Plus Corning heat-cured product line includes a full selection of single-mode and multimode epoxy and polish connectors for factory cable assembly installation. We offer a wide range of connector styles, hardware and boot options. In today's market with low-cost imitations, Corning Cable Systems continues to offer high quality, pre-assembled connectors in order to give you the confidence of delivering a quality cable assembly to your end customer.

The Coring Cable Systems single-mode, pre-radiused ceramic ferrule connectors can be polished to Ultra PC (ultra-physical contact, ≤ 55 dB back reflectance) performance. For angled PC (APC), the FC, LC and SC are available with a pre-angled 8 degree end-face. The polymer multimode ferrule offers excellent performance at an economical price. The zirconia ceramic multimode ferrule is offered standard with a pre-radiused end-face.

The standard recommended procedures provided with our connectors indicate proper polishing pressure, time and polishing films when using automated polishing machines. Correct processes coupled with a high-quality, pre-radiused ferrule ensure excellent performace and yield every time. Additionally, pre-ground APC and pre-radiused ferrules allow for a faster and more efficient polishing process without the need for long, expensive, diamond polishing steps often required with lower quality ferrules. Field installation kits are available for hand polishing as well.



Heat-Cure SC Connectors

Heat-Cure LC Connector

The bayonet hardware on the ST® Compatible connector is available in either thermoplastic or metal. The LC and SC connectors have shrouds which are duplexable after installation when used with the duplex clips. The FC and SC connectors have non-optical disconnect features. All connectors are pre-assembles for easy installation. Additionally, a lead-in tube inside the crimp body ensures epoxy is contained and helps with fiber insertion.

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Features / Benefits

- Bulk packaging for easier parts management
- Angled PC (8°) available in FC, LC and SC
- Pre-radiused zirconia ceramic ferrule; Ultra PC possible
- Multimode polymer ferrule provides low cost option with performance similar to ceramic
- Connectors are pre-assembled for reduced installation time (ferrule, ferrule holder, spring, crimp body and primary connector housing provided as one piece)
- Segmented-design boots provide improved mechanical performance
- New crimp ring with jacket retention for 1.6, 2.0 and 3.0 mm cable
- Boot size and color options
- SC, ST compatible and FC meet TIA/EIA-568-B.3 standard; SC and LC are duplexable
- FC and SC have non-optical disconnect feature
- 90 degree boot clips are available as add-on accessories
- Connectors branded as

Specifications

Parameter	Single-mode	Multimode
Interconnection Compatibility	Compliant with TIA/EIA 604-2 (ST compatible), 604-3 (SC), 604-4 (FC) and 604-10 (LC)	
Insertion Loss (average)	0.2 dB	Polymer ferrule: 0.2 dB Standard ceramic ferrule: 0.2 dB
Reflectance	< -30 dB for PC < -40 dB for Super PC < -55 dB for Ultra PC < -65 dB for Angled PC	-20 dB -20 dB -20 dB -20 dB
Durability	≤ 0.2 dB change, 500 rematings, FOTP-21 (500 rematings for LC)	≤ 0.2 dB change, 500 rematings, FOTP-21 (500 rematings for LC)
Tensile Strength	≤ 0.2 dB change, 20 lb, FOTP-6	≤ 0.2 dB change, 20 lb, FOTP-6
Temperature Cycling	-40° to +75°C, 21 cycles, < 0.3 dB change	-40° to +75°C, 21 cycles, < 0.3 dB change
Material	Ferrule: Pre-radiused zirconia, Housing: Thermoplastic or metal, as specified by part number	Ferrule: Pre-radiused zirconia, Housing: Thermoplastic or metal, as specified by part number

Note: SC connector is not available with metal housing.

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

All components are packaged in bags of 100 pieces unless specified otherwise. Single connectors are also available; to order, replace the BP-suffix on the connector part number with SP. The SP-versions are delivered with connector, dust cap, crimp rings for 1.6-2 mm and 3 mm cable application, and boots for 900 µm, 1.6-2 mm and 3 mm cables.

1. Order the connector.

SC Connectors

Part Number	Description	Quantity per Delivery Unit
95-250-08-BP	SC single-mode, epoxy and polish connector, ceramic ferrule (125.5 µm hole diameter), blue housing, dust cap, without boot or crimp ring, Plus Corning logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-211-08-BP	SC APC 8° single-mode, epoxy and polish connector, ceramic ferrule (125.5 µm hole diameter), pre-angled, green housing, dust cap, without boot or crimp ring, Plus Corning logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-050-48-BP	SC multimode, epoxy and polish connector, ceramic ferrule, black housing (50 µm), dust cap, without boot or crimp ring, Plus Corning logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-100-48-BP	SC multimode, epoxy and polish connector, ceramic ferrule, beige housing (62.5 µm), dust cap, without boot or crimp ring, Plus Corning logo, bulk pack (order in multiples of 100)	100

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

SC Connectors (continued)

Part Number	Description	Quantity per Delivery Unit
95-100-03-BP	SC multimode, epoxy and polish connector, composite ferrule, beige plastic body (62.5 µm), dust cap, without boot or crimp ring, Plus Corning logo, bulk pack (order in multiples of 100)	100

ST ® Compatible Connectors

Part Number	Description	Quantity per Delivery Unit
95-251-49-BP	ST single-mode, epoxy and polish connector, ceramic ferrule (125.5 µm hole diameter), metal bayonet/body, dust cap, without boot or crimp ring, no logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-101-49-BP	ST multimode, epoxy and polish connector, ceramic ferrule, metal bayonet/body, dust cap, without boot or crimp ring, no logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-250-06-BP	ST single-mode, epoxy and polish connector, ceramic ferrule (125.5 µm hole diameter), blue plastic bayonet/body (single-mode), dust cap, without boot or crimp ring, no logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-050-44-BP	ST multimode, epoxy and polish connector, ceramic ferrule, black plastic bayonet/body (50 µm), dust cap, without boot or crimp ring, no logo, bulk pack (order in multiples of 100)	100

Heat-Cure Single-Fiber Connectors

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Ordering Information

ST® Compatible Connectors (continued)

Part Number	Description	Quantity per Delivery Unit
95-100-44-BP	ST multimode, epoxy and polish connector, ceramic ferrule, beige plastic bayonet/body (62.5 µm), dust cap, without boot or crimp ring, no logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-100-02-BP	ST multimode, epoxy and polish connector, composite ferrule, black plastic bayonet/body (62.5 µm), dust cap, without boot or crimp ring, no logo, bulk pack (order in multiples of 100)	100

FC Connectors

Part Number	Description	Quantity per Delivery Unit
95-250-10-BP	FC single-mode, epoxy and polish connector, ceramic ferrule (125.5 µm hole diameter), metal threaded housing, dust cap, without boot or crimp ring, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-211-10-BP	FC APC 8° single-mode, epoxy and polish connector, ceramic ferrule (125.5 µm hole diameter), pre-angled, metal threaded housing, dust cap, without boot or crimp ring, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-100-10-BP	FC multimode, epoxy and polish connector, ceramic ferrule, metal threaded housing, dust cap, without boot or crimp ring, no logo, bulk pack (order in multiples of 100)	100

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

LC Connectors

Part Number	Description	Quantity per Delivery Unit
95-250-LC-BP	LC single-mode, epoxy and polish connector, ceramic ferrule 1.25 mm (125.5 µm hole diameter), blue housing, dust cap, without boot, crimp ring or trigger, Plus Corning logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-211-LC-BP	LC APC 8° single-mode, epoxy and polish connector, ceramic ferrule 1.25 mm (125.5 µm hole diameter), green housing, dust cap, without boot, crimp ring or trigger, Plus Corning logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-050-LC-BP	LC multimode, epoxy and polish connector, ceramic ferrule 1.25 mm, black housing (50 µm), dust cap, without boot, crimp ring or trigger, Plus Corning logo, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-100-LC-BP	LC multimode, epoxy and polish connector, ceramic ferrule 1.25 mm, beige housing (62.5 µm), dust cap, without boot, crimp ring or trigger, Plus Corning logo, bulk pack (order in multiples of 100)	100

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

2. Order the crimp ring

Part Number	Description	Quantity per Delivery Unit
95-400-09-BP26	Crimp ring with jacket retention for SC/FC/ST (1.6-2 mm), use with crimp tool 3201031-01, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-400-09-BP3	Crimp ring with jacket retention for SC/FC/ST (3 mm), use with crimp tool 3201031-01, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-400-12-BP26	Crimp ring with jacket retention for LC (1.6-2 mm), use with crimp tool 3201032-01, bulk pack (order in multiples of 100)	100

