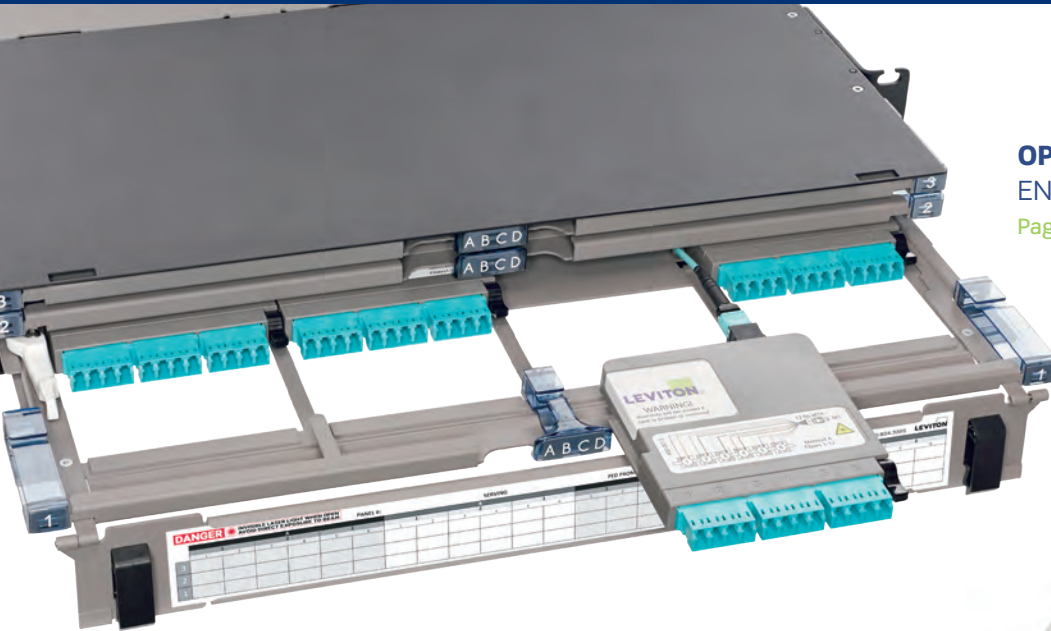


NEW PRODUCTS



OPT-X[®] UHD
ENCLOSURE SYSTEM
Page B11



AV SIGNAL
EXTENSION
Page C4-C13



ATLAS-X1[™] UTP
& SHIELDED
CONNECTORS
Page A32



QUICKPORT[®] DIN
RAIL-MOUNT BOXES
Page D10



CATALOG CONTENTS

ABOUT US

The Smart Choice for a Better Network	4
Make-to-Order (MTO) Program	10
Data Center Solutions	12
Enterprise Solutions	14

COPPER SOLUTIONS

Copper Systems	A3
Patch Panels & Cross Connect	A11
Cable Assemblies & Connectors	A25
Copper Tools & Labeling	A35

FIBER SOLUTIONS

Systems Overview	B3
HDF3168 Distribution System	B7
Opt-X® UHD Enclosure System	B11
HDX Adapter Plates & Cassettes	B14
Opt-X HD Enclosure System	B15
Opt-X Enclosure System	B17
e2XHD Snap-In Cassette Patching System	B29
LightSpace® Enclosure System	B33
Flush-Mount Panels	B41
Equipment-Specific Solutions	B43
Pre-Term. Cable Assemblies	B47
Connectors & Housings	B61
Tools & Consumables	B67

AV SOLUTIONS

Introduction	C3
Connection Diagrams	C5
IT/AV Systems	C9
Signal Extension	C11
AV Connectors	C14
Multimedia Outlet System (MOS)	C17
Speakers	C21
Volume Controls & Audio Dist. Modules	C24
Home Theater & Recessed Devices	C25
BitWise Integrated Controllers	C27

WALLPLATES & HOUSINGS

QuickPort® Wallplates	D4
QuickPort Surface-Mount Boxes	D10
QuickPort DIN Rail-Mount Boxes	D10
QuickPort In-Wall & In-Ceiling Brackets	D11
QuickPort Modular Furniture Products	D12
DuraPort® Industrial Connectivity	D13
86 mm x 86 mm Intl. Wallplate Inserts & Frames	D15
Decora Inserts & Wallplates	D17
Duplex, Round Opening & Blank Wallplates	D21
Telephone & Video Wallplates, Wall Phone Jacks	D22

CABLE MANAGEMENT SOLUTIONS

Overhead Infrastructure Platform	E3
Fiber Raceway System	E5
Versi-Duct® System	E13
Cable Managers & Accessories	E15
VELCRO® Brand Fasteners	E18
Zone Enclosures	E20
Wireless Access Point Enclosures	E21

INTELLIGENT INFRASTRUCTURE

Intact™ Intelligent Port Management System	F1
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POWER SOLUTIONS

Power Distribution Units (PDUs)	G1
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MDU & HOSPITALITY SOLUTIONS

Structured Media®	H3
-------------------	----

TECHNICAL INFORMATION

Web-Based Resources	X3
Wiring Standards	X4
Termination Instructions	X7
Splice Tray Selection Guide	X13
Product & Applications Standards	X14
Term Index	X16
Part Number Index	X22

TECHNICAL RESOURCES

Application / Tech Notes	leviton.com/ns/techlibrary
Detailed Termination Diagrams	leviton.com/ns/techlibrary
Dimensional Line Art	leviton.com/ns/techlibrary
Manuals & Guides	leviton.com/ns/techlibrary
Training Videos	leviton.com/ns/techlibrary
BIM Objects	leviton.com/bim
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Government Team	leviton.com/gov
Data Center Team	leviton.com/datacenter dcteam@leviton.com

WEB SUPPORT

Make to Order (MTO)	leviton.com/configurator
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Independent Testing Information	leviton.com/ns/testresults
Literature Library	leviton.com/ns/litlibrary
Live Chat	leviton.com/support
Knowledgebase & Forums	communities.leviton.com
CrossTalk Newsletter	leviton.com/crosstalk
Leviton Blog	blog.leviton.com/network-solutions



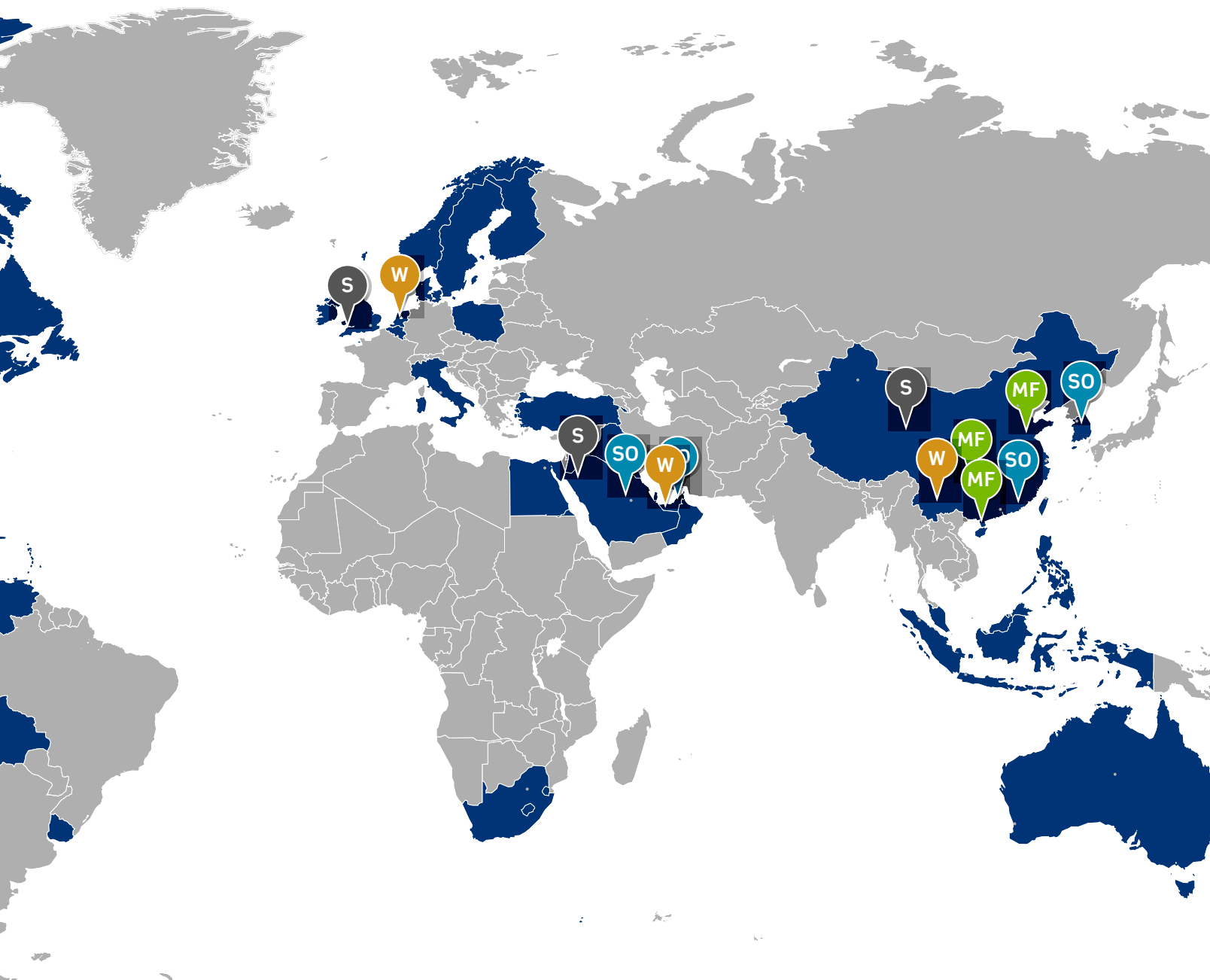
80
COUNTRIES

9
GLOBAL SALES
OFFICES

5
SUBSIDIARIES

11
MANUFACTURING
FACILITIES

7
WAREHOUSES



Thank you for choosing Leviton Network Solutions.

For the past quarter century we have developed an unparalleled selection of high-performance connectivity solutions and systems for enterprise, data center, government, residential, and other markets around the globe.

We manufacture nearly all of our branded products at **11 LEVITON MANUFACTURING FACILITIES**; the majority are made in the United States at facilities colocated with our product development teams.

We support customers around the world with **9 GLOBAL SALES OFFICES** and installations of Leviton Network Solutions **PRODUCTS IN MORE THAN 80 COUNTRIES.**

THE SMART CHOICE

At Leviton, we understand that the best value comes from more than a high-quality, affordable product - it means delivering peace of mind. With unbeatable service, best-in-class support, and the reassurance that comes from working with a stable, century-old supplier, you get far and away the highest return on infrastructure investment in the industry. Leviton invents the industry's best technologies. We build them to last, and we back them up with incredible service and support. Whatever your need, Leviton can provide it, and we will stand behind it.

ROITM

OUTSTANDING RETURN ON INFRASTRUCTURE INVESTMENT

COMMITTED TO
OUR CUSTOMERS &
THE ENVIRONMENT

QUALITY & PERFORMANCE
IN EVERY SOLUTION

A CULTURE OF
INGENUITY & INNOVATION

THE INDUSTRY'S BEST
SERVICE & SUPPORT

THE SMART CHOICE
FOR A BETTER NETWORK

A NAME YOU CAN TRUST

Leviton is the world's largest privately held producer of electrical and data connectivity devices. We've been serving customers from the electrical age through the information age, and we'll be here through the life of your installation - and beyond.

CUSTOMERS AROUND THE WORLD

Thousands of organizations all across the globe have installed Leviton Network Solutions copper and fiber infrastructure systems. With distribution locations on nearly every continent, we're ready to serve customers in every location and every industry.

CREATING A SUSTAINABLE FUTURE

The Leviton "Go Green" initiative provides a framework for reducing our environmental impact. Monitoring energy use, recycling scrap metal, and re-using leftover plastics are just a few examples of how Leviton helps to keep our world clean.

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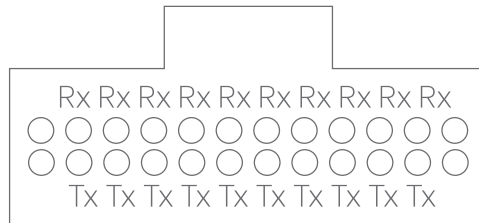
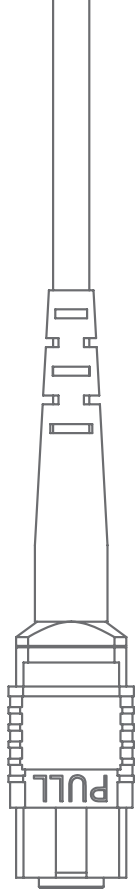
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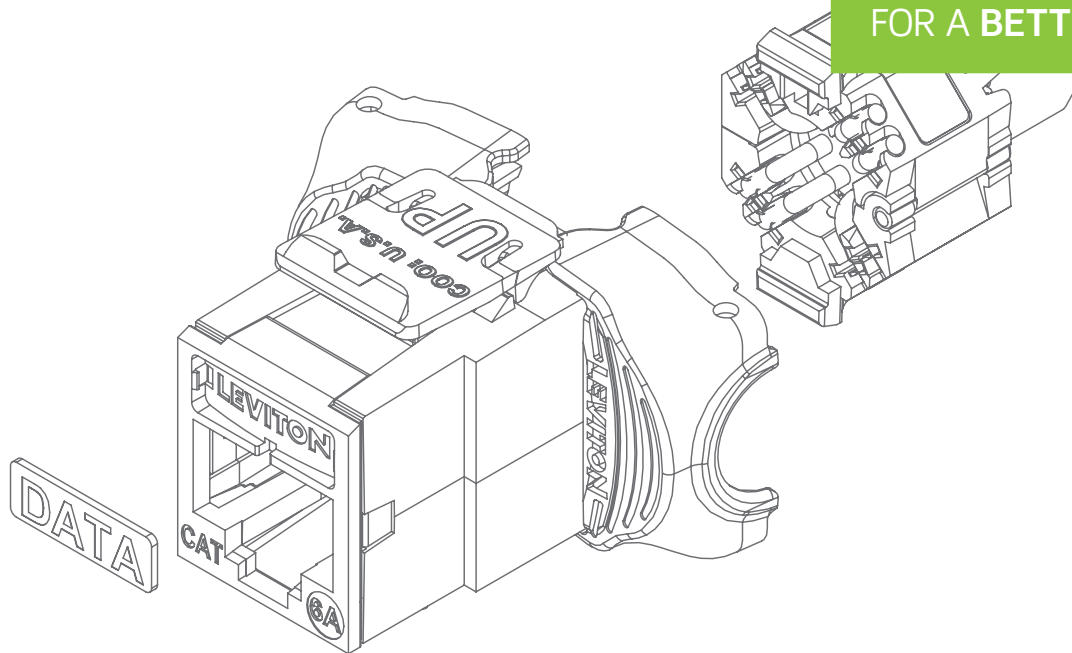
MANUFACTURING EXCELLENCE

Our products feature durable construction that reduces maintenance and downtime, with headroom that exceeds standards to boost network performance. We manufacture nearly all of our branded products at company-owned, ISO 9001-2008 certified plants. We ensure product designs are robust and reliable by using trusted quality methods, and all Leviton products include a workmanship warranty, guaranteeing material and manufacturing quality. This high level of quality allows us to offer a limited lifetime performance warranty when your system is installed by a Leviton certified contractor, protecting your investment and providing peace of mind.



INDUSTRY-LEADING INVENTIONS

At Leviton, we're continuously inventing the solutions that drive next-generation networks, developing innovative solutions that raise the bar on performance and aesthetics. Engineers within our collaborative "Development Factory" have built an extensive patent portfolio with performance, design, and process enhancements that improve product functionality and deliver fast, reliable networks.



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RCDD and CSI-Certified Specification Engineers can take you through the entire specification process, ensuring that your equipment will provide optimal performance and comply with industry standards.

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WITH OUR MULTI-TIERED SUPPORT STRUCTURE YOU GET THE NUMBER-ONE RANKED SERVICE IN THE INDUSTRY. THAT MEANS YOU CAN CALL ON A VARIETY OF LEVITON EXPERTS TO HELP YOU WITH EACH AND EVERY PROJECT.



Network Consultants provide exclusive information and support for all Leviton products, delivering the solution-oriented expertise you need to take your projects to the next level.



The Leviton U.S. Government Team can provide the contacts, product knowledge, and support services you need to build successful government project installations in that very specialized network environment.



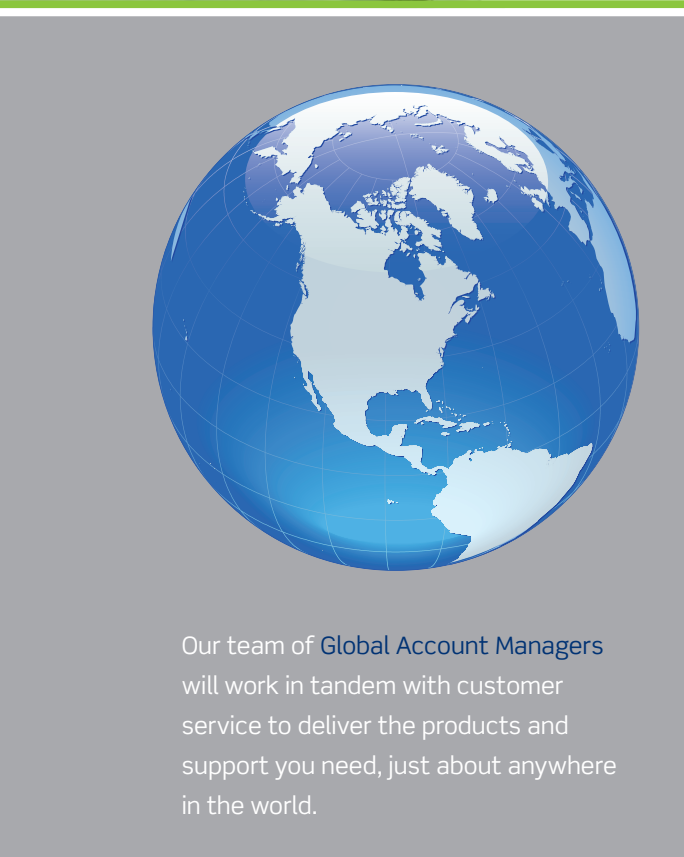
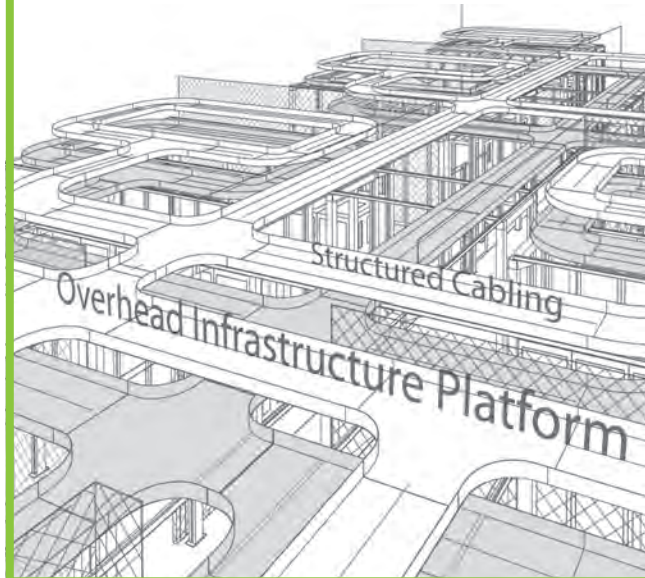


Knowledgeable and friendly **Inside Sales Representatives** will answer questions about your purchase, get you a quote on a product, or direct you to the right field support or distributor in your city.

Applications Engineers and Data Center Specialists assist with topology, layout, elevations, and pathways. They're ready to help through remote or on-site network analysis, and are able to deliver custom product designs with a fast turnaround time.



Count on an experienced Leviton **Certified Contractor** to deliver the highest-quality installations. They are authorized to offer extended product and performance warranties on qualified projects.



Our team of **Global Account Managers** will work in tandem with customer service to deliver the products and support you need, just about anywhere in the world.

Technical Support Representatives can assist with product and network troubleshooting, whether over the phone or through our online live chat. More than 90% of tech support issues are resolved on the first call.



MAKE TO ORDER SOLUTIONS

CONFIGURABLE SOLUTIONS

Getting the exact product you need is quicker and easier than ever. Rely on our innovative online configurators for a variety of fiber and copper products, assembled and shipped quickly for fast turnaround.

HOW IT WORKS: To configure a product, go to leviton.com/configurator and choose from a wealth of options (e.g., fiber type, cable length, polarity, etc.). Take the resulting model number or part number and submit your quote request to Leviton inside sales or your local Leviton distributor.

You can expect 24-hour turnarounds on all quote requests.

Look for the “**Make to Order!**” icon throughout this catalog to identify products with online configurators.

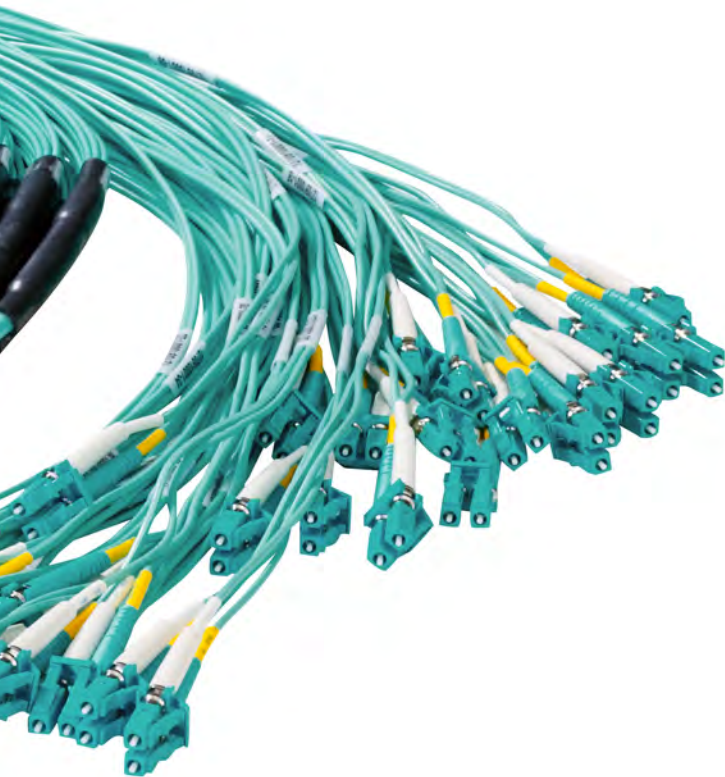




COPPER SOLUTIONS

Configure and order trunk cables and Secure RJ Patch Cords.

- Pre-Terminated Copper Trunks - Cat 6A/6/5e
- Pre-Terminated Copper Trunks with e2XHD cassettes
- Secure RJ Patch Cords - Cat 6A/6
- Patch Cords - Cat 6A/6/5e
- Intact Intelligent Copper Patch Cords - Cat 6A/6



FIBER SOLUTIONS

Configure and order fiber panels, enclosures, cassettes, trunk cables, harnesses, and patch cords.

- Opt-X® Rack-Mount & Wall-Mount Enclosures
- LightSpace® Rack-Mount & Wall-Mount Enclosures
- HDF3168 Frame & Patch Decks
- Opt-X MTP® Cassettes
- HDX MTP Cassettes
- e2XHD MTP Cassettes
- MTP Harnesses
- Pre-Terminated Trunks
- Premium & Economy Series Patch Cords
- Economy Fiber Optic Patch Cords
- Intact Intelligent Fiber Patch Cords
- Splice Trays



1

E2XHD SNAP-IN CASSETTE PATCHING SYSTEM

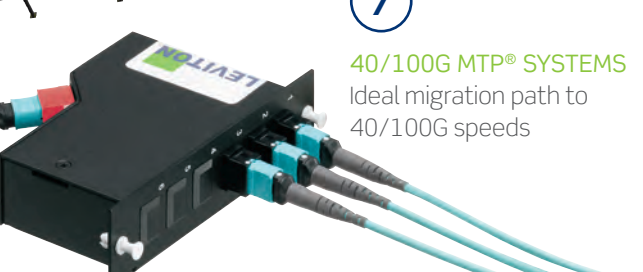
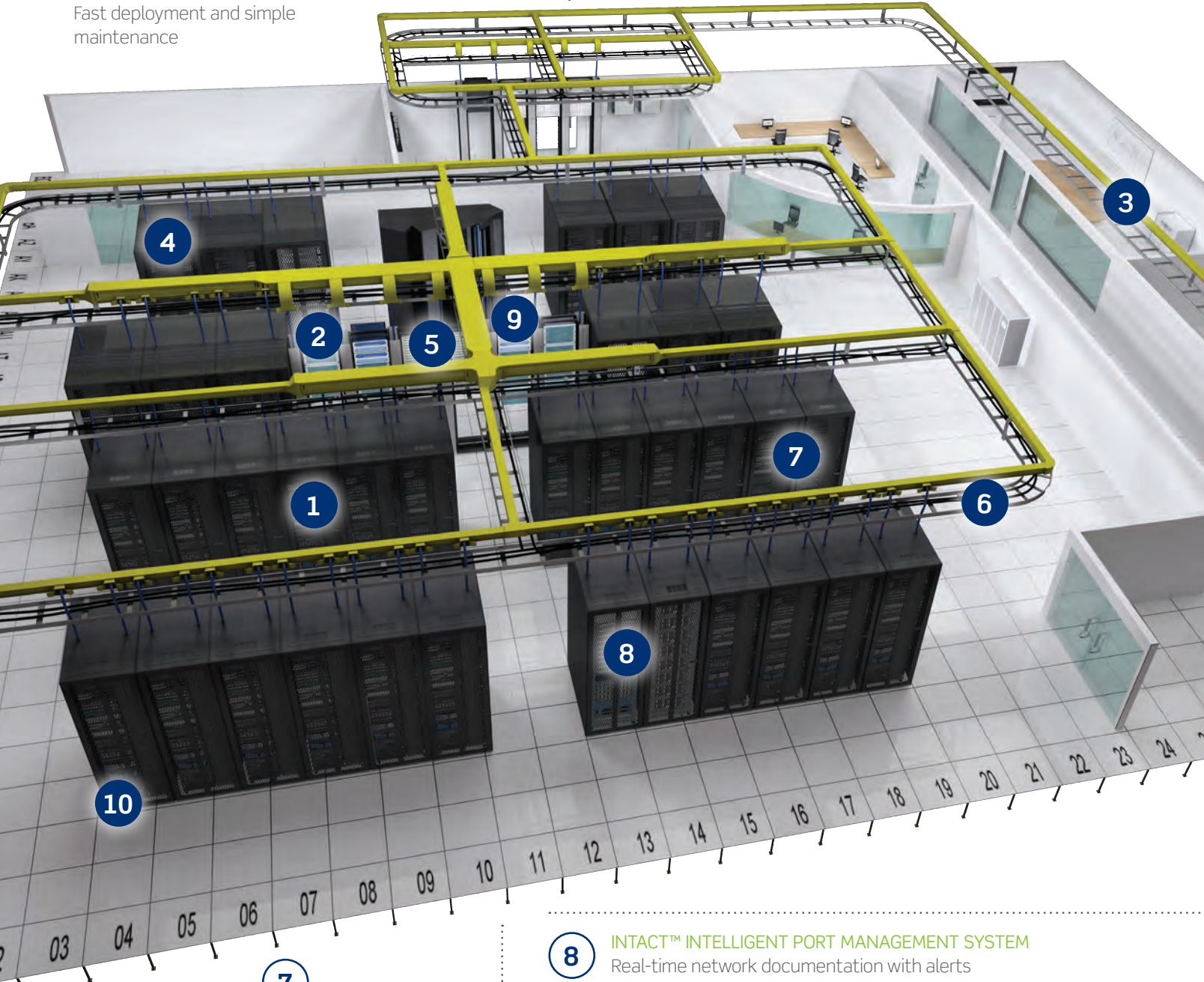
Fast deployment and simple maintenance



2

REPLICATOR® ENCLOSURES

Unique logical port management design can be configured to replicate any switch



7

40/100G MTP® SYSTEMS

Ideal migration path to 40/100G speeds

8

INTACT™ INTELLIGENT PORT MANAGEMENT SYSTEM

Real-time network documentation with alerts for faults or unplanned changes



3

CABLE MANAGEMENT

Vertical/horizontal cable management for standard equipment racks and large-scale deployments



4

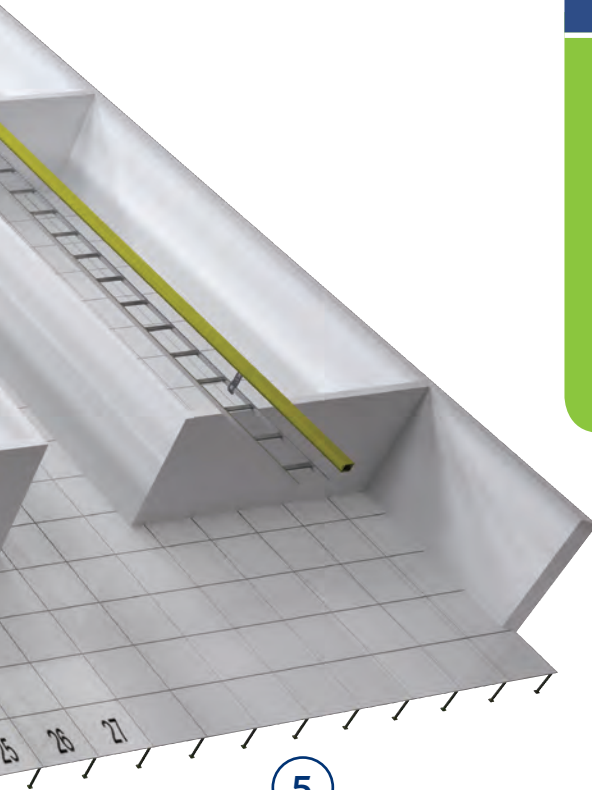
SECURE CONNECTIVITY

Physical port security with copper RJ and fiber LC assemblies



DATA CENTER SOLUTIONS

Leviton solutions cover every area of the data center – from the entrance room and computer room to the telecommunications room (TR) and support offices – and our data center experts are always available to provide in-depth technical and design support.



5

HDF3168 DISTRIBUTION SYSTEM

Used in MDA to consolidate patching and reduce footprint, freeing up valuable space



6

PRE-TERMINATED COPPER AND FIBER TRUNKS

Provide backbone connections between entrance facility, MDA/Core, SAN, and HDA



9

FIBER OPTIC SYSTEMS

High-density enclosures can be custom configured with cassettes, adapter plates, and pre-terminated solutions



10

POWER DISTRIBUTION UNITS

Provide reliable power distribution into racks and cabinets with outlet power ranging from 2.0 kW to 12.5 kW



1

ZONE ENCLOSURES

Easily accessible for simple moves, adds, and changes



2

PATCH PANELS

Wide selection of styles: flat, angled, and recessed in UTP and shielded



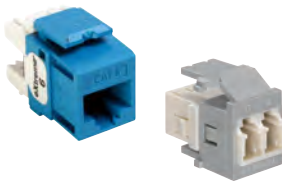
ENTERPRISE SOLUTIONS

Leviton provides high-performance connectivity for health care, education, business, and government applications around the globe, all backed by the industry's best service and support.

5

DATA CONNECTORS

Fast, reliable category-rated and optical fiber connectors



6

FIBER OPTIC ENCLOSURES

Broad selection to address any fiber density requirements



8

WALLPLATES & HOUSINGS

Extensive selection to customize work area outlets



7

HORIZONTAL & VERTICAL CABLE MANAGEMENT

Organize and support cables, patch cords, and equipment



3

PATCH CORDS

Include snagless design and strain-relief boot for long-term performance



4

AV CONNECTIVITY

For high-quality multimedia applications



9

POWER DISTRIBUTION UNITS (PDUs)

Robust, reliable power to rack and cabinet applications



10

WALLMOUNT ENCLOSURES

Transitions from outside plant cable to inside plant cable



COPPER SOLUTIONS



SECTION



SECTION A CONTENTS

COPPER SYSTEMS	A3	Atlas-X1™ / eXtreme® / GigaMax®
	A5	Atlas-X1 UTP Systems
	A6	Atlas-X1 Shielded Systems
	A7	eXtreme UTP Systems
	A8	GigaMax UTP System
	A9	System Selection Chart

PATCH PANELS & CROSS CONNECT	A11	Introduction
	A12	Selection Guide
	A13	Flat Metal 110-Style
	A14	Flat Metal QuickPort®
	A15	Flat Composite 110-Style & QuickPort
	A16	Angled 110-Style & QuickPort
	A17	Recessed-Flat & Recessed-Angled 110-Style & QuickPort
	A18	e2XHD Snap-In Cassette Patching System
	A19	VertiGO® Zero-U QuickPort & Opt-X®
	A20	Telco Data & Voice Grade Panels/Labeling Solutions
	A21	110-Style Wiring Products
	A24	66 Blocks & Accessories

CABLE ASSEMBLIES & CONNECTORS	A25	Introduction
	A26	Make-To-Order & Special Order

Patch Cords

A27	Cat 6A, 5, & 5e
A29	Secure RJ System

Trunks

A30	Pre-Terminated Trunks
A31	e2XHD Cassette Pre-Terminated Trunks

Connectors

A32	Atlas-X1
A33	eXtreme
A34	GigaMax
A34	Cat 5/3 & USOC QuickPort®

COPPER TOOLS & LABELING

A35	Introduction
A36	Tools
A38	Labeling Solutions

COPPER SYSTEMS

Leviton copper systems combine category-rated performance with high-density, user-friendly designs to deliver the industry's most innovative family of solutions. Whether supporting a large enterprise, data center, or a small business infrastructure, Leviton has the system to fit your needs. Refer to the system features below and on the following pages for an overview of Leviton's three copper system brands: Atlas-X1™, eXtreme®, and GigaMax®.

Atlas-X1 : Mission Critical



System Features:

High-density shielded system with shortest-length connector for better bend radius

Advanced features (icons, shutters) for clear network ID and protection

Unified form factor (Cat 5e to Cat 8) for easy migration

Shielded systems for EMI/RFI protection

eXtreme : Enterprise



Performance exceeds the standard

Margin guarantees for confidence in performance

Component-rated products available

Cat 6A

Cat 6

Cat 5e

GigaMax : Light Commercial, MDU



Third-party tested and verified

Color options

Limited Lifetime Warranty

<h2>Atlas-X1</h2> <p>Mission Critical</p>	<h2>eXtreme</h2> <p>Enterprise</p>	<h2>GigaMax</h2> <p>Light Commercial, MDU</p>
<p>A premium, category-rated system that delivers the highest level of verified performance and reliability.</p>	<p>Pairs high-quality, guaranteed performance with a user-friendly design to support fast, easy installations.</p>	<p>Delivers proven performance with the reliability you have come to expect from category 5e applications.</p>
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Atlas-X1 is the premium category-rated system that delivers the highest level of verified performance and reliability, offers tool-free termination for simplified installations, and seamlessly supports network migration paths up to 40G.

ATLAS-X1 UTP QUICKPORT CONNECTORS

(See page A32)

- Connector design allows for tool-free terminations, reducing installation time and costs
- Robust housing increases longevity and virtually eliminates alien crosstalk (AXT)
- Patented Retention Force Technology (RFT) protects against tine damage from 4- or 6-pin plugs, saves on costly repairs, and increases system longevity
- Includes interchangeable icons (VOICE, DATA, AV, and blank) that match connector color
- Optional shutters available for protection from dust and debris



ATLAS-X1 SLIMLINE BOOT PATCH CORDS

(See page A27)

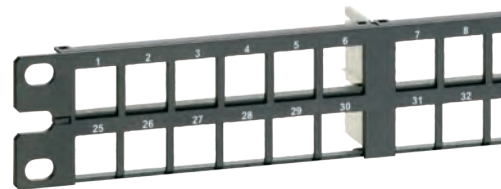
- Narrow profile alleviates congestion in higher-density applications for easier moves, adds, and changes
- Snagless design prevents tab breakage and strain relief boot ensures long-term network performance
- Manufactured in the United States using Berk-Tek cable



RECOMMENDED PATCH PANELS

(See page A15, A18)

- High-density e2XHD panels and snap-in cassettes make it easy to deploy networks quickly
- Composite panels can be customized with company or school logos and colors
- High-density 1RU 48-port and 2RU 72-port QuickPort options maximize rack space and reduce costs in high-density applications



Visit Leviton.com/AtlasX1 to learn more.



The Atlas-X1 Shielded System includes all the features of the Atlas-X1 UTP System, with shielding for additional EMI/RFI protection and AXT suppression. It is ideal for government, healthcare, manufacturing, transportation, education, financial, gaming, or any environment where EMI/RFI may be a concern.

ATLAS-X1 SHIELDED QUICKPORT CONNECTORS

(See page A32)

- Connector design allows for tool-free terminations, reducing installation time and costs
- Robust housing increases longevity and virtually eliminates alien crosstalk (AXT)
- Patented Retention Force Technology (RFT) protects against time damage from 4- or 6-pin plugs, saves on costly repairs, and increases system longevity
- Includes interchangeable icons (voice, data, AV, and blank) that match connector color
- Optional shutters available for protection from dust and debris
- Shielded connector is enclosed in a die-cast housing for maximum EMI/RFI protection
- Available in 13 colors



ATLAS-X1 SHIELDED SLIMLINE BOOT PATCH CORDS

(See page A27)

- Narrow profile alleviates congestion in higher-density applications for easier moves, adds, and changes
- Snagless design prevents tab breakage and strain relief boot ensures long-term network performance
- Shielded construction provides excellent alien crosstalk protection and EMI/RFI protection

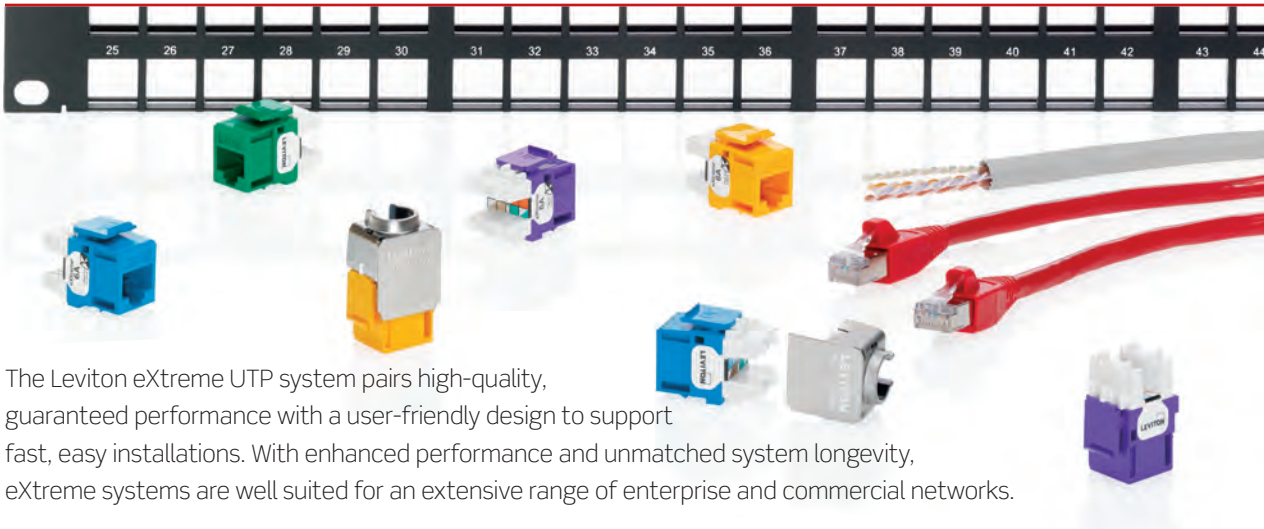


RECOMMENDED PATCH PANELS

(See page A14, A16)

- Atlas-X1 Shielded 1RU 24-port and 2RU 48-port QuickPort panels are available in flat and angled styles
- 1RU 48-port flat and angled shielded QuickPort panels provide twice the density of a conventional 1RU panel





The Leviton eXtreme UTP system pairs high-quality, guaranteed performance with a user-friendly design to support fast, easy installations. With enhanced performance and unmatched system longevity, eXtreme systems are well suited for an extensive range of enterprise and commercial networks.

EXTREME UTP QUICKPORT CONNECTORS

(See page A33)

- Cutting ledge, large format tear-away dual-layer wiring guide, and pair separation towers simplify punchdown, reduce rework, and support faster terminations
- Patented Retention Force Technology (RFT) protects against time damage from 4- or 6-pin plugs, saves on costly repairs, and increases system longevity
- Cat 6A connector includes a patented Cone of Silence for additional alien crosstalk (AXT) suppression
- Compatible with Fluke JackRapid PunchdownTool for quick and easy terminations



EXTREME UTP PATCH CORDS

(See page A27)

- Stranded conductors ensure long-term channel integrity
- Cat 6A cord provides exceptional AXT suppression
- Cat 6 and 5e cords feature narrow profile Slimline Boot to alleviate congestion in higher-density applications



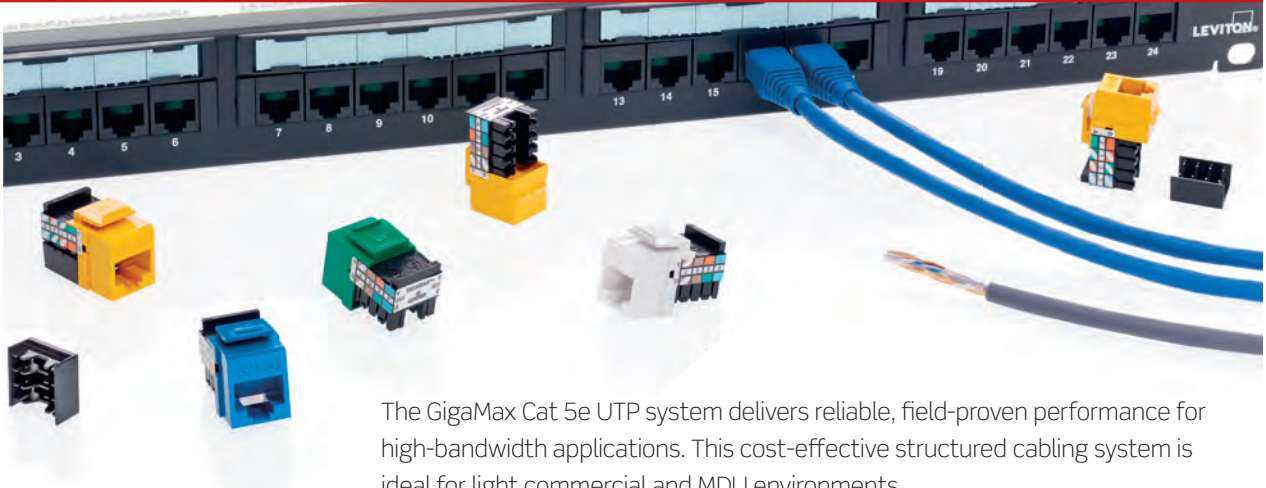
RECOMMENDED PATCH PANELS

(See page A13-A17)

- 110-style panels use 6-port RJ-45 modules in front and 110-style punchdowns on rear
- 110-style offered in flat, angled, and recessed options for any application need
- Silkscreened port numbers and paper label holders for easy reading
- System is also compatible with QuickPort Panels
- Patented Retention Force Technology (RFT) protects against time damage from 4- or 6-pin plugs, saves on costly repairs, and increases system longevity



Visit Leviton.com/eXtreme to learn more.