Part Number	Description	Quantity per Delivery Unit
95-400-12-BP3	Crimp ring with jacket retention for LC (3 mm), use with crimp tool 3201032-01, bulk pack (order in multiples of 100)	100

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

3. Order the boot (bulk packs)

Boots for SC/ST/FC Connectors, 900µm

Part Number	Description	Quantity per Delivery Unit
95-400-08-BP9A	Boot 900 µm for SC/ST/FC, aqua, with Plus Corning Logo	100
95-400-08-BP9B	Boot 900 µm for FC/ST/SC, black, with Plus Corning Logo	100
95-400-08-BP9C	Boot 900 µm for FC/ST/SC, charcoal gray, with Plus Corning Logo (not shown)	100
95-400-08-BP9G	Boot 900 µm for FC/ST/SC, green, with Plus Corning Logo	100
95-400-08-BP9K	Boot 900 µm for FC/ST/SC, beige, with Plus Corning Logo	100
95-400-08-BP9N	Boot 900 µm for FC/ST/SC, blue, with Plus Corning Logo	100
95-400-08-BP9R	Boot 900 µm for FC/ST/SC, red, with Plus Corning Logo	100
95-400-08-BP9W	Boot 900 µm for FC/ST/SC, white, with Plus Corning Logo	100
95-400-08-BP9Y	Boot 900 µm for FC/ST/SC, yellow, with Plus Corning Logo	100

Boots for SC Connectors, 1.6-2 mm

Part Number	Description	Quantity per Delivery Unit
95-400-31-BP2A	Boot 1.6-2 mm for SC, aqua, no logo, for use with jacket retention crimp ring	100
95-400-31-BP2B	Boot 1.6-2 mm for SC, black, no logo, for use with jacket retention crimp ring	100
95-400-31-BP2C	Boot 1.6-2 mm for SC, charcoal gray, no logo, for use with jacket retention crimp ring (not shown)	100
95-400-31-BP2G	Boot 1.6-2 mm for SC, green, no logo, for use with jacket retention crimp ring	100
95-400-31-BP2K	Boot 1.6-2 mm for SC, beige, no logo, for use with jacket retention crimp ring	100
95-400-31-BP2N	Boot 1.6-2 mm for SC, blue, no logo, for use with jacket retention crimp ring	100
95-400-31-BP2R	Boot 1.6-2 mm for SC, red, no logo, for use with jacket retention crimp ring	100
95-400-31-BP2W	Boot 1.6-2 mm for SC, white, no logo, for use with jacket retention crimp ring	10
95-400-31-BP2Y	Boot 1.6-2 mm for SC, yellow, no logo, for use with jacket retention crimp ring	100

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

Boots for SC Connectors, 3 mm

Part Number	Description	Quantity per Delivery Unit
95-400-31-BP3A	Boot 3 mm for SC, aqua, no logo, for use with jacket retention crimp ring	100
95-400-31-BP3B	Boot 3 mm for SC, black, no logo, for use with jacket retention crimp ring	100
95-400-31-BP3C	Boot 3 mm for SC, charcoal gray, no logo, for use with jacket retention crimp ring (not shown)	100
95-400-31-BP3G	Boot 3 mm for SC, green, no logo, for use with jacket retention crimp ring	100
95-400-31-BP3K	Boot 3 mm for SC, beige (khaki), no logo, for use with jacket retention crimp ring	100
95-400-31-BP3N	Boot 3 mm for SC, blue, no logo, for use with jacket retention crimp ring	100
95-400-31-BP3R	Boot 3 mm for SC, red, no logo, for use with jacket retention crimp ring	100
95-400-31-BP3W	Boot 3 mm for SC, white, no logo, for use with jacket retention crimp ring	100
95-400-31-BP3Y	Boot 3 mm for SC, yellow, no logo, for use with jacket retention crimp ring	100

Boots for ST®/FC Connectors, 1.6-2 mm

Part Number	Description	Quantity per Delivery Unit
95-400-32-BP2A	Boot 1.6-2 mm for ST/FC, aqua, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP2B	Boot 1.6-2 mm for ST/FC, black, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP2C	Boot 1.6-2 mm for ST/FC, charcoal gray, Plus Plus Corning logo, for use with jacket retention crimp ring (not shown)	100
95-400-32-BP2G	Boot 1.6-2 mm for ST/FC, green, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP2K	Boot 1.6-2 mm for ST/FC, beige, Plus Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP2N	Boot 1.6-2 mm for ST/FC, blue, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP2R	Boot 1.6-2 mm for ST/FC, red, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP2W	Boot 1.6-2 mm for ST/FC, white, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP2Y	Boot 1.6-2 mm for ST/FC, yellow, Plus Corning logo, for use with jacket retention crimp ring	100

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

Boots for ST/FC Connectors, 3 mm

Part Number	Description	Quantity per Delivery Unit
95-400-32-BP3A	Boot 3 mm for ST/FC, aqua, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP3B	Boot 3 mm for ST/FC, black, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP3C	Boot 3 mm for ST/FC, charcoal gray, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP3G	Boot 3 mm for ST/FC, green, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP3K	Boot 3 mm for ST/FC, beige, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP3N	Boot 3 mm for ST/FC, blue, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP3R	Boot 3 mm for ST/FC, red, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP3W	Boot 3 mm for ST/FC, white, Plus Corning logo, for use with jacket retention crimp ring	100
95-400-32-BP3Y	Boot 3 mm for ST/FC, yellow, Plus Corning logo, for use with jacket retention crimp ring	100

Boots for LC Connectors, 900µm

Part Number	Description	Quantity per Delivery Unit
95-400-11-BP9A	Boot 900 µm for LC, aqua, no logo	100
95-400-11-BP9B	Boot 900 µm for LC, black, no logo	100
95-400-11-BP9C	Boot 900 µm for LC, charcoal gray, no logo (not shown)	100
95-400-11-BP9G	Boot 900 µm for LC, green, no logo	100
95-400-11-BP9K	Boot 900 µm for LC, beige, no logo	100
95-400-11-BP9N	Boot 900 µm for LC, blue, no logo	100
95-400-11-BP9R	Boot 900 µm for LC, red, no logo	100
95-400-11-BP9W	Boot 900 µm for LC, white, no logo	100
95-400-11-BP9Y	Boot 900 µm for LC, yellow, no logo	100

Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

Boots for LC Connectors, 1.6-2 mm

Part Number	Description	Quantity per Delivery Unit
95-400-11-BP2A	Boot 1.6-2 mm for LC, aqua, no logo, for use with jacket retention crimp ring	100
95-400-11-BP2B	Boot 1.6-2 mm for LC, black, no logo, for use with jacket retention crimp ring	100
95-400-11-BP2C	Boot 1.6-2 mm for LC, charcoal gray, no logo, for use with jacket retention crimp ring (not shown)	100
95-400-11-BP2G	Boot 1.6-2 mm for LC, green, no logo, for use with jacket retention crimp ring	100
95-400-11-BP2K	Boot 1.6-2 mm for LC, beige, no logo, for use with jacket retention crimp ring	100
95-400-11-BP2N	Boot 1.6-2 mm for LC, blue, no logo, for use with jacket retention crimp ring	100
95-400-11-BP2R	Boot 1.6-2 mm for LC, red, no logo, for use with jacket retention crimp ring	100
95-400-11-BP2W	Boot 1.6-2 mm for LC, white, no logo, for use with jacket retention crimp ring	100
95-400-11-BP2Y	Boot 1.6-2 mm for LC, yellow, no logo, for use with jacket retention crimp ring	100

Boots for LC Connectors, 3 mm

Part Number	Description	Quantity per Delivery Unit
95-400-11-BP3A	Boot 3 mm for LC, aqua, no logo, for use with jacket retention crimp ring	100
95-400-11-BP3B	Boot 3 mm for LC, black, no logo, for use with jacket retention crimp ring	100
95-400-11-BP3C	Boot 3 mm for LC, charcoal gray, no logo, for use with jacket retention crimp ring (not shown)	100
95-400-11-BP3G	Boot 3 mm for LC, green, no logo, for use with jacket retention crimp ring	100
95-400-11-BP3K	Boot 3 mm for LC, beige, no logo, for use with jacket retention crimp ring	100
95-400-11-BP3N	Boot 3 mm for LC, blue, no logo, for use with jacket retention crimp ring	100
95-400-11-BP3R	Boot 3 mm for LC, red, no logo, for use with jacket retention crimp ring	100
95-400-11-BP3W	Boot 3 mm for LC, white, no logo, for use with jacket retention crimp ring	100
95-400-11-BP3Y	Boot 3 mm for LC, yellow, no logo, for use with jacket retention crimp ring	100

Ordering Information

4. Order the additional pieces (boot clips, duplex clips).

90° Degrees Clip for LC Connectors

Part Number	Description	Quantity per Delivery Unit
95-400-04-BPB	clip 90° for LC boot 2 mm, black	100
95-400-04-BPC	clip 90° for LC boot 2 mm, clear	100
95-400-04-BPG	clip 90° for LC boot 2 mm, green	100
95-400-04-BPN	clip 90° for LC boot 2 mm, blue	100
95-400-04-BPR	clip 90° for LC boot 2 mm, red	100
95-400-04-BPW	clip 90° for LC boot 2 mm, white	100
95-400-04-BPY	clip 90° for LC boot 2 mm, yellow	100

90° Degrees Clip for 3 mm Cables

Part Number	Description	Quantity per Delivery Unit
95-400-02-BP	Clip 90° boot clip for 3 mm cables, fits over normal 3 mm boot, clear, bulk pack (order in multiples of 100)	100

90° Degrees Clip for 3 mm Cables

Part Number	Description	Quantity per Delivery Unit
BOOTCLIP-BP100	Boot clip 90°, metal, includes plastic tool for installation bulk pack (order in multiples of 100)	100

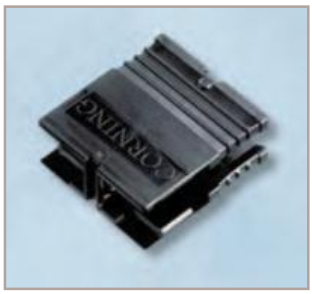
Heat-Cure Single-Fiber Connectors

A LANscape® Solutions Product

Ordering Information

SC Duplex Clip and LC Trigger

Part Number	Description	Quantity per Delivery Unit
95-400-03-BP	SC Duplex clip with Corning logo (order in multiples of 50 pcs.)	50
Note:	SC clips are compatible with all Corning heat-cured bag of parts connectors and field installable connectors (UniCam®, Anaerobic, Anaerobic GIC and UV GIC)	



Part Number	Description	Quantity per Delivery Unit
TRIGGER-BP-D	Clip, LC Trigger, Duplex, with Corning logo (order in multiples of 50 pcs.)	50
TRIGGER-BP-S	Clip, LC Trigger, Simplex, with Corning logo (order in multiples of 100 pcs.)	100
Note:	LC duplex clips are compatible with all Corning heat-cured bag of parts connectors and all field installable connectors (Unicam® and Anaerobic).	

Accessories

TKT-025-INT	Termination Kit for Corning Cable Systems multimode and single-mode heat-cure connectors with 2.5 mm ferrules; includes installation tools and over (220 v) for ceramic or composite connectors and consumables for up to 200 ceramic connectors; supplemental consumables must be added for composite termination (TKT-025-CA)
TKT-025-CA	Supplemental Consumables to terminate all-composite connectors; must be added to TKT-025 when installing composite ferrule single-fiber connectors
TKT-025-C	Ceramic Consumables Kit for TKT-025; will terminate up to 200 connectors
TKT-025-C1	Composite Consumables Kit for TKT-025; will terminate up to 200 connectors
TKT-SFF-125	Termination Kit for Corning Cable Systems multimode and single-mode heat-cure connectors with 1.25 µm ceramic ferrules: includes basic fiber preparation tools, 15 port oven, polishing puck, microscope installation tools for ceramic connectors and consumables
3201031-01	Crimp Tool for ST compatible, SC and FC heat-cured and anaerobic connectors with 95-400-09-BP26 and 95-400-09-BP3 crimp ring with jacket retention
3201032-01	Crimp Tool for LC heat-cured and anaerobic connectors with 95-400-12-BP26 and 95-400-12-BP3 crimp rings with jacket retention
	Note: All "-BP" bulk pack items are priced and ordered per piece but must be ordered in multiples of 100, e.g., 100, 400, 1200 etc.

Heat-Cure MT-RJ Connectors

A LANscape® Solutions Product

Applications

- Building wiring applications
- Ideal for connector assembly house applications in patch cord manufacturing
- Provides economic termination for high fiber counts

Description

Corning Cable Systems introduces the latest in high-density connectivity solutions with the MT-RJ Connector.
The MT-RJ Connector is a small-form-factor connector with two fibers in one ferrule. These connectors offer lower cost-per-termination, improved installation and greater density for both electronics and cable management hardware.

The MT-RJ Connector was designed to meet the fiber optic industry's request for a new interface technology that is significantly lower in cost and smaller in size than the SC Duplex interface. The small MT-RJ interface can be spaced the same as copper RJ-45 connectors, effectively doubling the number of fiber ports. The net effect is a reduction in the overall price per fiber port making fiber-to-the-desktop solutions more competitive with copper.

Heat-Cure MT-RJ Connector

Features / Benefits

- Industry-leading thermoplastic ferrule provides low cost and performance comparable to ceramic
- One-step crimp ring provides tensile strength and jacket retention
- Small size; doubles current density
- Rugged design; meets or exceeds industry standard requirements
- Bulk packaging for easier parts management
- Connectors branded as plus CORNING

Specifications

Parameter	Single-mode	Multimode
Insertion Loss (average)	< 0.3 dB	0.2 dB
Reflectance	-35 dB average	-20 dB average
Durability	< 0.3 dB change	< 0.2 dB change
Temperature Cycling	-40° to +75°C, 21 cycles, < 0.3 dB change	

Heat-Cure MT-RJ Connectors

A LANscape® Solutions Product

Ordering Information

1. Order the Bulk Connector (Single connectors are also available; to order, omit the -BP suffix on the connector part number.)

Part Number	Description	Quantity per Delivery Unit
91-200-97-BP	MT-RJ single-mode, Epoxy & Polish connector, multipiece part, rectangular, thermoplastic ferrule, 9 µm, blue housing, without boot, crimp or pins, Plus Corning Logo, bulk pack	100/1

Part Number	Description	Quantity per Delivery Unit
91-050-97-BP	MT-RJ multimode, Epoxy & Polish Connector, multipiece part, rectangular, thermoplastic ferrule, 50 µm, black housing, without boot, crimp or pins, Plus Corning Logo, bulk pack	100/1

Part Number	Description	Quantity per Delivery Unit
91-100-97-BP	MT-RJ multimode, Epoxy & Polish Connector, multipiece part, rectangular, thermoplastic ferrule, 62,5 µm, beige housing, without boot, crimp or pins, Plus Corning Logo, bulk pack	100/1

Heat-Cure MT-RJ Connectors

A LANscape® Solutions Product

Ordering Information

2. Order the Crimp Band and Boot

95-400-28-BP3	Crimp Ring for MT-RJ, 3.0 mm, bulk pack (order multiples of 100 pcs.)
95-400-28-BP6	Crimp Ring for MT-RJ for 2 x 1.8 mm Mini-Zip cable, bulk pack (order multiples of 100 pcs.)

95-400-29-BP3	Boot 3 mm for MT-RJ, black on 3 mm cable, without logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP3A	Boot, MT-RJ, 3.0 mm, aqua with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP3B	Boot, MT-RJ, 3.0 mm, black with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP3K	Boot, MT-RJ, 3.0 mm, beige with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP3G	Boot, MT-RJ, 3.0 mm, green with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP3N	Boot, MT-RJ, 3.0 mm, blue with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP3R	Boot, MT-RJ, 3.0 mm, red with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP3Y	Boot, MT-RJ, 3.0 mm, yellow with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP6A	Boot, MT-RJ, 1.6 mm, mini-zip, aqua with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP6B	Boot, MT-RJ, 1.6 mm, mini-zip, black with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP6G	Boot, MT-RJ, 1.6 mm, mini-zip, green with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP6K	Boot, MT-RJ, 1.6 mm, mini-zip, beige with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP6N	Boot, MT-RJ, 1.6 mm, mini-zip, blue with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP6R	Boot, MT-RJ, 1.6 mm, mini-zip, red with no logo, bulk pack (order multiples of 100 pcs.)
95-400-29-BP6Y	Boot, MT-RJ, 1.6 mm, mini-zip, yellow with no logo, bulk pack (order multiples of 100 pcs.)
KG-400-07-BP2B	Boot for MT-RJ on 900 µm pigtails, black, bulk pack (order multiples of 100 pcs.)