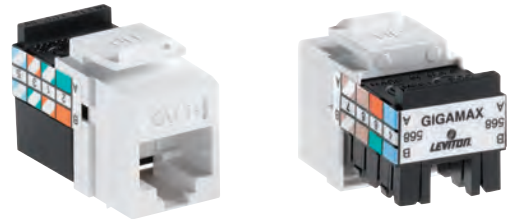


The GigaMax Cat 5e UTP system delivers reliable, field-proven performance for high-bandwidth applications. This cost-effective structured cabling system is ideal for light commercial and MDU environments.

GIGAMAX UTP QUICKPORT CONNECTORS

(See page A34)

- Single T568A or T568B wiring labels simplify field terminations
- Narrow connector profile for high-density installations
- Compatible with Fluke Jack Rapid Punchdown Tool for quick and easy terminations
- Durable one-piece frame built for longevity



GIGAMAX UTP PATCH CORDS

(See page A27)

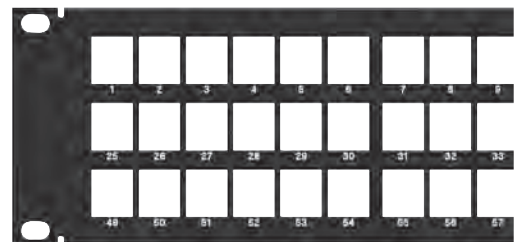
- Color-matched cable and boots
- Rubber boot provides plug protection



RECOMMENDED PATCH PANELS

(See page A13-A17)

- QuickPort flat, angled, and recessed options for any application need
- High-density panels available, with 1RU 48-port and 2RU 72-port options
- QuickPort panels can mix and match different category-rated connectors, and allow users to install the exact quantity of connectors needed while planning for future growth
- System is also compatible with 110-style panels



Visit Leviton.com/GigaMax to learn more.

Leviton Atlas-X1, eXtreme, and GigaMax Category-Rated Systems

are designed to give customers the right level of performance and value to fit their needs.

The systems have been tested and verified by third-party labs to meet or exceed industry-standard performance. And they all include a limited lifetime warranty when installed by Leviton certified installers.

This selection chart provides part numbers for system connectors, patch cords, and recommended patch panels.

Note that Leviton UTP systems are compatible with a wide range of patch panels beyond what is listed here. For a full list of Leviton patch panels, see pages A12-A19.

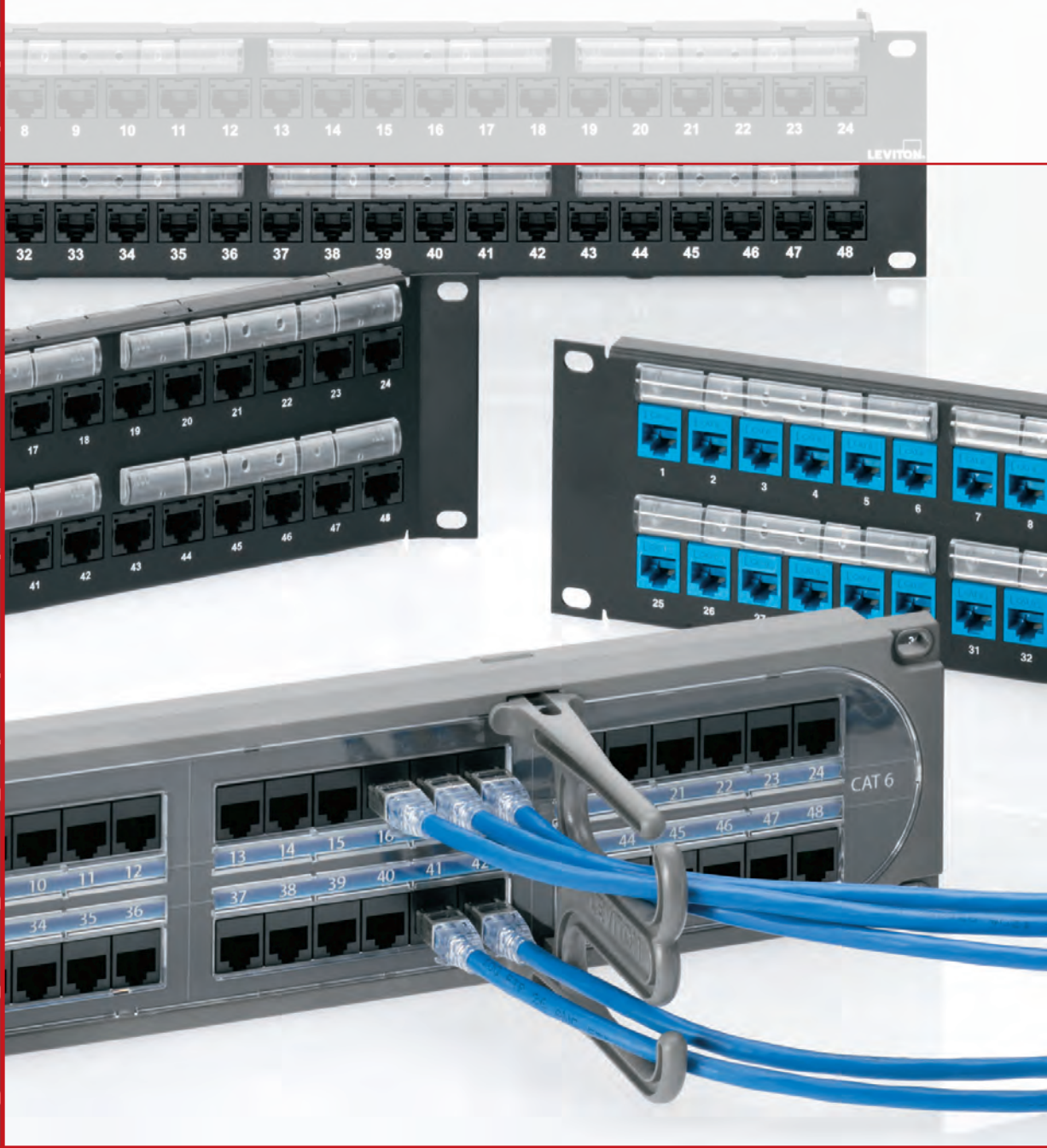
Watch the Copper Systems Training videos at Leviton.com/ns/videos "Copper Systems".

Cat 6A

Atlas-X1™ UTP	
Connectors	6AUJK-Rx6 6AUJK-Sx6 (w/ shutters)
Patch Cords	6AS10-xxx
Recommended Patch Panels	e2XHD Panels (flat, angled) e2XHD Cassette C1255-H48 (composite, empty) Any empty QuickPort panel (See page A14-A17)
Atlas-X1 Shielded	
Connectors	6ASJK-Rx6 6ASJK-Sx6 (w/ shutters)
Patch Cords	6AS10-xxx
Recommended Patch Panels	4S255-Sxx 4S256-Sxx 4S255-D48 4S256-D48
eXtreme® UTP	
Connectors	6110G-Rx6
Patch Cords	6210G-xxx 6AZ10-xxx
Recommended Patch Panels	6910G-Uxx 6A586-xxx 49255-L24 6A587-xxx Any empty QuickPort panel (See page A14-A17)
GigaMax® UTP	
Connectors	—
Patch Cords	—
Recommended Patch Panels	—

Cat 6	Cat 5e
61UJK-Rx6 61UJK-Sx6 (w/ shutters)	5EUJK-Rx5 5EUJK-Sx5 (w/ shutters)
6D560-xxx	5D560-xxx
e2XHD Panels e2XHD Cassette C1255-H48 C1686-U48 Any empty QuickPort panel (See page A14-A17)	e2XHD Panels e2XHD Cassette C1255-H48 C1586-U48 Any empty QuickPort panel (See page A14-A17)
61SJK-Rx6 61SJK-Sx6 (w/ shutters)	5ESJK-Rx5 5ESJK-Sx5 (w/ shutters)
6S560-xxx	5S460-xxx
4S255-Sxx 4S256-Sxx 4S255-D48 4S256-D48	4S255-Sxx 4S256-Sxx 4S255-D48 4S256-D48
61110-Rx6	5G110-Rx5
6D460-xxx 6Z460-xxx 6Z460-xxx	5D460-xxx
69270-Uxx 69270-D48 69586-xxx 69587-xxx Any empty QuickPort panel (See page A14-A17)	5G270-Uxx 5G270-D48 5G596-xxx 5G597-xxx Any empty QuickPort panel (See page A14-A17)
—	5G108-Rx5
—	5G460-xxx
—	5G270-Uxx 5G270-D48 5G596-xxx 5G597-xxx Any empty QuickPort panel (See page A14-A17)

30 Years



FEATURED PRODUCTS

Composite Patch Panels **A15**

1RU 48-Port QuickPort® High-Density Flat & Angled Panels **A14, A16**

e2XHD Snap-In Cassette Patching System **A18**

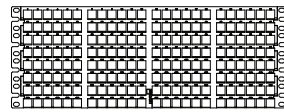
Patch Panels & Cross Connect

Choose Leviton for all your patch panel needs. Our e2XHD high-density panels make patching easier than ever, using snap-in copper and fiber cassettes. Other popular styles include the 1RU 48-port, component-rated Cat 6A 110-style, and composite panels with a customizable face. Additional UTP and shielded panels, the patented Zero-U VertiGO®, die-cast high-density panels, recessed panels for close quarters, and two angled styles round out the industry's largest selection of patch panels.

PATCH PANELS & CROSS CONNECT | Selection Guide



Flat 48-Port

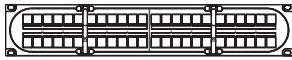


Flat 192-Port

e2XHD Snap-In Cassette Patch Panels ▶ A18

These high-density panels are designed for data center applications where fast single-click deployment and simple maintenance is important. They accept both fiber and copper e2XHD snap-in cassettes in the same panel.

Available Styles: Flat | Angled

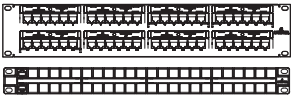


Flat 48-Port

Flat Composite Patch Panels ▶ A15

Leviton Composite panels have the same profile as standard metal panels, but feature polymer composite construction. Customizable faces are ideal for data centers, telecommunication rooms, and other showroom-style environments.

Available Styles: 110-Style | QuickPort®



Flat 48-Port

Die-Cast High-Density 48-Port

Flat Patch Panels ▶ A13-A15

Traditional, flat profile works well in almost any application. Most flat panels include rear cable management bars.

Available Styles: 110-Style | QuickPort | Shielded

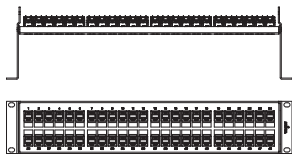


Angled 48-Port

Angled Patch Panels ▶ A16

Recommended for use in racks to optimize patch cord management and rack space utilization.

Available Styles: 110-Style | QuickPort | Shielded



Recessed-Flat 48-Port

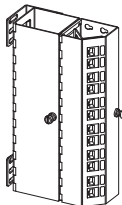


Recessed-Angled 48-Port

Recessed & Recessed Angled Patch Panels ▶ A17

Designed primarily for data center cabinet applications, recessed-flat and recessed-angled panels are ideal where a low-profile appearance and minimal depth in front of the panel is required.

Available Styles: 110-Style | QuickPort

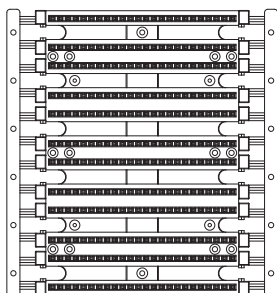


VertiGO® Zero-U

Zero-U Patch Panels ▶ A19

VertiGO panels are recommended for use in data center cabinets, or for any application that needs connectivity outside of the traditional 19" rack space. Vertical channel models provide cable routing and protection.

Available Styles: QuickPort | Opt-X®



Cross-Connect 110-Style Wiring Block

Cross-Connect ▶ A21

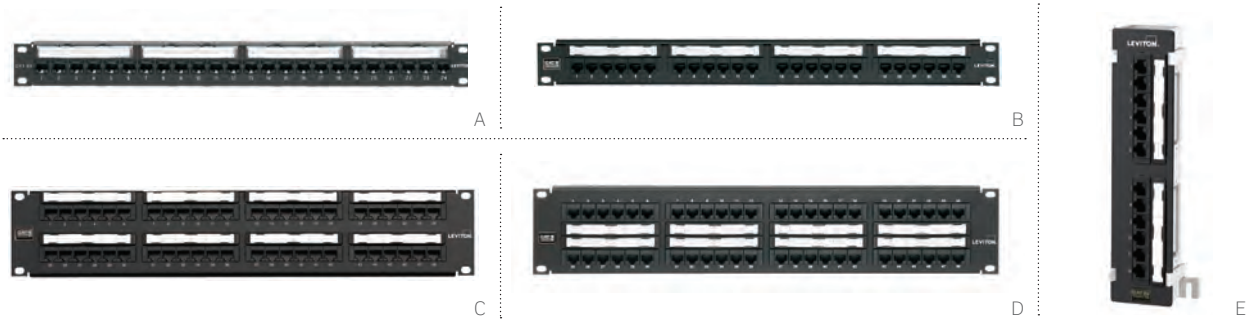
Dependable, flexible, and cost-effective, Leviton 110-style and 66-block cross-connect products are ideal for telecommunications rooms and distribution frames. 110-style wiring blocks are available in Cat 6A, 6, and 5e, and can be mounted to the wall or plywood backboard. Rack-mount solutions are also available.

Available Styles: Cat 6A | Cat 6 | Cat 5e

PATCH PANELS | Flat Metal 110-Style > UTP

Patch Panels

COPPER



FLAT UTP 110-STYLE PATCH PANELS

- 1RU 12- or 24-port, 2RU 48-port, and 4RU 96-port configurations
- 6-port RJ-45 modules on front, and 110-style punchdowns on rear
- Include color codes for T568A and B wiring schemes
- Cat 5e and 6 include 25-pair wiring schemes
- Cat 6A panels include patented magnifying lens label holders for easy reading
- Silk-screened port numbers and paper label holders included
- Patented Retention Force Technology (RFT) protects against tine damage from 4- or 6-pin plugs, saves on costly repairs, and increases system longevity

AVAILABLE CABLE MANAGEMENT:

See Section E for product details and ordering information.

Versi-Duct®

Rear Cable Management Bars

Horizontal Cable Managers

Blank Filler Panels

VELCRO® Brand Fasteners



49005-CMB included with all Cat 6A/6/5e flat panels.

FLAT 110-STYLE PATCH PANELS & PATCH BLOCK

DESCRIPTION	CAT 6A	CAT 6	CAT 5E
1RU 12-Port Flat 110-Style Patch Panel	—	69586-U12	5G596-U12
1RU 24-Port Flat 110-Style Patch Panel	[A] 6A586-U24	[B] 69586-U24	5G596-U24
2RU 48-Port Flat 110-Style Patch Panel	6A586-U48	[C] 69586-U48	5G596-U48
2RU 48-Port Flat 110-Style Patch Panel, central labeling	—	[D] 69586-C48	5G596-C48
4RU 96-Port Flat 110-Style Patch Panel	—	69586-U96	5G596-U96
12-Port 110-Style Patch Block, 89D bracket	—	[E] 69586-U89	5G596-U89

SPOTLIGHT

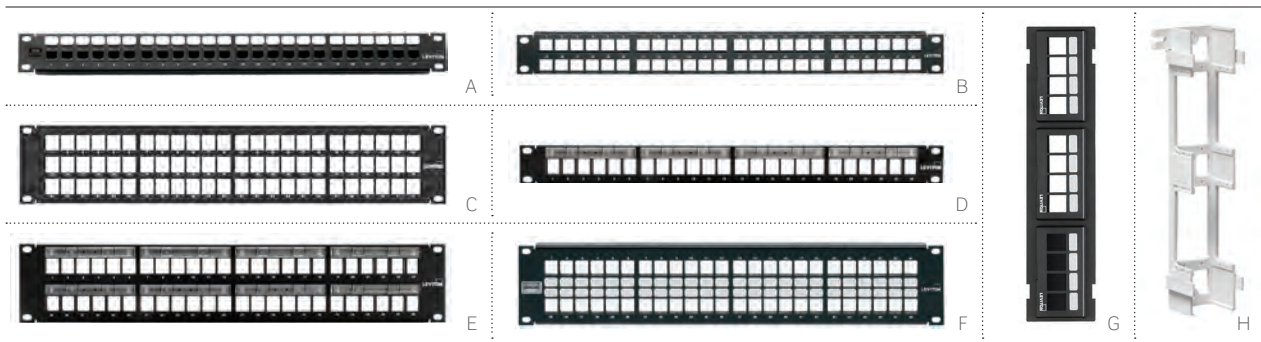
Cat 6A Component-Rated 110-Style Patch Panels



Leviton Cat 6A 110-style patch panels offer ANSI/TIA-568-C.2 performance up to 500 MHz to support 10GBASE-T networks. The panels have a physical design consistent with industry-standard 110-style panels, including in-line configured IDCs and 6-port housing modules. In addition, they add several exclusive design features:

- Patented Retention Force Technology (RFT) protects against tine damage from 4- or 6-pin plugs, saves on costly repairs, and increases system longevity
- Pair Separation Tower design makes untwisting Cat 6A pairs easier
- Separated IDC fields simplify identifying first cable-pair position
- Conductor retention feature holds conductors securely in place during termination
- Triple-stage compensation with patented design features enhances permanent link and channel performance

PATCH PANELS | Flat Metal QuickPort® > UTP & Shielded



FLAT UTP QUICKPORT PATCH PANELS

- Standard-density 24- and 48-port panels are available with white blocks or patented magnifying lens label holder
- Silk-screened port numbers on panel front
- High-density 1RU 48-port and 2RU 72-port options maximize rack space and reduce costs in high-density applications
- 1RU 48-port panel available in standard (stamped) or patented robust die-cast aluminum

ATLAS-X1™ FLAT SHIELDED QUICKPORT PATCH PANELS

- Shielding protects against electromagnetic interference (EMI) and radio frequency interference (RFI), and provides excellent alien crosstalk (AXT) suppression
- Include star washers and grounding lug
- High-density 1RU 48-port option maximizes rack space and reduces costs in high-density applications

AVAILABLE CABLE MANAGEMENT:

See Section E for product details and ordering information.

Versi-Duct®

Rear Cable Management Bars

Horizontal Cable Managers

Blank Filler Panels

VELCRO® Brand Fasteners



49005-CMB included with all Cat 6A/6/5e flat panels, unless otherwise noted.

FLAT QUICKPORT PATCH PANELS, PATCH BLOCKS & ACCESSORIES

DESCRIPTION	CAT 6A	CAT 6	CAT 5E	EMPTY
1RU 24-Port Flat QuickPort Patch Panel	[A] 6910G-U24 [‡]	69270-U24 [‡]	5G270-U24 [‡]	49255-H24 [‡]
1RU 48-Port Flat High Density QuickPort Patch Panel, cable management bar sold separately	—	—	—	[B] 49255-Q48
1RU 48-Port Flat High Density Die-Cast QuickPort Patch Panel	—	69270-D48*	5G270-D48*	49255-D48*
2RU 48-Port Flat QuickPort Patch Panel	6910G-U48	69270-U48	5G270-U48	49255-H48
2RU 72-Port Flat QuickPort Patch Panel	—	—	—	[C] 49255-D72
1RU 24-Port Flat QuickPort Patch Panel, magnifying lens holder	—	—	—	[D] 49255-L24 [‡]
2RU 48-Port Flat QuickPort Patch Panel, magnifying lens holder	—	—	—	[E] 49255-L48
12-Port QuickPort Patch Block, mounting bracket (item H below) sold separately, 10" H x 2.375" W	—	—	—	[G] 49255-Q89
12-Port QuickPort Patch Block, extra deep, mounting bracket included, 10" H x 2.375" W	—	—	—	47689-QQP
QuickPort Patch Block 89D Mounting Bracket (mounts to item G)	—	—	—	[H] 40089-00D

ATLAS-X1 FLAT SHIELDED PATCH PANELS

1RU 24-Port Flat Shielded QuickPort Patch Panel	—	—	—	4S255-S24 [‡]
1RU 48-Port Flat Shielded QuickPort Patch Panel	—	—	—	4S255-D48
2RU 48-Port Flat Shielded QuickPort Patch Panel	—	—	—	[F] 4S255-S48

* = 49005-CMB, rear cable manager not included.

‡ = Intact™ Intelligent Port Management ready (see Section F).

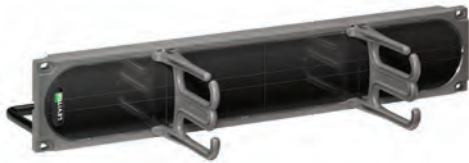
Cat 6A/6/5e patch panels are kitted with black 6A10G, 61110, or 5G110 connectors. QuickPort connectors are available on pages A32-A34.



A



B



C

Customize composite patch panels with any design, color, or logo. Visit Leviton.com/compositepanel to learn more.

FLAT COMPOSITE UTP 110-STYLE AND QUICKPORT® PATCH PANELS

- 10% stronger than standard 16-gauge metal patch panels, providing added support during termination of 110-style panels
- Panel face can be customized to feature any design, color, or logo
- Patch cord managers prevent cables from obstructing view of port numbers
- Clear label holders create a window to easily view port numbers and custom designs
- Patented Retention Force Technology (RFT) protects against time damage from 4- or 6-pin plugs, saves on costly repairs, and increases system longevity

AVAILABLE CABLE MANAGEMENT:

See Section E for product details and ordering information.

Versi-Duct®

Rear Cable Management Bars

Horizontal Cable Managers

Blank Filler Panels

VELCRO® Brand Fasteners



Front & Rear Managers are included

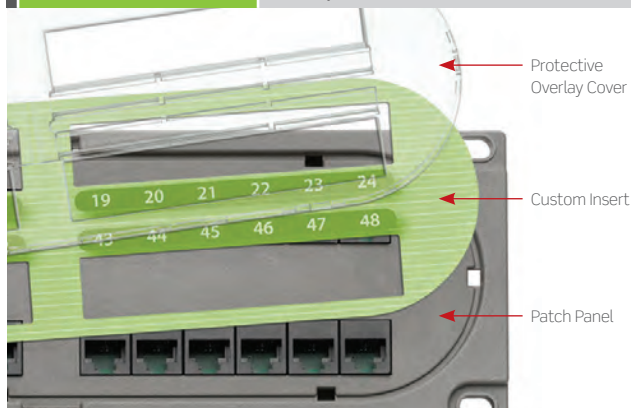
FLAT COMPOSITE 110-STYLE & QUICKPORT PATCH PANELS				
DESCRIPTION	CAT 6	CAT 5E	EMPTY	
2RU 48-Port Flat Composite 110-Style Panel	[A] C1686-U48	C1586-U48	—	
2RU 48-Port Flat Composite QuickPort Panel	—	—	[B] C1255-H48	
2RU Blank Panel / Cable Manager	—	—	[C] C1253-2CM	

QuickPort connectors are available on pages A32-A34.

TRAINING VIDEOS

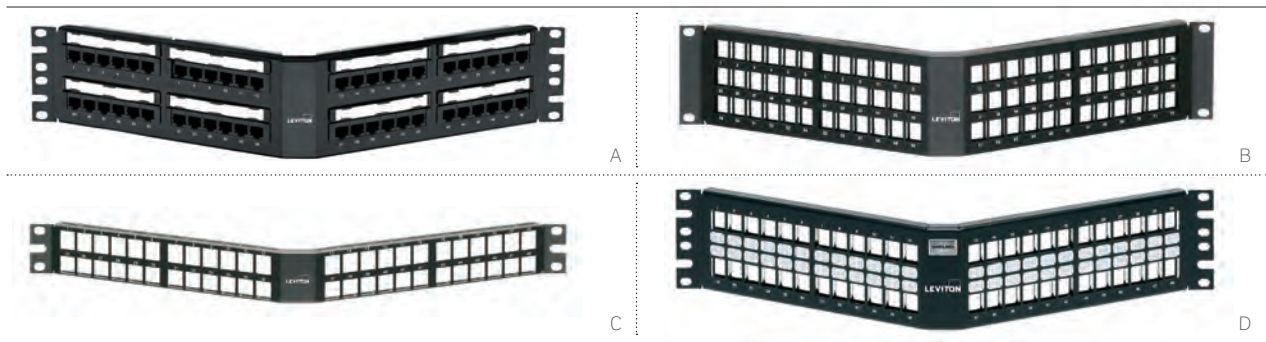
Watch the training videos at Leviton.com/ns/videos: "Composite Patch Panel."

SPOTLIGHT Composite Patch Panels



Patch panels combine strength and durability with unique style and customizable faces, providing a uniform look when installed with Opt-X Ultra® Fiber Enclosures and Versi-Duct Cable Managers.

- Under applied force tests, the panel was 10% stronger than standard 16 AWG metal patch panels
- Panels come kitted with two patch cord managers that attach directly to the panel face, saving up to 50% of rack or cabinet space and reducing obstruction of center label
- Clear label holders create a "window" to easily view centralized port numbers and custom designs



ANGLED UTP 110-STYLE & QUICKPORT® PATCH PANELS

- Angled design conserves rack space by routing patch cords directly into vertical cable management
- Angled design facilitates proper bend radius and simplifies termination
- 110-style angled panels include a snap-in plastic label holder and card stock labels
- QuickPort angled panels include white write-on blocks
- Cat 6A panels include patented magnifying lens label holders for easy reading

ATLAS-X1™ ANGLED SHIELDED QUICKPORT PATCH PANELS

- Shielding protects against electromagnetic interference (EMI) and radio frequency interference (RFI), and provides excellent alien crosstalk (AXT) suppression
- Include star washer and grounding lug
- High-density 1RU 48-port option maximizes rack space and reduces costs in high-density applications

AVAILABLE CABLE MANAGEMENT:

See Section E for product details and ordering information.

Versi-Duct®

Rear Cable Management Bars

Horizontal Cable Managers

Blank Filler Panels

Transitional Covers

VELCRO®

Brand Fasteners



49006-AMB
Recommended angled rear cable management bar



49254-BC1
Recommended angled transitional cover

ANGLED 110-STYLE & QUICKPORT PATCH PANELS

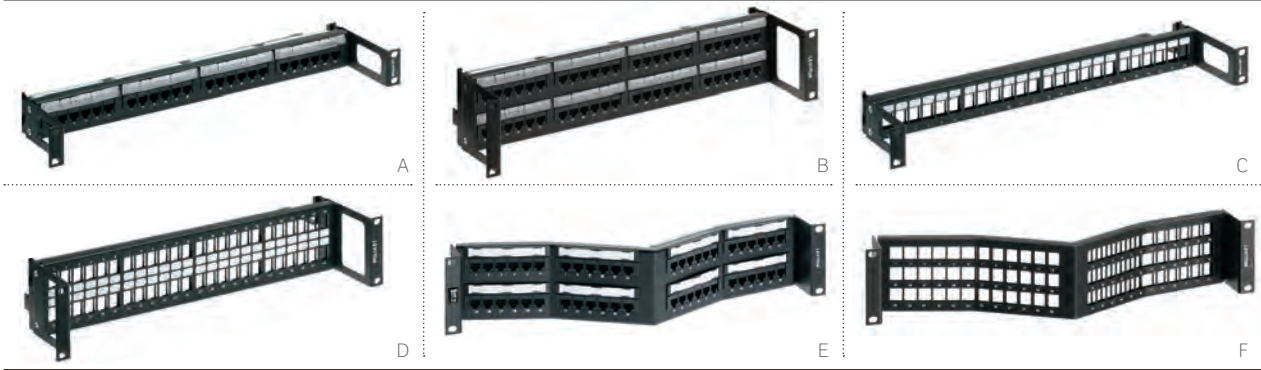
DESCRIPTION	CAT 6A	CAT 6	CAT 5E	EMPTY
1RU 24-Port Angled 110-Style Patch Panel	6A587-U24	69587-U24	5G597-U24	—
2RU 48-Port Angled 110-Style Patch Panel	6A587-U48	[A] 69587-U48	5G597-U48	—
1RU 24-Port Angled QuickPort Patch Panel	—	—	—	49256-H24
2RU 48-Port Angled QuickPort Patch Panel	—	—	—	49256-H48
2RU 72-Port Angled QuickPort Patch Panel	—	—	—	[B] 49256-D72
1RU 48-Port Angled High-Density QuickPort Patch Panel	—	—	—	[C] 49256-D48

ATLAS-X1 ANGLED SHIELDED PATCH PANELS

1RU 24-Port Angled Shielded QuickPort Patch Panel	—	—	—	4S256-S24
1RU 48-Port Angled Shielded QuickPort Patch Panel	—	—	—	4S256-D48
2RU 48-Port Angled Shielded QuickPort Patch Panel	—	—	—	[D] 4S256-S48

QuickPort Connectors are available on pages A32-A34.

PATCH PANELS | Recessed-Flat & Recessed-Angled > UTP



Recessed-flat and recessed-angled patch panels are a great option for rack and cabinet installations with minimal front depth, and where rear cabinet doors are in close proximity to the back rail.

RECESSED-FLAT 110-STYLE & QUICKPORT PATCH PANELS

- 3" recessed design allows improved access and maintains proper cable bend radius
- All recessed-flat panels include a screwless cable management bar that fastens directly to the back of the panel
- Recessed-flat 110-style panels include patented magnifying lens label holders for easy reading

RECESSED-ANGLED 110-STYLE & QUICKPORT PATCH PANELS

- Conserve rack space by routing patch cords directly into vertical cable management
- Unique dual-angled design greatly improves punchdown accessibility
- Recessed-angled 110-style panels include a snap-in plastic label holder and card stock labels

AVAILABLE CABLE MANAGEMENT:

See Section E for product details and ordering information.

Versi-Duct®

Rear Cable Management Bars

Horizontal Cable Managers

VELCRO® Brand Fasteners



49005-CMB included with all recessed-flat panels.



4W006-AMB Recommended rear cable management bar for recessed-angled panels



4W254-BC1 Recommended recessed-angled transitional cover for recessed-angled panels

RECESSED-FLAT 110-STYLE & QUICKPORT PATCH PANELS

DESCRIPTION	CAT 6	CAT 5E	EMPTY
1RU 24-Port Recessed-Flat 110-Style Panel	[A] 69586-R24	5G596-R24	—
2RU 48-Port Recessed-Flat 110-Style Panel	[B] 69586-R48	5G596-R48	—
1RU 24-Port Recessed-Flat QuickPort Panel	—	—	[C] 49255-R24
2RU 48-Port Recessed-Flat QuickPort Panel	—	—	[D] 49255-R48

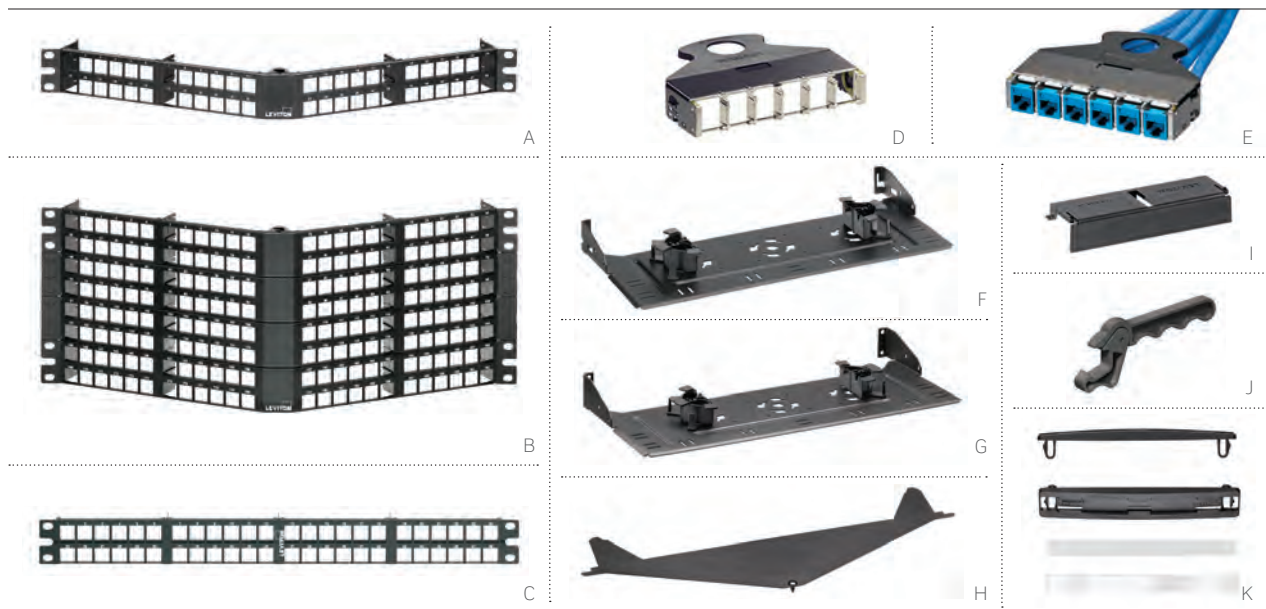
RECESSED-ANGLED 110-STYLE & QUICKPORT PATCH PANELS

2RU 48-Port Recessed-Angled 110-Style Panel	[E] 6W587-U48	5W597-U48	—
1RU 24-Port Recessed-Angled QuickPort Panel	—	—	4W256-H24
2RU 48-Port Recessed-Angled QuickPort Panel	—	—	4W256-H48
2RU 72-Port Recessed-Angled QuickPort Panel	—	—	[F] 4W256-D72

QuickPort connectors are available on pages A32-A34.



Patented magnifying lens label holders improve label visibility.



The e2XHD Snap-In Cassette Patching System includes 1RU and 4RU panels, copper and fiber snap-in cassettes, and accessories for additional cable protection and management. The e2XHD cassettes quickly snap in and pull out of the high-density angled panel, making installation, moves, adds, and changes easier than ever.

- Panels allow mix-and-match of Leviton fiber and copper UTP snap-in cassettes
- Cassettes are available empty or on pre-terminated trunks (see Leviton.com/configurator)
- UTP Copper connectors easily snap into cassette after termination
- System accessories include rear cable managers, blank cassette inserts for unused cassette openings, and a cover for the angled panel, minimizing dust or debris

e2XHD UTP SNAP-IN CASSETTE PATCHING SYSTEM

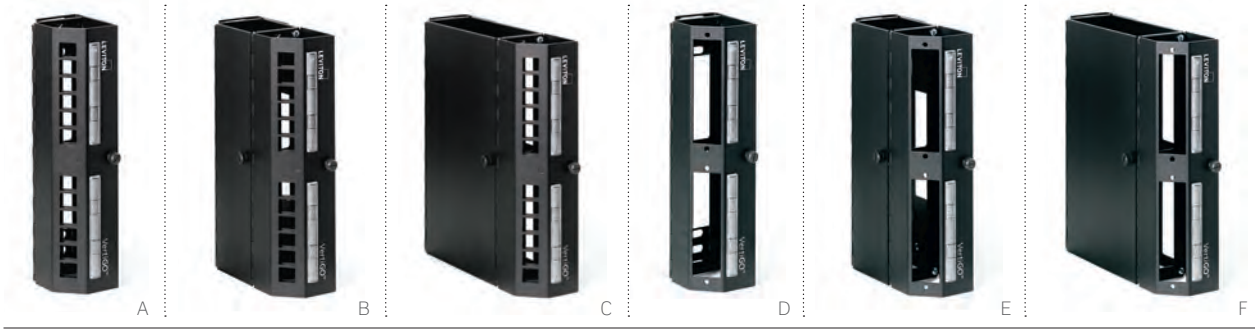
DESCRIPTION	PART NO.
[A] 1RU 48-Port e2XHD Angled High-Density Panel	E2X1A-D48
[B] 4RU 192-Port e2XHD Angled High-Density Panel	E2X4A-192
[C] 1RU 48-Port e2XHD Flat High-Density Panel	E2X1F-D48
4RU 192-Port e2XHD Flat High-Density Panel	E2X4F-192
[D] 6-port e2XHD Cassette, empty*	E2XHD-BRK
[E] e2XHD Copper Cassette, terminated to trunk cable	configure online at Leviton.com/e2XHD
[F] e2XHD Rear Cable Manager for Angled Panel, with fiber storage rings (four ¼" rings)	E2XHD-CMB
[G] e2XHD Rear Cable Manager for Flat Panel, with fiber storage rings (four ¼" rings)	E2X1F-CMB
[H] e2XHD Angled Panel Cover	E2XHD-COV
[I] e2XHD Cassette Blank	E2XHD-BLK
[J] QuickPort® Connector Removal Tool	E2XHD-JRT
[K] e2XHD Label Kit (4 pack)*	E2XHD-LBL

e2XHD Snap-In Cassette Patching System for fiber applications on pages B29-B32.

* = QuickPort connectors sold separately (see pages A32-A34).

+ = Label kit occupies one row of panel.

PATCH PANELS | VertiGO® Zero-U QuickPort® UTP & Opt-X®



VERTIGO ZERO-U QUICKPORT UTP & OPT-X PATCH PANELS

- Zero-U panels can be mounted to a ladder tray, wire basket, under a raised floor, or onto modular furniture
- QuickPort or Opt-X style openings for copper and fiber installations
- Low-profile design fully covers connections
- Improve cabinet center airflow by routing rear cable along outer edges
- Styles with 3" and 6" channels provide additional cable management space
- Hinged doors provide easy access to termination field
- Patented magnifying lens label holders facilitate easy reading

RECOMMENDED APPLICATIONS:

- Any Size Cabinet
- Ladder Tray
- Wire Basket
- Raised-Floor Enclosure
- Modular Furniture
- Wall-Mount

VERTIGO ZERO-U PATCH PANELS		
DESCRIPTION	EMPTY	
[A] 12-Port UTP QuickPort VertiGO Panel, panel only	49280-QP0	
[B] 12-Port UTP QuickPort VertiGO Panel, 3" channel	49280-QP3	
[C] 12-Port UTP QuickPort VertiGO Panel, 6" channel	49280-QP6	
[D] Opt-X Adapter Plate VertiGO Panel, panel only	49280-AP0	
[E] Opt-X Adapter Plate VertiGO Panel, 3" channel	49280-AP3	
[F] Opt-X Adapter Plate VertiGO Panel, 6" channel	49280-AP6	

Contact Inside Sales at 800.722.2082 for custom VertiGO configurations. QuickPort connectors are available on pages A32-A34, B66, and C14. Opt-X adapter plates are available on pages B23-B24. Channel not available separately.

VERTIGO ZERO-U VIDEO

Watch the training video at [Leviton.com/ns/videos: "How to Mount Leviton's VertiGO Patch Panel."](http://Leviton.com/ns/videos: 'How to Mount Leviton's VertiGO Patch Panel.')

See page B22 for additional specialized fiber applications.

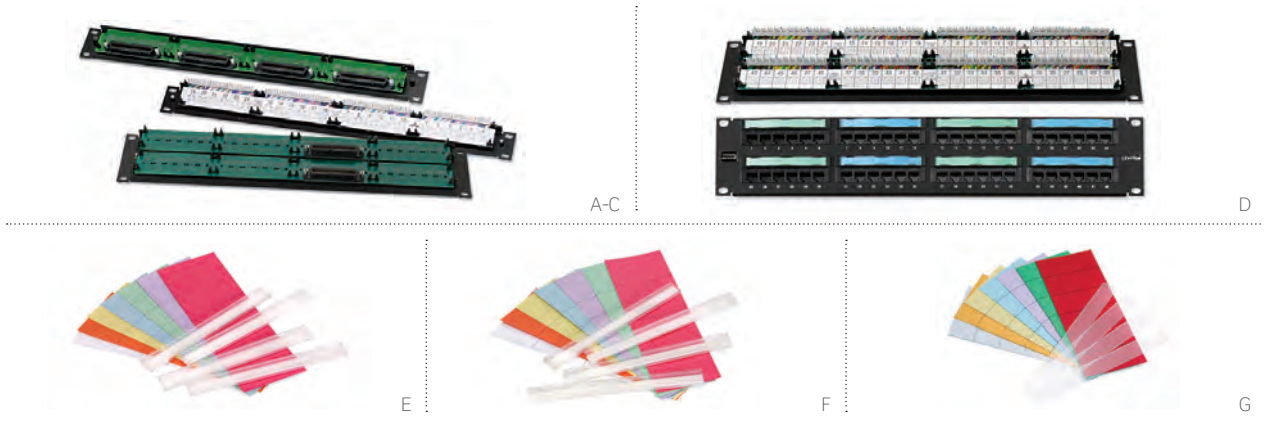
SPOTLIGHT VertiGO Zero-U Patch Panels > Unparalleled Flexibility



Patented VertiGO Zero-U Patch Panels offer unprecedented versatility for a wide range of installations. In data centers where left- or right-side cabinet installation is ideal, VertiGO can share mounting hardware with servers or other existing equipment. Where traditional cabinet space is lacking, VertiGO can be mounted to a ladder tray, wire basket, directly to the wall, under a raised floor, or even onto modular furniture.