Accessories

1101028-01	Tracon 113SC Epoxy for (approximately 200 connectors) for multimode MT-RJs
1101026-01	Tracon F123 Epoxy for (approximately 200 connectors) for single-mode MT-RJs
3201033-01	Crimp Tool, MT-RJ for 3 mm round cable and 2 x 1.8 mm Mini-Zip
95-400-25-RJMM	Pin keeper assembly for MT-RJ epoxy and polish, multimode. Contains pin keeper and 2 pins (pack of 100)
95-400-25-RJSM	Pin keeper assembly for MT-RJ epoxy and polish, single-mode. Contains pin keeper and 2 pins (pack of 100)

CORNING

Data sheet
LCXLI2-V2000-V7xx / October 2008

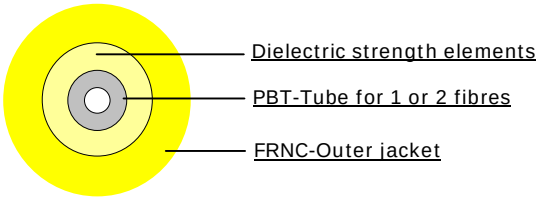
Product Family: **LANscape® Future*Link*™ Furcation FAN-Out Tubing**

Product: **Furcation Tube with PC-PBT Tube for 1 and 2 fibres**

Fibre: **For Full-Spectrum single-mode fibre and InfiniCor® multimode fibres**

Description and applications

This Fan-Out tube for single fibres will predominantly be used to manufacture Fan-Out kits. Fan-Out kits provide easy splitting of high density maxi or mini tube cables for "plug and play solutions" or other applications. This Fan-Out tube with integrated strength elements enjoy all advantages for easy installation of single and double fibre connectors.



FanOut Tube

- Low smoke (IEC 61034 and EN 50268) and halogen free (LSZH)
- Non corrosive to IEC 60754-2 and EN50267
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Completely dry design
- Metal-free cable, hence no ground loop problems.
- PBT-Tube allow easy and direct connectorization
- Colour of outer sheath: OM1, OM2 - orange
  OM3 - aqua
  OS1 & OS2 - yellow

Tube characteristics 2.0mm

Mechanical and environmental.

Temperature range Laying and installation Operation Transport and storage				[°C]		-5 up to +50 -20 up to +60 -25 up to +70	
Number of tubes	Number of fibre	Cable Ø [mm]	Cable weight [kg/km]	Min. bend radius during installation [mm]	Min. bend radius in service [mm]	Max. tensile load during installation [N]	Fire rating [MJ/m]
1	1	2.0	4.0	≥ 30	≥ 30	≤ 150	0.089
1	2	2.0	4.0	≥ 30	≥ 30	≤ 150	0.099

Mechanical characteristics PBT-Tube:

Number of fibre	Inner-Ø [mm]	Outer-Ø [mm]
1	0.45	0.95
2	0.60	1.15

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Ordering Information:

1 Fibre 2.0mm Tubes

Type description	J-HH 1... FRNC YE	J-HH 1... FRNC OR	J-HH 1... FRNC AQ
Delivery length	up to 6000m	up to 6000m	up to 6000m
Ordering number	**LCXLI1-V2000-V753**	**LCXLI1-V2000-V754**	**LCXLI1-V2000-V755**

2 Fibre 2.0mm Tubes

Type description	J-HH 1... FRNC YE	J-HH 1... FRNC OR	J-HH 1... FRNC AQ
Delivery length	up to 6000m	up to 6000m	up to 6000m
Ordering number	**LCXLI1-V2000-V750**	**LCXLI1-V2000-V751**	**LCXLI1-V2000-V752**

Other cable and fibres types are possible upon request

Tube characteristics 2.8mm

Mechanical and environmental.

Temperature range Laying and installation Operation Transport and storage				[°C]		-5 up to +50 -20 up to +60 -25 up to +70	
Number of tubes	Number of fibre	Cable Ø [mm]	Cable weight [kg/km]	Min. bend radius during installation [mm]	Min. bend radius in service [mm]	Max. tensile load during installation [N]	Fire rating [MJ/m]
1	1	2.8	7.6	≥ 30	≥ 30	≤ 200	0.162
1	2	2.8	6.6	≥ 30	≥ 30	≤ 200	0.150

Mechanical characteristics PBT-Tube:

Number of fibre	Inner-Ø [mm]	Outer-Ø [mm]
1	0.45	0.95
2	0.60	1.15

Ordering Information:

1 Fibre 2.8mm Tubes

Type description	J-HH 1... FRNC YE	J-HH 1... FRNC OR	J-HH 1... FRNC AQ
Delivery length	up to 6000m	up to 6000m	up to 6000m
Ordering number	**LCXLI1-V2000-V723**	**LCXLI1-V2000-V722**	**LCXLI1-V2000-V725**

2 Fibre 2.8mm Tubes

Type description	J-HH 1... FRNC YE	J-HH 1... FRNC OR	J-HH 1... FRNC AQ
Delivery length	up to 6000m	up to 6000m	up to 6000m
Ordering number	**LCXLI1-V2000-V720**	**LCXLI1-V2000-V721**	**LCXLI1-V2000-V724**

Other cable and fibres types are possible upon request

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CORNING

RoHS COMPLIANT

Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

Product Group: **LANscape® Fibre optic adapters – Interconnection sleeves**

Product: **FC, ST® compatible, SC, SC duplex, LC duplex, E2000™, MT-RJ, MTP and hybrid adapters**

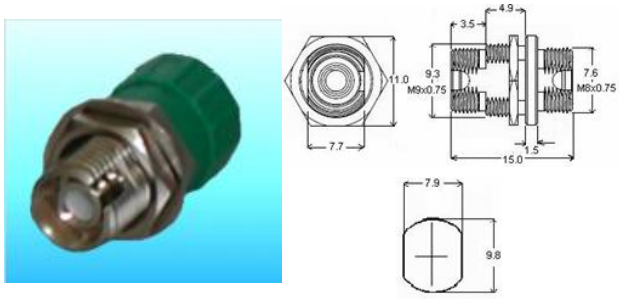
Product: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Application

The fibre optic adapters are used to establish temporary connections between the ferrules of the two connectors. The quality of such connections depends not only from the quality of both connectors but also from the mechanical characteristics and the material properties of the adapters. Corning Cable Systems' adapters are available for the most commonly used connector types and have mechanical specifications according to the corresponding TIA/EIA 604. They are available in a variety of colours in support of TIA/EIA-568-C.3, Draft 2006 or TIA/EIA-568-B.3, with ceramic or metal alignment sleeves (refer to individual adapter descriptions for available options) and in a variety of mounting configurations to ensure compatibility with housing, panels, outlets and face plates.

FC adapters:

- Specification drawings according toTIA/EIA-604-4 and IEC 61754-13
- Threaded with double D-hole footprint
- Including locknut
- Metal housing
- Ceramic alignment sleeve
- RoHS compliant



Threaded FC adapter double D-hole, SM/MM and footprint

Design characteristics

Connector's fibre type	MM / SM
Housing material	Metal
Housing colour	Silver
Alignment sleeve material	Metal
Mounting	Threaded
Footprint	ST Double D-Hole
Logo	No

Ordering information

Description	FC adapter, threaded double D-hole, MM/SM
Quantity per delivery unit	1/1
Order number	**ADP-FC00-MCXDH-NLS**

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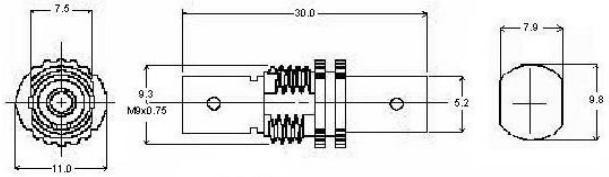
RoHS COMPLIANT

Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

ST® compatible connector adapters:

- Specification drawings according toTIA/EIA-604-2 and IEC 61754-2
- Threaded mounting configuration including locknut
- Metal housing
- Ceramic or metal alignment sleeve
- With coloured marking rings in support of TIA/EIA-568-C.3 Draft 2006: aqua (OM3), black (OM2) , beige (OM1), blue (OS2, UPC)
- RoHS compliant

Threaded ST® compatible connector adapter, MM/SM and MM OM1



Threaded ST® compatible connector adapter and footprint

Design characteristics

Connector's fibre type	MM OM3	MM OM2	MM OM1	SM OS1/OS2	MM
Housing material	Metal	Metal	Metal	Metal	Metal
Housing colour	Silver, Aqua ring	Silver, Black ring	Silver, Beige ring	Silver, Blue ring	Silver
Alignment sleeve material	Ceramic	Ceramic	Ceramic	Ceramic	Metal
Mounting	Threaded	Threaded	Threaded	Threaded	Threaded
Footprint	ST 2 D-Hole	ST 2 D-Hole	ST 2 D-Hole	ST 2 D-Hole	ST 2 D-Hole
Logo	No	No	No	No	No

Ordering information

Description	ST® compatible, MM 50, OM3, Ceramic sleeve	ST® compatible, MM 50, OM2, Ceramic sleeve	ST® compatible, MM 62.5, OM1, Ceramic sleeve
Quantity / delivery unit	1/1	1/1	1/1
Order number	**ADP-ST00-MCATH-NLS**	**ADP-ST00-MCBTH-NLS**	**ADP-ST00-MCKTH-NLS**

Description	ST® compatible, SM, OS1/OS2, Ceramic sleeve	ST® compatible, MM, Metal sleeve
Quantity / delivery unit	1/1	1/1
Order number	**ADP-ST00-MCNTH-NLS**	**ADP-ST00-MMKTH-NLS**

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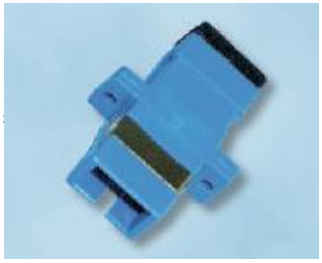
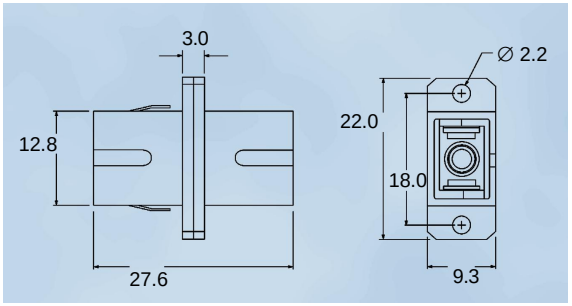
RoHS COMPLIANT

Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

SC simplex adapters:

- Specification drawings according to TIA/EIA-604-3 and IEC 61754-4
- Flanged mounting configuration with spring plate for Plug & Play mounting
- Composite housing with Corning logo
- Available with ceramic or metal alignment sleeves (refer to order information for available options)
- Available in a variety of colours in support of TIA/EIA-568-C.3, Draft 2006 (refer to ordering information for available options)
- RoHS compliant





SC simplex adapter

Design characteristics

Connector's fibre type	MM 50 OM3	MM 50 OM2	MM 62.5 OM1	SM OS1/OS2	
Connector's polishing	PC	PC	PC	APC (8°)	UPC
Adapter's housing material	Composite	Composite	Composite	Composite	Composite
Adapter's housing colour	Aqua	Black	Beige	Green	Blue
Alignment sleeve material	Ceramic	Ceramic	Ceramic, metal	Ceramic	Ceramic
Mounting	Flanged with spring plate	Flanged with spring plate	Flanged with spring plate	Flanged with spring plate	Flanged with spring plate
Footprint	SC simplex for Flange or for P&P mounting	SC simplex for Flange or for P&P mounting	SC simplex for Flange or for P&P mounting	SC simplex for Flange or for P&P mounting	SC simplex for Flange or for P&P mounting
Logo	Corning	Corning	Corning	Corning	Corning

Ordering information

Description	SC simplex, MM 50, OM3 Ceramic sleeve	SC simplex MM 50, OM2 Ceramic sleeve
Quantity per delivery unit	1/1	1/1
Order number	**ADP-SC00-CCAFL-CLS**	**ADP-SC00-CCBFL-CLS**

Description	SC simplex MM 62.5,OM1 Ceramic sleeve	SC simplex MM 62.5,OM1 Metal sleeve
Quantity per delivery unit	1/1	1/1
Order number	**ADP-SC00-CCKFL-CLS**	**ADP-SC00-CMKFL-CLS**

Description	SC simplex, SM /APC, OS1/OS2 Ceramic sleeve	SC simplex, SM /UPC, OS1/OS2 Ceramic sleeve
Quantity per delivery unit	1/1	1/1
Order number	**ADP-SC00-CCGFL-CLS**	**ADP-SC00-CCNFL-CLS**

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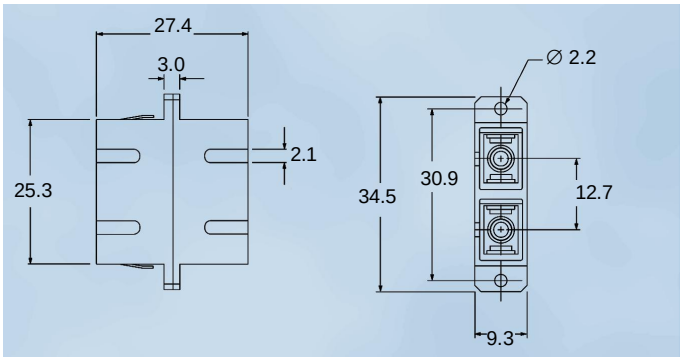
RoHS COMPLIANT

Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

SC duplex adapters:

- Specification drawings according to TIA/EIA-604-3
- Flanged mounting configuration with spring plate for Plug & Play mounting
- Composite housing with Corning logo
- Available with ceramic or metal alignment sleeves (refer to ordering information for available options)
- Available in a variety of colours in support of TIA/EIA-568-C.3, Draft 2006 (refer to ordering information for available options)
- RoHS compliant

SC duplex adapter, MM OM1



SC duplex adapter and footprint

Design characteristics

Connector's fibre type	MM 50 OM3	MM 50 OM2	MM 62.5 OM1	SM OS1/OS2	
Connector's polishing	PC	PC	PC	APC (8°)	UPC
Adapter's housing material	Composite	Composite	Composite	Composite	Composite
Adapter's housing colour	Aqua	Black	Beige	Green	Blue
Configuration	Duplex	Duplex	Duplex	Duplex	Duplex
Alignment sleeve material	Ceramic	Ceramic	Ceramic, metal	Ceramic	Ceramic
Mounting	Flanged with spring plate	Flanged with spring plate	Flanged with spring plate	Flanged with spring plate	Flanged with spring plate
Footprint	SC duplex for Flange or for P&P mounting	SC duplex for Flange or for P&P mounting	SC duplex for Flange or for P&P mounting	SC duplex for Flange or for P&P mounting	SC duplex for Flange or for P&P mounting
Logo	Corning	Corning	Corning	Corning	Corning

Ordering information

Description	SC duplex, MM 50, OM3 Ceramic sleeve	SC duplex MM 50, OM2 Ceramic sleeve
Quantity per delivery unit	1/1	1/1
Order number	**ADP-DSC0-CCAFL-CLS**	**ADP-DSC0-CCBFL-CLS**

Description	SC duplex MM 62.5, OM1 Ceramic sleeve	SC duplex MM 62.5,OM1 Metal sleeve
Quantity per delivery unit	1/1	1/1
Order number	**ADP-DSC0-CCKFL-CLS**	**ADP-DSC0-CMKFL-CLS**

Description	SC duplex, SM /APC, OS1/OS2 Ceramic sleeve	SC duplex, SM /UPC, OS1/OS2 Ceramic sleeve
Quantity per delivery unit	1/1	1/1
Order number	**ADP-DSC0-CCGFL-CLS**	**ADP-DSC0-CCNFL-CLS**

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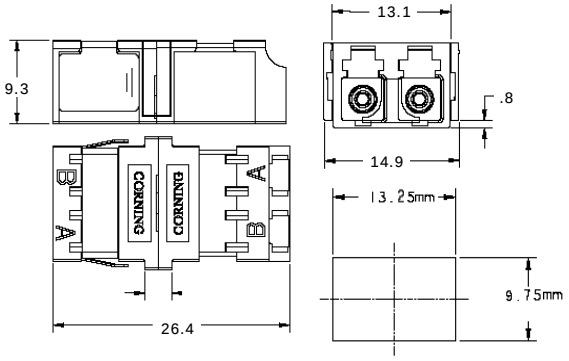
RoHS COMPLIANT

Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

LC duplex adapters:

- Specification drawings according to TIA/EIA-604-10-A
- Duplex Sr/Jr configuration (LC-duplex/APC Sr/Sr)
- Reduced-flange mounting configuration with spring plate for Plug & Play mounting
- Composite housing with Corning logo
- Ceramic alignment sleeves
- Fit SC simplex footprint
- Available in a variety of colours in support of TIA/EIA-568-C.3, Draft 2006 (refer to ordering information for available options)
- RoHS compliant