VertiGO addresses three major data center issues: density, cooling, and appearance. Mounting vertically along a back cabinet rail allows more terminations than would otherwise be possible. Cables can be routed along the cabinet outer edges to improve airflow. The low-profile design fully covers the connections, providing the clean look data center managers seek.

PATCH PANELS | Telco Data & Voice Grade Panels / Labeling Solutions



Patch Panels

COPPER

DATA GRADE PATCH PANELS

- 8P8C Data Grade Panel supports 10/100BASE-T applications
- Feature 25-pair female Amphenol™ RJ-21X connectors

VOICE GRADE PATCH PANELS

- 110-style or female 25-pair configurations
- Unique label delineates 1-, 2-, 4-, or 25-pair termination options
- 25th pair (violet/slate) is not used in 25-pair style panels

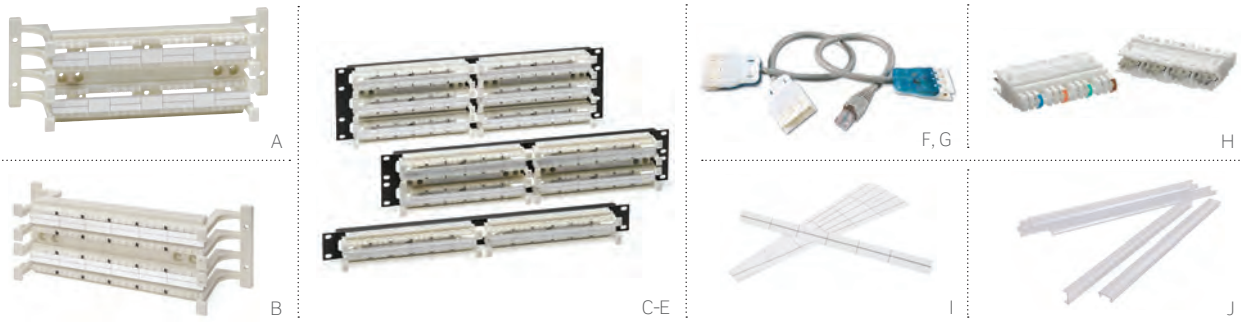
RJ-21X CONNECTORS PER PATCH PANEL

TELCO & VOICE GRADE PANELS		
PART NO.	24-PORT	48-PORT
49012	1	2
49014	2	4
49018	4	8

PATCH PANEL LABELING SOLUTIONS

- Universal/110-style labeling kits for 12-, 24-, 48-, and 96-port panels
- QuickPort® kits available for 24-, 32-, and 48-port panels
- Label holders include adhesive backing

DATA GRADE PATCH PANELS		
DESCRIPTION	1RU 24-PORT	2RU 48-PORT
8P8C Patch Panel, one 25-pair connector per 6 ports (supports 10/100BASE-T), 4 wire-pairs per port	[A] 49018-J24	49018-J48
VOICE GRADE PATCH PANELS		
8P4C Patch Panel, 110 termination, 2 wire-pairs per port	[B] 49013-P24	[D] 49013-P48
8P4C Patch Panel, two 25-pair connectors per 24 ports, 2 wire-pairs per port	49014-J24	[C] 49014-J48
8P2C Patch Panel, one 25-pair connector per 24 ports, 1 wire-pair per port	49012-J24	49012-J48
PATCH PATCH PANEL LABELING SOLUTIONS		
DESCRIPTION	PART NO.	
[E] Adhesive Holder and Labels Kit for QuickPort® Patch Panels (supports 24 ports)	— 49257-QHD	
[F] Adhesive Holder and Labels Kit for 110-Style Patch Panels (supports 24 ports)	— 49257-I24	
[G] Designation Kit Replacement for 110-Style Patch Panels (supports 24 ports)	— 69585-HDL	

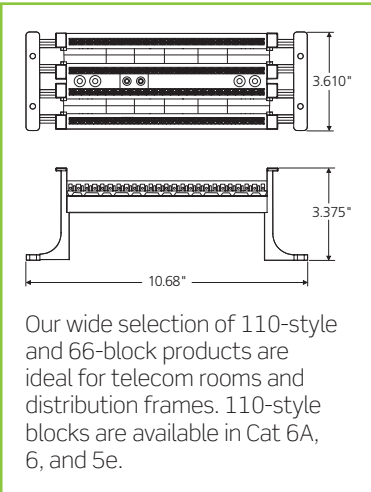


CAT 6A 110-STYLE WIRING BLOCKS

- Support high-frequency data signals up to 500 MHz
- Can be used as a consolidation point (CP) in a TIA-defined 90-meter permanent link
- Designed to mitigate alien crosstalk (AXT)
- Independently tested and verified by Intertek (ETL) to meet all TIA component, permanent link, and channel requirements
- Available in 64-pair wall-mount block

CAT 6 110-STYLE WIRING PRODUCTS

- Support voice, data, and security applications
- Wall-mount and rack-mount wiring block kits available in 96-, 192-, and 288-pairs
- 110-style patch cords in 110-110 and 110-T568A/B configurations
- Connector clips withstand 200 re-terminations



CAT 6A 110-STYLE WALL-MOUNT WIRING BLOCK KITS

DESCRIPTION	64-PAIR
[A] Cat 6A 110-Style Wiring Block, wall mount w/ legs and C-4 clips*	41D6A-1F4

CAT 6 110-STYLE WIRING BLOCK KITS (W/ C-4 CLIPS)

DESCRIPTION	96-PAIR	192-PAIR	288-PAIR
Cat 6 110-Style Wiring Block, wall mount w/o legs	41NB6-1F4	—	—
Cat 6 110-Style Wiring Block, wall mount w/legs*	[B] 41AB6-1F4	—	41AB6-3F4
Cat 6 110-Style Wiring Block, rack mount	[C] 41DR6-1F4	[D] 41DR6-2F4	[E] 41DR6-3F4

CAT 6 110-STYLE PATCH CORDS

DESCRIPTION	1-FOOT	2-FOOT	3-FOOT	5-FOOT	7-FOOT	10-FOOT
[F] Cat 6 110 to 110 Patch Cord	62240-01S	62240-02S	62240-03S	62240-05S	62240-07S	62240-10S
[G] Cat 6 110 to T568B Patch Cord	6234B-01S	—	6234B-03S	6234B-05S	6234B-07S	6234B-10S

CAT 6 110-STYLE CONNECTOR CLIPS

DESCRIPTION	PART NO.
[H] Cat 6 C-4 Clips (bag of 10)	69104-IDC

110-STYLE LABELING SOLUTIONS

[I] Cat 6 Label Kit, 6/kit	41LBL-60W
[J] Label Holder, 6/kit	41100-HLD

*Cat 6A/6 110-Style wiring block stand-off legs are non-removable. Legs not sold separately for Cat 6A/6 wiring blocks.



CAT 5E 110-STYLE WIRING PRODUCTS

- Wall-mount bases available in 50- and 100-pair with or without legs
- 300-pair bases include stand-off legs, labels, and label holders
- Kits include bases, connecting blocks, labels, and holders
- Rack-mount units are for 100-, 200-, and 300-pair densities
- Patch cords in 110-110 and 110-T568A/B configurations
- 110-style wiring cable management available (see page E22)

CROSS-CONNECT TERMINATION VIDEO



Watch the training video at [Leviton.com/ns/videos: "110-Style Cross-Connect Termination."](http://Leviton.com/ns/videos:110-Style Cross-Connect Termination)

CAT 5E 110-STYLE WALL-MOUNT WIRING BLOCK KITS

DESCRIPTION	C-4 CLIPS	C-5 CLIPS
Cat 5e 110-Style Wall-Mount Wiring Block Kit, w/ legs, 100 pair*	41AB2-1F4	41AB2-1F5
Cat 5e 110-Style Wall-Mount Wiring Block Kit, w/o legs, 100 pair	—	41NB2-1F5
Cat 5e 110-Style Wall-Mount Wiring Block Kit, w/ legs, 300 pair*	41AB2-3F4	41AB2-3F5

CAT 5E 110-STYLE WALL-MOUNT WIRING BLOCKS

DESCRIPTION	50-PAIR	100-PAIR	300-PAIR
Cat 5e 110-Style Wall-Mount Wiring Block, w/ legs*	41AW1-050	[B] 41AW2-100	[A] 41AW2-300
Cat 5e 110-Style Wall-Mount Wiring Block, w/o legs	41DW1-050	[C] 41DW2-100	—
89D Bracket Compatible Wiring Base UNIT**	41DW1-589	—	—

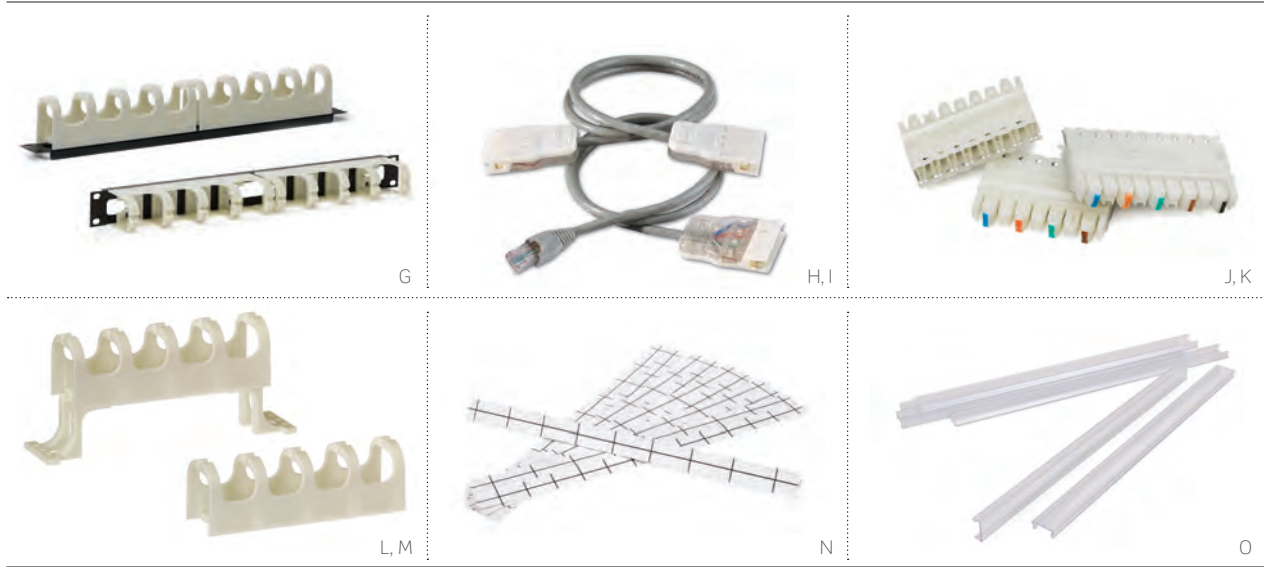
CAT 5E 110-STYLE RACK-MOUNT KITS

DESCRIPTION	C-4 CLIPS	C-5 CLIPS
Cat 5e 110-Style Rack-Mount Wiring Block Kit, 100 pair, 1RU	41DBR-1F4	41DBR-1F5
Cat 5e 110-Style Rack-Mount Wiring Block Kit, 200 pair, 2RU	41DBR-2F4	41DBR-2F5
Cat 5e 110-Style Rack-Mount Wiring Block Kit, 300 pair, 3RU	41DBR-3F4	41DBR-3F5

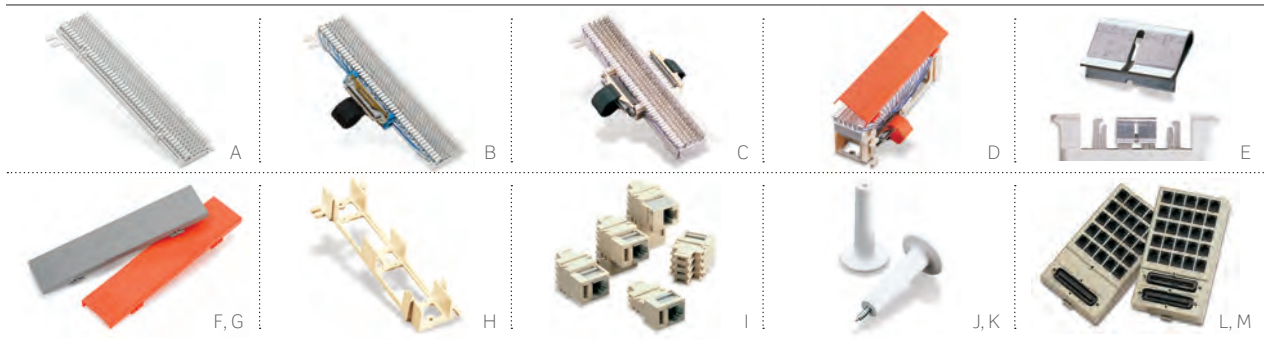
CAT 5E 110-STYLE RACK-MOUNT WIRING BLOCKS

DESCRIPTION	100-PAIR	200-PAIR	300-PAIR
Cat 5e 110-Style Rack-Mount Wiring Block	[D] 41DR2-100	[E] 41DR2-200	[F] 41DR2-300

*Cat 5e 110-style wiring block stand-off legs are non-removable.
 **89D Brackets, 40089-00D, sold separately, see page A14.



RACK-MOUNT MANAGER						
DESCRIPTION	PART NO.					
Rack-Mount Horizontal Cord Manager	[G] 41D1R-HCM					
CAT 5E 110-STYLE PATCH CORDS						
DESCRIPTION	1-FOOT	2-FOOT	3-FOOT	5-FOOT	7-FOOT	10-FOOT
Cat 5e 110 to 110 Patch Cord, 4 pair	[H] 5G240-01S	5G240-02S	5G240-03S	5G240-05S	5G240-07S	5G240-10S
Cat 5e 110 to 568A Patch Cord, 4 pair	[I] 5G34A-01S	5G34A-02S	5G34A-03S	5G34A-05S	5G34A-07S	5G34A-10S
Cat 5e 110 to 568B Patch Cord, 4 pair	5G34B-01S	5G34B-02S	5G34B-03S	5G34B-05S	5G34B-07S	5G34B-10S
CAT 5E 110-STYLE CONNECTOR CLIPS						
DESCRIPTION	C-3 CLIPS		C-4 CLIPS		C-5 CLIPS	
Cat 5e 110-Style Connector Clips (bag of 10)	49103-IDC		[J] 49104-IDC		[K] 49105-IDC	
Cat 5e 110-Style Connector Clips (bag of 50)	—		49104-I50		—	
CAT 5E 110-STYLE WIRING BLOCK ACCESSORIES						
DESCRIPTION	PART NO.					
Cat 5e 110-Style legs (2 ea) (for use with 41DW1 only)	410L2-050					
Cat 5e 110-Style legs (2 ea) (for use with 41DW2 only)	410L2-100					
110-Style Horizontal Cord Manager w/o legs	[L] 41D10-HCM					
110-Style Horizontal Cord Manager w/ legs*	[M] 41A10-HCM					
110-STYLE LABELING SOLUTIONS						
Cat 5e Label Kit, 6/kit	[N] 41LBL-00W					
Label Holder, 6/kit	[O] 41100-HLD					



66 CONNECTING BLOCKS

- Install individually or in pairs in cross-connect system
- High-impact fire-retardant UL 94V-0 plastic
- Phosphor bronze quick-connect insulation displacement 66-clips
- 25- and split 50-pair styles
- Accessories include covers, brackets, wire distribution spools, adapters, and bridging clips

SURFACE-MOUNT MINI PATCH PANELS

- Excellent for tight spaces and simple breakout patching
- Combine two or more panels for in-line cross connect
- Use with 25-pair cable assemblies
- Wall mountable

Visit Leviton.com/support for detailed termination diagrams.

66 CONNECTING BLOCKS

DESCRIPTION	PART NO.
[A] M-Block: 25-pair [66M1-25]* 10" H x 3 5/16" W x 1 3/16" D Split M-Block: 50-pair [66M1-50]* 10" H x 3 5/16" W x 1 3/16" D	40066-M25 40066-M50
[B] M-Block, female connector [66M1-50W]* 10" H x 3 5/16" W x 1 3/16" D	40066-0MW
[C] M-Block, female and male connectors [66M1-50W2]* 10" H x 3 5/16" W x 1 3/16" D	40066-MW2
[D] Connectorized Demarc Block [66M1-50R]* 10" H x 3 13/32" W x 2 3/4" D, female Amphenol™	40066-0MR

BRIDGING CLIPS

[E] Bridging Clips (SA-1) (50 per package)	40067-0BC
---	-----------

HINGED COVERS AND SNAP-ON COVERS

Snap-on Cover for M-Blocks: [66MC-4]* 9 15/16" H x 2 15/16" W x 5/16" D	40050-MCV
[F] Hinged Cover for M-Blocks: grey [66MC4LH-G]* 10" H x 2 7/16" W x 3/4" D	40050-MHG
[G] Hinged Cover for Demarc Blocks: orange [66MC4LH-O]* 10" H x 2 7/16" W x 3/4" D	40050-MHO

BRACKET FOR M BLOCKS AND CONNECTOR MOUNTING

[H] M-Block Bracket for Connector Mounting: [89-D/QuickPort® Blocks]* 10" H x 3 13/32" W x 1 1/2" D	40089-00D
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[I] MODULAR ADAPTERS

2-Position Modular Adapter [Tap-2]* - Converts two 66-clip contacts into 6P2C modular connector	40072-0T2
4-Position Modular Adapter [Tap-4]* - Converts four contacts into 6P4C modular connector	40072-0T4
6-Position Modular Adapter [Tap-6]* - Converts six contacts into 6P6C modular connector	40072-0T6
8-Position Modular Adapter, T568B wiring [Tap™-8]* - Converts eight contacts into 8P8C non-keyed modular connector	40072-0T8

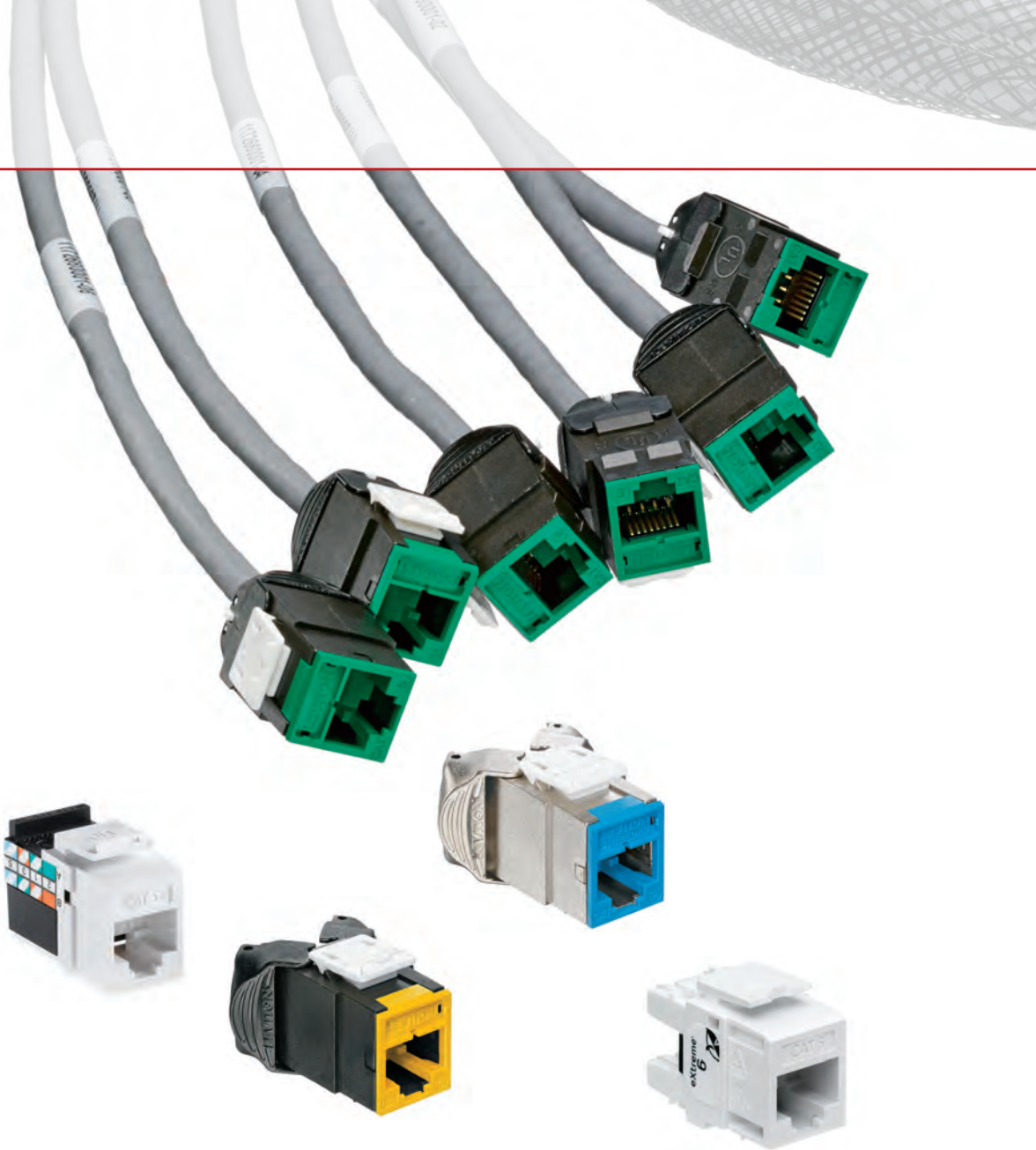
WIRE DISTRIBUTION SPOOLS

[J] Wire Distribution Spool [20-A]* 1 3/4" Dia. x 3" H	40054-0DS
[K] Wire Distribution Spool with screw [20-B]* 1 3/4" Dia. x 3" H	40054-DSS

SURFACE-MOUNT MINI PATCH PANELS

[L] 25 6-position 2-Conductor [RJ-11]* FCC Spec Jacks, connected to a circuit board with one male 25-pair connector	41600-00I
[M] 25 6-position 2-Conductor [RJ-11]* FCC Spec Jacks, connected to a circuit board with two bridged 25-pair connectors	41620-00I
Mounting Magnets (20 per package)	49200-00M

*Numbers in brackets refer to industry product designation.



FEATURED PRODUCTS

Secure RJ System **A29**

e2XHD Trunks **A31**

Atlas-X1 Connectors **A32**

Cable Assemblies & Connectors

Connect data center, telecom room, and work area equipment with Leviton cable assemblies and connectors. Copper trunks can be custom ordered in a wide variety of options — including pre-terminated to e2XHD cassettes — greatly reducing installation time. Patch cords are available in Cat 6A, 6, and 5e, UTP or shielded, lockable, and a variety of lengths, colors, and jacket types. New Atlas-X1 connectors allow for fast tool-free terminations and ensure best-in-class component-rated performance.

MAKE-TO-ORDER (MTO) & SPECIAL ORDER

CONFIGURE YOUR OWN PRODUCTS WITH THE LEVITON MAKE-TO-ORDER PROGRAM

We've made configuring the exact solution for your network quicker and easier than ever. Rely on our innovative online configurators for a wide variety of copper products.

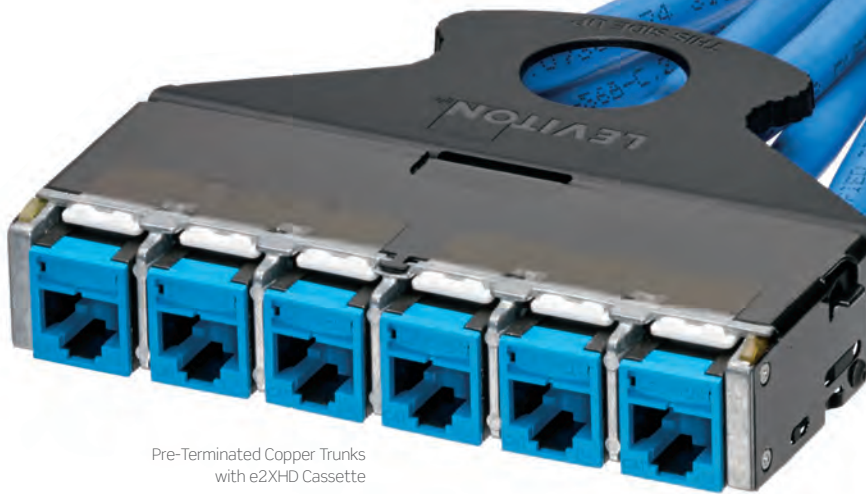
ORDER THROUGH LEVITON ONLINE CONFIGURATORS

- Pre-Terminated UTP & Shielded Copper Trunks - Cat 6A/6/5e
- Pre-Terminated UTP Copper Trunks - e2XHD cassettes
- Patch Cords - Cat 6A/6/5e
- Secure RJ Patch Cords - Cat 6A/6



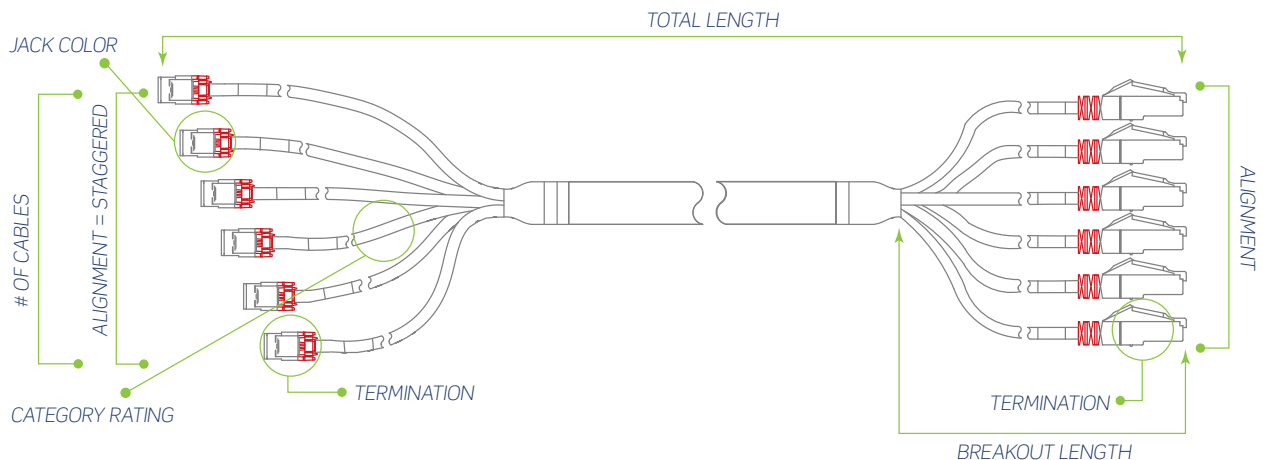
SPECIAL ORDER

- Additional colors and lengths may be available as a special order
- Minimum orders and extended lead time apply for special orders
- Contact Tech Support at 800.824.3005 for more information

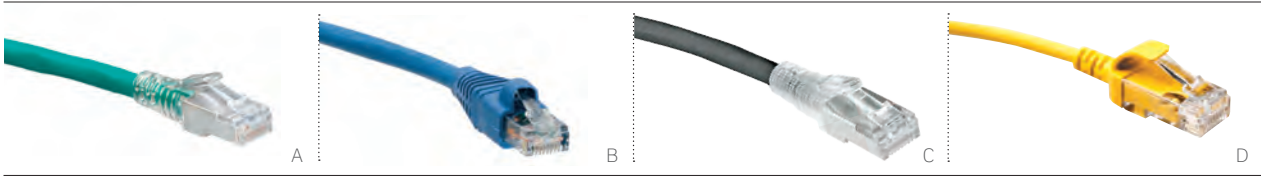


Pre-Terminated Copper Trunks
with e2XHD Cassette

COPPER TRUNK CABLE DIAGRAM (SELECT AT LEVITON.COM/CONFIGURATOR)



PATCH CORDS | Cat 6A, 6 & 5e > UTP & Shielded



SLIMLINE BOOT PATCH CORDS

- Atlas-X1 and eXtreme SlimLine boot cords feature narrow-profile to reduce congestion in high-density applications
- Strain-relief boot ensures long-term network performance
- Snagless boot design prevents tab breakage
- Atlas-X1 Cat 6A and shielded Cat 6 provide exceptional alien crosstalk (AXT) suppression and EMI/RFI protection
- Atlas-X1 Cat 6A uses the same cord for UTP or shielded installations

STANDARD PATCH CORDS

- Matching color cords and boots
- Strain-relief boot ensures long-term network performance
- Snagless boot design prevents tab breakage
- Atlas-X1 shielded Cat 5e patch cords provide exceptional alien crosstalk (AXT) suppression and EMI/RFI protection

HIGH-FLEX HD6 PATCH CORD 1G APPLICATION GRADE

- Ultra high-density design
- 28 -gauge stranded for the ultimate flexibility
- Used in 1 Gigabit applications where Cat 6 patch cords are commonly utilized

CAT 6A/6/5E UTP PATCH CORDS				
DESCRIPTION		CAT 6A	CAT 6	CAT 5E
Atlas-X1 Component-Rated SlimLine Boot Patch Cord	[A]	6AS10-xx*	6D560-xx*	5D560-xx◇
eXtreme Channel-Rated Standard Patch Cord, snagless boot		6210G-xx~	[B] 62460-xx*	—
eXtreme Component-Rated Slimline Boot Patch Cord		—	6D460-xx*	5D460-xx◇
eXtreme Snagless Low-Smoke Zero-Halogen (LSZH) Channel-Rated Patch Cord		6AZ10-++°	6Z460-++°	—
GigaMax Channel-Rated Standard Patch Cord		—	—	5G460-xx◇

SHIELDED PATCH CORDS				
Atlas-X1 Shielded SlimLine Boot Patch Cord		6AS10-xx*	[C] 6S560-xxS	—
Atlas-X1 Shielded Standard Patch Cord		—	—	5S460-xxS

HIGH-FLEX HD6 CORDS				
DESCRIPTION				1G
High-Flex HD6 Patch Cord				[D] 6H460-xx•

* = Color: White (W), Yellow (Y), Red (R), Blue (L), Green (G), Grey (S), Black (E)
 ~ = Color: White (W), Red (R), Blue (L), Grey (S)
 • = Color: White (W), Yellow (Y), Blue (L), Grey (S)
 ◇ = Color: White (W), Yellow (Y), Blue (L), Green (G), Grey (S)
 ++ = Color: White (WH), Blue (BL), Grey (GY)
 xx = Length in feet
 ° = Length in meters
 All Leviton Cat 6A, 6 and 5e patch cords are RoHS Compliant.



Make-to-Order! CAT 6A, 6, & 5E PATCH CORD OPTIONS

CORD SERIES	CORD TYPE	BOOT TYPE	CABLE RATING	COLORS	STANDARD LENGTH (FEET)	MTO LENGTH (FEET)
6AS10	Cat 6A	SlimLine	CMR	White, Yellow, Red, Blue, Green, Grey, Black	3, 5, 7, 10, 15, 20	3-72
6210G	Cat 6A	Snagless	CM (PVC)	White, Red, Blue, Grey	3, 5, 7, 10	N/A
6AZ10	Cat 6A	Snagless	LSZH	White, Blue, Grey	1, 2, 3, 5 meters	N/A
6D460	Cat 6 UTP	SlimLine	CM (PVC)	White, Yellow, Red, Blue, Green, Grey, Black	3, 5, 7, 10, 15, 20	1-200
6D560	Cat 6 UTP	SlimLine	CM (PVC)	White, Yellow, Red, Blue, Green, Grey, Black	N/A	1-200
62460	Cat 6 UTP	Snagless	CM (PVC)	White, Yellow, Red, Blue, Green, Grey, Black	3, 5, 7, 10, 15, 20	1-200
6Z460	Cat 6 UTP	Snagless	LSZH	White, Blue, Grey	1, 2, 3, 5 meters	N/A
6S560	Cat 6 FTP	Slimline	CM (PVC)	Grey	3, 5, 7, 10, 15, 20	1-200
6H460	1G UTP	Snagless	CM (PVC)	White, Yellow, Blue, Grey	0.5, 1, 2, 3, 4, 5, 7, 10, 15, 20	N/A
5D460	Cat 5e UTP	SlimLine	CM (PVC)	White, Yellow, Blue, Green, Grey	3, 5, 7, 10	1-200
5D560	Cat 5e UTP	SlimLine	CM (PVC)	White, Yellow, Blue, Green, Grey	N/A	1-200
5G460	Cat 5e UTP	Snagless	CM (PVC)	White, Yellow, Blue, Green, Grey	3, 5, 7, 10	1-200
5S460	Cat 5e FTP	Snagless	CM (PVC)	Grey	3, 5, 7, 10, 15, 20	N/A

All patch cords utilize stranded cable.

†† LSZH Colors:



Colors:

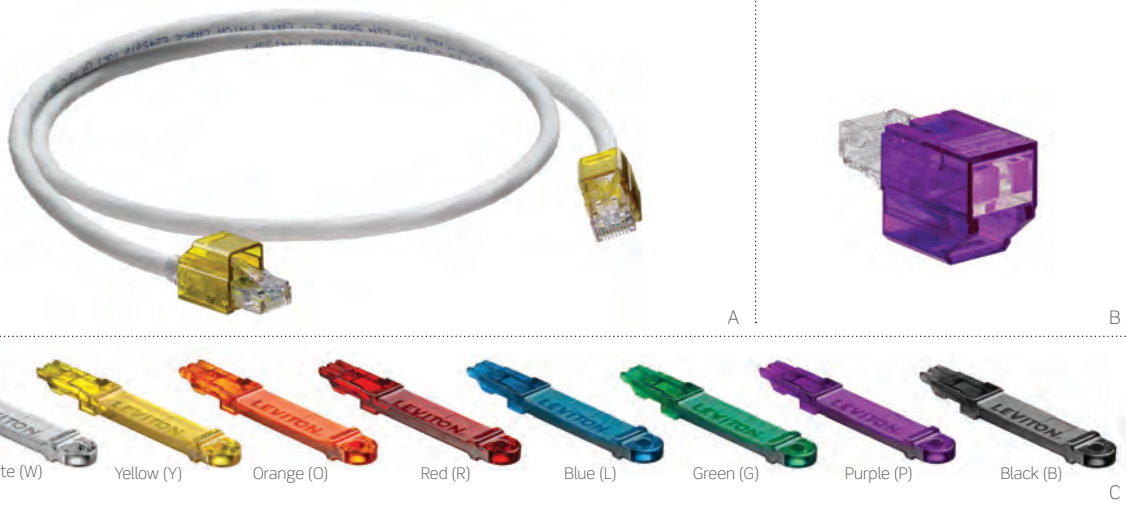


Note: Minimum order quantities may apply for Make-to-Order cords. Additional colors and lengths may be available as a special order. Minimum orders and extended lead time may apply for special orders. Contact Inside Sales at 800.722.2082 for more information.

For assistance customizing your patch cords, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

PATCH CORDS | Secure RJ System

COPPER Patch Cords



SECURE RJ SYSTEM

- Compatible with industry-standard RJ ports in most network equipment, devices, patch panels, and work area outlets
- Same-color extraction tool disengages color-matched patch cords and port blockers
- Transparent housing allows color coding without blocking visibility to Link/Status LEDs on electronic equipment
- Port blocker prevents unauthorized network connection and protects open, unused ports
- Cat 6A & Cat 6 Secure RJ Patch Cord options available

SECURE RJ SYSTEM		
DESCRIPTION	PART NO.	
[A] Cat 6 SlimLine Boot Patch Cord, with Secure RJ housing on both ends	SRJ6 ⁺ -xx*	
[B] Secure RJ Port Blocker, pack of 12	SRJPB-00 [†]	
[C] Secure RJ Extraction Tool, pack of 1	SRJET-00 [†]	

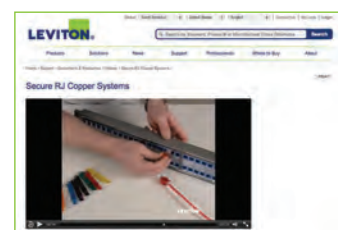
Patch cord jacket colors below:



xx = Length: (05), (10), or (20) feet. Minimum orders and extended lead time may apply. Contact Inside Sales at 800.722.2082 for more details.
[†] = Patch cord housing, port blocker, and extraction tool colors: Choose from the transparent colors shown in (C) above.
^{*} = Patch cord jacket colors: Choose from the colors at right.

Make-to-Order!		SECURE RJ PATCH CORD OPTIONS			
CATEGORY	CABLE RATING	CABLE COLOR	CABLE LENGTH	SECURE HOUSING COLOR	SECURE HOUSING PLACEMENT
Cat 6A FTP	CM (PVC)	White, Yellow, Red, Blue, Green, Grey, Black	3-72 feet	White, Yellow, Red, Blue, Green, Purple, Black, Orange	Both Ends or One End
Cat 6 UTP	CM (PVC)	White, Yellow, Red, Blue, Green, Grey, Black	1-72 feet	White, Yellow, Red, Blue, Green, Purple, Black, Orange	Both Ends or One End

All patch cords utilize stranded cable.



SECURE RJ TRAINING VIDEO

Watch the training video at Leviton.com/ns/videos: "Secure RJ Copper Systems".

For assistance customizing your patch cords, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.



RECOMMENDED APPLICATIONS:

- Data Center Cabinets
- Telecommunications Racks
- Quick Network Deployment

PRE-TERMINATED COPPER TRUNKS

- Custom configured for length, connector type, and more
- Fast and easy installation with reduced labor costs
- 100% factory tested, with test results available
- Cat 6A trunks all use component-rated connectors, which provide guaranteed performance in short lengths
- UTP connectors utilize patented Retention Force Technology for consistent system reliability
- Plugs feature clear SlimLine design with snagless strain-relief boot
- Terminated ends offered in four staggered alignments or even cut
- Customized breakout length from braided sleeve improves installation flexibility and appearance
- Each assembly receives an individualized identification number, and individual cables are numbered relative to that identification number (custom labeling available on request)
- Optional pulling eye protects connectors and eases installation
- Pre-terminated assemblies are eligible for limited lifetime product, system, and performance warranties
- Noise-Canceling Helix Technology (NcHT) cable available for Cat 6A assemblies to reduce bundle size and improve alien crosstalk suppression

Make-to-Order!		PRE-TERMINATED COPPER TRUNK OPTIONS				
CABLE TYPE	CABLE RATING	# OF CABLES	CABLE LENGTH	CABLE COLOR*	INDIVIDUAL JACK COLOR	TERMINATION OPTIONS
Cat 6A UTP	CMP, CMR, LSZH	6, 8	10-295 feet 3-90 meters	Blue	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	Jack, Plug, Open
Cat 6A NcHT UTP	CMP, CMR, LSZH	6, 8	10-295 feet 3-90 meters	Blue	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	Jack, Plug, Open
Cat 6A FTP	CMP, CMR	6	10-295 feet 3-90 meters	Grey	Black**	Jack, Open
Cat 6 UTP	CMP, CMR, LSZH	6, 8, 12	6-295 feet 2-90 meters	Blue	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	Jack, Plug, Open
Cat 5e UTP	CMP, CMR	6, 8, 12	6-295 feet 2-90 meters	Blue	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	Jack, Plug, Open

*Additional cable colors are available, but would require extended lead time. Contact Inside Sales at 800.722.2082 for more details.
 **Additional shielded jack colors are available, but require additional lead-time. Contact Inside Sales at 800.722.2082 for more details.
 All trunks utilize solid conductor cable.

For assistance customizing your Copper trunks, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

PRE-TERMINATED TRUNKS | e2XHD > UTP

e2XHD copper cassettes are available either on pre-terminated trunks or as empty cassettes. See page A18 for field-terminated copper cassettes.



Make-to-Order!		e2XHD COPPER TRUNK ASSEMBLY OPTIONS						
CABLE TYPE	CABLE RATING	# OF CABLES	CABLE LENGTH	CABLE COLOR*	INDIVIDUAL JACK COLOR	CASSETTE JACK COLOR	TERMINATION OPTIONS	
Cat 6A UTP	CMP, CMR, LSZH	6	10-295 feet 3-90 meters	Blue	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	Jack, Plug, Open, Cassette	
Cat 6A NcHT** UTP	CMP, CMR, LSZH	6	10-295 feet 3-90 meters	Blue	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	Jack, Plug, Open, Cassette	
Cat 6 UTP	CMP, CMR, LSZH	6	6-295 feet 2-90 meters	Blue	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	White, Light Almond, Ivory, Yellow, Orange, Crimson, Purple, Blue, Green, Grey, Black, Brown	Jack, Plug, Open, Cassette	

*Additional cable colors may be available, but would require extended lead time. Contact Inside Sales at 800.722.2082 for more details.
All trunks utilize solid conductor cable.
**Noise-Canceling Helix Technology

For assistance customizing your Copper trunks, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

BREAKOUT & ALIGNMENT OPTIONS

Depending on the configuration chosen, different minimum breakout lengths apply. Choose from five different alignment options, or contact Tech Support at 800.824.3005 to discuss a custom alignment option. e2XHD Copper Trunks will always have an even alignment on the cassette end(s).

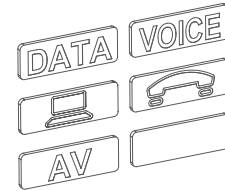
	MINIMUM BREAKOUT LENGTHS	ALIGNMENT OPTIONS
Copper Trunks	<ul style="list-style-type: none"> • 12 cables = 24" minimum • 8 cables = 20" minimum • 6 cables = 18" minimum 	<ul style="list-style-type: none"> • Even • Stagger cable 1 shortest • Stagger cable 1 longest • Stagger cable 1 & 2 shortest (plug) • Stagger cable 1 & 2 longest (plug)
e2XHD Copper Trunks	<ul style="list-style-type: none"> • Cat 6 = 6" minimum • Cat 6A = 24" minimum 	<ul style="list-style-type: none"> • Even



ATLAS-X1 COMPONENT-RATED UTP & SHIELDED CONNECTORS

- Wire manager allows fast, secure, repeatable terminations
- Tool-free design requires no specialized termination tool
- Patented Retention Force Technology (RFT) protects against time damage from 4- or 6-pin plugs, saves on costly repairs, and increases system longevity
- Each connector includes interchangeable icons (VOICE, DATA, AV, and blank), color-coded to match the connector face
- Optional shutters protect ports from dust, debris, and contaminants
- Shielded connectors provide additional EMI/RFI protection, signal isolation, and alien crosstalk (AXT) suppression
- 13 colors available for UTP and shielded connectors
- Additional icons available in 13 colors (Packs of 72 icons)
- Unified form factor of UTP and shielded from Cat 5e to Cat 8 (Cat 8 coming 2015/2016)
- Made in the USA

See Connection Termination Instructions on page X7.