LC duplex Sr/Jr adapter, MM, OM1



LC duplex adapter Sr/Jr an d footprint

Design characteristics

Connector's fibre type	MM 50 OM3	MM 50 OM2	MM 62.5 OM1	SM OS1/OS2	
Connector's polishing	PC	PC	PC	APC (8°)	UPC
Adapter's housing material	Composite	Composite	Composite	Composite	Composite
Adapter's housing colour	Aqua	Black	Beige	Green	Blue
Configuration	Duplex Sr/Jr	Duplex Sr/Jr	Duplex Sr/Jr	Duplex Sr/Sr	Duplex Sr/Jr
Alignment sleeve material	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Mounting	Reduced flange with spring plate	Reduced flange with spring plate	Reduced flange with spring plate	Reduced flange with spring plate	Reduced flange with spring plate
Footprint	SC simplex for P&P mounting	SC simplex for P&P mounting	SC simplex for P&P mounting	SC simplex for P&P mounting	SC simplex for P&P mounting
Logo	Corning	Corning	Corning	Corning	Corning

Ordering information

Description	LC duplex, MM 50, OM3 Sr/Jr	LC duplex MM 50, OM2 Sr/Jr	LC duplex MM 62.5, OM1 Sr/Jr
Quantity per delivery unit	1/1	1/1	1/1
Order number	**ADP-DLC0-CCARF-CLS**	**ADP-DLC0-CCBRF-CLS**	**ADP-DLC0-CCKRF-CLS**

Description	LC duplex, SM /APC, OS1/OS2 Sr/Sr	LC duplex, SM /UPC, OS1/OS2 Sr/Jr
Quantity per delivery unit	1/1	1/1
Order number	**ADP-DLC0-CCGRF-CLS**	**ADP-DLC0-CCNRF-CLS**

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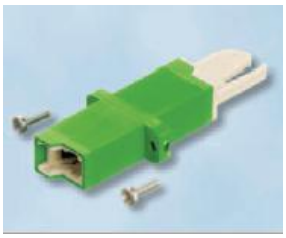
RoHS COMPLIANT

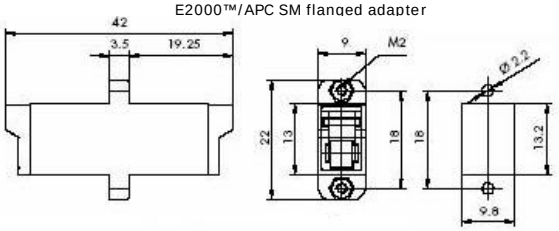
Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

E2000™ adapters:

- Specification drawings according to EN 96 275-901, EN 96 275-902, IEC 61-754-15, TIA/EIA 604-16
- Available with flanged mounting configuration as well as with reduced flange with integrated fixing springs mounting configuration for Plug & Play applications
- Composite housing
- Ceramic sleeve
- Available in a variety of colours in support of TIA/EIA-568-B.3 (refer to ordering numbers for available options)
- Flanged mounting configuration delivered with mounting screws and nuts
- RoHS compliant

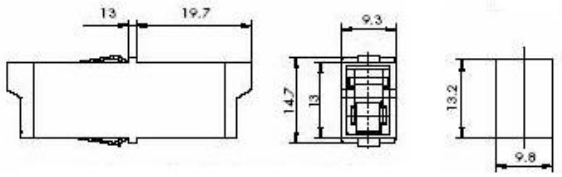


E2000™/APC SM flanged adapter



E2000™ flanged adapter and footprint

E2000™/APC SM reduced flange adapter with integrated fixing springs



E2000™ reduced flange with integrated fixing springs and footprint

Design characteristics

Connector's fibre type	MM	SM OS1/OS2	
Connector's polishing	PC	APC (8°)	UPC
Adapter's housing material	Composite	Composite	Composite
Adapter's housing colour	Beige	Green	Blue
Alignment sleeve material	Ceramic	Ceramic	Ceramic
Mounting	Flanged or Reduced flange P&P	Flanged or Reduced flange P&P	Flanged or Reduced flange P&P

Ordering information

Description	E2000™, flanged, MM	E2000™, flanged, SM /APC, OS1/OS2	E2000™, flanged, SM /UPC, OS1/OS2
Quantity per delivery unit	1/1	1/1	1/1
Order number	**ADP-E200-CCKFL-SPS**	**ADP-E200-CCGFL-SPS**	**ADP-E200-CCNFL-SPS**

Description	E2000™, red. flange P&P, MM	E2000™, red. flange P&P, SM /APC, OS1/OS2	E2000™, red. flange P&P, SM /UPC, OS1/OS2
Quantity per delivery unit	1/1	1/1	1/1
Order number	**ADP-E200-CCKRF-SPS**	**ADP-E200-CCGRF-SPS**	**ADP-E200-CCNRF-SPS**

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CORNING

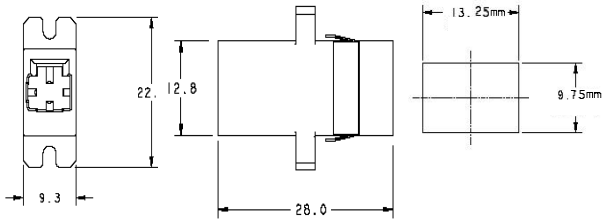
RoHS COMPLIANT

Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

MT-RJ adapter MM, OM3

MT-RJ adapters:

- Specification drawings according to TIA/EIA-604-12
- Flanged mounting configuration with spring plate for Plug & Play mounting
- Composite housing with Corning logo
- Removable insert allows for restoring polarity in case of incorrect installation of the connectors
- Fit SC simplex footprint
- Available in a variety of colours in support of TIA/EIA-568-B.3 (refer to ordering information for available options)
- RoHS compliant



MT-RJ adapter with footprint

Design characteristics

Connector's fibre type	MM 50 OM3	MM 50 OM2	MM 62.5 OM1	SM OS1/OS2
Adapter's housing material	Composite	Composite	Composite	Composite
Adapter's housing colour	Aqua	Black	White	Blue
Mounting	Flanged with spring plate	Flanged with spring plate	Flanged with spring plate	Flanged with spring plate
Logo	Corning	Corning	Corning	Corning

Ordering information

Description	MT-RJ, MM 50, OM3	MT-RJ, MM 50, OM2
Quantity/delivery unit	1/1	1/1
Order number	**ADP-MTRJ-CNAFL-CLS**	**ADP-MTRJ-CNBFL-CLS**

Description	MT-RJ, MM62.5, OM1	MT-RJ, SM, OS1/OS2
Quantity/delivery unit	1/1	1/1
Order number	**ADP-MTRJ-CNKFL-CLS**	**ADP-MTRJ-CNNFL-CLS**

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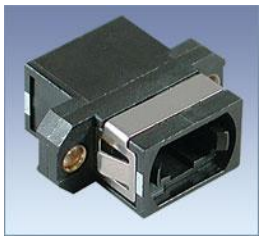
RoHS COMPLIANT

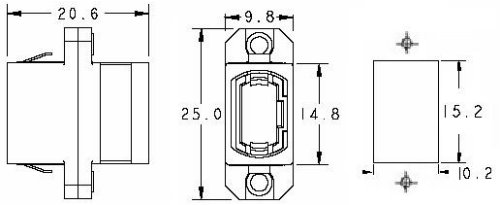
Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

MTP adapters:

- Specification drawings according to TIA/EIA-604-5
- Flanged and reduced flange mounting configurations with spring plate for Plug & Play mounting
- Composite housing with Corning logo
- Mating key-up to key-down supports CCS' universal wiring system polarity
- Available in a variety of colours in support of TIA/EIA-568-B.3 (refer to ordering information for available options)
- RoHS compliant

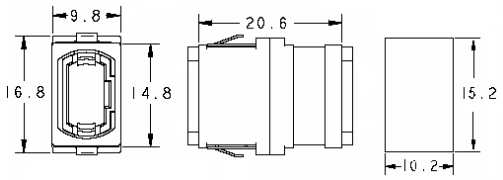


MTP flanged adapter



MTP flanged adapter with footprint

MTP reduced flange adapter



MTP reduced flange adapter with footprint

Design characteristics

Connector's fibre type	MM OM3	SM/MM
Adapter's housing material	Composite	Composite
Adapter's housing colour	Aqua	Black
Mounting	Flanged with spring plate, reduced flange with spring plate	Flanged with spring plate, reduced flange with spring plate
Logo	Corning	Corning

Ordering information

Description	MTP, MM 50, OM3, Aqua, Flanged	MTP MM/SM, Black, Flanged
Quantity/delivery unit	1/1	1/1
Order number	**ADP-MTP0-CNAFL-CLS**	**ADP-MTP0-CNXFL-CLS**