13 connector colors, with matching-color icons included for easy identification (bulk icons also sold separately)

ATLAS-X1 UTP QUICKPORT CONNECTORS

DESCRIPTION	CONNECTOR	CONNECTOR WITH SHUTTERS
[A] Atlas-X1 Cat 6A	6AUJK-R*6	6AUJK-S*6
[B] Atlas-X1 Cat 6	61UJK-R*6	61UJK-S*6
[C] Atlas-X1 Cat 5e	5EUJK-R*5	5EUJK-S*5

ATLAS-X1 SHIELDED QUICKPORT CONNECTORS

[D] Atlas-X1 Cat 6A	6ASJK-R*6	6ASJK-S*6
[E] Atlas-X1 Cat 6	61SJK-R*6	61SJK-S*6
[F] Atlas-X1 Cat 5e	5ESJK-R*5	5ESJK-S*5

ATLAS-X1 BULK ICONS

[G] Atlas-X1 Bulk Icons (pack of 72)	ICONS-IC*
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* = Colors: Choose from any of the colors below.



CATEGORY-RATED CONNECTORS | eXtreme®



EXTREME UTP QUICKPORT® CONNECTORS

- Patented Retention Force Technology protects against damage from 4- or 6-pin plugs
- Pair Separation Towers facilitate quick, effective termination
- Compatible with Fluke JackRapid Punchdown Tool for quick and easy terminations
- Patented large format tear-away, dual-layer wiring guide
- Made in the USA

EXTREME UTP QUICKPORT CONNECTORS

DESCRIPTION	PART NO.	QUICKPACK® 25-PACK	QUICKPACK 150-PACK WITH JACKRAPID TOOL
[A] eXtreme Cat 6A UTP Channel-Rated Connector	6110G-R*6	—	—
[B] eXtreme Cat 6 UTP Component-Rated Connector	61110-R*6	61110-B*6	61110-J^6
[C] eXtreme Cat 5e UTP Component-Rated Connector	5G110-R*6	5G110-B*5	5G110-J^5

* = Colors: Choose from any of the colors below

^ = Colors: White (W), Ivory (I), Orange (O), Blue (L), and Black (E)

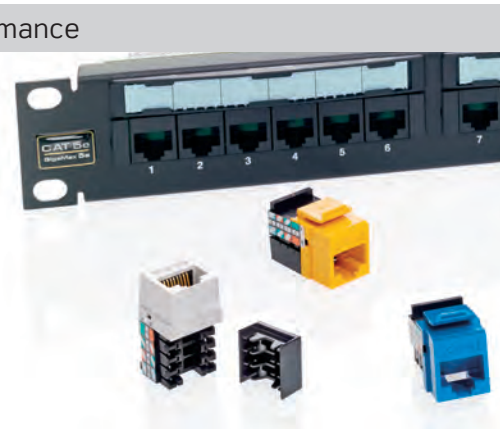
° = Colors: White (W) and Blue (L)

All Leviton Category-Rated Connectors are RoHS Compliant.



SPOTLIGHT Component- vs. Channel-Rated Performance

FEATURE	COMPONENT RATED	CHANNEL RATED
Meets ANSI/TIA standard	✓	✓
Exceeds ANSI/TIA standard	✓	
Complete end-to-end channel tested	✓	✓
Individually certified (tested) component	✓	
Meets channel-link performance	✓	✓
Greater permanent-link performance	✓	
Ensures multi-manufacturer channel compatibility	✓	



GIGAMAX UTP QUICKPORT® CONNECTORS

- Single T568A or T568B wiring labels simplify terminations
- Narrow connector profile for high density installations
- Compatible with Fluke JackRapid Punchdown Tool for quick and easy terminations
- Durable one-piece frame built for longevity
- Made in the USA



A

CAT 5/3 & USOC UTP QUICKPORT CONNECTORS

- Fit into all QuickPort wallplates and housings
- Full support of voice and low-speed data applications
- Cat 5/3 and 8P8C USOC accept RJ-45 plugs; 6P6C USOC accepts RJ-11 plugs

See Connection Termination Instructions on pages X7 and X8.

CONNECTOR ADAPTER BEZELS

- Allow QuickPort connectors to be open spacing installed into third-party wallplates and surface-mount boxes
- Bezel color will be visible after installation
- Packaged individually and sold separately from connectors
- CommScope® bezels fit SYSTIMAX® or Uniprise® wallplates and surface-mount boxes

GIGAMAX CAT 5E UTP QUICKPORT CONNECTORS

DESCRIPTION	PART NO.	QUICKPACK® 25-PACK	QUICKPACK 150-PACK WITH JACKRAPID TOOL
[A] GigaMax Cat 5e UTP Channel-Rated Connector	5G108-R*6	5G108-B*5	5G108-J^5

CAT 5/3/USOC UTP QUICKPORT CONNECTORS

Cat 5 Connector	41108-R*5
Cat 3 Connector	41108-R*3
USOC Connector, 8P8C	41108-R*8
USOC Connector, 6P6C	41106-R*6

CONNECTOR ADAPTER BEZELS

LexCom Connector Adapter Bezel (connector not included)	AB300-00 [†]
CommScope Connector Adapter Bezel (connector not included)	AB100-00 [†]
Clipsal® Connector Adapter Bezel (connector not included)	AB200-00*

* = Colors: Choose from any of the colors on page A33.

† = Colors: Choose from white or black.

^ = Colors: White (W), Ivory (I), Orange (O), Blue (L), and Black (E)

All Leviton Category-Rated and USOC Connectors are RoHS Compliant.



QuickPack® 150-Pack

The QuickPack 150-pack box (61110-J^6, 5G110-J^5, 5G108-J^5) includes 6 bags of 25 connectors and a JackRapid Punchdown Tool.

COOPER



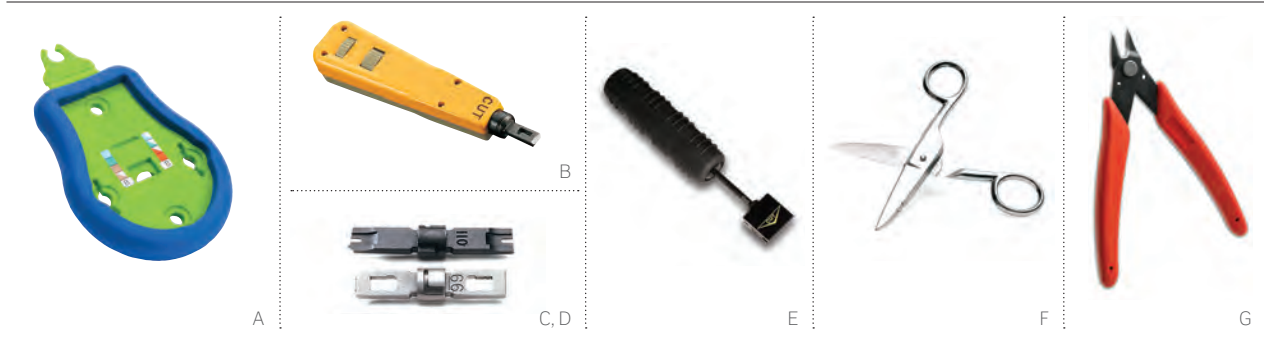
FEATURED PRODUCTS

Palm Termination Tool **A36**

Wire-Punchdown Termination Tool **A36**

Copper Tools & Labeling

Leviton has everything you need to terminate and test our copper solutions. The ergonomic Palm Termination Tool, designed by and for installers, offers comfort-grip or rack-mounted positioning for termination, a sturdy connector holder, and a wire-supporting retainer. The Wire-Punchdown Termination Tool enables one-step punchdown of 110-style or 66 connecting block IDCs with a single push on the handle. Specialized termination tools, test equipment, crimping tools, and other accessories complete the collection.



PALM TERMINATION TOOL

- Overmolded ergonomic soft grip
- Easy-to-see wiring labels
- Connector holders provide stability for punchdown
- Incorporated retainer supports cable during termination
- Integrated holes allow rack-mounting of the Palm Tool for patch panel terminations
- Compatible with eXtreme® and GigaMax® Cat 6A/6/5e and AV connectors

MULTI-PAIR TERMINATION TOOL

- Designed for 110-style wiring blocks
- High-impact, spring-loaded handle for one-punch termination of multiple pairs
- “Blade-in” and “blade-out” options
- Includes 4-pair, Cat 6 head
- Cat 5e and 6 heads available individually

WIRE-PUNCHDOWN / TERMINATION TOOL

- Punches and trims each wire with just a single push of the handle
- Adjustable impact setting for minimal physical effort
- Spare blade storage in handle chamber
- Available in 110 IDC and 66 IDC
- Terminate 22-, 24-, or 26-gauge wire

CUTTING TOOLS

- Klein Tools® Electrician’s Scissors are excellent for cutting and stripping copper cable as well as trimming center splines and rip cords
- Klein Tools Flush Cutter neatly trims individual cable wires flush to connector body to prevent shorts in metal housings (recommended for Atlas-X1 connectors)

TERMINATION TOOLS & BLADES

DESCRIPTION	PART NO.
[A] Palm Termination Tool	47615-PTT
[B] Wire-Punchdown/Termination Tool (blades sold separately)	49553-814
[C] 110 IDC Blade	49553-110
[D] 66 IDC Blade	49553-066

MULTI-PAIR TERMINATION TOOLS & ACCESSORIES

[E] Mass-Termination Multi-Pair Tool Handle with Cat 6, 4-pair head	49553-TTH
Mass-Termination Replacement Head, Cat 6, 4-pair	49553-64H
Mass-Termination Replacement Head, Cat 5e, 5-pair	49553-55H

CUTTING TOOLS

[F] Klein Tools Electrician’s Scissors	49886-SIS
[G] Klein Tools Flush Cutter (must be ordered in increments of 5)	49886-FCS



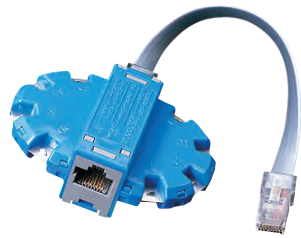
A



B



C



D



E

TONE TEST SET

- Low-voltage tester for continuity, shorts, and opens
- Talk battery for a communications line on a vacant pair
- Identifies tip and ring polarity, and line condition for clear line with dial tone, busy line, and ringing line
- Generates continuous or warble tone to trace pairs and locate broken pairs/cables in walls - use with Inductive Speaker Probe (below)

INDUCTIVE SPEAKER PROBE

- Detects audible frequency tones for accurate tracing and identification of wires, cables, and metallic circuits

MODULAR PLUG BREAKOUT ADAPTER

- For testing any 6- or 8-position modular jacks
- Works with the Tone Test Set

COAXIAL CONNECTOR TOOLS

- Crimp coax onto RG-59 or RG-6 cables
- Rugged metal construction with cushioned handles

MASTER COMPRESSION TOOL

- Terminates all Leviton coaxial compression connectors, including RCA and F-connectors
- Radial-style crimp compresses uniformly around connector body

TONE TEST SET, INDUCTIVE SPEAKER PROBE & KITS

DESCRIPTION	PART NO.
[A] Tone Test Set (includes 9-volt battery)	49560-TTS
[B] Inductive Speaker Probe (includes 9-volt battery, one duckbill tip, and one needlepoint tip)	49561-SSP
[C] Kit containing one Tone Test Set with Belt Holster, and one Inductive Speaker Probe with Belt Holster	49562-TSK

MODULAR PLUG BREAKOUT ADAPTER

[D] Modular Plug Breakout Adapter	40070-MDP
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COAXIAL CONNECTOR TOOLS

Crimping Tool for Coaxial Connectors	40988-000
[E] Master Compression Tool	40989-CPT



WORK-AREA LABELING SOLUTIONS

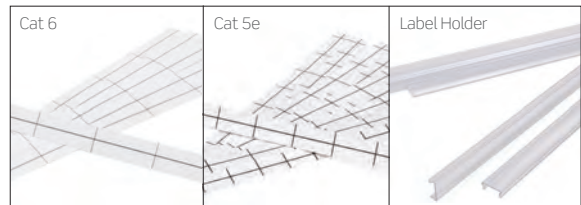
DESCRIPTION	PART NO.
[A] QuickPort® Shutter Kit (50 shutters) White Label Kit	51084-ICN 51084-XLB
[B] Color Label Kit includes grey, orange, red, yellow, green, blue, purple, and brown (2 sheets of each color)	51084-CLB
[C] Labels and Windows for Wallplates & Housings on page D4 Labels and Windows for Stainless-Steel and Angled Wallplates on pages D5 and D6 Pre-printed Port Labels, black ink, 10 sheets per package	41080-IDW 43080-IDW 41080-LEB

PATCH PANEL LABELING SOLUTIONS

[D] Adhesive Holder and Labels Kit for QuickPort Panels (supports 24 ports)	49257-QHD
[E] Adhesive Holder and Labels Kit for 110-Style Panels (supports 24 ports)	49257-I24
[F] Designation Kit Replacement for 110-Style Panels (supports 24 ports)	69585-IDL

110-STYLE LABELING SOLUTIONS

DESCRIPTION	PART NO.
Cat 6 Label Kit, 6/kit	41LBL-60W
Cat 5e Label Kit, 6/kit	41LBL-00W
Label Holder, 6/kit	41100-HLD



SPOTLIGHT Leviton Palm Termination Tool



Use the Leviton Palm Termination Tool (page A36) to quickly and easily punchdown connectors at the job site. The Palm Tool was designed with contractor input and offers an ergonomic comfort grip, increased connector stability, and integrated holes that allow rack mounting for QuickPort panel terminations. The Palm Tool is compatible with eXtreme and GigaMax Cat 6A/6/5e and QuickPort AV connectors.

FIBER SOLUTIONS




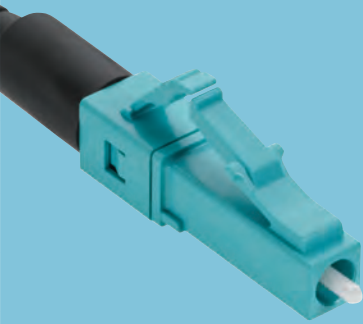




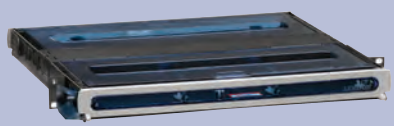



SECTION

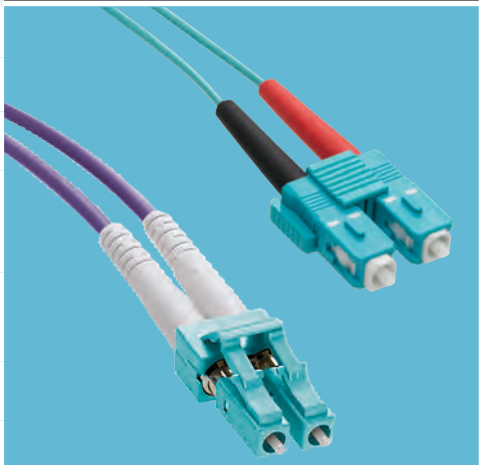
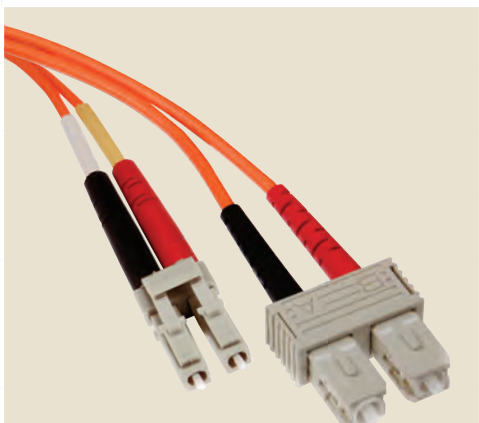
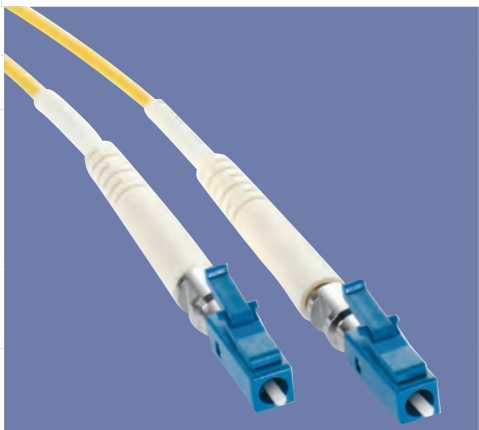
B



SECTION B CONTENTS

INTRODUCTION	B3	Systems Overview	FLUSH-MOUNT ENCLOSURES & PANELS	B41	Introduction
	B5	Pre-Terminated Solutions		B42	Enclosures & Panels
	B6	Opt-X® Unity 40/100G			
HDF3168 DISTRIBUTION SYSTEM	B7	Introduction	EQUIPMENT-SPECIFIC SOLUTIONS	B43	Introduction
	B9	Frame, Patch & Splice Decks		B44	Vertical Patching Brackets & Blade Replicators
OPT-X UHD ENCLOSURE SYSTEM	B11	Introduction		B45	Replicator® Enclosures
	B13	Enclosures, Trays, & Accessories		B46	100/40G to 10G Conversion
	B14	HDX Adapter Plates & Cassettes	PRE-TERMINATED CABLE ASSEMBLIES	B47	Introduction
OPT-X HD ENCLOSURE SYSTEM	B15	Introduction		B48	Make-to-Order Overview
	B16	Enclosures, Trays, & Accessories		B49	Trunk Cables > Opt-X Unity 40/100G MTP®
OPT-X ENCLOSURE SYSTEM	B17	Introduction		B51	Trunk Cables > Standard
	B18	Opt-X Ultra®		B52	Trunk Cables > Secure Keyed LC
	B19	Opt-X 1000i		B53	MTP Harnesses > Opt-X Unity 40/100G
	B20	Opt-X 500i		B54	Harnesses > Standard
	B21	Opt-X 1000		B55	Harnesses > Secure Keyed LC
	B22	VertiGO®		B56	Array Cords > Opt-X Unity 40/100G
	B23	Adapter Plates		B57	Patch Cords & Pigtails > Premium
	B25	MTP® Premium Cassettes		B58	Patch Cords & Pigtails > Economy
	B26	MTP® Opt-X Unity Cassettes		B60	Patch Cords & Pigtails > Secure Keyed LC
	B27	Splice Trays & Splice Modules	CONNECTORS & HOUSINGS	B61	Introduction
	B28	Accessories		B62	Connectors > FastCAM®
e2XHD SNAP-IN CASSETTE PATCHING SYSTEM	B29	Introduction		B63	Connectors > Fast-Cure®
	B31	Panels, Cable Managers, Covers & Tools		B64	Connectors > Secure Keyed LC
	B32	Cassettes		B65	Fiber Optic Fan-Out Kits
LIGHTSPACE ENCLOSURE SYSTEM	B33	Introduction	TOOLS & CONSUMABLES	B66	QuickPort® Adapters
	B34	Rack-Mount		B67	Introduction
	B35	Wall-Mount		B68	Featured Products
	B37	Adapter Plates		B69	Fiber Optic Tool Kits
	B39	Splice Trays & Holders		B71	Fiber Optic Tools
	B40	Splice Sleeves & Enclosure Accessories		B72	Consumable Products & Kits

TYPE	ENCLOSURE SYSTEM	ADAPTER PLATES	CONNECTORS
<p>OM3 OM4 OM4+</p> <p>50/125 μm Laser-Optimized Multimode Systems</p>	 <p>Opt-X® UHD See Page B13</p>  <p>Opt-X 1000i HD See Page B16</p>	 <p>HDX Cassettes & Adapter Plates See Page B14</p>	 <p>Field-Installable Connectors See Page B62</p>
<p>OM1 OM2</p> <p>62.5/125 μm or 50/125 μm Multimode Systems</p>	 <p>Opt-X 1000i See Page B19</p>  <p>Opt-X 500i See Page B20</p>	 <p>Opt-X Adapter Plates See Page B23</p>	 <p>Field-Installable Connectors See Page B62</p>
<p>OS1 OS2</p> <p>Single-Mode System</p>	 <p>Opt-X Ultra See Page B18</p>  <p>Opt-X 1000i See Page B19</p>	 <p>Opt-X Adapter Plates See Page B23</p>	 <p>Field-Installable Connectors See Page B62</p>

CABLE ASSEMBLIES	SPECIFICATION CHART						APPLICATIONS	
 <p>Fiber Patch Cords See Page B57</p>	SPECIFICATION	OM3 SYSTEM		OM4 SYSTEM		OM4+ SYSTEM		<p>Data center infrastructure</p> <p>High-bandwidth enterprise, building automation, and security</p> <p>Medium-to-large enterprise networks</p> <p>High-performance computer clusters</p> <p>Migration path to Opt-X® Unity 40/100G</p> <p>VCSEL-based propagation</p>
		850 NM	1300 NM	850 NM	1300 NM	850 NM	1300 NM	
	Max. Attenuation (dB/km)	3.0	1.0	3.0	1.0	3.0	1.0	
	Overfill Launch Min. Bandwidth (MHz•km)	1500h	500 ²	N/A	500 ²	N/A	500 ³	
	Effective Modal Bandwidth (EMB) (MHz•km)	2000 ¹	N/A	4700 ¹	N/A	4900	N/A	
	1G Transmission Distance (m)	1000	600	1040	600	1210	600	
	10G Transmission Distance (m)	300	300	550	300	600	300 ⁵	
	40/100G Transmission Distance (m)	100	N/A	150	N/A	300 ³	N/A	
<small>¹ The effective modal bandwidth is determined based on an overfill launch (OFL) per ANSI/TIA-455-204, except on LOMM fiber types.</small>								
<small>² 10GbE transmission at 1,300 nm only applies to 10GBASE-LX4 (CWDM).</small>								
<small>³ Reach calculation is based on attenuation of <math>\leq 3.0</math> dB/km at 850nm and 1.0 db of connector loss.</small>								
 <p>Fiber Patch Cords See Page B57</p>	SPECIFICATION	OM1 SYSTEM		OM2 SYSTEM		<p>Building backbones and zone cabling</p> <p>Legacy cabling (62.5/125 μm fiber/OM1)</p> <p>Low-bandwidth enterprise, building automation, and security</p> <p>Small-to-medium enterprise networks</p> <p>LED-based propagation (62.5/125 μm fiber/OM1)</p> <p>LED- or laser-based propagation (50/125 μm fiber/OM2)</p>		
		850 NM	1300 NM	850 NM	1300 NM			
	Maximum Attenuation (dB/km)	3.5	1.0	3.0	1.0			
	Overfill Launch Minimum Bandwidth (MHz•km)	200	500	950	500			
	1G Transmission Distance (m)	300	600	750	600			
	10G Transmission Distance (m)	36	300	150	300			
 <p>Fiber Patch Cords See Pages B57 and B59</p>	SPECIFICATION	OS1 SYSTEM		OS2 SYSTEM		<p>Campus and building backbones</p> <p>Entrance facilities and equipment rooms</p> <p>Long distances</p> <p>Carrier equipment</p>		
		1310 NM	1550 NM	1310 NM	1550 NM			
	Maximum Attenuation (dB/km)	0.5	0.4	0.4	0.3			
	1G Transmission Distance (m)	5,000	N/A	5,000	N/A			
	10G Transmission Distance (m)	10,000	N/A	10,000	N/A			

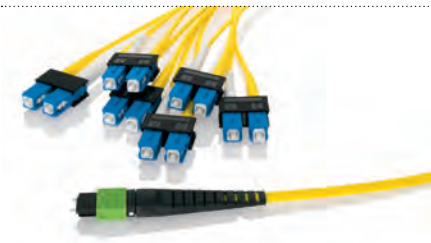
PRE-TERMINATED SOLUTIONS

Leviton recommends using pre-terminated trunks and harnesses whenever possible. With 100% factory testing and no need for field terminations or splices, installation time is reduced by up to 70%. Plug-n-play pre-terminated MTP® cassettes feature a space-saving design with a notched back for a smaller footprint and excellent radius control. All Leviton pre-terminated solutions are made to your specifications: fiber and cable type, fiber count, connector type, breakout leg types, length, and more. More information on page B47.



TRUNK CABLES (see pages B49-B51)

- MTP to MTP, including 12- and 24-fiber MTP connectors
- Discrete to discrete (LC, SC, ST, APC, and MU)
- MTP to discrete*
- Single-mode, multimode, and laser-optimized multimode types available
- Secure Keyed LC trunks lock into any industry-compliant adapter or interface



HARNESSES (see pages B53-B55)

- MTP to MTP connectors
- MTP to discrete connectors (LC, SC, ST, and MU)*
- Single-mode, multimode, and laser-optimized multimode types available
- Secure Keyed LC harnesses lock into any industry-compliant adapter or interface



MTP CASSETTES

- Available in HDX, Opt-X, and e2XHD form factors
- 12- or 24-fiber MTP connectors on the back
- MTP connectors or discrete connectors on the front, including LC, SC, and MU*
- Single-mode, multimode, and laser-optimized multimode types available

* = LC/APC and SC/APC available for OS2.

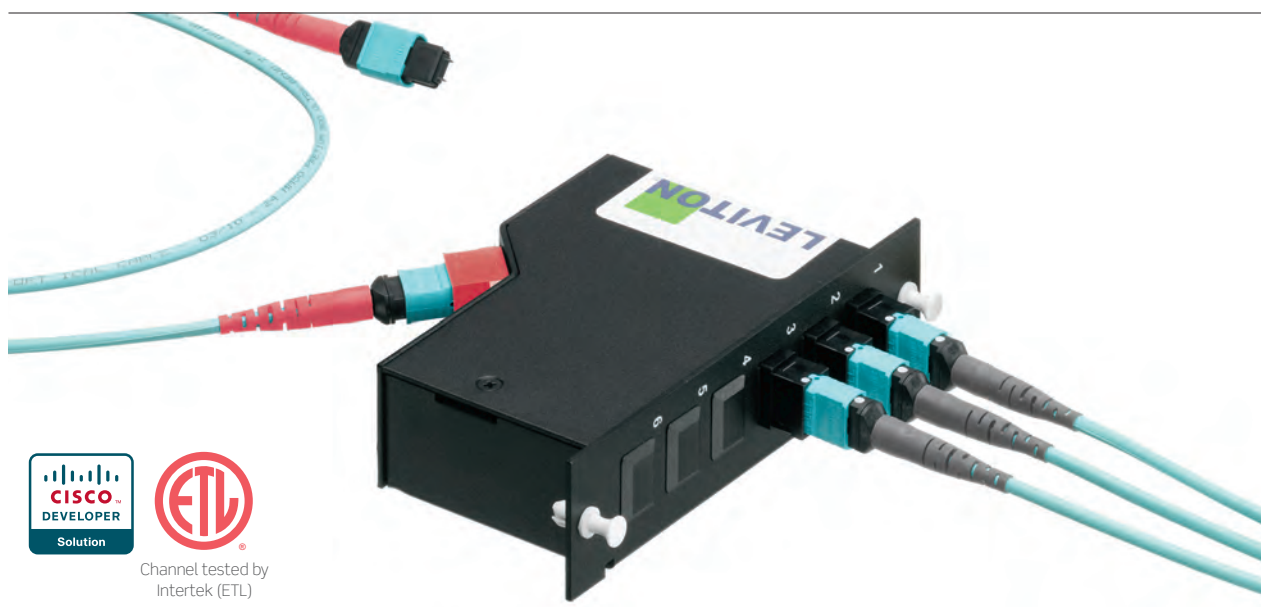
PRE-TERMINATED FIBER CABLING PERFORMANCE

CONNECTOR MATED PAIRS	MULTIMODE					SINGLE-MODE			MTP CASSETTES & HARNESSES	MULTIMODE		SINGLE-MODE	
	DUPLEX TYPICAL IL	DUPLEX MAX IL	12-FIBER STANDARD TYPICAL IL	12-FIBER STANDARD MAX IL	12- & 24-FIBER PREMIUM MAX IL	STANDARD TYPICAL IL	STANDARD MAX IL	12- & 24-FIBER PREMIUM MAX IL		12-FIBER PREMIUM MAX IL	24-FIBER PREMIUM MAX IL	12-FIBER STANDARD MAX IL	24-FIBER PREMIUM MAX IL
LC	0.15	0.25	—	—	—	0.25	0.35	—	LC	0.50	0.50	1.00	0.50
SC	0.20	0.25	—	—	—	0.25	0.35	—	SC	0.50	—	1.00	0.60
MU	0.15	0.25	—	—	—	0.25	0.35	—	MU	0.50	—	1.00	0.60
MTP	—	—	0.35	0.50	0.35	—	0.75	0.35					

SPOTLIGHT

Core & Edge Cassettes

In order to achieve proper polarity when using Method B with two cassette configurations, Core and Edge cassettes must be used in pairs. This will simplify the design requirements for trunks and patch cords. For consistency, Core cassettes are typically placed at the main connection point, at or close to the main switching equipment. Edge cassettes are placed at the end connection point, near access layer equipment. For easy identification, Core cassette casing and pins are black, while Edge cassette casing and pins are white.



PREPARE FOR 40/100G WITH THE OPT-X UNITY MULTIMODE SYSTEM

Leviton pre-terminated Opt-X Unity 40/100G laser-optimized multimode (LOMM) systems offer an ideal migration path to 40/100G speeds. They also meet IEEE 802.3ba and 802.3bm standards, which respond to the needs of data centers and enterprise networks that require speeds beyond 10 Gbps. The Opt-X Unity system features pre-terminated trunks, harnesses, array cords, and MTP® cassettes to help you future-proof your networks. See pages B49, B50, B53, and B56 for detailed product information.

- System of trunks, harnesses, and cassettes is 40/100G ready
- Industry-leading 24-fiber MTP system
- System uses best-in-class MTP premium multi-fiber connectors
- Available in laser-optimized multimode (OM3/OM4/OM4+)
- Third-party verification of 40/100G channel performance

OPT-X UNITY 40/100G SYSTEM

- 24-fiber MTP trunks
- 24-fiber MTP harnesses
- 24-fiber MTP array patch cords
- 24-fiber MTP cassettes
- 100G migration is available in HDX, Opt-X, and e2XHD footprints

MIGRATION SOLUTIONS TO OPT-X UNITY 40/100G SYSTEM FROM EXISTING 10G NETWORKS

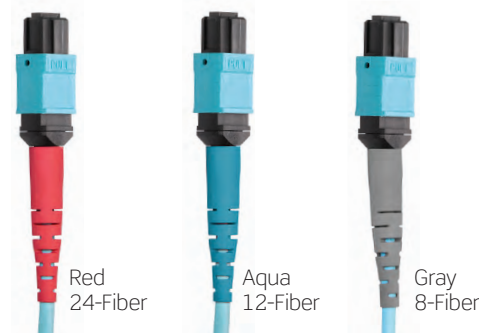
- Premium 12-fiber MTP trunks
- Premium 12-fiber MTP harnesses
- 24-fiber and premium 12-fiber array patch cords
- Premium 12-fiber MTP cassettes

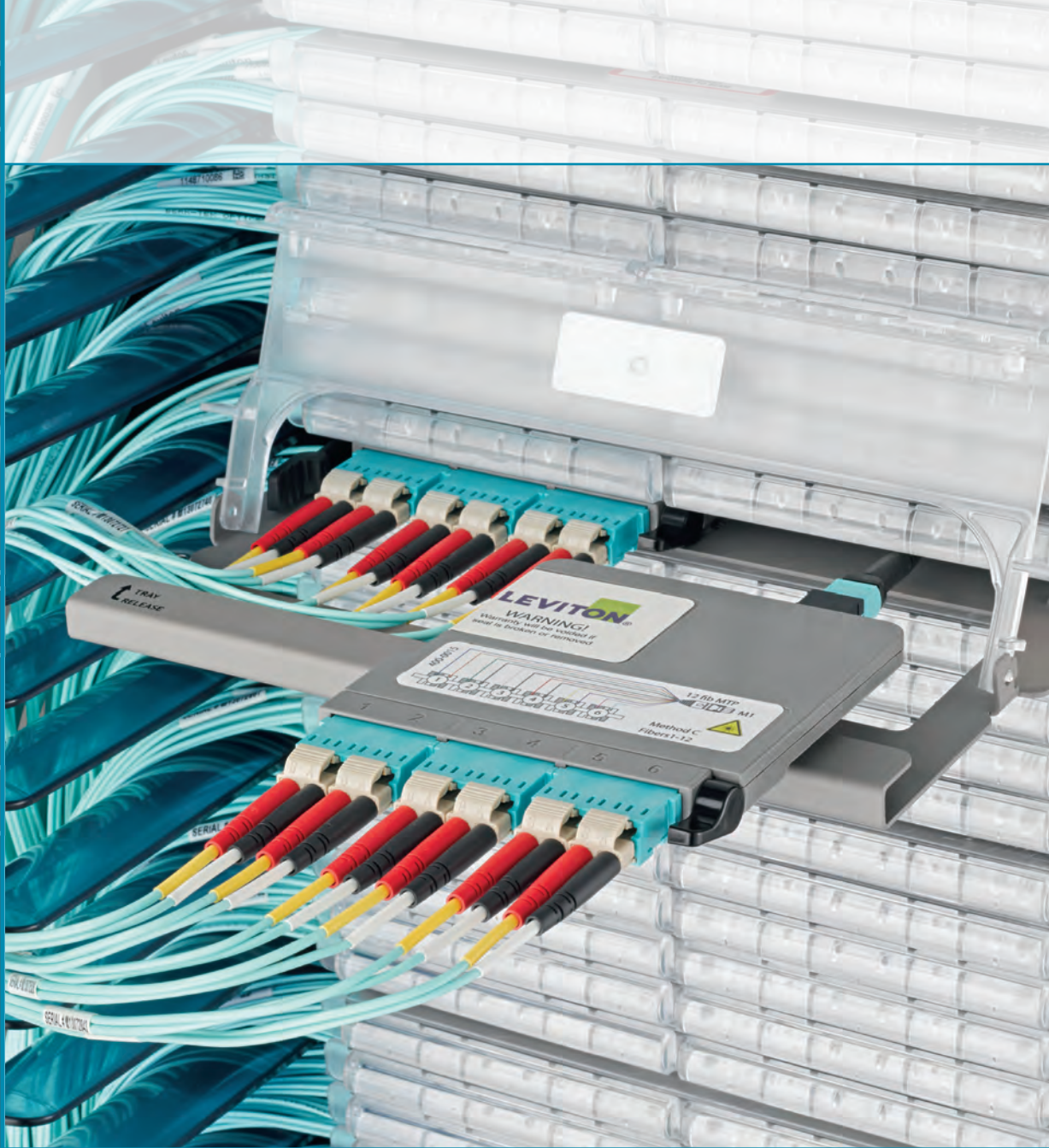
40/100G MULTIMODE CHANNEL REQUIREMENTS (IEEE802.3BA)

OPTICAL FIBER TYPE	MAX. CHANNEL INSERTION LOSS	MAX. CONNECTOR LOSS	MAX. DISTANCE
OM3	1.9 dB	1.5 dB	100 meters
OM4	1.5 dB	1.0 dB	150 meters
OM4+	1.5 dB	1.0 dB	300 meters

Contact dcteam@leviton.com for help designing your 10/40/100G migration plan.

COLOR-CODED BOOTS ON MTP



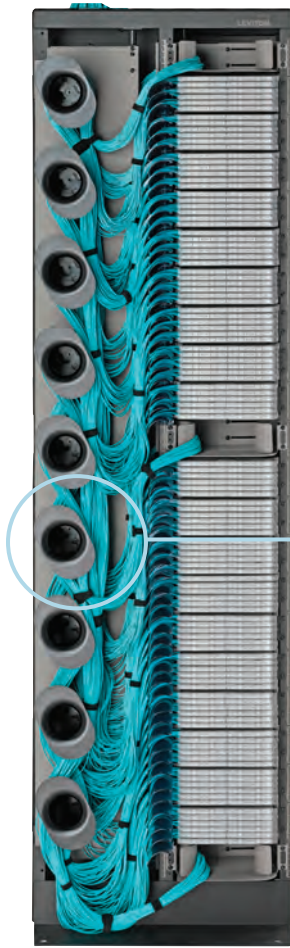


HDF3168 Distribution System

The Leviton high-density HDF3168 Distribution System can handle up to 3,168 LC terminated fibers in just one tile of floor space. Ideal for service providers, central office facilities, large enterprise and cloud data centers, the HDF3168 Distribution System will reduce your patching footprint, free up valuable space, and save you money. Integrated trunk cable and patch cord management improves accessibility and enables easy moves, adds, and changes. In addition, the system is fully scalable and modular, supporting consolidation and growth.

FEATURED PRODUCTS

Frame, Patch & Splice Decks **B9**



INDUSTRY-LEADING DENSITY

HDF3168 CAPACITY CHART

CONNECTIVITY	MAX. FIBER STRANDS
LC	3,168
SC	1,584
12-Fiber MTP®	7,776
24-Fiber MTP	15,552

Chart based on use of 48-fiber trunks

The HDF system accomplishes such high density through its unique patch deck design. One frame holds up to 22 patch decks, each configured with your choice of fiber cassettes, adapter plates, or splice trays.

BUILT-IN CABLE MANAGEMENT & ROUTING

The frame keeps pathways clean and organized, using integrated cable management for minimum bend radius, better slack storage, and protection within the frame. Patch decks contain patch cord and MTP trunk routing for individual trays. And enhanced labeling improves deck and fiber identification to simplify moves, adds, or changes.

SUPERIOR SCALABILITY

HDF3168 frames can be ganged together to handle future growth with easy pass-through cross-frame routing kits. And with 24-fiber MTP connectivity, they are ideal for migration from 10G to 40G to 100G and beyond.

ADDITIONAL SECURITY

The HDF frame includes rear doors that lock to protect and conceal trunk cabling. Locking front doors (sold separately) are transparent to allow visibility.

EASY ACCESSIBILITY

The frame's open design greatly reduces time and labor for maintenance, as it allows unobstructed access to patch cord connections on the cassettes and adapter plates. And the one-tile footprint makes it easier to access the space beneath a raised floor.



HDF3168 DISTRIBUTION SYSTEM | Frame, Patch & Splice Decks



FIBER DISTRIBUTION FRAME

- Integrated cable management and routing solutions for minimum bend radius, better slack storage, and protection
- Holds up to 22 decks, each configured with cassettes, adapter plates, or splice trays
- Lockable rear doors included to protect and conceal trunk cabling
- Optional front doors (sold separately) are transparent and lockable for additional security
- Occupies only one 2-foot square tile
- Seismic rated to GR-63-CORE, Zone 4, UL 2046 Listed

PATCH DECK

- 2RU height for up to 144 fibers (using LC) capacity
- Holds 6 independent sliding trays and accepts up to 12 HDX adapter plates or cassettes
- Magnifying port identification label holders for better visibility
- Integrated minimum bend radius protection



See page B14 for
HDX Cassettes
and Adapter Plates.

SPLICE DECK

- Modular 3.5-inch-high deck accepts up to three independent splice trays
- Sliding trays are removable for ease of splicing
- Heat-shrink fusion splicing of individual 250 μm or 900 μm tight-buffer fibers for up to 144 fibers per deck
- Mass ribbon fusion splicing available as custom order

24-FIBER HIGH-DENSITY SPLICE TRAY

- Use with HDF3168 Splice Decks
- Protect and manage heat-shrink spliced fibers
- Heat-shrink splice sleeves included

HDF3168 DISTRIBUTION SYSTEM | Frame, Patch & Splice Decks

HDF3168 FIBER OPTIC DISTRIBUTION SYSTEM

DESCRIPTION	PART NO.
[A] Fiber Distribution Frame, 7' H x 2' W x 2' D	F3168-22F
[B] Patch Deck, 2RU, empty (includes VELCRO® Brand ties and cable clamp kit)	F3168-DCK
[C] Splice Deck, 2RU, empty (includes VELCRO Brand ties, mesh sleeve, and cable clamp kit)	F3168-SPD
[D] Cross-Frame Routing Kit	F3168-CFR
[E] Front Doors Kit	F3168-FDR
Cable Clamp Kit	F3168-CCK
2RU Blank Panel	F3168-BLK

24-FIBER SPLICE TRAY

[F] 24-fiber Heat Shrink Style Molded Splice Tray (includes 60 mm splice sleeves)	T5PLS-24F
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Make-to-Order! HDF3168 FRAME OPTIONS

# OF PATCH DECKS	# OF HDX CASSETTES OR ADAPTER PLATES PER PATCH DECK	CASSETTE FIBER COUNT	FIBER TYPE	HDX CASSETTE/ PLATE CONNECTOR TYPE (FRONT)	HDX CASSETTE/ PLATE CONNECTOR TYPE (REAR)	HDX CASSETTE POLARITY	FRONT DOORS KIT
• 1-22	• 1-12	<ul style="list-style-type: none"> • 12 • 24 • 48 • Adapter Plate Only 	<ul style="list-style-type: none"> • OM2 • OM3 • OM4 • OS2 	<ul style="list-style-type: none"> • LC • SC • MTP (key up) 	<ul style="list-style-type: none"> • LC (Plate) • SC (Plate) • MTP (Plate, key up) • MTP (Plate, key down) • 12-Fiber MTP (Cassette) • 24-Fiber MTP (Cassette) 	<ul style="list-style-type: none"> • Method A • Method B (Core) • Method B (Edge) • Method C • None (Adapter Plate) 	<ul style="list-style-type: none"> • Yes • No

Make-to-Order! HDF3168 PATCH DECK OPTIONS

# OF CASSETTES OR ADAPTER PLATES PER DECK	CASSETTE FIBER COUNT	FIBER TYPE	HDX CASSETTE/PLATE CONNECTOR TYPE (FRONT)	HDX CASSETTE/PLATE CONNECTOR TYPE (REAR)	HDX CASSETTE POLARITY
• 1-12	<ul style="list-style-type: none"> • 12 • 24 • 48 • Adapter Plate Only 	<ul style="list-style-type: none"> • OM2 • OM3 • OM4 • OS2 	<ul style="list-style-type: none"> • LC • SC • MTP (key up) 	<ul style="list-style-type: none"> • LC (Plate) • SC (Plate) • MTP (Plate, key up) • MTP (Plate, key down) • 12-Fiber MTP (Cassette) • 24-Fiber MTP (Cassette) 	<ul style="list-style-type: none"> • Method A • Method B, Core • Method B, Edge • Method C • None (Adapter Plate)

Make-to-Order! HDX MTP CASSETTE OPTIONS

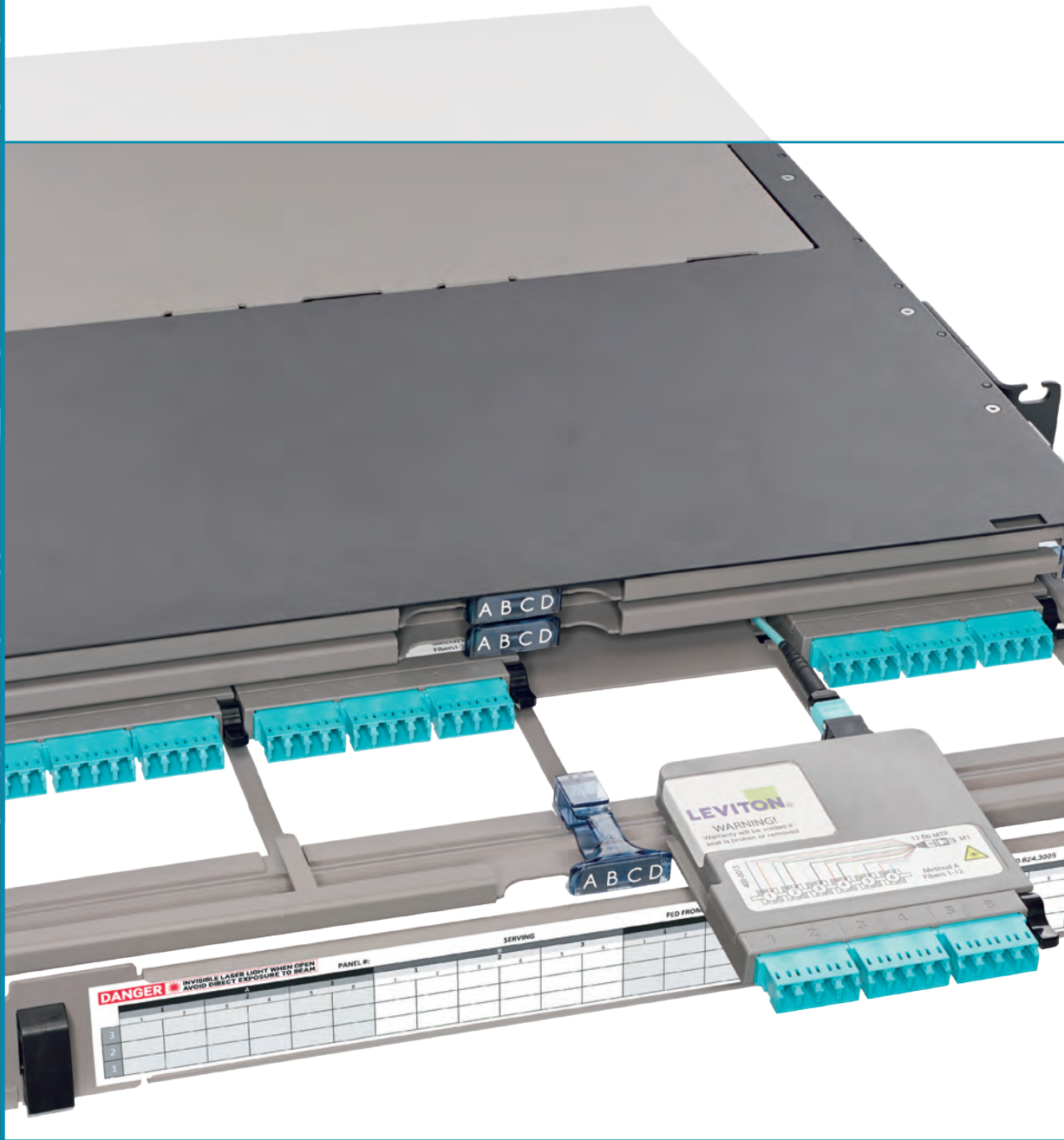
FIBER TYPE	FIBER COUNT	CONNECTOR TYPE (FRONT)	MTP TYPE (REAR)	POLARITY
<ul style="list-style-type: none"> • OM2 • OM3 • OM4 • OM4+ • OS2 	<ul style="list-style-type: none"> • 12 • 24 • 48 	<ul style="list-style-type: none"> • LC • LC (Violet) • 8-Fiber MTP (Female) 	<ul style="list-style-type: none"> • 12-Fiber MTP (Male) • 24-Fiber MTP (Male) 	<ul style="list-style-type: none"> • Method A • Method B, Core • Method B, Edge • Method C

For Method B polarity, you must order one each of the Core and Edge cassettes.

For assistance customizing your HDF3168 system, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

ROI™ Savings Calculator

Calculate your return on infrastructure investment when installing the HDF3168 Distribution System in your Main Distribution Area. Go to apps.Leviton.co/HDFcalculator.



Opt-X® UHD Enclosure System

144 Fibers Per RU (using LC)

Data centers and telecommunications rooms are rapidly outgrowing their footprints as they attempt to meet increasing network demands. Leviton Opt-X UHD enclosures offer optimum patching capacity in areas where space is at a premium. Using HDX Cassettes and Adapter Plates, the enclosures allow up to 144 fibers with LC connectors, or 1,728 fibers with 24-fiber MTP® connectors — the highest density per rack unit available.

FEATURED PRODUCTS



Opt-X UHD Enclosure System **B13**

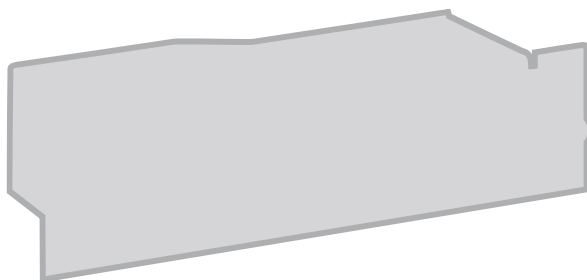
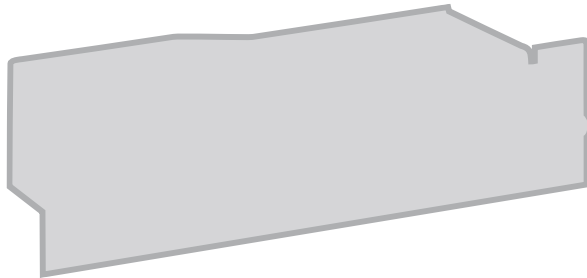
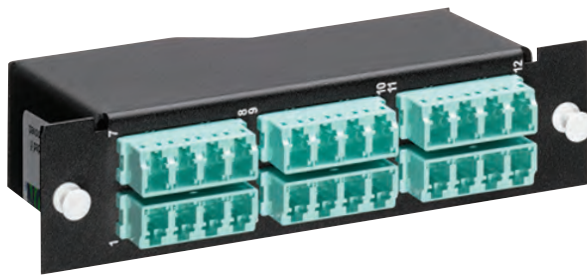
HDX Adapter Plates & Cassettes **B14**

A PART OF THE **OPT-X FAMILY**

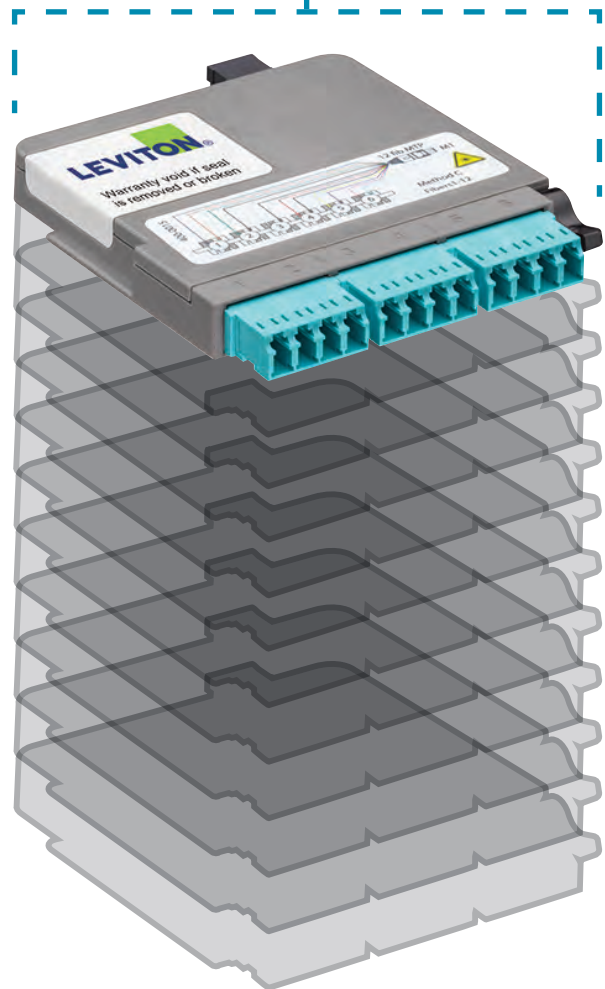
Opt-X fiber enclosures, adapter plates, MTP cassettes, and cable assemblies offer flexible connections and storage options. Featuring compact HDX cassettes and adapter plates that fit into Opt-X UHD enclosures, this innovative system creates a scalable platform for comprehensive enterprise and data center applications.

100%

More fiber density in the **same space** with LC connectors



Capacity of 1RU Opt-X Standard Enclosure with MTP-LC Cassette (72 fibers)



Capacity of 1RU Opt-X UHD Enclosure with MTP-LC HDX Cassette (**144 fibers**)

OPT-X® UHD ENCLOSURE SYSTEM | Enclosures, Trays, & Accessories



OPT-X UHD RACK-MOUNT ENCLOSURES

- Accept Leviton HDX Cassettes and Adapter Plates
- The highest density per rack unit available: up to 144 fibers with LC connectors or 1,728 fibers with 24-fiber MTP® connectors
- Individual sliding trays allow easy access to fiber connectors in dense applications while minimizing the impact to surrounding fibers
- Hinged front door protects patch cords and provides an easy means to install, remove, and update port id label cards
- Highly visible port locators in the front and rear of the enclosure help easily identify specific ports
- Hinged or removable rear doors improve accessibility to rear cable pathways
- Optional brush guards minimize dust build up in rear of enclosure
- Accessory kit consists of cable ties, mounting ear screws, and port ID card label
- 19-inch or 23-inch rack-mount options
- Enclosures are sold unloaded or can be pre-configured at Leviton.com/configurator



RECOMMENDED APPLICATIONS:

Data Centers

Entrance Facility

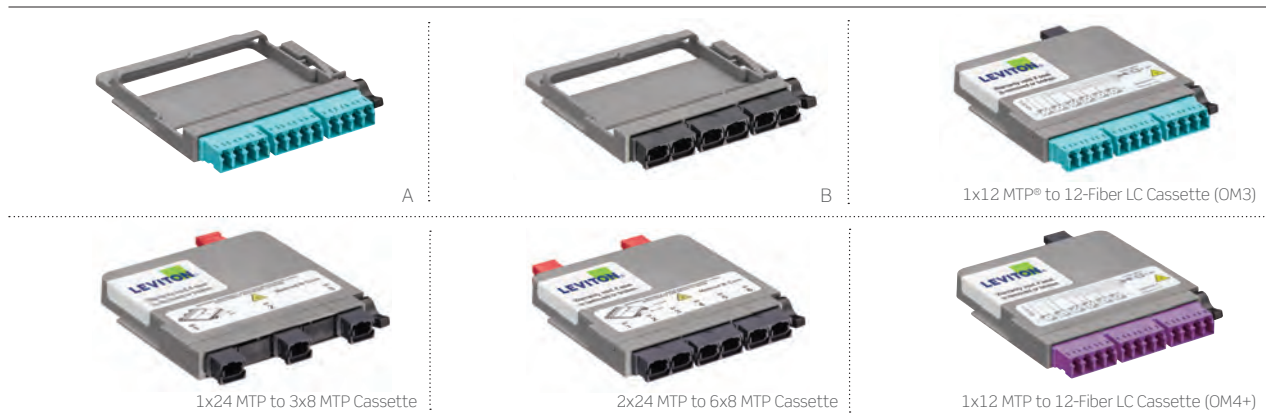
19" and 23" Racks and Cabinets

OPT-X CLAMP KITS

- Cable clamp kits minimize excessive pulling, bending, and crushing
- Support easy cable identification and decreases the need for tie-wraps inside the enclosure
- Create a transition point from jacketed cable to buffered fiber or subunits
- Ideal for vertical strain relief and strain relief at the top or bottom of a rack/cabinet

OPT-X UHD RACK-MOUNT ENCLOSURES						
DESCRIPTION	MAXIMUM CAPACITY					PART NO.
	FIBERS (USING LC)	FIBERS (USING 24F MTP)	ADAPTER PLATES	OR	MTP CASSETTES	
[A] Opt-X UHD Enclosure, empty, 1RU	144	1,728	12		12	5R1UD-S12
[B] Opt-X UHD Enclosure, empty, 2RU	288	3,456	24		24	5R2UD-S24
Opt-X UHD Enclosure, empty, 4RU	576	6,912	48		48	5R4UD-S48

ACCESSORIES	
DESCRIPTION	PART NO.
Universal Opt-X Clamp Kit, Single Cable Grommet (for enclosure mounting)	5RCMP-KIT
Universal Opt-X Clamp Kit, Multiple Cable Grommet (for enclosure mounting)	5RCMP-KT2
Universal Clamp Kit, Single and Multiple Cable Grommet (for rack mounting)	5RCMR-KIT
[C] Brush Guard, 1RU (bag of 2)	5RBSH-1UN
[D] Brush Guard, 2RU (bag of 2)	5RBSH-2UN
23" Rack-Mount Ears (bag of 2)	5REAR-023



HDX ADAPTER PLATES

- Connect to field-terminated backbone cabling or pre-terminated trunks
- Easy, one-hand installation and removal
- Offered in OM1/OM2, OM3/OM4, OM4+ and OS2 fiber types
- LC, SC, and MTP styles in 6, 12, or up to 72/144 fiber configurations are available
- Visible sequential numbering to identify ports (for Tx and Rx)

HDX Adapter Plates & Cassettes work with HDF3168 Patch Decks, Opt-X UHD, and Opt-X HD Enclosures.

HDX MTP CASSETTES

- 12- or 24-fiber MTP configurations
- Select from LC or MTP connectors for 10G, 40G, or 100G applications
- Configure up to 48 fibers for 24 channels (10G) and 6 channels (40G)
- Easy to migrate from 10G to 40/100G when used with Opt-X Unity trunks, harnesses, or patch cords
- Pre-terminated fiber eliminates the need for complicated field terminations and splices
- A variety of fiber types are available including single-mode, multimode, and laser-optimized multimode
- Easy, one-hand installation and removal



HDX ADAPTER PLATES	
DESCRIPTION	PART NO.
Adapter Plate, OM1 & OM2, Quad LC (Beige), 12 fibers, phosphor bronze sleeve	5FUHD-2IL
[A] Adapter Plate, OM3 & OM4, Quad LC (Aqua), 12 fibers, zirconia ceramic sleeve	5FUHD-2QL
Adapter Plate, OM4+, Quad LC (Violet), 12 fibers, zirconia ceramic sleeve	5FUHD-2PL
Adapter Plate, OS2, Quad LC (Blue), 12 fibers, zirconia ceramic sleeve	5FUHD-2LL
Adapter Plate, OM1 & OM2, Duplex SC (Beige), 6 fibers, phosphor bronze sleeve	5FUHD-6IC
Adapter Plate, OM3 & OM4, Duplex SC (Aqua), 6 fibers, zirconia ceramic sleeve	5FUHD-6QC
Adapter Plate, OS2, Duplex SC (Blue), 6 fibers, zirconia ceramic sleeve	5FUHD-6LC
Adapter Plate, 3 Duplex MTP Adapters (Black), key up/key up	5FUHD-6MB
[B] Adapter Plate, 3 Duplex MTP Adapters (Black), key up/key down	5FUHD-6MP
Adapter Plate, blank (Black)	5FUHD-BLK

Make-to-Order!		HDX CASSETTE OPTIONS			
FIBER TYPE	FIBER COUNT	CONNECTOR TYPE (FRONT)	MTP TYPE (REAR)	POLARITY	
<ul style="list-style-type: none"> • OM2 • OM3 	<ul style="list-style-type: none"> • 12 • 24 • 48 	<ul style="list-style-type: none"> • LC • LC (Violet) • 8-Fiber MTP (Female) 	<ul style="list-style-type: none"> • 12-fiber MTP (Male) • 24-fiber MTP (Male) 	<ul style="list-style-type: none"> • Method A • Method B, Core 	<ul style="list-style-type: none"> • Method B, Edge • Method C

For MTP Method B polarity, you must order one each of the Core and Edge cassettes.

For assistance customizing your cassettes, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

FIBER



Opt-X[®] HD Enclosure System

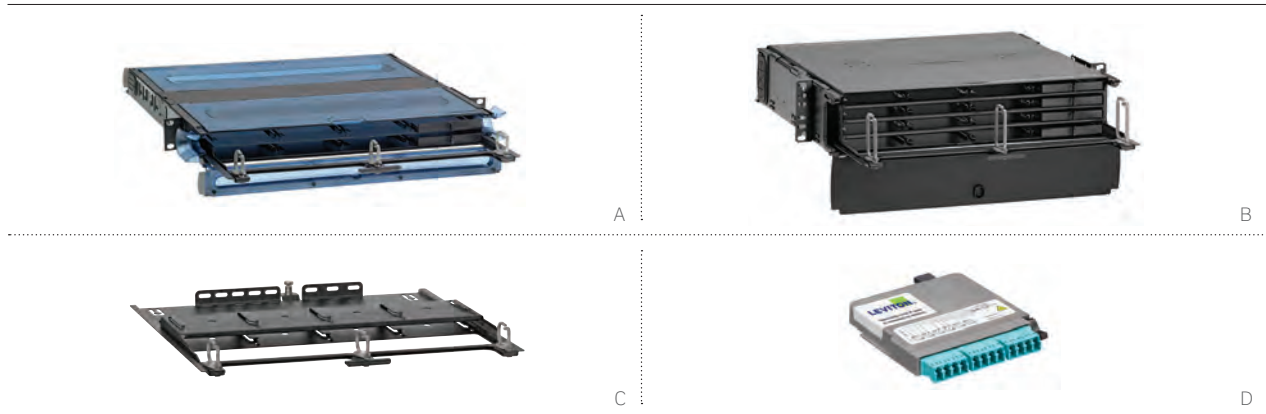
96 Fibers Per RU (using LC)

The Leviton Opt-X HD Enclosure System features compact, HDX cassettes and adapter plates with LC or MTP[®] connectors that fit into high-density enclosures to create a scalable platform for enterprise and data center applications.

This allows you to maintain low costs while benefiting from higher density: 33% more density with LC connectors or 50% with MTP compared to standard enclosures.

FEATURED PRODUCTS

Enclosures & Trays **B16**



OPT-X HD RACK-MOUNT ENCLOSURES

- Enclosures accept HDX Cassettes and Adapter Plates
- Opt-X Ultra® HD Enclosures offer a stylish design with transparent doors
- Opt-X 1000i HD Enclosures provide a simplified look, with 16-gauge steel, powder-coated black
- 1RU enclosures hold up to 96 fibers (using LC) and 2RU up to 192 fibers using HDX adapter plates or MTP cassettes
- Sliding tray removes completely from enclosure for field terminations
- Retrofit sliding trays available to upgrade standard 1RU/2RU Opt-X Ultra and 1000i enclosures to accept HDX cassettes and adapter plates



RECOMMENDED APPLICATIONS:

- Data Centers
- Equipment Room
- Entrance Facility
- Telecommunications Room
- 19" and 23" Racks and Cabinets

OPT-X CLAMP KITS

- Cable clamp kits minimize excessive pulling, bending, and crushing
- Support easy cable identification and decreases the need for tie-wraps inside the enclosure
- Create a transition point from jacketed cable to buffered fiber or subunits
- Ideal for vertical strain relief and strain relief at the top or bottom of a rack/cabinet

See page B14 for HDX Cassette & Adapter Plates.

OPT-X HD RACK-MOUNT ENCLOSURES

DESCRIPTION	MAXIMUM CAPACITY			PART NO.
	FIBERS (USING LC)	ADAPTER PLATES	OR MTP CASSETTES	
[A] Opt-X Ultra HD 1RU Enclosure, empty, with sliding tray	96	8	8	5R1UH-S08
Opt-X Ultra HD 2RU Enclosure, empty, with sliding tray	192	16	16	5R2UH-S16
Opt-X 1000i HD 1RU Enclosure, empty, with sliding tray	96	8	8	5R1UM-S08
[B] Opt-X 1000i HD 2RU Enclosure, empty, with sliding tray	192	16	16	5R2UM-S16
[C] Retrofit sliding tray, 1RU (for use with Opt-X Ultra or 1000i)	—	—	—	5R1UR-TRY
Retrofit sliding tray, 2RU (for use with Opt-X Ultra or 1000i)	—	—	—	5R2UR-TRY
[D] HDX Cassettes & Adapter Plates				See page B14

ACCESSORIES

DESCRIPTION	PART NO.
Universal Opt-X Clamp Kit, Single Cable Grommet (for enclosure mounting)	5RCMP-KIT
Universal Opt-X Clamp Kit, Multiple Cable Grommet (for enclosure mounting)	5RCMP-KT2
Universal Clamp Kit, Single and Multiple Cable Grommet (for rack mounting)	5RCMR-KIT



Opt-X® Enclosure System

72 Fibers Per RU (using LC)

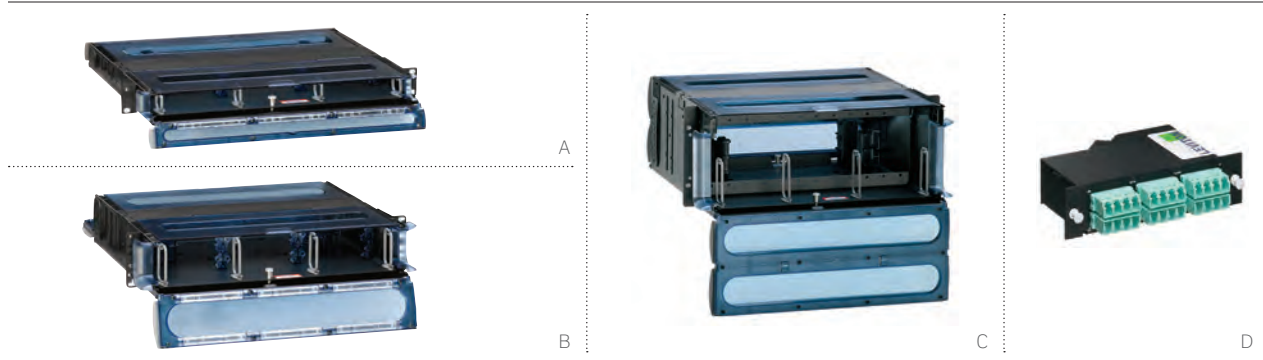
The Opt-X Enclosure System is a flexible solution designed for easy installation and maintenance. Whether it's the Opt-X Ultra for data centers or 1000i and 500i for medium and small enterprise applications, each comes packed with features for better cable organization and maintainability. In addition, precision-molded Opt-X adapter plates, MTP® cassettes, and cable assemblies offer the flexible connection and storage options to meet any project need.

FEATURED PRODUCTS

Enclosures **B18**

Adapter Plates **B23**

MTP Cassettes **B25**



OPT-X ULTRA 1RU/2RU/4RU RACK-MOUNT ENCLOSURES

- Accept Opt-X adapter plates, MTP® cassettes, splice trays, and splice modules
- Removable transparent hinged doors
- Sliding tray provides accessibility to front and rear of bulkhead after installation, and removes completely to facilitate field terminations and splicing
- 17" depth for high-density fiber termination and/or splicing
- Stackable and adjustable fiber rings simplify cable management
- Constructed of durable polycarbonate plastic and black powder-coated 16-gauge steel
- 19" or 23" rack mount options (23" 1RU mounting bracket sold separately)
- 1RU and 2RU accept the Retrofit Sliding Tray, sold separately, for higher density applications using HDX MTP Cassettes & Adapter Plates
- 1RU and 2RU enclosures are "intelligent ready", accept Intact Fiber Upgrade Kits



RECOMMENDED APPLICATIONS:

- Data Centers
- Equipment Room
- Entrance Facility
- Telecommunications Room
- 19" and 23" Racks and Cabinets

OPT-X ULTRA RACK-MOUNT ENCLOSURES

DESCRIPTION	MAXIMUM CAPACITY					PART NO.	
	FIBERS (USING LC)	ADAPTER PLATES	AND	SPLICE TRAYS/MODULES*	OR		MTP® CASSETTES
[A] Opt-X Ultra, 1RU, empty, sliding tray	72	3		3		3	5R1UH-S03
[B] Opt-X Ultra, 2RU, empty, sliding tray	144	6		6		6	5R2UH-S06
[C] Opt-X Ultra, 4RU, empty, sliding tray	288	12		12		12	5R4UH-S12
[D] Opt-X Adapter Plates and Cassettes							See page B23-B26

* = Maximum splice tray capacity is limited by height of selected splice tray. See page X13 for splice tray dimension and selection guide.

Make-to-Order! OPT-X ULTRA RACK-MOUNT ENCLOSURE OPTIONS

ENCLOSURE STYLE	ADAPTER PLATES OR MTP CASSETTE SELECTION	ADAPTER PLATE QTY	FIBER TYPE	ADAPTER TYPE & PIGTAIL SELECTION	SPLICE TRAY STYLE	NO. OF SPLICE TRAYS	SECURITY OPTIONS	CABLE CLAMP KIT	MOUNTING EAR POSITION
<ul style="list-style-type: none"> • 1U • 2U • 4U 	<ul style="list-style-type: none"> • 6 fibers (SC, ST) • 8 fibers (SC, ST) • 12 fibers (LC, SC, ST) • 16 fibers (LC only) • 24 fibers (LC only) • MTP Cassette - 12 fibers (LC, SC, ST) • MTP Cassette - 24 fibers (LC only) 	<ul style="list-style-type: none"> • 1-12 	<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4 • OM4+ • OS2 	<ul style="list-style-type: none"> • LC • LC + pigtail • SC • SC/APC • SC + pigtail • SC/APC + pigtail • ST • ST + pigtail • LC (Violet) 	<ul style="list-style-type: none"> • Heat shrink, foam holders, up to 12 fibers (molded tray) • Heat shrink, plastic holders, up to 12 fibers (molded tray) • Bare fusion, plastic holders, up to 12 fibers (metal tray) • Heat shrink, plastic holders, up to 24 fibers (molded tray) • None 	<ul style="list-style-type: none"> • 1-12 • None 	<ul style="list-style-type: none"> • Locking front door • Locking rear door • Both doors • None 	<ul style="list-style-type: none"> • Yes • No 	<ul style="list-style-type: none"> • 19" • 23"

LightSpace® (LGX® footprint) compatible versions also available by special order.

For assistance customizing your enclosures, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.



OPT-X 1000i 1RU/2RU/3RU/4RU ENCLOSURES

- Accept Opt-X adapter plates, MTP® cassettes, splice trays, and splice modules (page B23-B27)
- Sliding tray in 1RU and 2RU removes completely for easy field terminations and splicing
- 15" depth for high-density fiber termination and/or splicing
- 19" or 23" enclosure rack-mount option (23" 1RU mounting bracket sold separately)
- Enclosures protrude 4.5" from mounting ears to align with Versi-Duct® Cable Management System
- LightSpace® (LGX® footprint) compatible versions also available by custom order
- Included accessory kit consists of cable ties, mounting ear screws, and port ID label
- 1RU and 2RU accept the Retrofit Sliding Tray, sold separately, for higher density applications using HDX MTP Cassettes



RECOMMENDED APPLICATIONS:

- Equipment Room
- Telecommunications Room
- 19" and 23" Racks and Cabinets

OPT-X 1000i RACK-MOUNT ENCLOSURES

DESCRIPTION	MAXIMUM CAPACITY					PART NO.	
	FIBERS (USING LC)	ADAPTER PLATES	AND	SPLICE TRAYS/MODULES*	OR		MTP CASSETTES
Opt-X 1000i, 1RU, empty	72	3		3		3	5R1UM-F03
[A] Opt-X 1000i, 1RU, empty, sliding tray	72	3		3		3	5R1UM-S03
Opt-X 1000i, 2RU, empty	144	6		6		6	5R2UM-F06
Opt-X 1000i, 2RU, empty, sliding tray	144	6		6		6	5R2UM-S06
Opt-X 1000i, 3RU, empty, horizontal^	216	9		12		9	5R3UM-F09
[B] Opt-X 1000i, 3RU, empty, vertical°	288	12		12		12	5R3UM-F12
[C] Opt-X 1000i, 4RU, empty, vertical°	288	12		12		12	5R4UM-F12
Opt-X 1000i, 4RU, empty, horizontal^	360	15		12		15	5R4UM-F15

° = Vertical adapter plate/cassette orientation ^ = Horizontal adapter plate/cassette orientation

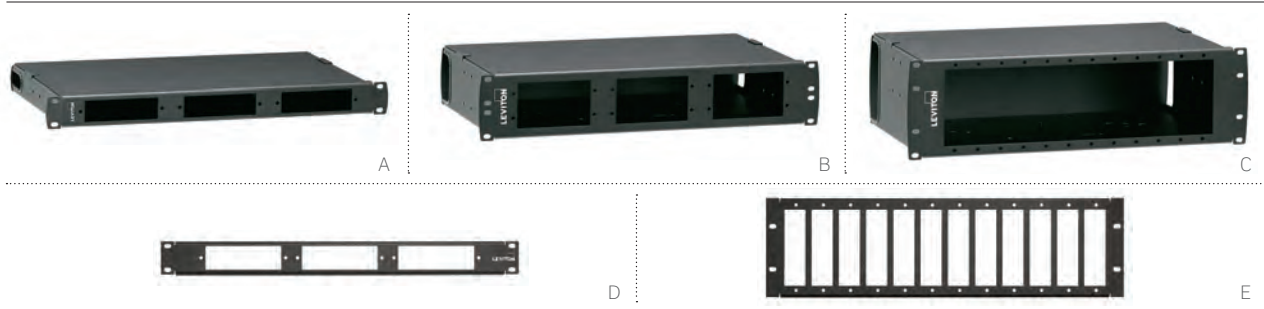
* = Maximum splice tray capacity is limited by height of selected splice tray. See page X13 for splice tray dimension and selection guide.

See pages B23-B26 for list of Opt-X adapter plates and cassettes. LightSpace® (LGX® footprint) compatible versions also available by special order.

Make-to-Order! OPT-X 1000i RACK-MOUNT ENCLOSURE OPTIONS

ENCLOSURE STYLE	ADAPTER PLATES OR MTP CASSETTE SELECTION	ADAPTER PLATE QTY	FIBER TYPE	ADAPTER TYPE & PIGTAIL SELECTION	SPLICE TRAY STYLE	NO. OF SPLICE TRAYS	SECURITY OPTIONS	CABLE CLAMP KIT	MOUNTING EAR POSITION
<ul style="list-style-type: none"> • 1RU • 2RU • 1RU or 2RU w/tray • 3RU or 4RU w/horizontal adapter plates • 3RU or 4RU w/ vertical adapter plates 	<ul style="list-style-type: none"> • 6 fibers (SC, ST) • 8 fibers (SC, ST) • 12 fibers (LC, SC, ST) • 16 fibers (LC only) • 24 fibers (LC only) • MTP Cassette - 12 fibers (LC, SC, ST) • MTP Cassette - 24 fibers (LC only) 	<ul style="list-style-type: none"> • 1-15 	<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4+ • OS2 	<ul style="list-style-type: none"> • LC • LC + pigtail • SC • SC/APC • SC/APC + pigtail • ST • ST + pigtail • LC (Violet) 	<ul style="list-style-type: none"> • Heat shrink, foam holders, up to 12 fibers (molded tray) • Heat shrink, plastic holders, up to 12 fibers (molded tray) • Bare fusion, plastic holders, up to 12 fibers (metal tray) • Heat shrink, plastic holders, up to 24 fibers (molded tray) • None 	<ul style="list-style-type: none"> • 1-12 • None 	<ul style="list-style-type: none"> • Locking front door • Locking rear door • Both doors • None 	<ul style="list-style-type: none"> • Yes • No 	<ul style="list-style-type: none"> • 19" • 23"

For assistance customizing your enclosures, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.



OPT-X 500i FLUSH-MOUNT RACK ENCLOSURES

- Accept Opt-X adapter plates, MTP® cassettes, splice trays, and splice modules (page B23-B27)
- Flush-mount adapter bulkhead makes moves, adds, and changes easy
- One-piece removable cover allows for complete accessibility to the back of the enclosure
- Accepts injection-molded splice trays and 4" x 7" metal splice trays
- Enclosure can store up to 3 meters of 900 µm tight-buffered fiber per adapter
- Included accessory kit consists of cable ties, mounting ear screws, and port ID label
- 1RU and 3RU flush-mount panels accept Opt-X adapter plates and cassettes, and mount to 19" racks and cabinets
- Optional add-on patch cord cable management tray (sold separately) uses existing rack unit

RECOMMENDED APPLICATIONS:

- Equipment Room
- Telecommunications Room
- 19" Racks and Cabinets

OPT-X 500i RACK-MOUNT ENCLOSURES

DESCRIPTION	MAXIMUM CAPACITY					PART NO.	
	FIBERS (USING LC)	ADAPTER PLATES	AND	SPLICE TRAYS/MODULES*	OR		MTP CASSETTES
[A] Opt-X 500i, 1RU Enclosure, empty	72	3		3		3	5R1UL-F03
[B] Opt-X 500i, 2RU Enclosure, empty	144	6		6		6	5R2UL-F06
[C] Opt-X 500i, 3RU Enclosure, empty	288	12		12		12	5R3UL-F12
[D] Opt-X 500i, 1RU Panel, empty	72	3		N/A		3	5R1UE-OPX
[E] Opt-X 500i, 3RU Panel, empty	288	12		N/A		12	5R3UE-OPX

* = Maximum splice tray capacity is limited by height of selected splice tray. See page X13 for splice tray dimension and selection guide. See pages B23-B26 for list of Opt-X adapter plates and cassettes.

SPOTLIGHT Patch Cord Management Tray



Patch Cord Management Trays help route and organize cables on Opt-X 500i enclosures. The trays feature identification labels and front saddles that pivot for easier routing. Because they mount directly to the front of the enclosures, they do not require additional rack space. Available in 1RU and 2RU sizes, the trays can be used with any Leviton 1RU flush-mount MTP enclosure and 2RU trays can be used with 3RU 500i enclosures. (See page B28)



A



B



C

OPT-X 1000 WALL-MOUNT FIBER OPTIC ENCLOSURES

- Self-healing grommet material protects cable and minimizes dust build-up
- Adjustable fiber management rings easily attach to mounting studs
- Ground terminal lug provides grounding option or cable strain relief
- Cutout on side of enclosure allows access to adapter bulkhead when doors are open
- Door options: split with single lock on service side (optional lock available to install on customer side), solid with or without single lock on customer side
- Constructed of 16-gauge steel, powder-coated black

RECOMMENDED APPLICATIONS:

- Telecommunications Room
- Equipment Room

OPT-X 1000 SMALL WALL-MOUNT ENCLOSURES

DESCRIPTION	MAXIMUM CAPACITY					PART NO.
	FIBERS (USING LC)	ADAPTER PLATES	AND	SPLICE TRAYS/MODULES*	OR	
Small, empty, solid metal door, no lock	48	2		N/A		5W110-00N
[A] Small, empty, split metal door and one lock/key	48	2		N/A		5W120-00N
Small, empty, solid metal door and one lock/key	48	2		N/A		5W170-00N

OPT-X 1000 MEDIUM WALL-MOUNT ENCLOSURES

Medium, empty, solid metal door, no lock	96	4		6		5W310-00N
[B] Medium, empty, split metal door and one lock/key	96	4		6		5W320-00N
Medium, empty, solid metal door and one lock/key	96	4		6		5W370-00N

OPT-X 1000 LARGE WALL-MOUNT ENCLOSURES

[C] Large, empty, solid metal door, no lock	288	12		6		5W710-00N
Large, empty, split metal door and one lock/key	288	12		6		5W720-00N
Large, empty, solid metal door and one lock/key	288	12		6		5W770-00N

ACCESSORIES

Lock and Key	5L000-LOK
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* = Maximum splice tray capacity is limited by height of selected splice tray. See page X13 for splice tray dimension and selection guide. See pages B23-B26 for list of Opt-X adapter plates and cassettes.



A



Fiber Plug-n-Play Patch Panel



VertiGO Rack-Mount Plug-n-Play Patch Panels

VERTIGO ZERO-U PATCH PANELS

- All styles sold empty, with either QuickPort® or Opt-X style openings
- Zero-U uses no rack space
- Improves cabinet center airflow by routing rear cable along outer edges
- Styles with 3" and 6" channels* provide additional cable management space
- Hinged doors provide easy access to termination field
- Magnified label holders make for easy reading
- Supports copper and fiber installations
- Pre-configured plug-n-play options available for fast network deployment, call 800.722.2082 for more information

*Not available as stand-alone pieces and must be purchased as a complete unit.

VERTIGO ZERO-U VIDEO



Watch the training video at [Leviton.com/ns/videos: "How to Mount Leviton's VertiGO Patch Panel."](http://Leviton.com/ns/videos: 'How to Mount Leviton's VertiGO Patch Panel.')

VERTIGO RACK-MOUNT PLUG-N-PLAY PATCH PANELS

- Adjustable mounting ears provide five unique offset distances for enhanced horizontal cable management
- Integrated cable manager
- Accepts all Opt-X adapter plates, allowing for a mix of copper, fiber, and multimedia connectivity
- Provides either MTP® Plug-n-Play or discrete point termination
- All VertiGO Rack-Mount Plug-n-Play Patch Panels sold as custom configurations; call 800.722.2082 for more information

VERTIGO ZERO-U PATCH PANELS

DESCRIPTION	PART NO.
Opt-X Adapter Plate Zero-U, panel only	49280-AP0
[A] Opt-X Adapter Plate Zero-U, panel with 3" cable channel	49280-AP3
Opt-X Adapter Plate Zero-U, panel with 6" cable channel	49280-AP6

For VertiGO panels with QuickPort openings, see page A19.