Description	MTP, MM 50, OM3, Aqua, Reduced flange	MTP MM/SM, Black, Reduced flange
Quantity/delivery unit	1/1	1/1
Order number	**ADP-MTP0-CNARF-CLS**	**ADP-MTP0-CNXRF-CLS**

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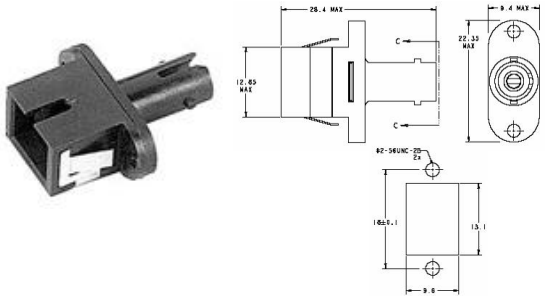
RoHS COMPLIANT

Datasheet
ADP-xxxx-xxxxx-xxx / March 2009

SC to ST® connector compatible connector adapters:

- Specification drawings according to TIA/EIA-604-2 (ST® connector compatible) and to TIA/EIA-604-3 (SC)
- Black composite housing
- Ceramic alignment sleeve
- Flanged mounting with added spring plate for Plug & Play
- RoHS compliant



SC to ST® compatible simplex adapter flanged, composite housing

Design characteristics

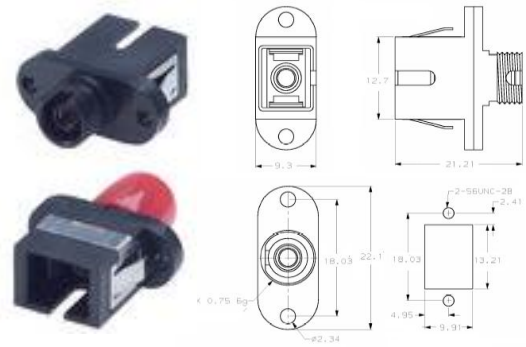
Connector's fibre type	MM, SM
Housing material	Composite
Housing colour	Black
Alignment sleeve material	Ceramic
Mounting	Flanged with springs
Footprint	SC
Logo	No

Ordering information

Description	SC-ST® compatible, MM/SM, Black, Ceramic sleeve
Quantity / delivery unit	1/1
Order number	**ADP-STCS-CCXFL-NLS**

SC to FC adapters:

- Specification drawings according to TIA/EIA-604-3 (SC) and to TIA/EIA-604-4 (FC)
- Black composite housing
- Metal alignment sleeve
- Flanged mounting with spring plate for Plug & Play mounting
- RoHS compliant



FC to SC compatible simplex adapter

Design characteristics

Connector's fibre type	MM, SM
Housing material	Composite
Housing colour	Black
Alignment sleeve material	Metal
Mounting	Flanged with spring plate
Footprint	SC
Logo	No

Ordering information

Description	FC-SC, MM/SM, Black, Metal sleeve
Quantity / delivery unit	1/1
Order number	**ADP-FCSC -CMXFL-NLS**

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8 Cable Management

Cable Management Components

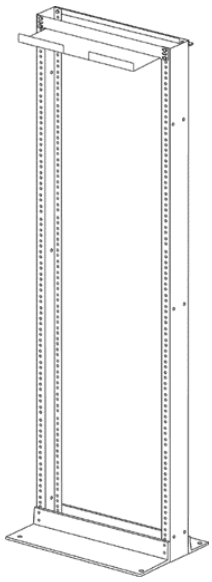
A LANscape® Solutions Product

Description

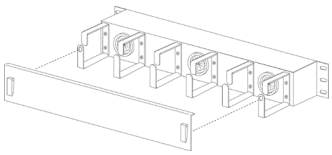
Corning Cable Systems' Cable Management Components include: the Closet Distribution Frame (CDF), Jumper Management Panels (CJP), Jumper Troughs (CDF), Blank-Out Filler Panels (BRP) and Inter-Bay Storage (IBS).

Closet Distribution Frame (CDF)

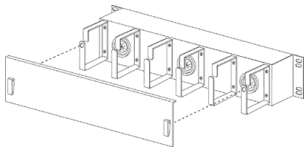
Corning Cable Systems' Closet Distribution Frame (CDF) is a 7 ft (2.13 m) black aluminum frame with 1.75 in (4.45 cm) EIA/TIA hole spacing. The unit has a pre-installed jumper trough mounted at the top of the frame. The CDF has a total of 44Us or rack spaces (1U = one rack space = 1.75 in (4.45 cm)).



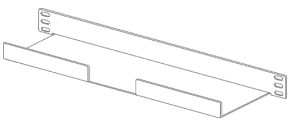
Closet Distribution Frame CDF-ER-7A-19



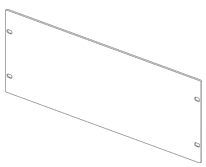
Jumper Management Panel CJP-01U



Jumper Management Panel CJP-02U



Jumper Trough CDF-CJT-01U-019



Blank-Out Filler Panels BRP-19-4-75

Features / Benefits

- Strong, yet lightweight frame allows for easy installation for rack-mountable applications
- Factory-installed jumper trough simplifies jumper routing and management
- EIA/TIA standard hole spacing

Jumper Management Panels (CJP)

The Jumper Management Panel (CJP) is an accessory that facilitates jumper routing in an equipment rack with patch panels and electronics. The jumper management panel is attached to the Closet Distribution Frame directly above or below the equipment. When jumpers are not routed through the grommets, the open space behind the CJP-02U and CJP-03U can be utilized for splicing.

Jumper Troughs (CDF)

The Jumper Trough (CDF) supports jumpers passing from one equipment rack to another.

Blank-Out Filler Panels (BRP)

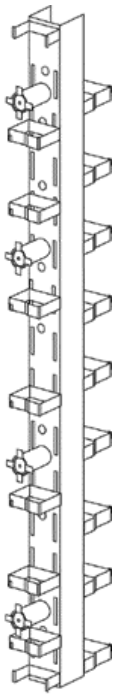
Blank-out Filler Panels (BRP) are used to fill unoccupied rack spaces in the Closet Distribution Frame.

Cable Management Components

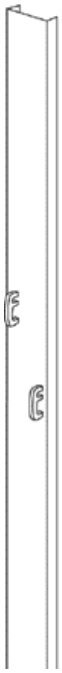
A LANscape® Solutions Product

Inter-Bay Storage (IBS)

Corning Cable Systems' Interbay Storage (IBS) is a jumper management and routing device that is mounted on the side of a frame. The IBS is a 7-ft (2.13 m) routing system that is black in color.



Inter-Bay Storage CDF-IBS-7



CDF-IBS-CVR Cover for CDF-IBS-7

Cable Management Components

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Specifications and Ordering Information

Shipping Part Number	Description	Dimensions (H x W x D) cm (in)	Weight kg (lb)
CDF-ER-7A-19	Closet Distribution Frame	213 x 48 x 38 (7 ft x 19 x 15)	18.1 (40)
CDF-IBS-7	Inter-Bay Storage	213 x 15 x 30 (7 ft x 6 x 12)	20.4 (45)
CJP-01U	1U Jumper Management Panel	4 x 48 x 13 (1.75 x 19 x 5)	1.4 (3)
CJP-02U	2U Jumper Management Panel	9 x 48 x 13 (3.5 x 19 x 5)	1.8 (4)
CJP-03U	3U Jumper Management Panel	13 x 48 x 13 (5.25 x 19 x 5)	2.3 (5)
CDF-CJT-01U-19	1U Jumper Trough, 19“	4 x 48 x 13 (1.75 x 19 x 5)	1.4 (3)
CDF-CJT-02U-19	2U Jumper Trough, 19“	9 x 48 x 13 (3.5 x 19 x 5)	1.8 (4)
BRP-19-1-75	1U Blank-Out Filler Panel, 19“	4 x 48 x 0.2 (1.75 x 19 x 0.06)	0.9 (2)
BRP-19-2-75	2U Blank-Out Filler Panel, 19“	9 x 48 x 0.2 (3.5 x 19 x 0.06)	1.1 (2.5)
BRP-19-3-75	3U Blank-Out Filler Panel, 19“	13 x 48 x 0.2 (5.25 x 19 x 0.06)	1.4 (3)
BRP-19-4-75	4U Blank-Out Filler Panel, 19“	18 x 48 x 0.2 (7 x 19 x 0.06)	1.6 (3.5)
BRP-19-5-75	5U Blank-Out Filler Panel, 19“	22 x 48 x 0.2 (8.75 x 19 x 0.06)	1.8 (4)

Accessories

CDF-IBS-CVR	Cover for CDF-IBS-7	213 x 15 x 3 (7 ft x 6 x 1)	6.8 (15)

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9 Other Products

> Fiber Optic Tools

FO Tool Case

Fiber Optic Tool Case

FO Tool Case	Order Number
- with Basic Equipment	S46998-M2-A5
- with Complete Equipment	S46998-M2-A6
- for Indoor Cable Installation	S46998-M2-A4
- for Outdoor Cable Installation	S46998-M2-A3

Application

Installation of fiber optic cables and fibers requires **special tools**. The high-quality tools are available separately, e.g. for complete or additional assembly for special applications, as well as combined in FO tool cases. The following equipment sets cover the typical need for additional tools.