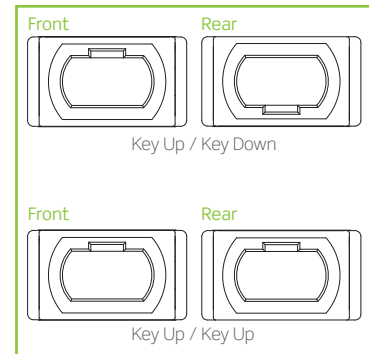
OPT-X® ENCLOSURE SYSTEM | Adapter Plates

FIBER Opt-X Enclosure System



OPT-X ADAPTER PLATES

- Work with Opt-X series enclosures, including the Opt-X Ultra®, Opt-X 1000i, Opt-X 500i, VertiGO and wall-mount Opt-X 1000
- Captive push/pull fasteners allow for quick, tool-free installation and removal
- Precision molded LC and SC adapter plate colors designate fiber type, per TIA standards
- Available in 6- to 24-fiber plates for LC, SC, and ST
- Available in 72- to 192-fiber plates for MTP®
- MTP and LC adapter plates with shutters available by custom order
- 6-position QuickPort® Adapter plates (item T) accept all QuickPort modules





OPT-X RACK-MOUNT ENCLOSURE CAPACITY

1RU FOR ULTRA 1000i & 500i	2RU FOR ULTRA 1000i & 500i	3RU FOR 1000i	3RU FOR 500i	4RU FOR ULTRA 1000i
Holds up to 3 adapter plates	Holds up to 6 adapter plates	Holds up to 9/12 adapter plates	Holds up to 12 adapter plates	Holds up to 12/15 adapter plates
6-pk Dplx LC = up to 36 fibers 6-pk Quad LC = up to 72 fibers 8-pk Dplx LC = up to 48 fibers 3-pk Dplx SC = up to 18 fibers 6-pk Dplx SC = up to 36 fibers 6-pk ST = up to 18 fibers 8-pk ST = up to 24 fibers	6-pk Dplx LC = up to 72 fibers 6-pk Quad LC = up to 144 fibers 8-pk Dplx LC = up to 96 fibers 3-pk Dplx SC = up to 36 fibers 6-pk Dplx SC = up to 72 fibers 6-pk ST = up to 36 fibers 8-pk ST = up to 48 fibers	6-pk Dplx LC = up to 108/144 fibers 6-pk Quad LC = up to 216/288 fibers 8-pk Dplx LC = up to 144/192 fibers 3-pk Dplx SC = up to 54/72 fibers 6-pk Dplx SC = up to 108/144 fibers 6-pk ST = up to 54/72 fibers 8-pk ST = up to 72/96 fibers	6-pk Dplx LC = up to 144 fibers 6-pk Quad LC = up to 288 fibers 8-pk Dplx LC = up to 192 fibers 3-pk Dplx SC = up to 72 fibers 6-pk Dplx SC = up to 144 fibers 6-pk ST = up to 72 fibers 8-pk ST = up to 96 fibers	6-pk Dplx LC = up to 144/180 fibers 6-pk Quad LC = up to 288/360 fibers 8-pk Dplx LC = up to 192/240 fibers 3-pk Dplx SC = up to 72/90 fibers 6-pk Dplx SC = up to 144/180 fibers 6-pk ST = up to 72/90 fibers 8-pk ST = up to 96/120 fibers

OPT-X WALL-MOUNT ENCLOSURE CAPACITY

SMALL	MEDIUM	LARGE
Holds up to 2 adapter plates	Holds up to 4 adapter plates	Holds up to 12 adapter plates
6-pk Dplx LC = up to 24 fibers 6-pk Quad LC = up to 48 fibers 8-pk Dplx LC = up to 32 fibers 3-pk Dplx SC = up to 12 fibers 6-pk Dplx SC = up to 24 fibers 6-pk ST = up to 12 fibers 8-pk ST = up to 16 fibers	6-pk Dplx LC = up to 48 fibers 6-pk Quad LC = up to 96 fibers 8-pk Dplx LC = up to 64 fibers 3-pk Dplx SC = up to 24 fibers 6-pk Dplx SC = up to 48 fibers 6-pk ST = up to 24 fibers 8-pk ST = up to 32 fibers	6-pk Dplx LC = up to 144 fibers 6-pk Quad LC = up to 288 fibers 8-pk Dplx LC = up to 192 fibers 3-pk Dplx SC = up to 72 fibers 6-pk Dplx SC = up to 144 fibers 6-pk ST = up to 72 fibers 8-pk ST = up to 96 fibers

OPT-X PRECISION-MOLDED FIBER ADAPTER PLATES

DESCRIPTION	PART NO.
[A] Adapter Plate (beige), 62.5 µm MM (OM1), Duplex LC, 12-fiber, zirconia ceramic sleeve	5F100-2IL
[B] Adapter Plate (black), 50 µm MM (OM2), Duplex LC, 12-fiber, zirconia ceramic sleeve	5F100-2EL
[C] Adapter Plate (aqua), 50 µm LOMM (OM 3 & 4), Duplex LC, 12-fiber, zirconia ceramic sleeve	5F100-2QL
[D] Adapter Plate (violet), 50 µm LOMM (OM4+), Duplex LC, 12-fiber, zirconia ceramic sleeve 	5F100-2PL
[E] Adapter Plate (blue), SM (OS2), Duplex LC, 12-fiber, zirconia ceramic sleeve	5F100-2LL
[F] Adapter Plate (green), SM (OS2), Duplex LC/APC, 12-fiber, zirconia ceramic sleeve	5F100-2VL
[G] Adapter Plate (beige), 62.5 µm MM (OM1), Quad LC, 24-fiber, zirconia ceramic sleeve	5F100-4IL
[H] Adapter Plate (black), 50 µm MM (OM2), Quad LC, 24-fiber, zirconia ceramic sleeve	5F100-4EL
[I] Adapter Plate (aqua), 50 µm LOMM (OM3 & 4), Quad LC, 24-fiber, zirconia ceramic sleeve	5F100-4QL
Adapter Plate (violet), 50 µm LOMM (OM4+), Quad LC, 24-fiber, zirconia ceramic sleeve 	5F100-4PL
[J] Adapter Plate (blue), SM (OS2), Quad LC, 24-fiber, zirconia ceramic sleeve	5F100-4LL
Plates (beige), 62.5 µm MM (OM1), Duplex SC, 6-fiber, zirconia ceramic sleeve	5F100-6IC
Plates (black), 50 µm MM (OM2), Duplex SC, 6-fiber, zirconia ceramic sleeve	5F100-6EC
Plates (aqua), 50 µm MM (OM3 & OM4), Duplex SC, 6-fiber, zirconia ceramic sleeve	5F100-6QC
Plates (blue), SM (OS2), Duplex SC, 6-fiber, zirconia ceramic sleeve	5F100-6LC
Plates (green), SM (OS2), Duplex SC/APC, 6-fiber, zirconia ceramic sleeve	5F100-6VC
[K] Adapter Plate (beige), 62.5 µm MM (OM1), Duplex SC, 12-fiber, zirconia ceramic sleeve	5F100-2IC
[L] Adapter Plate (black), 50 µm MM (OM2), Duplex SC, 12-fiber, zirconia ceramic sleeve	5F100-2EC
[M] Adapter Plate (aqua), 50 µm LOMM (OM3 & OM4), Duplex SC, 12-fiber, zirconia ceramic sleeve	5F100-2QC
[N] Adapter Plate (blue), SM (OS2), Duplex SC, 12-fiber, zirconia ceramic sleeve	5F100-2LC
[O] Adapter Plate (green), SM (OS2), Duplex SC/APC, 12-fiber, zirconia ceramic sleeve	5F100-2VC
[P] Adapter Plate (black), ST MM/SM, 6-fiber, zirconia ceramic sleeve	5F100-6MT
[Q] Adapter Plate (black), ST MM/SM, 8-fiber, zirconia ceramic sleeve	5F100-8MT
[R] Adapter Plate (black), Blank	5F100-PLT
OPT-X FIBER ADAPTER PLATES, METAL	
Adapter Plate (black), OM1 & 2, Duplex LC (beige), 16-fiber, phosphor bronze sleeve	5F100-16P
Adapter Plate (black), OM3 & 4, Duplex LC (aqua), 16-fiber, zirconia ceramic sleeve	5F100-16A
Adapter Plate (black), OS2, Duplex LC (blue), 16-fiber, zirconia ceramic sleeve	5F100-16Z
[S] Adapter Plate (black), 6 simplex MTP, key up/key down	5F100-6MP
Adapter Plate (black), 6 simplex MTP, key up/key up	5F100-6MB
Adapter Plate (black), 8 simplex MTP, key up/key down	5F100-8MP
Adapter Plate (black), 8 simplex MTP, key up/key up	5F100-8MB
[T] Adapter Plate (black), 6-position QuickPort®, Empty	5F100-6QP

Additional adapter plate configurations available. Please contact Tech Support at 800.824.3005 for more information.

SPOTLIGHT Opt-X Precision-Molded Adapter Plates



Traditional adapter plate construction typically uses independent couplers inserted in a metal plate that often results in a “rattling” of components. Leviton Opt-X Adapter Plates eliminate rattling and loose-fitting adapters by using precision molding and integrated adapters, improving the overall performance, functionality, and quality of construction. All multimode and single-mode Opt-X plates feature zirconia ceramic sleeves, providing high performance and low insertion loss (recommended for applications requiring 10 Gbps and higher).

OPT-X® ENCLOSURE SYSTEM | MTP® Cassettes > Premium



A



B



MTP-LC Casette w/ Shutters



MTP-LC, 24-fiber, OM4 (OM4+ violet color option)

OPT-X MTP PREMIUM CASSETTES

- Plug-n-play cassettes eliminate the need for field termination or splices
- Bend-insensitive fiber used in OM3/OM4/OM4+ cassette
- All premium 12-fiber MTP cassettes use low-loss MTP connectors
- Low insertion loss of 0.5 dB maximum
- 100% factory tested with test results included with each cassette



OPT-X CASSETTES, COMMON CONFIGURATIONS

DESCRIPTION	PART NO.
MTP Cassette, 12-fiber MTP-LC	FM-*012CAC0+
[A] MTP Cassette, 12-fiber MTP-SC	FM-*012BAC0+
[B] MTP Cassette, 24-fiber 2x12F MTP-LC	FM-*024CAC0+

* = fiber type: A = OS2, E = OM3, F = OM4, G = OM4+

+ = Polarity: A=Method A, C=Method C, BC = Method B (core), BE = Method B (edge). For Method B, each channel must have 1 core and 1 edge cassette.

Make-to-Order! **MTP PREMIUM CASSETTE OPTIONS**

FIBER TYPE	FIBER COUNT	CONNECTOR TYPE	MTP FIBER COUNT	POLARITY
<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4 (aqua) • OM4+ (violet) • OS2 	<ul style="list-style-type: none"> • 12 • 24 	<ul style="list-style-type: none"> • LC • LC (violet) • LC (w/shutters) • LC/APC • LC/APC (w/shutters) • SC • SC/APC • MUJ • ST 	<ul style="list-style-type: none"> • 12 	<ul style="list-style-type: none"> • MTP Method A • MTP Method B, Core, Black Latches • MTP Method B, Edge, White Latches • MTP Method C

For assistance customizing your cassettes, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

For MTP Method B polarity, you must order one each of the Core and Edge cassettes.

OPT-X GPON SPLITTER MODULE

- Permits low optical loss for passive optical network layouts
- Cassette includes SC/APC connector on fiber lead
- Fits Opt-X wall- and rack-mount enclosures

OPT-X GPON SPLITTER CASSETTES

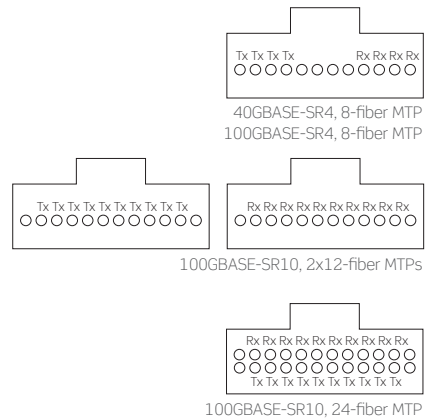
DESCRIPTION	PART NO.
Opt-X Splitter, 1 x 16, SC/APC, 3-foot leg	PLC16-003
Opt-X Splitter, 2 x 16, SC/APC, 3-foot leg	PLC26-003
Opt-X Splitter, 1 x 32, SC/APC, 3-foot leg	PLC12-003
Opt-X Splitter, 2 x 32, SC/APC, 3-foot leg	PLC22-003





OPT-X UNITY 40/100G MTP CASSETTES

- Allows easy migration from 10G to 40G or 100G
- Cassettes support up to 48 fibers using MTP-MTP, or 24 fibers using MTP-LC
- All cassettes use either 24-fiber or 12-fiber low-loss MTP connectors
- Bend-insensitive fiber used in OM3/OM4/OM4+ cassettes
- MTP-MTP cassettes are used with MTP array cords on page B56
- See specific enclosure pages for MTP cassette capacity
- Latches are color coded: black = Core, white = Edge
- Unity cassettes are Make-to-Order only



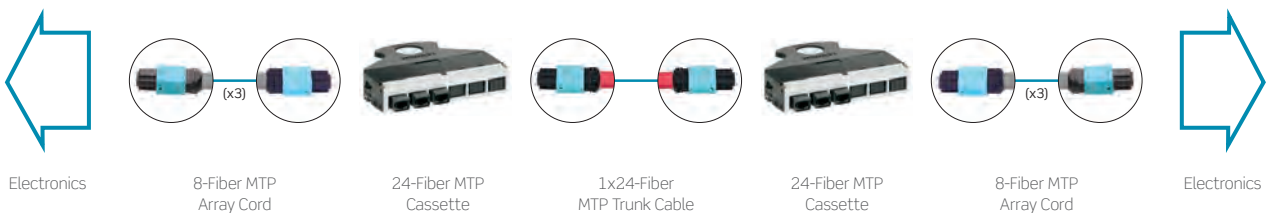
OPT-X UNITY 40/100G MTP CASSETTES, COMMON CONFIGURATIONS

DESCRIPTION	PART NO.
[A] MTP Cassette, 24-fiber, 2x12F MTP-3x8F MTP, Method B	FM -*024NCC0B†
[B] MTP Cassette, 48-fiber, 2x24F MTP-6x8F MTP, Method B	FM -*048NDC0B†
MTP Cassette, 24-fiber, 24F MTP-LC, Method B	FM -*024CDC0B†
MTP Cassette, 24-fiber, 24F MTP-3x8F MTP, Method B	FM -*024NDC0B†

* = fiber type: OM3 (E), OM4 (F), OM4+ (G) † = polarity: Core (C), or Edge (E) **Each channel must have one Core and Edge cassette.** Other MTP polarity options available.

For assistance customizing your cassettes, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

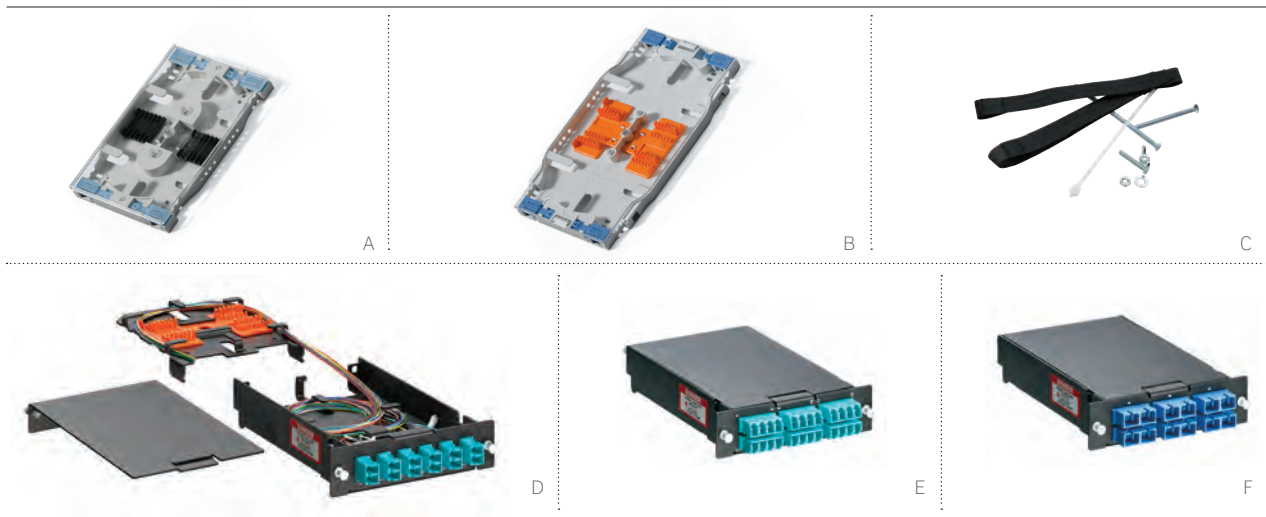
SPOTLIGHT 10/40/100G Fiber Testing



Leviton is the first manufacturer to have an independent fiber channel verification completed. Our OM3 fiber connectivity has been tested and shown to exceed performance requirements to support 10GBASE-S, and the Opt-X Unity System has been shown to exceed the performance requirements for 40GBASE-SR4 and 100GBASE-SR10 standards. Both tests were performed by Intertek (ETL) to ensure compliance to the maximum insertion loss and link distance requirements specified in the ANSI/TIA-568-C.3 and IEEE 802.3ba standards. The channels were configured to show typical data center applications as well as maximum flexibility. This type of testing assures customers that our fiber solutions will support their needs as they migrate to 10G, 40G, or 100G.



OPT-X® ENCLOSURE SYSTEM | Splice Trays & Splice Modules



PRECISION-MOLDED SPLICE TRAYS

- 12-fiber mini and 24-fiber high-density splice trays
- Protect and manage heat-shrink style spliced fibers
- Heat-shrink splice sleeves included
- Ratchet-action clamps with foam-rubber padding minimize damage to fibers
- Compatible with Leviton Opt-X Ultra®, Opt-X 1000i, and Opt-X 1000 series, plus LightSpace® wall-mount enclosures
- 24-fiber splice tray (T5PLS-24F) compatible with HDF3168 splice deck
- 12-fiber splice tray compatible with Leviton network interface devices (NIDs); when stacking splice trays, only use lids on top tray

OPT-X 12- & 24-FIBER SPLICE MODULES

- Integrates fiber adapter bulkhead (12 or 24 fibers) and splice holders, eliminating the need of splice trays
- Individual compartments provide slack storage and bend radius guides for respective backbone cable, 900 µm tight buffer pigtails, and fusion-spliced fibers
- Modular design allows for ease of maintenance of individual spliced fiber and allows for scaling up without impacting existing fibers

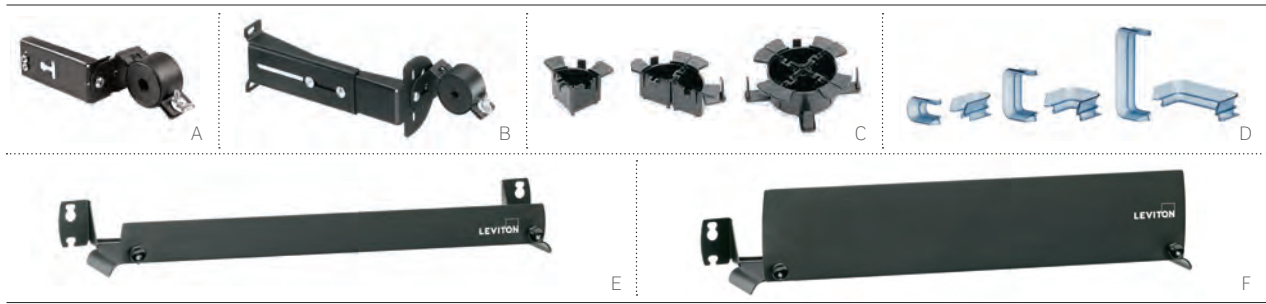
PRECISION-MOLDED SPLICE TRAYS		
DESCRIPTION		PART NO.
[A]	12-fiber Mini, 3.74" W x 5.59" L x 0.56" H (includes 14 heat-shrink splice sleeves)	T5PLS-12F
[B]	24-fiber High-Density, 4.5" W x 7.63" L x 0.50" H (includes 26 heat-shrink splice sleeves)	T5PLS-24F
[C]	Splice Tray Mounting Hardware Kit	SPLMT-HKT
OPT-X 12- & 24-FIBER SPLICE MODULES*		
[D]	Opt-X 12-Fiber LC Splice Module	SPLCS-12x
[E]	Opt-X 24-Fiber LC Splice Module	SPLCS-24x
[F]	Opt-X 12-Fiber SC Splice Module	SPSCS-12x

* = Additional fiber types and connector combinations are available. For assistance ordering, call 800.824.3005.

x = OM3 (A), OS2 (L), APC OS2 (V)

Note: Splice tray mounting hardware sold separately except as noted. Additional configurations available including mechanical splice. Contact inside sales at 800.824.3005 for more information.

For assistance ordering your splice trays, visit Leviton.com/configurator or call Tech Support at 800.824.3005.



OPT-X SYSTEM ACCESSORIES

- Cable clamp kits minimize excessive pulling, bending, and crushing
- Supports easy cable identification and decreases the need for tie-wraps inside the enclosure
- Fiber Cable Management Rings secure fiber slack
- Patch Cord Management Trays help route and organize cables, mount directly to the front of the enclosures, and do not require additional rack space

ACCESSORIES			AVAILABLE FOR				
DESCRIPTION	PART NO.	OPT-X UHD	OPT-X ULTRA® & HD	OPT-X 1000i & HD	OPT-X 500i	OPT-X 1000 WALL-MOUNT	
[A] Universal Opt-X Clamp Kit, Single Cable Grommet (for enclosure mounting)	5RCMP-KIT	X	X	X	X		
Universal Opt-X Clamp Kit, Multiple Cable Grommet (for enclosure mounting)	5RCMP-KT2	X	X	X	X		
[B] Universal Clamp Kit, Single and Multiple Cable Grommet (for rack mounting)	5RCMR-KIT	X	X	X	X		
1RU 23" Rack and Cabinet Mounting Bracket [^]	5R1RU-023		X	X			
23" Rack & Cabinet Mounting Bracket	5REAR-023	X					
Replacement Door [^]	5D000-*UN		X				
Replacement Door with Lock [^]	5D000-*UL		X				
Replacement Covers [^]	5C000-RPL		X				
Covers, metal [^]	5CMTL-RPL		X				
[C] Fiber Cable Management ¼" Ring Kit (bag of four ¼" rings)	5R100-14R		X	X	X		
[D] Opt-X Ultra Patch Cord Bend Radius Bracket (bag of two) [^]	5PCBR-*BT		X				
Lock and Key for Rack-Mount Enclosure	5L000-KAL			X			
Lock and Key for Wall-Mount Enclosure	5L000-LOK					X	
[E] Patch Cord Management Tray, 1RU (for use with 1RU enclosure), 4" depth	5R1UL-CMT				X		
[F] Patch Cord Management Tray, 2RU (for use with 2 & 3RU enclosure), 4" depth	5R2UL-CMT				X		
Grounding Kit	DPGRD-KIT	X	X	X	X		


[^] = Minimum order quantity and lead times may apply.

* = Rack Units: 1RU (1), 2RU (2), 4RU (4)


SPOTLIGHT

Cable Clamp Kits

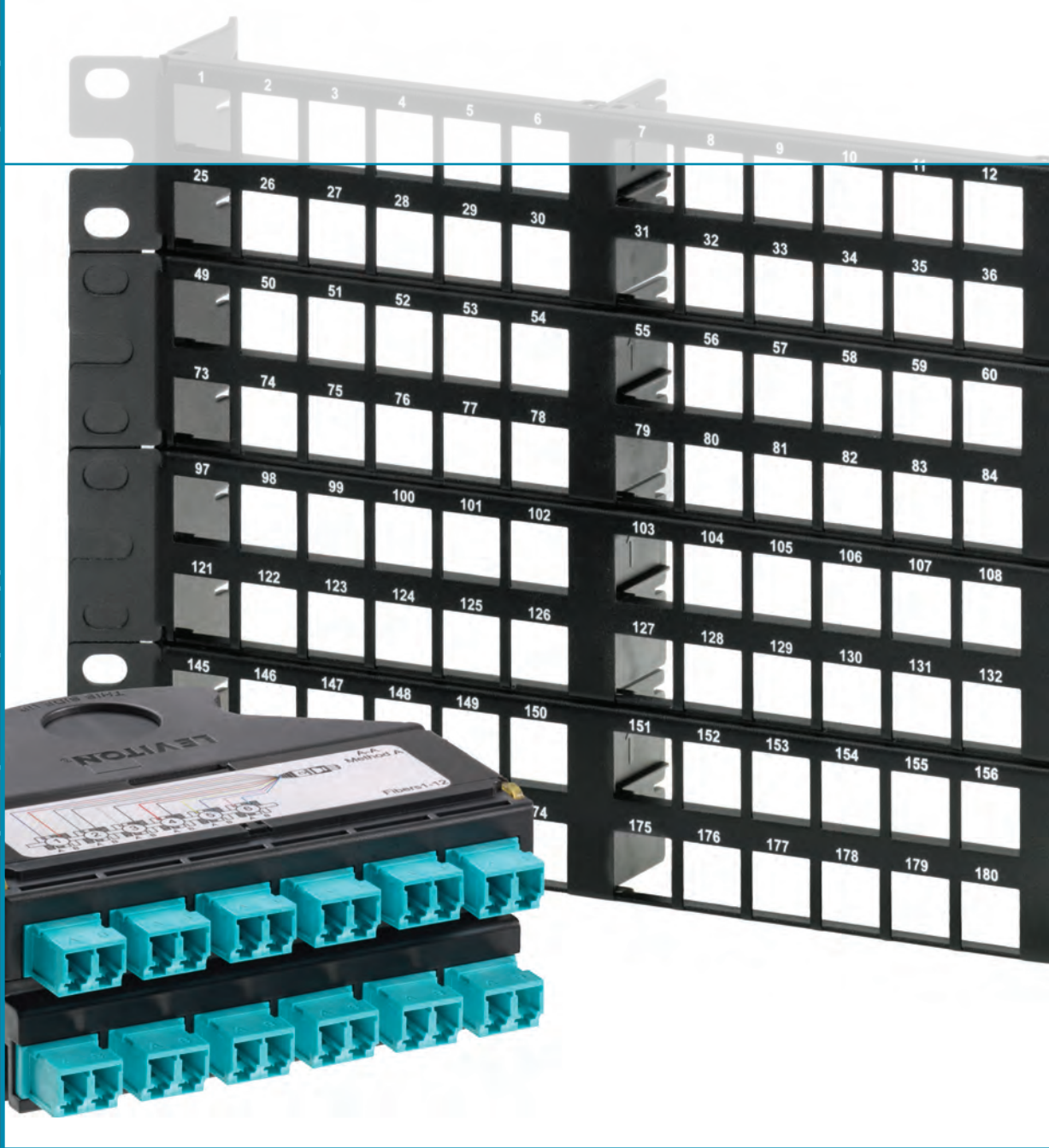
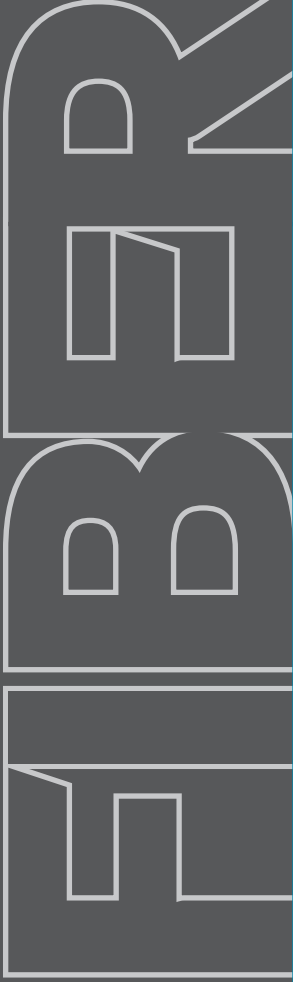
Cable clamp kits minimize excessive pulling, bending, and crushing forces on cable. The Opt-X Enclosure-Mount Universal Clamp Kit makes it easy to identify cables, and decreases the need for tie-wraps inside the enclosure. The kit also creates a transition point from jacketed cable to buffered fiber or subunits. The Opt-X Rack-Mount Universal Clamp Kit is ideal for vertical strain relief and strain relief at the top or bottom of a rack/cabinet. Use it for installations with minimal vertical cable pathways and little space for an enclosure-mount cable clamp kit.



Rack-Mount Universal Clamp Kit Installed



Enclosure-Mount Universal Clamp Kit Installed



e2XHD Snap-In Cassette Patching System

The e2XHD Copper and Fiber Patching System is an easy-to-connect, high-density solution for enterprise and data center applications, where fast deployment and simple maintenance are critical. The system includes 1RU and 4RU high-density panels, copper and fiber snap-in cassettes, and accessories for additional cable protection and management. The e2XHD cassettes quickly snap in and pull out of the panels, making installation, moves, adds, and changes easier than ever. For copper cassettes, see page A18.

FEATURED PRODUCTS

Panels **B31**

Cassettes **B32**

e2XHD HIGH-DENSITY PATCH PANELS

High-density panels allow patching for up to 48 duplex fiber channels in a 1RU panel or 192 channels in a 4RU panel.



e2XHD 12-Fiber QuickPort® LC Cassette, OM3/OM4 - Aqua



e2XHD MTP-MTP Pass-Through Cassette



e2XHD MTP-MTP Fiber Cassette, Core

e2XHD FIBER CASSETTES

Fiber MTP® Cassettes provide a simple migration path to 40G or 100G networks. The cassettes are pre-terminated and available in 12 or 24 fibers, OM3, OM4, OM4+, or single mode.

The e2XHD Fiber Cassette features an MTP adapter that swivels to three positions for easier cable routing. Used in conjunction with the patching system's rear cable manager and cable management rings, the adapter delivers an ideal solution for eliminating cable tension and ensuring proper bend radius.

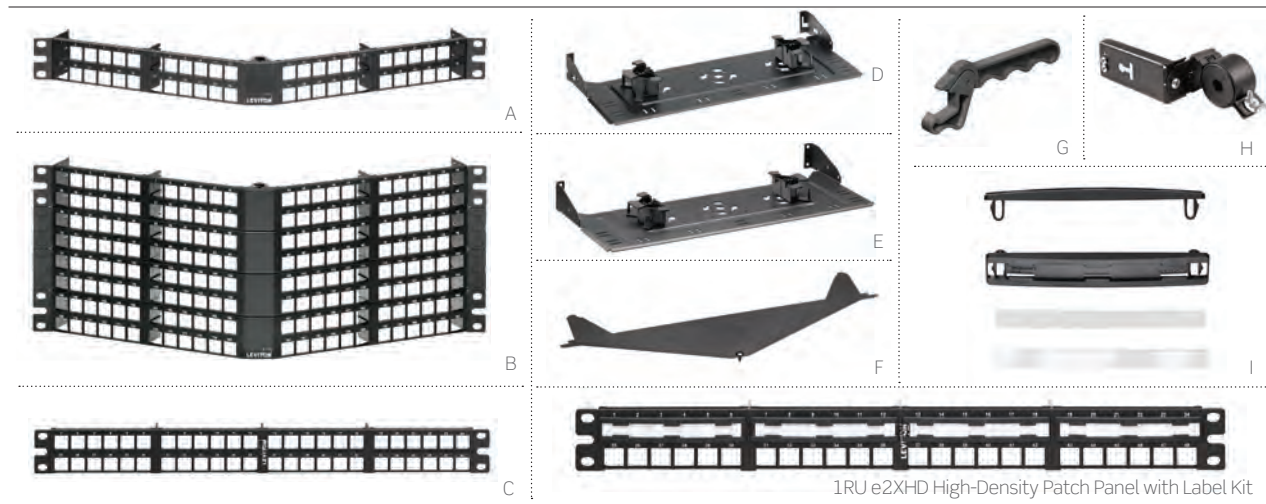


e2XHD SNAP-IN CASSETTE PATCHING SYSTEM VIDEO



Watch the training video at Leviton.com/ns/videos: "e2XHD Patching System for Data Center Networks."

e2XHD SNAP-IN CASSETTE PATCHING SYSTEM | Panels, Cable Managers, Covers & Tools



HIGH-DENSITY PANELS

- Allows for fiber and copper in the same panel
- 1RU panels hold up to 8 single-height fiber cassettes (48 fiber channels)
- 4RU panels hold up to 32 single-height fiber cassettes (192 fiber channels)
- Alignment tabs on panels ensure upright insertion of cassettes
- Mount on standard 19" racks or cabinets

ANGLED PANEL COVER

- Uses no additional rack space
- Minimizes dust and debris behind panels
- Attaches directly to e2XHD Angled Panel
- Can be retrofitted after panel is installed
- Can be used for top and bottom of panels

REAR CABLE MANAGERS

- Support both fiber and copper cables
- Cable management rings included to help manage and route incoming fiber cables
- Built-in VELCRO® Brand tie downs secure cables
- Optional Clamp Kits available to provide cable strain relief for incoming cables
- Flat Panel Manager mounts to rack or cabinet; screws included
- Angled Panel Manager attaches directly to panels; screws included

e2XHD PANELS, CABLE MANAGERS, COVERS & TOOLS		
DESCRIPTION		PART NO.
[A]	e2XHD 1RU High-Density Angled Panel	E2X1A-D48
[B]	e2XHD 4RU High-Density Angled Panel	E2X4A-192
[C]	e2XHD 1RU High-Density Flat Panel	E2X1F-D48
	e2XHD 4RU High-Density Flat Panel	E2X4F-192
[D]	e2XHD Rear Cable Manager for Angled Panel, with cable management rings	E2XHD-CMB
[E]	e2XHD Rear Cable Manager for Flat Panel, with cable management rings	E2X1F-CMB
[F]	e2XHD Angled Panel Cover	E2XHD-COV
[G]	QuickPort® Connector Removal Tool	E2XHD-JRT
[H]	Universal Opt-X® Clamp Kit, Single Cable Grommet (mounts to Rear Cable Manager)	5RCMP-KIT
	Universal Opt-X Clamp Kit, Multiple Cable Grommet (mounts to Rear Cable Manager)	5RCMP-KT2
	Universal Clamp Kit, Single and Multiple Cable Grommet (for rack mounting)	5RCMR-KIT
[I]	Label Kit for e2XHD Panels (Qty 4)	E2XHD-LBL

e2XHD SNAP-IN CASSETTE PATCHING SYSTEM | Cassettes



FIBER CASSETTES

- Used exclusively with e2XHD panels
- Available in MTP-MTP or MTP-LC
- Available in 12- or 24-fiber, OM3, OM4, OM4+, OS2
- Allow for a simple migration path to 40GbE and 100GbE networks with MTP cassettes
- MTP adapter swivel allows for easy cable routing and proper bend radius
- QuickPort® MTP-LC Cassette uses QuickPort modular fiber adapters, can be removed with QuickPort Connector Removal Tool
- All cassettes use either 24-fiber or 12-fiber low-loss MTP connectors
- Blank cassettes reserve capacity for future cassettes, easily snap into rear of panel to block unused cassette openings
- Conversion cassettes available on page B46 (40G to 10G, 100G to 10G, etc.)

For assistance customizing your cassettes, please visit leviton.com/configurator or call Tech Support at 800.824.3005.



e2XHD PATCHING SYSTEM CASSETTES

DESCRIPTION	PART NO.
[A] e2XHD 24-fiber MTP-LC Fiber Cassette, Core	(see options below)
[B] e2XHD 12-fiber MTP-LC Fiber Cassette, Core (OM4+ violet shown)	(see options below)
[C] e2XHD 24-fiber MTP-MTP Fiber Cassette, Core (1x24 Fiber MTP)	(see options below)
[D] e2XHD 24-fiber MTP-MTP Fiber Cassette, Edge (1x24 Fiber MTP)	(see options below)
[E] e2XHD 24-fiber MTP-LC Fiber Cassette, Edge (2x12 Fiber MTP)	(see options below)
[F] e2XHD 24-fiber MTP-MTP Fiber Cassette, Edge (1x24 Fiber MTP)	(see options below)
[G] e2XHD 12-fiber QuickPort LC Cassette, OM3/OM4 - aqua	E2XLC-AQU
e2XHD 12-fiber QuickPort LC Cassette, OS2 - blue	E2XLC-BLU
[H] e2XHD MTP-MTP Pass-Through Cassette, four key-up/key-down adapters	E2XHD-4MP
e2XHD MTP-MTP Pass-Through Cassette, four key-up/key-up adapters	E2XHD-4MB
[I] e2XHD Cassette Blank	E2XHD-BLK

Make-to-Order! e2XHD MTP FIBER CASSETTE OPTIONS

FIBER TYPE	FIBER COUNT	CONNECTOR TYPE	MTP FIBER COUNT	POLARITY
• OM3	• 8	• LC	• 12F MTP	• Method A
• OM4 (aqua)	• 12	• 8F MTP (female)	• 24F MTP	• Method B, Core, black
• OM4+ (violet)	• 24			• Method B, Edge, white
• OS2				• Method C



FEATURED PRODUCTS

Enclosures **B34**

Adapter Plates **B37**

Splice Trays & Holders **B39**

Splice Sleeves & Enclosure Accessories **B40**

LightSpace® Enclosure System

Leviton offers a wide range of enclosures designed to protect, manage, and organize fiber splices across various indoor and outdoor environments. Specifically designed to meet the requirements of service providers large and small, LightSpace enclosures are ideal for central-office, outside-plant, and fiber-to-the-premises applications.



KEY FEATURES

- Large cable management rings for enhanced jumper routing
- Front cable management saddles
- Side entry for backbone cable
- Constructed of high-strength aluminum, powder-coated central-office white
- Mounts on standard 19" and 23" racks and cabinets
- Accepts LightSpace adapter plates (see pages B37-B38)



RECOMMENDED APPLICATIONS:

Central Office or Head End, CLEC
19" and 23" Racks and Cabinets

DP SERIES OPTICAL DISTRIBUTION ENCLOSURES

- Removable front door
- Rear door with key lock option
- Upper and lower patch cord bend radius brackets

For assistance customizing your enclosures, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

DPS & DPC SERIES OPTICAL SPLICE ENCLOSURES

- Front accessibility to splice trays
- Removable front door with key lock option
- Rear door with key lock option
- Connector identification label

LIGHTSPACE DP OPTICAL DISTRIBUTION ENCLOSURES, STANDARD PART NUMBERS

DESCRIPTION	MAXIMUM CAPACITY			PART NO.
	FIBERS (USING LC)	ADAPTER PLATES	AND SPLICE TRAYS*	
DP-525, 3RU, empty^	144	6	N/A	DP03U-STD
[A] DP-700, 4RU, empty^	288	12	N/A	DP04U-STD
DP-105, 6RU, empty°	288	12	N/A	DP06U-STD

LIGHTSPACE DPS OPTICAL SPLICE ENCLOSURES, STANDARD PART NUMBERS

DPS-525, 3RU, empty	N/A	N/A	4	DPS3U-STD
[B] DPS-700, 4RU, empty	N/A	N/A	6	DPS4U-STD
DPS-105, 6RU, empty	N/A	N/A	12	DPS6U-STD

LIGHTSPACE DPC OPTICAL DISTRIBUTION & SPLICE ENCLOSURES, STANDARD PART NUMBERS

DPC-525, 6RU, empty^	144	6	4	DPC6U-033
[C] DPC-700, 8RU, empty^	288	12	6	DPC8U-STD
DPC-105, 12RU, empty°	288	12	12	DPC12-066

* = Maximum splice tray capacity is limited by height of selected splice tray. See page X1.3 for splice tray dimension and selection guide.
 ^ = Accepts LightSpace (LGX® footprint) 6- or 8-pack adapter plates.
 ° = Accepts LightSpace 12-pack adapter plates.



LIGHTSPACE CPC SERIES CUSTOMER PREMISE ENCLOSURES

- Wide-swing radius doors provide full access during installation and maintenance
- Double doors with slam latches provide separation between service provider and customer
- Top or bottom cable entry
- Stackable, allowing for additional capacity
- Constructed of 16-gauge steel, powder-coated central-office white
- Accepts all Leviton splice trays
- Accepts LightSpace adapter plates (see pages B37-B38)

RECOMMENDED APPLICATIONS:

Central Office or
Head End, CLEC
Wall Mount



LIGHTSPACE CPS SERIES CUSTOMER PREMISE SPLICE ENCLOSURES

- Single-fixed left-hinged door with wide-swing radius design for easy access
- Top or bottom cable entry
- Stackable, allowing for additional capacity
- Padlock provision
- Constructed of 16-gauge steel, powder-coated central-office white
- Accepts all Leviton splice trays

RECOMMENDED APPLICATIONS:

Central Office or
Head End, CLEC
Enterprise

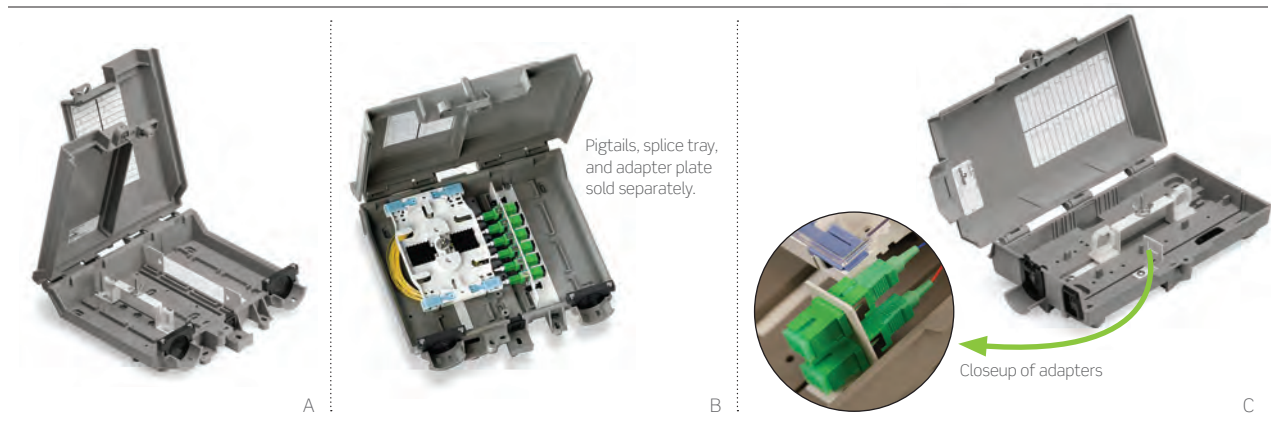
CPC CUSTOMER PREMISE ENCLOSURES, STANDARD PART NUMBERS

DESCRIPTION	MAXIMUM CAPACITY			PART NO.
	FIBERS (USING LC)	ADAPTER PLATES	AND SPLICE TRAYS*	
[A] CPC-12, empty	48	2	4	CPC12-STD
[B] CPC-24, empty	96	4	4	CPC24-STD
CPC-48, empty	192	8	6	CPC48-STD

CPS CUSTOMER PREMISE SPLICE ENCLOSURES, STANDARD PART NUMBERS

CPS-12, empty	N/A	N/A	4	CPS12-STD
CPS-24, empty	N/A	N/A	4	CPS24-STD
[C] CPS-48, empty	N/A	N/A	6	CPS48-STD

* = Maximum splice tray capacity is limited by height of selected splice tray. See page X13 for splice tray dimension and selection guide.



LIGHTSPACE NETWORK INTERFACE DEVICES (NIDS)

- 3500 and 502H models have upper-hinge doors
- 530 model has a left-hinge door
- 502H and 3500 models have padlock provision for added security
- All enclosures are custom configurable
- Unique hinging mechanism holds the door open for easy installation and servicing
- Accepts LightSpace adapter plates (see pages B37-B38)
- Splice tray option available



RECOMMENDED APPLICATIONS:

- Demarcation Point
- Telecommunications Room
- Equipment Room
- Wall Mount

NETWORK INTERFACE DEVICES (NID), STANDARD PART NUMBERS

DESCRIPTION	MAXIMUM CAPACITY					PART NO.
	FIBERS (USING LC)	ADAPTER PLATES	AND	SPLICE TRAYS*	OR MTP® CASSETTES	
[A] NID 3500, double doors, upper hinge, empty	12	1		1	N/A	N3500-STD
[B] NID 502H, single door, upper hinge, empty	12	1		1	N/A	N502H-STD
[C] NID 530, single door, left hinge, empty	8	0**		1	N/A	N5300-STD

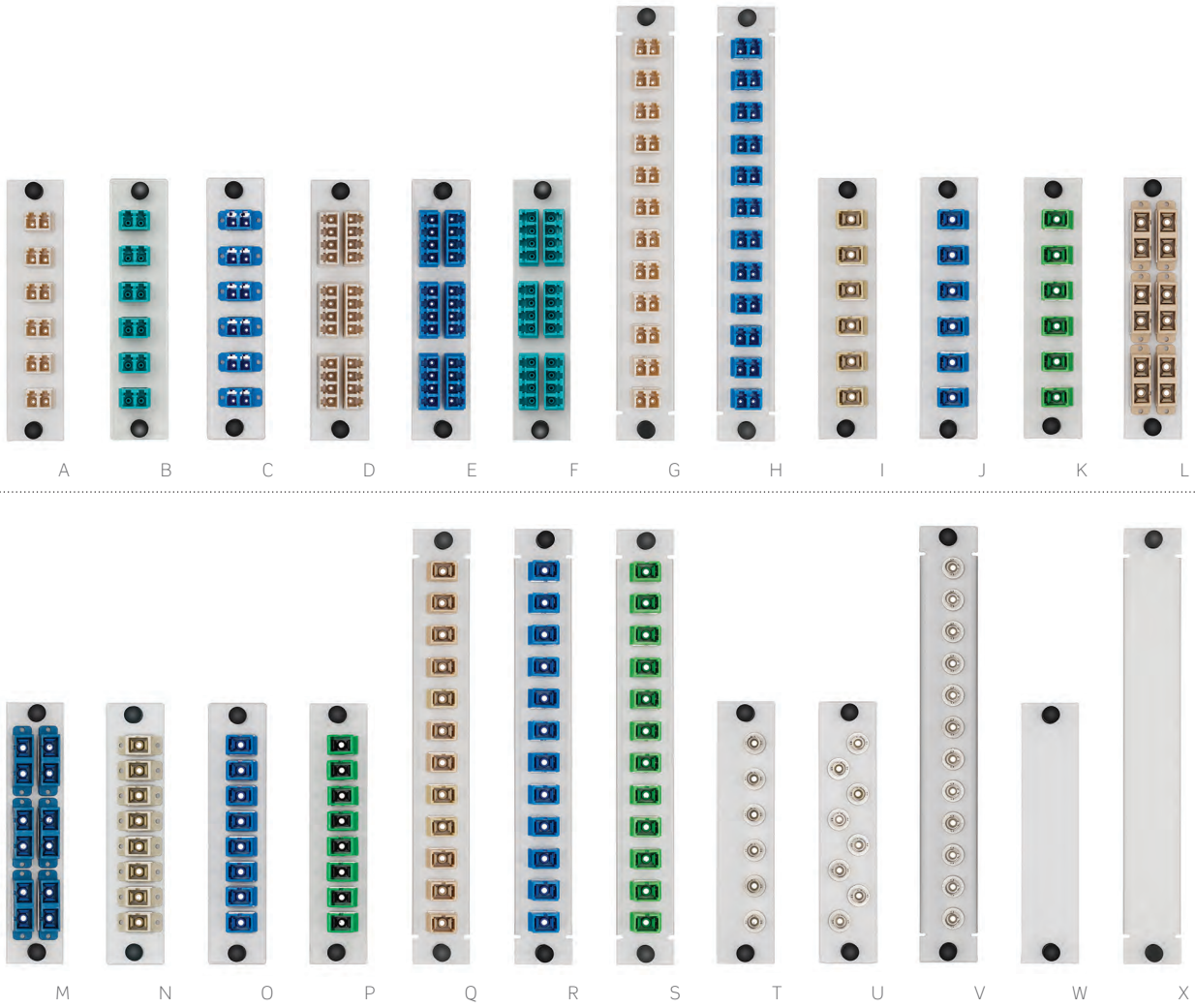
*Accepts 12-fiber Mini-Molded Splice Tray T5PLS-12F (page B27).

**Accepts 2 individual adapters (LC Duplex/SC Simplex).

Make-to-Order! NID OPTIONS

NID STYLE	ADAPTER PLATE SELECTION	FIBER TYPE	ADAPTER TYPE & PIGTAIL SELECTION
<ul style="list-style-type: none"> • 502 • 350 • 530 	<ul style="list-style-type: none"> • 6 fibers (ST, SC) • 8 fibers (ST, SC) • 12 fibers (SC, LC) • 2 fibers (SC, ST) • 4 fibers (SC, LC) • 8 fibers (LC) • None 	<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4 (aqua) • OS2 • None 	<ul style="list-style-type: none"> • LC • LC + pigtail • LC/APC • LC/APC + pigtail • SC • SC/APC • SC + pigtail • SC/APC + pigtail

For assistance customizing your NIDs, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.



LIGHTSPACE ADAPTER PLATES

- Industry-standard style (LGX® footprint) adapter plates fit in all LightSpace wall-mount and rack-mount enclosures, and NIDs
- Captive push/pull fasteners allow for quick, tool-free installation and removal
- Available in 6-, 8-, and 12-packs
- Available in LC, SC, ST, and MTP®

LIGHTSPACE RACK-MOUNT ENCLOSURE FIBER DENSITY CHART

OPTICAL DISTRIBUTION ENCLOSURES		
DP/DPC 525	DP/DPC 700	DP/DPC 105
Holds up to six 6-pack or 8-pack plates 6-Pack = up to 36 fibers 8-Pack = up to 48 fibers Duplex 6-Pack = up to 72 fibers Quad 6-Pack = up to 144 fibers	Holds up to twelve 6-pack or 8-pack plates 6-Pack = up to 72 fibers 8-Pack = up to 96 fibers Duplex 6-Pack = up to 144 fibers Quad 6-Pack = up to 288 fibers	Holds up to twelve 12-pack plates 12-Pack = up to 288 fibers

LIGHTSPACE® ENCLOSURE SYSTEM | Adapter Plates

LIGHTSPACE FIBER ADAPTER PLATES

DESCRIPTION	PART NO.
[A] 6-Pack Duplex LC MM (12-fiber), beige, phosphor bronze sleeve	APLW6-LDM
[B] 6-Pack Duplex LC Laser-Optimized MM (12-fiber), aqua, zirconia ceramic sleeve ^	APLW6-LDL
[C] 6-Pack Duplex LC SM (12-fiber), blue, zirconia ceramic sleeve	APLW6-LDS
[D] 6-Pack Quad LC MM (24-fiber), beige, phosphor bronze sleeve ^	APLW6-LQM
[E] 6-Pack Quad LC SM (24-fiber), blue, zirconia ceramic sleeve ^	APLW6-LQS
[F] 6-Pack Quad LC Laser-Optimized MM (24-fiber), aqua, zirconia ceramic sleeve ^	APLW6-LQL
[G] 12-Pack (White) Duplex LC MM (24-fiber), beige, phosphor bronze sleeve (DP or DPC 105 Enclosure only) ^	APL12-LDM
[H] 12-Pack (White) Duplex LC SM (24-fiber), blue, zirconia ceramic sleeve (DP or DPC 105 Enclosure only) ^	APL12-LDS
[I] 6-Pack SC MM (6-fiber), beige, phosphor bronze sleeve	APLW6-SCM
[J] 6-Pack SC SM (6-fiber), blue, zirconia ceramic sleeve	APLW6-SCS
[K] 6-Pack SC/APC SM (6-fiber), green, zirconia ceramic sleeve	APLW6-SCA
[L] 6-Pack Duplex SC MM (12-fiber), beige, phosphor bronze sleeve	APLW6-SDM
[M] 6-Pack Duplex SC SM (12-fiber), blue, zirconia ceramic sleeve	APLW6-SDS
6-Pack Duplex SC/APC SM (12-fiber), green, zirconia ceramic sleeve ^	APLW6-SDA
[N] 8-Pack (White) SC MM (8-fiber), beige, phosphor bronze sleeve	APLW8-SCM
[O] 8-Pack (White) SC SM (8-fiber), blue, zirconia ceramic sleeve	APLW8-SCS
[P] 8-Pack (White) SC/APC SM (8-fiber), green, zirconia ceramic sleeve	APLW8-SCA
[Q] 12-Pack (White) SC MM (12-fiber), beige, phosphor bronze sleeve (DP or DPC 105 Enclosure only) ^	APL12-SCM
[R] 12-Pack (White) SC SM (12-fiber), blue, zirconia ceramic sleeve (DP or DPC 105 Enclosure only) ^	APL12-SCS
[S] 12-Pack (White) SC/APC SM (12-fiber), green, zirconia ceramic sleeve (DP or DPC 105 Enclosure only) ^	APL12-SCA
6-Pack ST MM (6-fiber), phosphor bronze sleeve	APLW6-STM
[T] 6-Pack ST SM (6-fiber), zirconia ceramic sleeve	APLW6-STS
[U] 8-Pack ST MM (8-fiber), phosphor bronze sleeve	APLW8-STM
8-Pack ST SM (8-fiber), zirconia ceramic sleeve	APLW8-STS
12-pack (White) ST MM (12-fiber), beige, phosphor bronze sleeve (DP or DPC 105 Enclosure only) ^	APL12-STM
[V] 12-Pack (White) ST SM (12-fiber), blue, zirconia ceramic sleeve (DP or DPC 105 Enclosure only) ^	APL12-STS
6-Pack MTP® MM (72-fiber), key up/key down	APLW6-6MP
[W] Blank Plate, metal	APLW6-BLK
[X] 12-Pack (White) blank (DP or DPC 105 Enclosure only) ^	APL12-BLK

^ = Minimum order quantity and lead times may apply.

Additional adapter plate configurations available.
Please contact Tech Support at 800.824.3005 for more information.

LIGHTSPACE WALL-MOUNT ENCLOSURE FIBER DENSITY CHART

CUSTOMER PREMISE ENCLOSURES

CPC-12	CPC-24	CPC-48
Holds up to two 6-pack or 8-pack plates 6-Pack = up to 12 fibers 8-Pack = up to 16 fibers Duplex 6-Pack = up to 24 fibers Quad 6-Pack = up to 48 fibers	Holds up to four 6-pack or 8-pack plates 6-Pack = up to 24 fibers 8-Pack = up to 32 fibers Duplex 6-Pack = up to 48 fibers Quad 6-Pack = up to 96 fibers	Holds up to eight 6-pack or 8-pack plates 6-Pack = up to 48 fibers 8-Pack = up to 64 fibers Duplex 6-Pack = up to 96 fibers Quad 6-Pack = up to 192 fibers



METAL SPLICE TRAYS

- Heat-shrink, heat-shrink foam, and bare-fusion styles available
- Mounting holes with space blocks prevent fiber damage
- Compatible with Opt-X® and LightSpace enclosures
- Splice tray selector is available online at Leviton.com/configurator
- Heat-shrink fusion splice sleeves sold separately

SPLICE HOLDERS

- 6- and 12-fiber designs in foam and solid plastic options
- Mini, micro, and mechanical options available
- Styles accommodate the entire range of Leviton fusion splice sleeves

For assistance ordering your splice trays, visit Leviton.com/configurator or call Tech Support at 800.824.3005.

METAL SPLICE TRAYS

DESCRIPTION	HEAT SHRINK (PLASTIC)	HEAT SHRINK (FOAM)	BARE FUSION
[A] 12-fiber Mini, 4" W x 7" L x 0.35" H	T47HS-P06	—	T47BF-P06 ^
12-fiber Mini, with standoff 4" W x 7" L x 0.57" H	5T000-00T	—	—
12-fiber Standard, 4" W x 11.75" L x 0.35" H	T4LHS-P06	T4LHS-F06 ^	T4LBF-P06
[B] 24-fiber High Density, 4" W x 11.75" L x 0.35" H	T4LHS-P12	T4LHS-F12 ^	T4LBF-P12
[C] 12-fiber Standard, 5" W x 11.75" L x 0.35" H	T5LHS-P06	T5LHS-F06 ^	T5LBF-P06
[D] 24-fiber High Density, 5" W x 11.75" L x 0.35" H	T5LHS-B12	T5LHS-F12	T5LBF-P12 ^

RIBBON-STYLE SPLICE TRAYS

DESCRIPTION	PART NO.
72-fiber Ribbon Style, quartz, 6" W x 10" L x 0.35" H	T6XRB-40Q

SPLICE TRAY MOUNTING HARDWARE

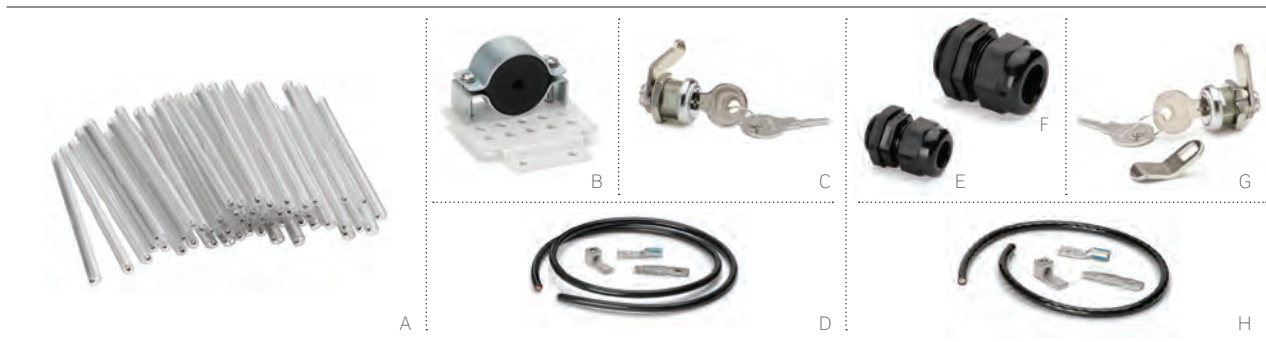
[E] Splice Tray Mounting-Hardware Kit	SPLMT-HKT
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SPLICE HOLDERS

Splice Holder, heat shrink (black plastic), 6-fiber capacity	FSHHS-P06
Splice Holder, heat shrink (black plastic), 8-fiber capacity	FSHHS-P08
[F] Splice Holder, heat shrink (black foam), 6-fiber capacity	FSHSL-F06
Splice Holder, mini sleeves (black foam), 6-fiber capacity	FSHMI-F06
Splice Holder, micro sleeves (black foam), 6-fiber capacity	FSHMR-F06
Splice Holder, bare fusion, 12-fiber capacity	FSHBF-P12
Splice Holder, heat shrink (LGX® footprint), 6-fiber capacity	FSHAT-F06
Splice Holder, ribbon, 6 position, 72-fiber capacity	FSHRB-F06

^ = Minimum order quantity and lead times may apply.

Note: Splice tray mounting hardware sold separately except as noted. Additional configurations available including mechanical splice. Contact inside sales at 800.722.2082 for more information.



FUSION SPLICE SLEEVES

- Standard 40 mm and 60 mm sizes, plus mini and micro sleeves for smaller trays and fibers
- Precise lengths free of all burrs and sharp edges
- Clear outer tube for viewing fiber color

LIGHTSPACE ENCLOSURE ACCESSORIES

Select cable clamp kits, key locks, strain-relief options, or grounding solutions.

FUSION SPLICE SLEEVES					
DESCRIPTION	STANDARD 50/PACK	SLIM 100/PACK	MINI 100/PACK	MICRO 100/PACK	REBBISS 25/PACK
Fusion Splice Sleeve, 60 mm	[A] FSSSD-060	FSSSL-060	—	—	—
Fusion Splice Sleeve, 40 mm	FSSSD-040	FSSSL-040	FSSMI-040	FSSMR-040	—
Fusion Splice Sleeve, 25 mm	—	—	FSSMI-025	FSSMR-025	—
Fusion Splice Sleeve, quartz, 40 mm	—	—	—	—	FSSRB-P40

LIGHTSPACE DP, DPS & DPC SERIES ACCESSORIES	
DESCRIPTION	PART NO.
[B] Cable Clamp Kit (.25" - 1.25" diameter)	DPCMP-UNV
[C] Key Lock Kit	DPLOK-KIT
[D] Grounding Kit	DPGRD-KIT

LIGHTSPACE CPC & CPS SERIES ACCESSORIES	
DESCRIPTION	PART NO.
[E] Cable Clamp Kit (.25" - .50" diameter cable), use with CPC/CPS 12/24/48	CPCSR-001
[F] Cable Clamp Kit (.50" - .75" diameter cable), use with CPC/CPS 24/48	CPCSR-002
[G] Key Lock Kit	CPLOK-KIT
[H] Grounding Kit, single cable	CPGRD-KIT

SPLICE TRAY	RECOMMENDED SPLICE SLEEVE
T47HS-P06	FSSSD-040
T47BF-P06	FSSSD-040
5T000-00T	FSSSD-040
T4LHS-P06	FSSSD-060
T4LHS-F06	FSSSD-060
T4LBF-P06	FSSSD-060

SPLICE TRAY	RECOMMENDED SPLICE SLEEVE
T4LHS-P12	FSSSD-040
T4LHS-F12	FSSSD-040
T4LBF-P12	FSSSD-040
T5LHS-P06	FSSSD-060
T5LHS-F06	FSSSD-060

SPLICE TRAY	RECOMMENDED SPLICE SLEEVE
T5LBF-P06	FSSSD-060
T5LHS-B12	FSSSD-040
T5LHS-F12	FSSSD-040
T5LBF-P12	FSSSD-040
T6XRB-40Q	FSSRB-P40



Flush-Mount Enclosures & Panels

Leviton high-density Flush-Mount Enclosures and Panels are ideal for data center server, zone, or MDA cabinet applications where space is crucial. These enclosures utilize MTP® connections on the back with choice of fiber connectors on the front, or can be pre-assembled with harnesses. Panels can accommodate up to 576 multimode or single-mode fibers, depending on connector style, and mount on standard 19-inch racks and cabinets.

FEATURED PRODUCTS

Flush-Mount Enclosures & Panels
B42



1RU Enclosure, 48-fiber OM3, MTP®-LC, front and rear



1RU Panel, 72-fiber OM3, LC



1RU Panel, 72-fiber, OS2, MU

HIGH-DENSITY FLUSH-MOUNT ENCLOSURES & PANELS

- Staggered, ergonomic design allows easy access to connectors
- Incorporates logical port management (LPM) using custom silk-screening (modular, numeric, and hexadecimal) for easy port identification
- Constructed of 16-gauge steel, powder-coated black
- Panel mounts on standard 19" racks and cabinets
- Accepts 1RU Patch Cord Management Tray (5R1UL-CMT)
- Larger enclosures (up to 10RU) are available, contact Inside Sales to order



RECOMMENDED APPLICATIONS:

- Data Center Server, Zone, or MDA
- Equipment Room
- Telecommunications Room
- 19" Racks and Cabinets

FLUSH-MOUNT ENCLOSURE & PANEL DENSITY, MAXIMUM FIBER COUNT

SIZE/TYPE	LC	SC	ST
1RU Panel/Enclosure	144	72	72

Make-to-Order! FLUSH-MOUNT ENCLOSURE & PANEL (1RU ONLY) OPTIONS

FIBER TYPE	FIBER COUNT	CONNECTOR TYPE	MTP FIBER COUNT	FOOTPRINT	COLOR	POLARITY
• OM1	• 24	• LC	• 12	• 1RU Rack Mount	• Black (standard)	• A-A
• OM2	• 36	• LC w/shutters	• None		• Beige (1RU panel only)	• A-B
• OM3	• 48	• LC/APC				• None (panels only)
• OM4 (aqua)	• 72	• LC/APC w/ shutters				
• OS2	• 96	• MTP				
	• 144	• SC				
	• 288	• ST				
	• 576	• MU				

For assistance customizing your enclosures and panels, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

SPOTLIGHT Patch Cord Management Tray



The Opt-X® 500i Patch Cord Management Tray provides convenient routing and protection using the same rack-unit space as the enclosure. It can also be used with any Leviton 1RU Flush-Mount MTP to LC enclosure.



FEATURED PRODUCTS

Vertical Patching Brackets & Blade Replicators **B44**

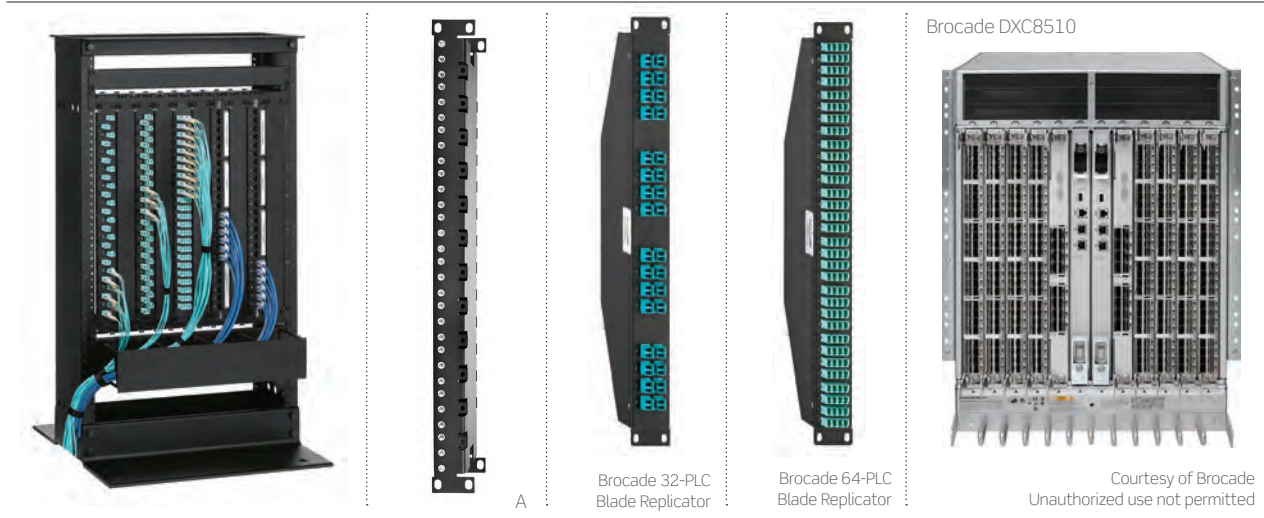
Replicator® Enclosures **B45**

100/40G to 10G Conversion **B46**

Equipment-Specific Solutions

Levitan works closely with the biggest names in active network equipment to create scalable, high-density data center networks. When combined with the latest data center switches from Arista, Brocade, Cisco, and Extreme Networks, Levitan connectivity provides design flexibility for your equipment architecture. These solutions include conversion harnesses and cassettes that break out 40GbE or 100GbE connections into individual 10GbE channels.

EQUIPMENT- SPECIFIC SOLUTIONS | Vertical Patching Brackets & Blade Replicators



Equipment-Specific Solutions

FIBER

VERTICAL PATCHING BRACKETS

- Enable vertical mounting in a 19" rack
- Align or replicate patch panel/adapter plate ports with the ports that reside on servers or switches within the same or adjacent rack/cabinet
- 48-port copper panels replicate typical 1G/10G copper switch blades
- 32, 48, and 64 fiber ports replicate typical fiber switch blades
- Up to ten 1RU copper/fiber patch panels and cable managers can be mounted vertically utilizing 10RU space

BLADE REPLICATORS

- Replicators provide one-to-one Logical Port Management (LPM) replication for the high-density blade fiber switches
- Blade Replicator supports switches and directors from Cisco, Brocade, Arista, and Extreme
- Mounting can be done horizontally or vertically using Leviton Vertical Patching Brackets
- Blade Replicator supports 32 ports, 48 ports, and 64 ports per blade
- Replicator kits simplify ordering: Kits can include the replicated patch panel, associated trunks, MTP® panels, and harnesses

VERTICAL PATCHING BRACKETS

DESCRIPTION	PART NO.
[A] Vertical Patching Bracket, 19" (set of two)	VERPB-019

BLADE REPLICATORS

32-Port Blade, LC	RPL-xxxx32PLC*
48-Port Blade, LC	RPL-xxxx48PLC*
64-Port Blade, LC	RPL-BRCD64PLC*

xxxx = For Arista Switch (ASTA), Brocade Switch (BRCD), Cisco Switch (CSCO), Extreme Switch (EXTM).
 * = Fiber type: OM3 = 3, OM4 = 4.

For assistance configuring replicators, please call 800.722.2082.

EQUIPMENT-SPECIFIC SOLUTIONS | Replicator® Enclosures



REPL-BRDE2400-LCMTDP0960M3C:
Brocade 12/24k Replicator 8RU Enclosure,
96 channel, MTP® to LC, OM3, Fiber



REPL-CSC09513-LCMTDP5760M3C:
Cisco 9513 Replicator 8RU Enclosure, Beige,
288 channel, MTP to LC, OM3, Fiber

Cisco MDS 9513



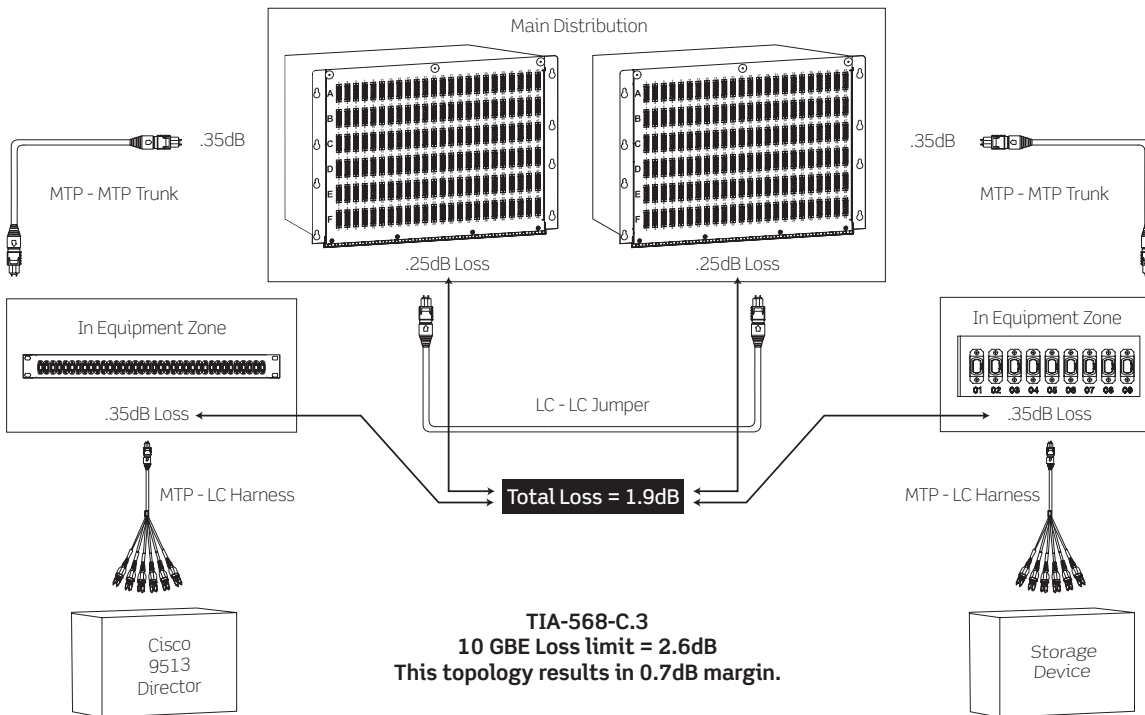
Courtesy of Cisco Systems, Inc.
Unauthorized use not permitted

REPLICATOR ENCLOSURES

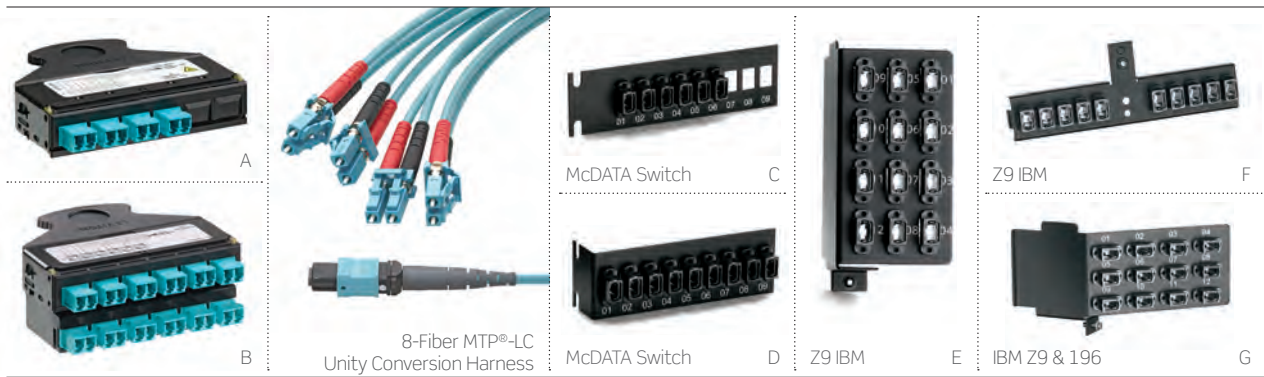
- Can be configured to replicate any switch, using unique logical port management (LPM) design
- Kits available with trunks, MTP panels, and harnesses
- Full front access to all terminations via fold-down panel
- Shallow depth allows back-to-back mounting in cabinets and 4-post racks for high-density applications
- Up to 384-channel capacity (768 fiber strands)
- Available with LC and MU connector interfaces

For assistance configuring replicators, please call 800.722.2082.

TYPICAL REPLICATOR KIT TOPOLOGY



EQUIPMENT-SPECIFIC SOLUTIONS | 100/40G to 10G Conversion



100G TO 10G & 40G TO 10G e2XHD CONVERSION CASSETTES

- Low-loss MTP connector 0.35dB Max IL; LC connector at 0.15dB typical IL
- Bend-insensitive fiber lowers risk for pinched cables
- Compatible with reversing polarity LC Uniboot patch cords
- Cassettes fit all e2XHD panels exclusively



OPT-X® UNITY CONVERSION FIBER HARNESES

- Small diameter cable for dense connectivity
- Uses bend insensitive fiber; lowers risk for pinched cables
- Available with optional reversing polarity LC Uniboot
- Low-loss MTP connector 0.35dB Max IL

FIBER PLUG-N-PLAY MTP BRACKETS

- Mount to back rail (right or left side) of racks and cabinets, freeing up valuable space
- Provide direct connection to the mainframe using trunk cables and MTP harnesses
- Available with shutters

e2XHD CONVERSION CASSETTES		
DESCRIPTION		PART NO.
	40G to 10G OM3, 8 fiber, MTP-LC Conversion Cassettes	FME2XHD-E008CKQDJ
[A]	40G to 10G OM4, 8 fiber, MTP-LC Conversion Cassettes	FME2XHD-F008CKQDJ
	40G to 10G OS2, 8 fiber, MTP-LC Conversion Cassettes	FME2XHD-A008CKQDJ
	100G to 10G OM3, 24 fiber, MTP-LC Conversion Cassettes	FME2XHD-E024CHQES4
[B]	100G to 10G OM4, 24 fiber, MTP-LC Conversion Cassettes	FME2XHD-F024CHQES4
	100G to 10G OS2, 24 fiber, MTP-LC Conversion Cassettes	FME2XHD-A024CHQES4

Make-to-Order! OPT-X UNITY CONVERSION FIBER HARNESES					
FIBER TYPE	FIBER COUNT	CONNECTOR 1ST END (MTP)	CONNECTORS 2ND END	CABLE LENGTH	BREAKOUT LENGTH (INCHES)
<ul style="list-style-type: none"> • OM3 • OM4 (aqua) • OM4+ (violet) • OS2 	<ul style="list-style-type: none"> • 8 • 24 	<ul style="list-style-type: none"> • Male • Female 	<ul style="list-style-type: none"> • LC • Uniboot LC 	<ul style="list-style-type: none"> • Custom lengths in feet and meters 	<ul style="list-style-type: none"> • 12-48 • Other

For assistance customizing your harnesses, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

FIBER PLUG-N-PLAY MTP BRACKETS ^				
DESCRIPTION	6 MTP ADAPTERS	9 MTP ADAPTERS	10 MTP ADAPTERS	12 MTP ADAPTERS
Straight Bracket w/ Adapters	[C] FB106-0ST	FB109-0ST	—	—
90° Angled Bracket w/ Adapters	FB106-090	[D] FB109-090	—	—
Standard 12 MTP-Adapter Bracket	—	—	—	[E] FB112-000
Straight Vertical MTP Bracket	—	—	[F] FB110-VST	—
45° Angled MTP Bracket, Left Hand Mount	—	—	—	[G] FB112-L45
45° Angled MTP Bracket, Right Hand Mount	—	—	—	FB112-045

^ = Minimum order quantity and lead times may apply.



FEATURED PRODUCTS

Opt-X® Unity
40/100G System

Pre-Terminated
Trunk Cables **B49**

Harnesses **B53**

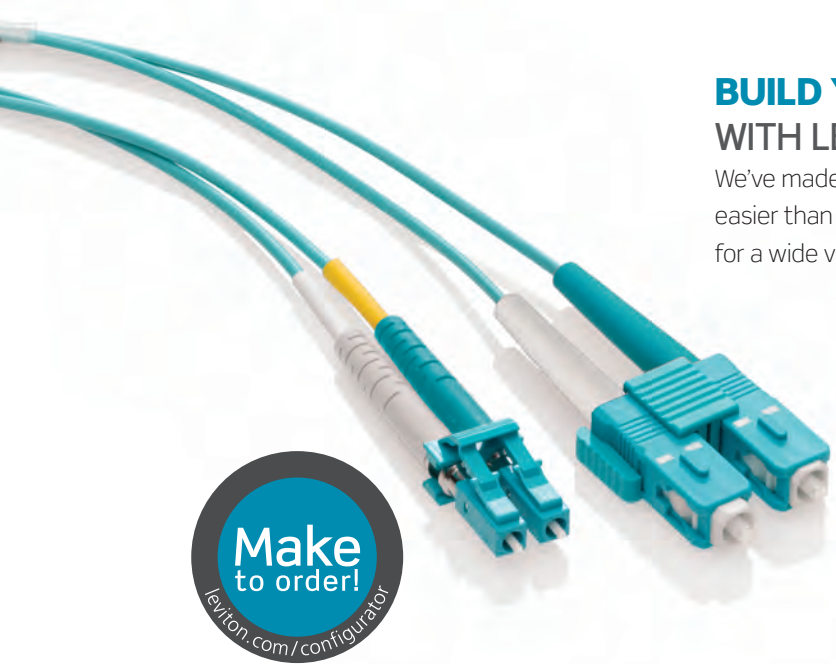
Array Cords **B56**

Premium & Economy
Fiber Optic Cable
Assemblies **B57**

Pre-terminated Cable Assemblies

Simplify fiber connection and termination with Leviton cable assemblies.

Take advantage of our Secure Keyed LC and Opt-X Unity 40/100G assemblies to protect and future-proof your critical networks. Pre-terminated trunk cables and harnesses, plus multimode, single-mode, and pigtail assemblies are all made to customer specifications. Choose cable type, connector combinations, length, mode, and more. Configure online at [Leviton.com/configurator](https://www.leviton.com/configurator).



BUILD YOUR OWN PRODUCTS WITH LEVITON'S MAKE-TO-ORDER PROGRAM

We've made building the exact solution for your network quicker and easier than ever. Rely on our innovative online custom configurators for a wide variety of fiber and copper products.

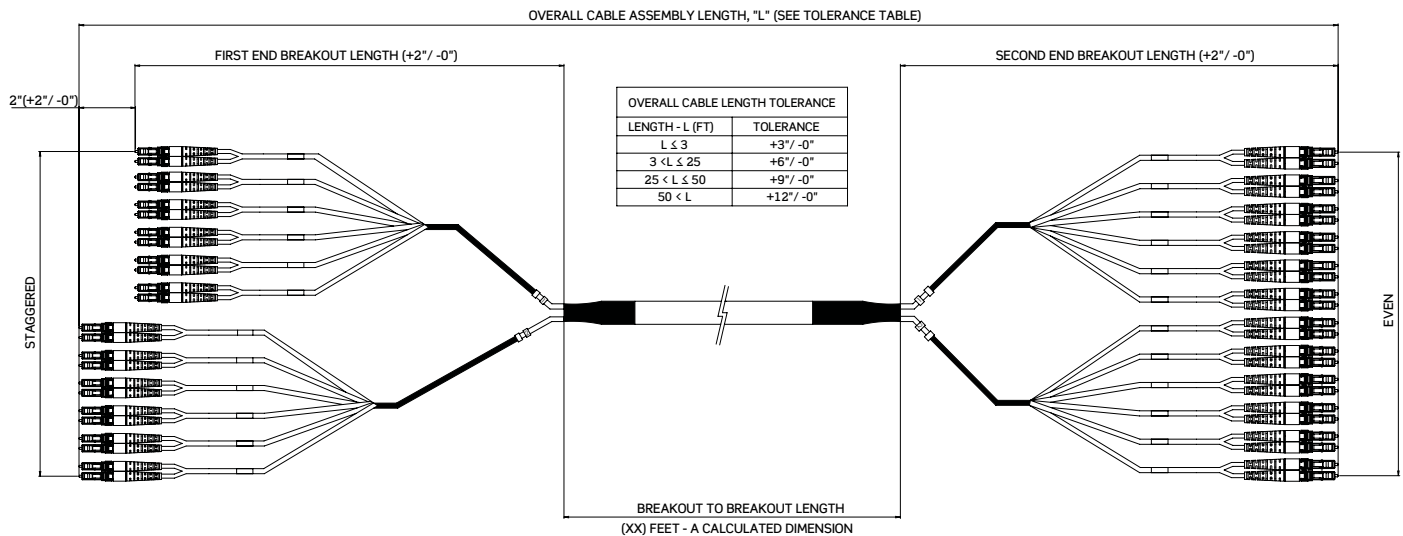
MAKE-TO-ORDER CABLE ASSEMBLIES

- Pre-Terminated Fiber Trunks
- Fiber MTP® Harnesses
- Secure Keyed LC Cable Assemblies
- Fiber Optic Patch Cords
- Pigtails

Pre-Terminated Cable Assemblies

FIBER

FIBER TRUNK CABLE DIAGRAM (CUSTOMIZE AT LEVITON.COM/CONFIGURATOR)



Our engineers can also work with you to design and manufacture a solution that meets your specific application needs. For questions or assistance configuring your products, please call Network Solutions Support at **800.824.3005**.

SPOTLIGHT OM4+ Premium Violet System



With the increasing demand for 40GbE and 100GbE, more data centers are choosing OM4+ performance for better bandwidth and link distances. Leviton's new OM4+ Premium Violet System offers the best chance to future-proof data center cabling infrastructure, with the ability to transmit 40/100GbE signals out to an unprecedented 300 meters when using standard 40GBASE-SR4 or 100GBASE-SR10 transceivers. We have color-coded our OM4+ system components violet, in order to distinguish OM4+ from aqua OM4 and OM3, or other legacy installations. This avoids confusion and channel loss that can occur when OM3 and/or OM4 fiber cabling is used in the same data center as OM4+ fiber cabling. The OM4+ system components — including violet trunk cables, harnesses, patch cords, MTP® cassettes, and adapter plates — create the first violet end-to-end solution in the industry.

PRE-TERMINATED CABLE ASSEMBLIES | Pre-Term. Trunk Cables > Opt-X® Unity 40/100G



OPT-X UNITY 40/100G PRE-TERMINATED TRUNK CABLES

- MTP to MTP trunk cables support 40/100G speeds
- Terminations available in 8-, 12-, and 24-fiber configurations
- Migration solution to 40/100G from existing 10G networks with premium 12-fiber MTP trunk configuration
- Up to 70% faster install than field-terminated trunks
- MTP polarity options are TIA methods A, B, or C (Method B is standard)
- 100% factory tested, with test results included for each assembly
- All assemblies labeled with serial number and length for traceability and easy re-order



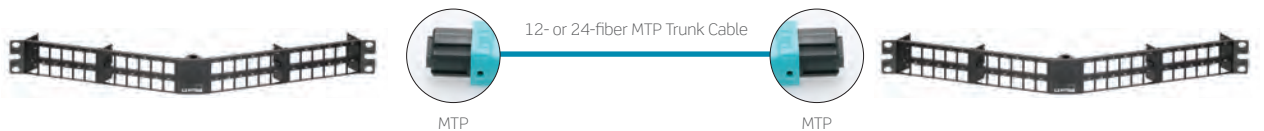
See page B6 for Opt-X Unity 40/100G system overview.

MTP CONNECTOR EXTENDER TAB

- MTP Connector Extender Tab clips on to MTP trunk and array cord connectors, adding 1 3/4" extended reach for improved accessibility in densely populated applications



SPOTLIGHT Migration Path to 40G & 100G



Leviton pre-terminated MTP solutions offer an ideal migration path from 10G to 40G and 100G channels. The Opt-X Unity 40/100G system features MTP trunks, harnesses, array cords, adapter plates, and cassettes to help future-proof your networks. The Opt-X Unity system is fully compatible with Opt-X UHD, Opt-X HD, Opt-X, and e2XHD footprints.



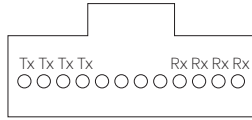
10G
Leviton components for a 10G channel include MTP-LC Opt-X, e2XHD, or HDX cassettes, and LC duplex patch cords.

40G
Migration from 10G to a 40G system replaces LC with MTP components, such as 2x12-fiber to 3x8-fiber MTP cassettes and 8-fiber MTP array cords.

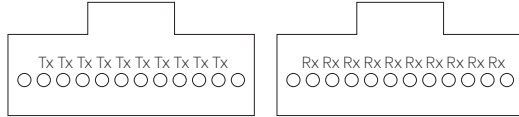
100G
Moving from 40G to 100G replaces MTP cassettes with MTP adapter plates and uses 24-fiber MTP array cords.