Equipment Sets

The **FO tool case** is available in four different equipment sets (see table). Basically, the case has two removable, double-sided tool plates, a cover tool plate, a plastic shell in the bottom and a document compartment in the case lid.
The equipment sets of the FO tool case can be taken from the table on the right page. The pre-assembled cases are delivered completely, the additional components separately.
You will find a listing of further components and consumables on page 180.

Fiber Optic Tools

> Fiber Optic Tools

Equipment Sets of Tool Case, Tools

Pos.	Designation	Application	Equipment: Standard	Equipment: Complete	Equipment: Indoor	Equipment: Outdoor	Order Number
	FO Tool Case, empty	For attaching FO tools	■	■	■	■	C46365-K1-A1
1	Cleaning Buds, Foam Material, 50 pcs.	Cleaning of connectors / adapters	■	■	■	■	S46998-Z303-A9
2	Cleaning Buds, Cotton, 100 pcs.	General cleaning	■	■	■	■	S46998-Z303-A8
3	Universal Buffer Tube Cutter UAT	Buffer tube cut at any position, universally adaptable to different buffer tube diameters		■			S46998-Z302-A2
4	Hot Air Blower, 230 V AC	Smoothing fibers, removing twist		■			S45756-Z401-A5
5	Slot Screwdriver Size 7	Universal		■	■	■	S45056-Z436-A8
6	Cross-slot Screwdriver Size 1	Universal (e.g. for UCAO)		■	■	■	S46998-Z303-A2
7	Cross-slot Screwdriver Size 2	Universal		■	■	■	S45056-Z436-A23
8	Stripping Tool, Ø 0.6 - 1.1 mm	Stripping of 900 µm coating	■	■	■	■	C46407--A9-A7
9	Stripping Tool, Ø 0.18 - 0.30 mm	Stripping of 250 µm coating	■	■	■	■	V26824-B408-V14
10	Stripping Tool for Buffer Tubes	Stripping up to Ø 3.2 mm	■	■	■	■	C46407-Z5-C1
11	Compressed Air Ball	Blowing away of dirt particles	■	■	■	■	S46999-Z10-A5
12	Buffer Tube Cutter OFAT for Buffer Tubes with Ø 2.4 - 3.1 mm	Buffer tube cut at any position		■			S46998-Z302-A1
13	Swab Moistener PE, Closeable	Alcohol dispenser	■	■	■	■	S46998-Z303-A10
14	Miller Stripping Tool	Stripping to 125 µm bare fiber		■			C46407-Z6-C1
15	Clauss Stripping Tool WS 5	Stripping 0.8 to 2.6 mm Ø	■	■			C46407-Z9-C2
16	Length / Diameter Measuring Tape	Measuring of lengths up to 1.4 m and diameters up to 320 mm	■	■	■	■	S46998-Z303-A3
17	Gutta-Percha Knife	Universal		■	■	■	S45056-Z407-A1
18	Tweezers, Metal	Universal	■	■	■	■	S45056-Z465-A6
19	Telephone Scissors 130 mm	Universal, cutting of Kevlar	■	■	■	■	S45056-Z405-A1
20	Scissors, Metal	Universal	■	■	■	■	S45056-Z405-A9
21	Marking Rings, Numbers 0 - 9	For Ø 0.8 - 1.1 mm, 300 pcs. per no.		■		■	see next page
22	Marking Rings, Numbers 0 - 9	For Ø 2.3 - 3.4 mm, 300 pcs. per no.		■		■	see next page
23	Tesa Fabric Tape	Universal	■	■	■	■	S45057-Z51-H4
24	Permanent Marker, Black	Markings	■	■	■	■	S45757-Z908-A3
25	Cable Stripper "Jokari"	Cable sheath cuts		■	■	■	S45056-Z420-A5
26	Socket Wrench SW 8	Screw M5 (e.g. UCAO)		■		■	S46998-Z303-A5
27	Socket Wrench SW 10	Screw M6 (e.g. UCSO)		■		■	S45056-Z426-A3
28	Thread Cutter / Separator	Cutting and separating of Kevlar threads and various fabric tapes	■	■			S46998-Z303-A4
29	Socket Wrench SW 13	Screw M8 (e.g. UCNC)		■		■	S45056-Z426-A2
30	Socket Wrench SW 11	Screw M6 (e.g. UCTL)		■		■	S45056-Z426-A24
31	Pliers 140 mm	Universal	■	■	■	■	S45756-Z401-A6
32	Side Cutting Pliers	Universal		■	■		S45056-Z419-A15
33	Cable Cutter	Universal	■	■		■	S45056-Z419-A13
34	Bolt Croppers	Cutting of central members with steel core	■	■		■	S46998-Z303-A1
35	Tube Cutting Tool	Cutting of central tubes				■	S45056-Z479-A4
36	Spare Cutting Wheel	For tube cutting tool				■	S45056-Z479-A5

Fiber Optic Tools

Further Components, Consumables

Mounting Table

Pos.	Designation	Order Number
1	Cleaning Buds, Foam Material, 50 pcs.	S46998-Z303-A9
2	Cleaning Buds, Cotton, 100 pcs.	S46998-Z303-A8
23	Tesa Fabric Tape	S45057-Z51-H4
24	Permanent Marker, Black, 10 pcs.	S45757-Z908-A3
36	Spare Wheel for Tube Cutting Tool (pos. 35)	S45056-Z479-A5
37	Swab Moistener, Glass (Alcohol Dispenser)	S45058-Z537-H1
38	Cable Cleaner, 1l*	S45056-M84-A1
39	Isopropyl Alcohol, 2.5 l*	S45057-Z201-H108
40	Paper Cleaning Tissues, 200 x 210 mm, 100 pcs.*	S45757-Z908-A2
41	Connector Cleaning Cassette (for Connector Endfaces)	S46998-Z303-A11
42	Spare Cleaning Tape for pos. 41	S46998-Z303-A12
43	Plastic Fleece Tissues, Blue, 35 pcs.*	S45757-Z901-A57
44	Hand Microscope 100 x (Inspection of SC-, ST- , FC- and similar connector endfaces)	S46998-M2-A7
45	Stripping Tool 0.25-0.6 mm (Stripping of coatings with Ø 400 and 500 µm)	V26824-B408-V11
46	Clauss Stripping Tool WS4 (Stripping of fiber coatings up to 900 µm)	C46407-Z9-C1
47	Cable Cleaning Tissue, Isopropyl Alcohol, 100 pcs.*	S46998-M2-R1
48	Mounting Table, Foldable*	C45362-Z1-C1
49	Tube Cutter	S45756-Z401-A7
50	Stripping Tool for 900 µm Single Fibers	C46407-Z3-C3
51	Ceramic Cevlar Scissors	S45756-Z401-A8
52	Longitudinal Cable Sheath Cutter with 2 Attachments	S45056-Z472-A3

** The quantity / amount supplied or the dimensions are as big that they do not or not completely fit into the FO tool case*

Longitudinal Cable Sheath Cutter

Marking rings, labelled, 300 pcs. per number

Number	Order Number for Ø 0.8 - 1.1 mm	Order Number for Ø 2.3 - 3.4 mm
0	S46998-M2-R2	S46998-M2-R12
1	S46998-M2-R3	S46998-M2-R13
2	S46998-M2-R4	S46998-M2-R14
3	S46998-M2-R5	S46998-M2-R15
4	S46998-M2-R6	S46998-M2-R16
5	S46998-M2-R7	S46998-M2-R17
6	S46998-M2-R8	S46998-M2-R18
7	S46998-M2-R9	S46998-M2-R19
8	S46998-M2-R10	S46998-M2-R20
9	S46998-M2-R11	S46998-M2-R21