PRE-TERMINATED CABLE ASSEMBLIES | Pre-Term.Trunk Cables > Opt-X® Unity 40/100G

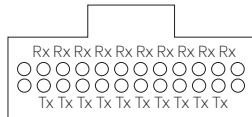
MTP® LANE ASSIGNMENTS FOR 40/100G



40GBASE-SR4, 8-fiber MTP
100GBASE-SR4, 8-fiber MTP



100GBASE-SR10, 2x12-fiber MTPs



100GBASE-SR10, 24-fiber MTP

NOTE: Per IEEE802.3ba and 802.3bm

COLOR-CODED BOOTS ON MTP



OPT-X UNITY 40/100G MTP TRUNKS, STANDARD EXAMPLE PART NUMBERS

DESCRIPTION	PART NO.
OM3, 24FMTP-24FMTP, MDP Plenum, 24-fiber, 100 feet, pulling eye, Method B	FT-EM024JJ100F36C36CY-NNBS
OM4, 24FMTP-24FMTP, MDP Plenum, 24-fiber, 100 feet, pulling eye, Method B	FT-FM024JJ100F36C36CY-NNBS
OM3, 24FMTP-24FMTP, MDP Plenum, 48-fiber, 100 feet, pulling eye, Method B	FT-EM048JJ100F36C36CY-NNBS
OM4, 24FMTP-24FMTP, MDP Plenum, 48-fiber, 100 feet, pulling eye, Method B	FT-FM048JJ100F36C36CY-NNBS
OM3, 24FMTP-24FMTP, MDP Plenum, 144-fiber, 100 feet, pulling eye, Method B	FT-EM144JJ100F36C36CY-NNBS
OM4, 24FMTP-24FMTP, MDP Plenum, 144-fiber, 100 feet, pulling eye, Method B	FT-FM144JJ100F36C36CY-NNBS
[A] MTP Connector Extender Tab (box of 4) (see page B49)	MTPCN-EXD

Make-to-Order! OPT-X UNITY 40/100G MTP TRUNK CABLE OPTIONS

FIBER TYPE	CABLE TYPE	FIBER COUNT	TERMINATION	CABLE LENGTH	BREAKOUT LENGTH (INCHES)	BREAKOUT LEG TYPE FIRST- & SECOND-END TERMINATION	PULLING EYE	1ST & 2ND END STAGGER	POLARITY	LABELING
<ul style="list-style-type: none"> • OM3 • OM4 (aqua) • OM4+ (violet) 	<ul style="list-style-type: none"> • MDP Plenum • MDP Plenum Armor • Plenum I/O Dry Loose Tube (standard) • Plenum Armor I/O Dry Loose Tube • Riser I/O Dry Loose Tube • LSZHI/O Dry Loose Tube 	<ul style="list-style-type: none"> • 12 • 24 • 36 • 48 • 72 • 96 • 144 	<p>FIRST END</p> <ul style="list-style-type: none"> • 24 F MTP (male) • 24 F MTP (female) • Premium 12 F MTP (male) • Premium 12 F MTP (female) <p>SECOND END</p> <ul style="list-style-type: none"> • 24 F MTP (male) • 24 F MTP (female) • Premium 12 F MTP (male) • Premium 12 F MTP (female) 	<ul style="list-style-type: none"> • 10-984 ft • 3-300 m 	<ul style="list-style-type: none"> • 12-99 (38" typical) 	<ul style="list-style-type: none"> • 3-mm Jacketed 12-Fiber • 3.8-mm Jacketed 24-Fiber 	<ul style="list-style-type: none"> • Yes • No 	<ul style="list-style-type: none"> • Yes • No 	<ul style="list-style-type: none"> • MTP Method A • MTP Method B (standard) • MTP Method C 	<ul style="list-style-type: none"> • Standard • Custom

For assistance customizing your Opt-X Unity trunks, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

PRE-TERMINATED CABLE ASSEMBLIES | Pre-Terminated Trunk Cables > Standard



LC-LC



MTP-to-LC



LC Fiber Trunk

PRE-TERMINATED TRUNK CABLES

- Up to 70% faster install than field-terminated trunks
- Discrete connectors are heat cured and use ceramic ferrules and sleeves for optimal performance
- Optional pulling eye protects connectors and eases installation
- Available in LC, SC, ST, MU, and MTP
- MTP polarity options are TIA methods A, B, or C
- 100% factory tested, with test results included for each assembly
- All assemblies labeled with serial number and length for traceability and easy re-order



PRE-TERMINATED TRUNK CABLES, STANDARD EXAMPLE PART NUMBERS

DESCRIPTION	PART NO.
OM3, LC-LC, MDP Plenum, 24-fiber, 50 feet, pulling eye, Method C	FT-EM024CC050F36C36CY-NNBS
OM3, MTP-MTP, MDP plenum, 24-fiber, 50 feet, pulling eye, Method B	FT-EM024SS050F36C36CY-NNCS
OM4, LC-LC, MDP plenum, 24-fiber, 50 feet, pulling eye, Method C	FT-FM024CC050F36C36CY-NNBS
OM4, MTP-MTP, MDP plenum, 24-fiber, 50 feet, pulling eye, Method B	FT-FM024SS050F36C36CY-NNCS
OM3, LC-LC, MDP plenum, 48-fiber, 100 feet, pulling eye, Method C	FT-EM048CC100F36C36CY-NNBS
OM3, MTP-MTP, MDP plenum, 48-fiber, 100 feet, pulling eye, Method B	FT-EM048SS100F36C36CY-NNCS
OM4, LC-LC, MDP plenum, 48-fiber, 100 feet, pulling eye, Method C	FT-FM048CC100F36C36CY-NNBS
OM4, MTP-MTP, MDP plenum, 48-fiber, 100 feet, pulling eye, Method B	FT-FM048SS100F36C36CY-NNCS
MTP Connector Extender Tab (box of 4) (see page B49)	MTPCN-EXD

Make-to-Order! PRE-TERMINATED TRUNK CABLE OPTIONS

FIBER TYPE	CABLE TYPE	FIBER COUNT	TERMINATION	CABLE LENGTH (FEET)	BREAKOUT LENGTH (INCHES)	BREAKOUT-LEG TYPE FIRST- & SECOND-END TERMINATION	POLARITY	LABELING
<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4 (aqua) • OM4+ (violet) • OS2 	<ul style="list-style-type: none"> • Riser I/O Dry Loose Tube • Plenum I/O Dry Loose Tube (standard) • Plenum Armor I/O Dry Loose Tube • Riser Distribution • Plenum Distribution • LSZH I/O Dry Loose Tube • MDP Plenum • MDP Plenum Armor 	<ul style="list-style-type: none"> • 4 • 6 • 12 • 24 • 36 • 48 • 72 • 96 • 144 	<ul style="list-style-type: none"> • LC (duplex clips) • LC/APC • LC (uniboot) • SC • SC/APC • ST • MU • 12-fiber MTP (female) • 12-fiber MTP (male) • Pigtail • FC • FC/APC • MTRJ (female) • MTRJ (male) 	<ul style="list-style-type: none"> • 1-999 • 10-999 	<ul style="list-style-type: none"> • 12-99 (36" is typical) 	<p>FIRST END</p> <ul style="list-style-type: none"> • 900 μm buffered fiber (for SC, ST, LC, MU) • 2 mm jacketed fiber (for LC, SC, MU) • 3 mm jacketed fiber (for SC, ST, LC, MTP) <p>SECOND END</p> <ul style="list-style-type: none"> • 900 μm buffered fiber (for LC, SC, ST, MU) • 2 mm jacketed fiber (for LC, SC, MU) • 3 mm jacketed fiber (for LC, SC, ST, MTP) • None 	<ul style="list-style-type: none"> • MTP Method A • MTP Method B • MTP Method C • A-A • A-B 	<ul style="list-style-type: none"> • Standard • Custom

For assistance customizing your trunk cables, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

PRE-TERMINATED CABLE ASSEMBLIES | Pre-Terminated Trunk Cables > Secure Keyed LC



Secure Keyed LC to Secure Keyed LC
12-fiber, 50/125 μm

PRE-TERMINATED SECURE KEYED LC TRUNK CABLES

- Locking design prevents unauthorized and inadvertent moves, adds, and changes (MACs)
- Duplex LC connectors can only be removed with matching-color extraction tool
- Choose from eight colors to segregate and secure networks
- Duplex LC connectors plug into any industry-compliant LC adapter or interface
- Standard polarity: A-B or MTP® Method C; others available
- Standard breakout lengths can be staggered for better cable routing and management
- Trunks over 125 feet long are shipped on spools, or upon request for shorter lengths
- Pulling eye option available

SECURE KEYED LC FIBER TRUNK CABLE OPTIONS

KEYED COLOR	FIBER TYPE	CABLE TYPE	FIBER COUNT	TERMINATION	CABLE LENGTH (FEET)	1ST & 2ND BREAKOUT (INCHES)	BREAKOUT LEG	POLARITY	LABELING
<ul style="list-style-type: none"> • White • Yellow • Orange • Red • Blue • Green • Slate • Black 	<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4 (aqua) 	<ul style="list-style-type: none"> • Riser I/O Dry Loose Tube • Plenum I/O Dry Loose Tube (standard) • Plenum Armor I/O Dry Loose Tube • Riser Distribution • Plenum Distribution 	<ul style="list-style-type: none"> • 4 • 6 • 12 • 24 • 36 • 48 • 72 • 96 • 144 	<p>FIRST END</p> <ul style="list-style-type: none"> • Secure Keyed LC Duplex (uniboot) <p>SECOND END</p> <ul style="list-style-type: none"> • LC (duplex clip) • LC/APC • LC Duplex (uniboot) • SC (duplex clip) • SC/APC • ST • MU • Secured Keyed LC • MTP (female) • MTP (male) • Pigtail 	<ul style="list-style-type: none"> • 1-999 	<ul style="list-style-type: none"> • 12-99 (38" is typical) 	<ul style="list-style-type: none"> • 900 μm buffered fiber • 2 mm jacketed fiber • 3 mm jacketed fiber 	<ul style="list-style-type: none"> • MTP Method A • MTP Method B • MTP Method C 	<ul style="list-style-type: none"> • Standard • Custom

For assistance customizing your trunk cables, please call Tech Support at 800.824.3005.

SPOTLIGHT Secure Keyed LC Fiber System



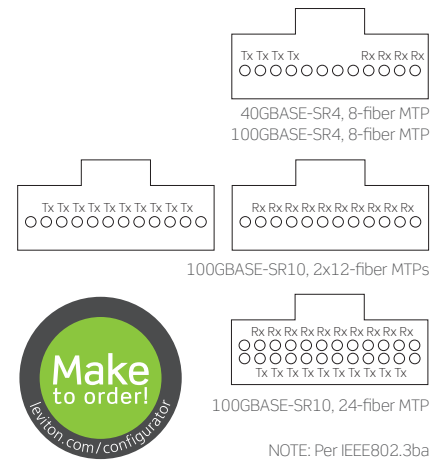
Leviton Secure Keyed LC Fiber Systems prevent unauthorized and inadvertent changes in highly sensitive applications such as government data centers, telecommunications rooms, workstation areas, and secure IT networks, creating an ideal "lock-in" system. Once connected to a port, the locking design — built into the body of each duplex LC connector — prevents removal by hand, and the connector can only be removed with a matching-color extraction tool. Eight keyed connector colors are available to segregate networks. The system is made up of trunks, harnesses, patch cords, pigtails, connectors, port protection plugs, extraction tools, and QuickPort® fiber adapters. All Secure Keyed LC assemblies and connectors work with any industry-compliant LC duplex or quad adapter.

PRE-TERMINATED CABLE ASSEMBLIES | MTP® Array Harnesses > Opt-X® Unity 40/100G



OPT-X UNITY 40/100G MTP ARRAY HARNESSES

- For use in attaching directly to 40/100G transceivers
- Pre-terminated MTP to MTP connectors in laser-optimized multimode
- MTP Extender Tab option for high-density applications
- Custom short-length cable for cabinet/rack patching
- Custom staggering available
- MTP polarity options are TIA method A, B, or C (Method B is standard)
- Used in conjunction with MTP brackets (Zero-U) or adapter plates
- 100% factory tested, with test results included for each assembly
- All assemblies labeled with serial number and length for traceability and easy re-order
- Color-coded boots



Make-to-Order! OPT-X UNITY 40/100G MTP ARRAY HARNESS OPTIONS

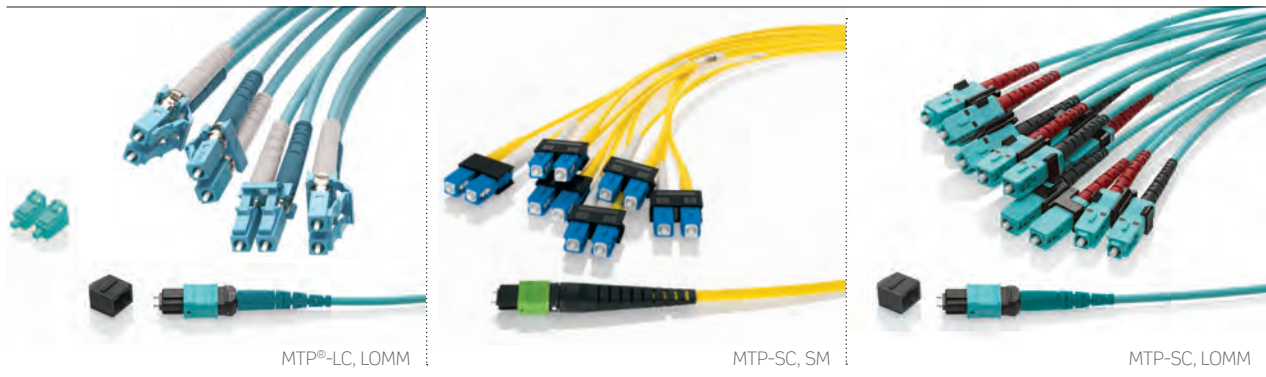
FIBER TYPE	CABLE TYPE	FIBER COUNT	TERMINATION	CABLE LENGTH (FEET)	BREAKOUT LENGTH (INCHES)	POLARITY	LOCATION
<ul style="list-style-type: none"> • OM3 • OM4 (aqua) • OM4+ (violet) 	<ul style="list-style-type: none"> • Harness 	<ul style="list-style-type: none"> • 24 	<p>FIRST END</p> <ul style="list-style-type: none"> • 24 F MTP (male) • 24 F MTP (female) • Premium 12 F MTP (male) • Premium 12 F MTP (female) <p>SECOND END</p> <ul style="list-style-type: none"> • Premium 24 F MTP (male) • Premium 24 F MTP (female) • Premium 12 F MTP (male) • Premium 12 F MTP (female) • Premium 8 F MTP (female) • LC Duplex w/ clips • LC Uniboot 	<ul style="list-style-type: none"> • 3-33 • Other 	<ul style="list-style-type: none"> • 1-48 	<ul style="list-style-type: none"> • MTP Method A • MTP Method B (standard) • MTP Method C 	<ul style="list-style-type: none"> • Core • Edge

For assistance customizing your harnesses, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

SPOTLIGHT Pulling Eye



The pulling eye protects fiber connectors on 12- through 144-fiber trunk cables. It completely covers the breakout length, transferring any pulling force from the assembly to the pulling eye sleeve. Customers can specify which end to have the pulling eye installed. Also available: a high-tensile load option that attaches to Kevlar®.



HARNESSES

- Pre-terminated MTP to discrete connectors (LC, SC, ST, MU) in all fiber types
- Custom short-length cable reduces congestion in cabinet/rack patching applications
- Custom staggering available
- Straight polarity configuration
- Used in conjunction with MTP brackets (Zero-U) or Flush-Mount Series MTP 1RU panels
- Used as direct connect into SAN equipment
- 100% factory tested, with test results included for each assembly
- All assemblies labeled with serial number and length for traceability and easy re-order
- Small diameter cable for dense connectivity
- Available with optional reversing polarity LC Uniboot



Pre-Terminated Cable Assemblies

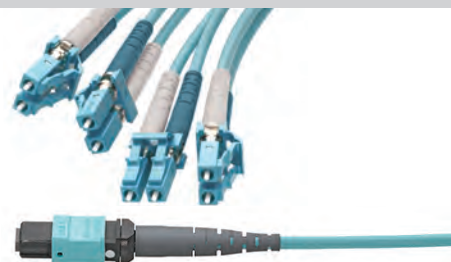
FIBER

Make-to-Order!		HARNESSES OPTIONS				
FIBER TYPE	CABLE TYPE	FIBER COUNT	TERMINATION	CABLE LENGTH (FEET)	BREAKOUT LENGTH (INCHES)	POLARITY
<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4 (aqua) • OM4+ (violet) • OS2 	<ul style="list-style-type: none"> • Harness 	<ul style="list-style-type: none"> • 8 • 12 	<p>FIRST END</p> <ul style="list-style-type: none"> • 8 F MTP (female) • 12 F MTP (male) <p>SECOND END</p> <ul style="list-style-type: none"> • LC • LC (uniboot) • SC • ST 	<ul style="list-style-type: none"> • 5-40 	<ul style="list-style-type: none"> • 12-48 • Other 	<ul style="list-style-type: none"> • Method A • Method B, Core • Method B, Edge • Method C • 40G to 10G

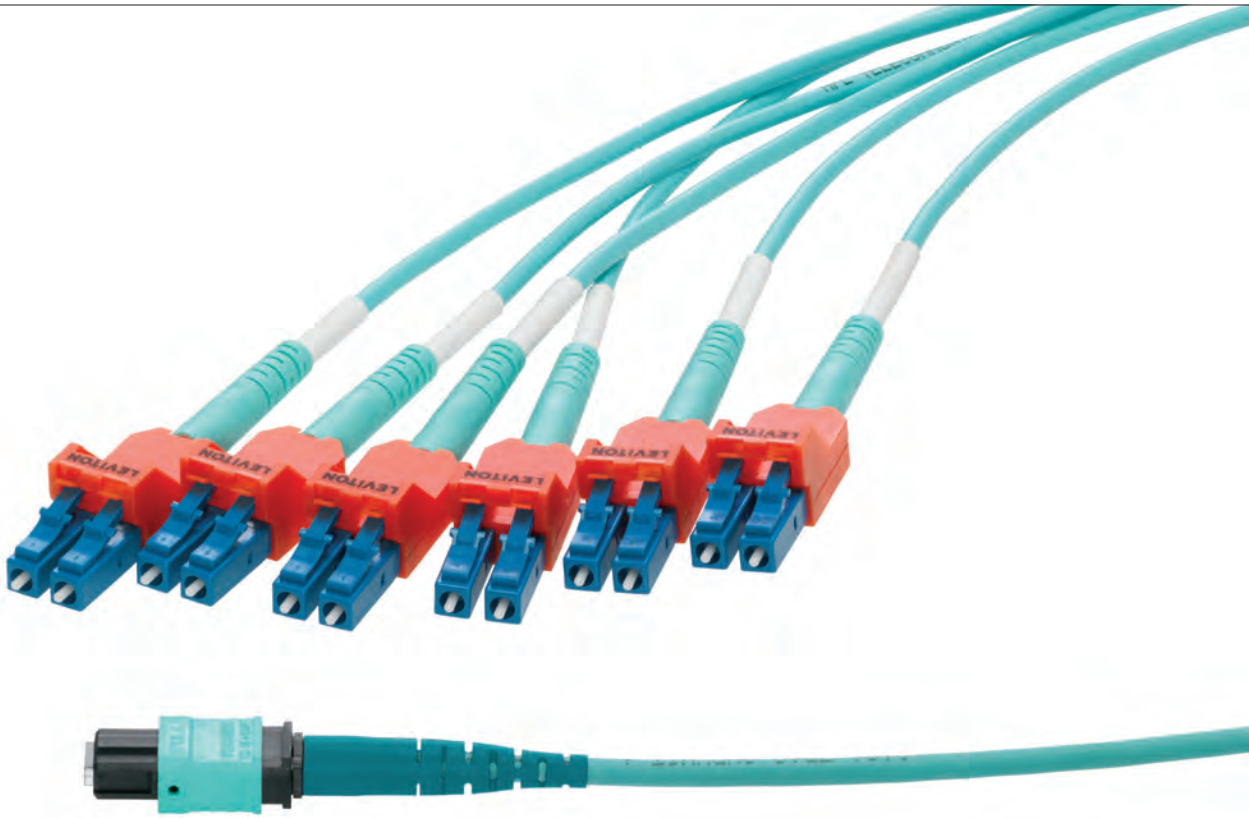
For assistance customizing your harnesses, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

SPOTLIGHT Conversion Harnesses

The **Opt-X Unity Conversion Harnesses** connect to electronics with LC-style ports and aggregate 10G ports to a 40G or 100G port. Available in 50 μm OM3, OM4, and OM4+ multimode fiber with optional reversing polarity LC Uniboot, Conversion Harnesses feature a small diameter cable for dense connectivity and bend-insensitive fiber to lower risk of pinched cables. Conversion cassettes are also available in an e2XHD footprint. More information on page B46.



PRE-TERMINATED CABLE ASSEMBLIES | Harnesses > Secure Keyed LC



Secure Keyed MTP-LC Harness

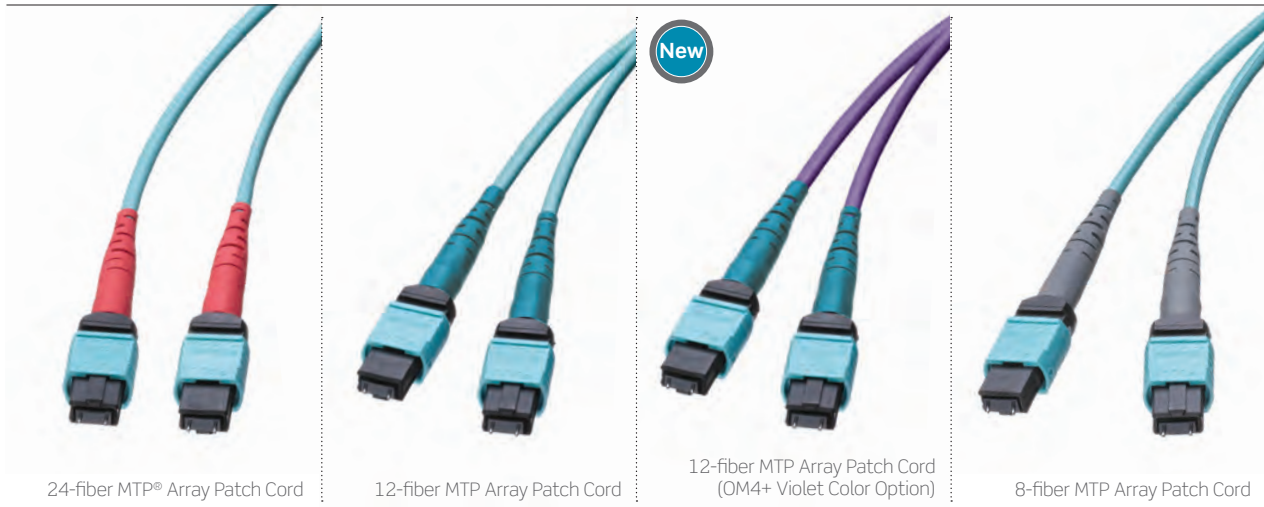
SECURE KEYED LC HARNESSSES

- Locking design prevents unauthorized and inadvertent moves, adds, and changes (MACs)
- Duplex LC connectors can only be removed with matching-color extraction tool
- Choose from eight colors to segregate and secure networks
- Duplex LC connectors plug into any industry-compliant LC adapter or interface
- Polarity is A to A
- Harnesses are part of the Leviton Make-to-Order (MTO) program

SECURE KEYED LC MTP-LC HARNESS OPTIONS					
KEYED COLOR	FIBER TYPE	FIBER COUNT	TERMINATION	CABLE LENGTH (FEET)	1ST & 2ND BREAKOUT (INCHES)
• White	• OS2	• 12	FIRST END	• 3	• 0-48
• Yellow	• OM2	• 24	• MTP (female) (standard)	• 5	
• Orange	• OM1		• MTP (male)	• 6	
• Red	• OM3		SECOND END	• 8	
• Blue	• OM4 (aqua)		• Secure Keyed LC Duplex (uni-body)	• Other	
• Green	• OM4+ (violet)				
• Slate					
• Black					

For assistance customizing your harnesses, please call Tech Support at 800.824.3005.

PRE-TERMINATED CABLE ASSEMBLIES | Opt-X® Unity 40/100G Array Cords



OPT-X UNITY 40/100G MTP ARRAY CORDS

- 50/125 µm laser-optimized multimode, OM3 and OM4
- 8-, 12-, and 24-fiber MTP array cords offer migration path from 10G to 40/100G
- Available in lengths of 1, 2, 3, 5, and 10 meters
- See page B6 for Opt-X Unity 40/100G system overview



OPT-X UNITY 40/100G MTP ARRAY CORDS, POPULAR CONFIGURATIONS

DESCRIPTION	PART NO.
MTP (female) to MTP (female), 8 fiber, Method B, OM3, 3 meters	5L8MM-B03M
MTP (female) to MTP (female), 8 fiber, Method B, OM4, 3 meters	548MM-B03M
MTP (female) to MTP (female), 8 fiber, Method A, OM3, 3 meters	5L8MM-A03M
MTP (female) to MTP (female), 8 fiber, Method A, OM4, 3 meters	548MM-A03M
MTP (female) to MTP (female), 12 fiber, Method B, OM3, 3 meters	5L2LL-B03M
MTP (female) to MTP (female), 12 fiber, Method B, OM4, 3 meters	542LL-B03M
MTP (female) to MTP (female), 12 fiber, Method A, OM3, 3 meters	5L2LL-A03M
MTP (female) to MTP (female), 12 fiber, Method A, OM4, 3 meters	542LL-A03M
MTP (female) to MTP (female), 24 fiber, Method B, OM3, 3 meters	5L4JJ-B03M
MTP (female) to MTP (female), 24 fiber, Method B, OM4, 3 meters	544JJ-B03M
MTP Connector Extender Tab (bag of 4) (see page B49)	MTPCN-EXD

Make-to-Order! OPT-X UNITY MTP ARRAY CORDS

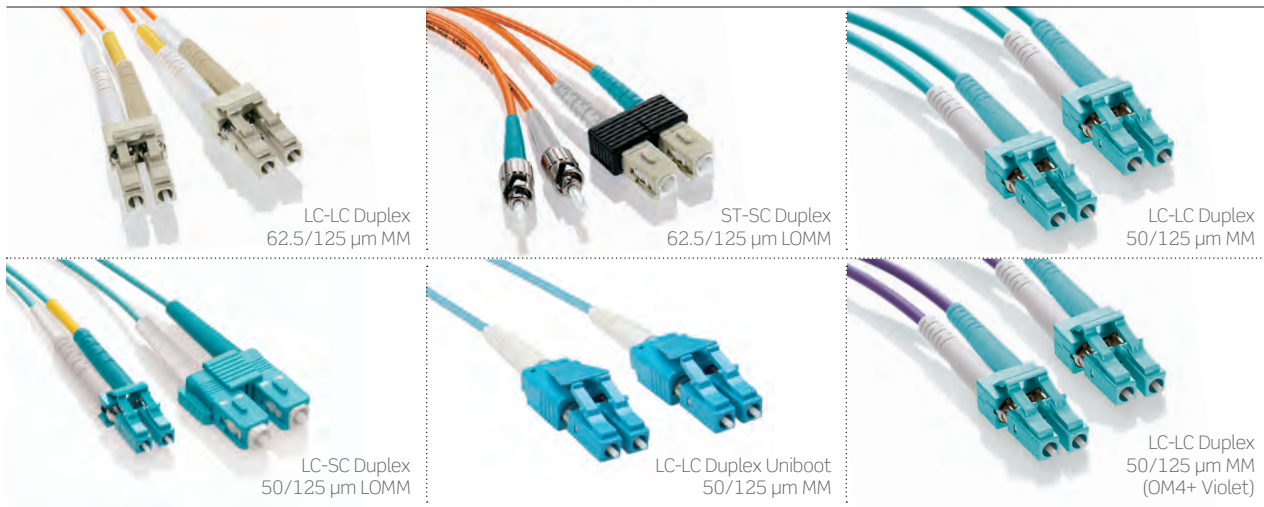
FIBER TYPE	FIBER COUNT	TERMINATION	POLARITY	CABLE LENGTH (FEET)
<ul style="list-style-type: none"> • OM3 • OM4 (aqua) • OM4+ (violet) 	<ul style="list-style-type: none"> • 8 • 12 • 24 	FIRST END <ul style="list-style-type: none"> • 8-fiber MTP (male) • 8-fiber MTP (female) • 12-fiber MTP (male) • 12-fiber MTP (female) • 24-fiber MTP (male) • 24-fiber MTP (female) 	SECOND END <ul style="list-style-type: none"> • 8-fiber MTP (male) • 8-fiber MTP (female) • 12-fiber MTP (male) • 12-fiber MTP (female) • 24-fiber MTP (male) • 24-fiber MTP (female) 	<ul style="list-style-type: none"> • 3-300 feet • 1-300 meters

For assistance customizing your array cords, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

Pre-Terminated Cable Assemblies

FIBER

PRE-TERMINATED CABLE ASSEMBLIES | Patch Cords & Pigtails > Premium



FIBER Pre-Terminated Cable Assemblies

PREMIUM PATCH CORDS

- Available in standard SC, ST, LC, or hybrid options
- Riser, plenum, and Low-Smoke Zero-Halogen (LSZH) cable options available
- < 0.25 dB insertion loss maximum, > 25 dB back reflection for multimode
- < 0.25 dB insertion loss maximum, > 55 dB (UPC)/-65 dB (APC) for single mode
- Polarity reversal LC connector option
- 100% factory tested
- Made to order with quick-turn delivery



For assistance customizing your patch cords and pigtails, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

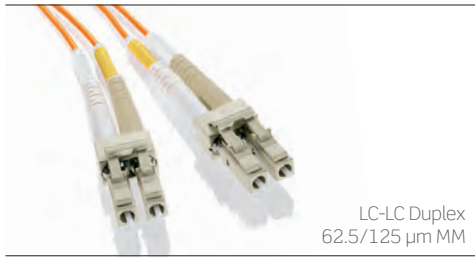
Make-to-Order! PREMIUM FIBER OPTIC PATCH CORD & PIGTAIL OPTIONS

ASSEMBLY TYPE	CORE STYLE/POLISH TYPE	CABLE RATING	CABLE TYPE	CONNECTOR TYPE (1ST AND SECOND END)	CABLE LENGTH (FEET)	POLARITY
<ul style="list-style-type: none"> • Patch Cord • Pigtail 	<p>MULTIMODE CORE</p> <ul style="list-style-type: none"> • 62.5/125 μm (OM1) • 50/125 μm (OM2) • 50/125 μm laser optimized (10G-300 m) (OM3) • 50/125 μm laser optimized (10G-550 m) (OM4) • 50/125 μm laser optimized (10G-600 m) (OM4+) <p>SINGLE-MODE CORE</p> <ul style="list-style-type: none"> • UPC Polish (ultra physical contact) • APC Polish (angle physical contact) 	<ul style="list-style-type: none"> • Riser • Plenum • LSZH • 900 micron 	<ul style="list-style-type: none"> • Simplex (1.6 mm) • Simplex (3 mm) • Duplex zipcord (1.6 mm) • Duplex zipcord (3 mm) • Round 2-fiber (2 mm) • Round 2-fiber (2.9 mm) • 900 micron buffered fiber (pigtails) 	<ul style="list-style-type: none"> • ST • SC • LC • FC • SC/APC • LC/APC • FC/APC • MU • LC Uniboot (Reversing Polarity) • Pigtail 	<ul style="list-style-type: none"> • 1-999 	<ul style="list-style-type: none"> • A-B • A-A

SPOTLIGHT LC Uniboot Polarity Reversal



LC Uniboot Polarity Reversal connector includes a finger-latch release that eliminates the need for tools when making the polarity change. It is color-coded and labeled "A" and "B" to provide visual references when making a polarity flip. The uniboot design is compatible with FOCIS-compliant duplex connectors and transceivers using the LC interface. The uniboot is available on 2.0 mm round cable, and will also support legacy applications using 2.9 mm cable.



ECONOMY MULTIMODE PATCH CORDS

- Riser rated is standard, LSZH is optional
- < 0.3 dB insertion loss maximum, > 25 dB back reflection
- 100% factory tested
- OM1, OM2, OM3, and OM4
- All cables are pre-labeled and individually bagged
- Stock available for lengths listed

62.5/125 μM MULTIMODE (OM1) OFNR DUPLEX

DESCRIPTION	LENGTH (METERS)	DUPLEX
LC-LC	1	62DLC-M01
LC-LC	2	62DLC-M02
LC-LC	3	62DLC-M03
LC-LC	5	62DLC-M05
LC-LC	10	62DLC-M10
SC-LC	1	62DCL-M01
SC-LC	2	62DCL-M02
SC-LC	3	62DCL-M03
SC-LC	5	62DCL-M05
SC-LC	10	62DCL-M10
SC-SC	1	62DSC-M01
SC-SC	2	62DSC-M02
SC-SC	3	62DSC-M03
SC-SC	5	62DSC-M05
SC-SC	10	62DSC-M10
SC-ST	1	62DCT-M01
SC-ST	2	62DCT-M02
SC-ST	3	62DCT-M03
SC-ST	5	62DCT-M05
SC-ST	10	62DCT-M10
ST-ST	1	62DST-M01
ST-ST	2	62DST-M02
ST-ST	3	62DST-M03
ST-ST	5	62DST-M05
ST-ST	10	62DST-M10

50/125 μM MULTIMODE (OM2) OFNR DUPLEX

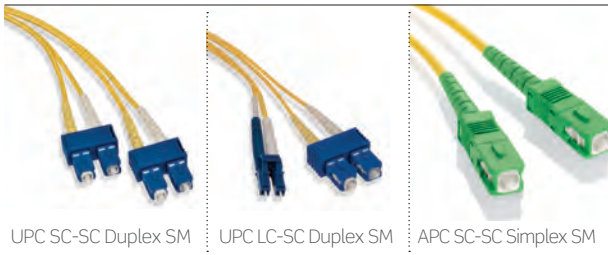
DESCRIPTION	LENGTH (METERS)	DUPLEX
LC-LC	1	50DLC-M01
LC-LC	2	50DLC-M02
LC-LC	3	50DLC-M03
LC-LC	5	50DLC-M05
LC-LC	10	50DLC-M10
SC-LC	1	50DCL-M01
SC-LC	2	50DCL-M02
SC-LC	3	50DCL-M03
SC-LC	5	50DCL-M05
SC-LC	10	50DCL-M10
SC-SC	1	50DSC-M01
SC-SC	2	50DSC-M02
SC-SC	3	50DSC-M03
SC-SC	5	50DSC-M05
SC-SC	10	50DSC-M10
ST-ST	1	50DST-M01
ST-ST	2	50DST-M02
ST-ST	3	50DST-M03
ST-ST	5	50DST-M05
ST-ST	10	50DST-M10

50/125 μM LOMM (OM3) OFNR DUPLEX

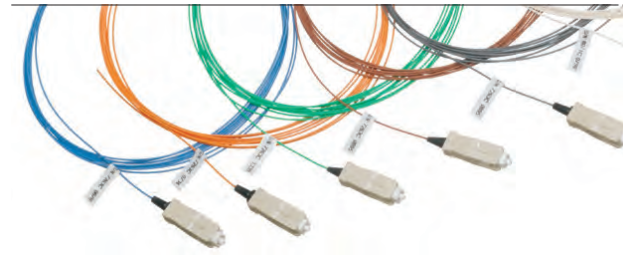
LC-LC	1	5LDLC-M01
LC-LC	2	5LDLC-M02
LC-LC	3	5LDLC-M03
LC-LC	5	5LDLC-M05
LC-LC	10	5LDLC-M10
SC-LC	1	5LDCL-M01
SC-LC	2	5LDCL-M02
SC-LC	3	5LDCL-M03
SC-LC	5	5LDCL-M05
SC-LC	10	5LDCL-M10
SC-SC	1	5LDSC-M01
SC-SC	2	5LDSC-M02
SC-SC	3	5LDSC-M03
SC-SC	5	5LDSC-M05
SC-SC	10	5LDSC-M10

50/125 μM LOMM (OM4) OFNR DUPLEX

LC-LC	1	54DLC-M01
LC-LC	3	54DLC-M03
LC-LC	5	54DLC-M05
LC-LC	10	54DLC-M10
SC-LC	1	54DCL-M01
SC-LC	3	54DCL-M03
SC-LC	5	54DCL-M05
SC-LC	10	54DCL-M10



UPC SC-SC Duplex SM UPC LC-SC Duplex SM APC SC-SC Simplex SM



ECONOMY SINGLE-MODE PATCH CORDS

- Available in standard LC, SC, ST, or hybrid options
- Riser-rated duplex zip-cord single-mode cable
- UPC or APC polish-style connectors
- < 0.3 dB insertion loss, -55 dB (UPC) / -65 dB (APC) back reflection
- Low-Smoke Zero-Halogen (LSZH) OS2 available by special order

9/125 μM SINGLE-MODE PATCH CORDS (OS2)	
DESCRIPTION	DUPLEX
LC-LC	UPDLC-S**
SC-LC	UPDCL-S**
SC-SC	UPDSC-S**
SC-ST	UPDCT-S**
ST-ST	UPDST-S**

** = Length in meters. (01), (02), (03), (05), (10)

APC SINGLE-MODE PATCH CORDS (OS2)		
DESCRIPTION	LENGTH (METERS)	SIMPLEX
SC-SC	1	APSSC-S01
SC-SC	2	APSSC-S02
SC-SC	3	APSSC-S03
SC-SC	5	APSSC-S05
SC-SC	10	APSSC-S10

Contact inside sales at 800.722.2082 for 6-fiber pigtail kits, other configurations, or custom lengths.

ECONOMY PIGTAILS

- Available in LC, SC, or ST connector styles
- Multimode, laser-optimized multimode, or single-mode fiber types
- Stock available for white 900um buffer in 3 meter length
- Application use: fusion or mechanical splicing
- 12-fiber color-coded pigtail kit, colors per ANSI/TIA-598-C

MULTIMODE PIGTAIL - SIMPLEX (3 METERS)	
DESCRIPTION	PART NO.
LC 62.5/125 μm, OM1	62PLC-M03
SC 62.5/125 μm, OM1	62PSC-M03
ST 62.5/125 μm, OM1	62PST-M03
LC 50/125 μm, OM2	50PLC-M03
SC 50/125 μm, OM2	50PSC-M03
ST 50/125 μm, OM2	50PST-M03
LC 50/125 μm, LOMM, OM3	5LPLC-M03
SC 50/125 μm, LOMM, OM3	5LPSC-M03
ST 50/125 μm, LOMM, OM3	5LPST-M03
LC 50/125, LOMM, OM4	54PLC-M03

12-FIBER INDIVIDUAL COLOR-CODED PIGTAIL KITS (3 METERS)	
LC 62.5/125 μm, OM1	62PLC-KIT
LC 50/125 μm, OM2	50PLC-KIT
LC 50/125 μm LOMM, OM3	5LPLC-KIT
LC 50/125 μm LOMM, OM4	54PLC-KIT
SC 62.5/125 μm, OM1	62PSC-KIT
SC 50/125 μm, OM2	50PSC-KIT
SC 50/125 μm LOMM, OM3	5LPSC-KIT
ST 62.5/125 μm, OM1	62PST-KIT
ST 50/125 μm, OM2	50PST-KIT
LC UPC Polish SM, OS2	UPPLC-KIT
SC UPC Polish SM, OS2	UPPSC-KIT

SINGLE-MODE PIGTAIL - SIMPLEX (3 METERS)	
LC UPC polish	UPPLC-S03
SC UPC polish	UPPSC-S03
ST UPC polish	UPPST-S03
LC APC polish	APPLC-S03
SC APC polish	APPSC-S03

PRE-TERMINATED CABLE ASSEMBLIES | Patch Cords & Pigtails > Secure Patch Cords



Secure Keyed LC to Secure Keyed LC, 50/125 µm LOMM



Single-Mode Pigtail SC UPC Polish



Secure Keyed SC/APC Patch Cord and Extraction Tool

SECURE KEYED LC PATCH CORDS & PIGTAILS

- Locking design prevents unauthorized and inadvertent moves, adds, and changes (MACs)
- Duplex LC connectors can only be removed with matching-color extraction tool
- Duplex LC connector plugs into any industry-compliant LC adapter or interface
- All connectors are heat cured and use ceramic ferrules for optimal performance



Please see page B64 for Secure LC Protection Plugs and Extraction Tools.

Make-to-Order! SECURE KEYED LC & SC/APC FIBER PATCH CORD & PIGTAIL OPTIONS

FIBER TYPE	KEYED COLOR	CABLE TYPE / POLARITY	TERMINATION	CABLE LENGTH (FEET)
<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4 (aqua) • OS2 (UPC) • OS2 (APC) 	<ul style="list-style-type: none"> • White • Yellow • Orange • Red • Blue • Green • Slate • Black 	<ul style="list-style-type: none"> • Duplex Riser-Rated A to B Polarity • Duplex Plenum-Rated A to B Polarity • Duplex Riser-Rated A to A Polarity • Duplex Plenum-Rated A to A Polarity • 900 micron tight buffer cable • Simplex riser-rated A to A Polarity 	<p>FIRST END</p> <ul style="list-style-type: none"> • Keyed Duplex LC (uniboot) • Keyed Simplex SC <p>SECOND END</p> <ul style="list-style-type: none"> • Keyed Duplex LC (uniboot) • Keyed Simplex SC • Duplex LC (uniboot) • Standard LC (duplex clips) • SC • ST • MU • MT-RJ • FC • Pigtail 	<ul style="list-style-type: none"> • 1-999

For assistance customizing your patch cords and pigtails, please visit Leviton.com/configurator or call 800.824.3005.

SECURE KEYED SC/APC PATCH CORDS

- Ideal for FTTX, enterprise GPON, and government or military networks
- Secure design prevents unauthorized MACs
- Cords can only be removed with matching color extraction tool
- Simplex SC/APC cords plug into industry-compliant SC adapters
- A-A polarity

SECURE KEYED SC/APC PATCH CORDS

DESCRIPTION	PART NO.
Secure SC/APC Patch Cord, plenum, OS2, white tab	AWSP-P-Mxx
Secure SC/APC Patch Cord, plenum, OS2, yellow tab	AYSP-P-Mxx
Secure SC/APC Patch Cord, plenum, OS2, red tab	ARSP-P-Mxx
Secure SC/APC Patch Cord, plenum, OS2, black tab	AESP-P-Mxx
SC/APC Port Blocker	PPRTN-*SC
SC/APC Extraction Tool	ETRTN-*SC

* = Colors: (W) White, (Y) Yellow, (R) Red, (B) Black
xx = Patch cord length in meters

NEW



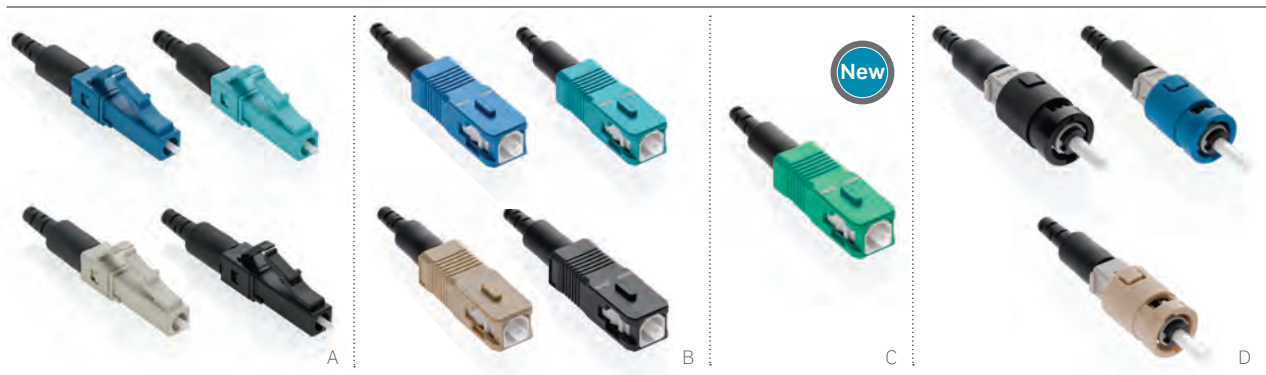
Connectors & Housings

Leviton has everything you need to properly terminate your fiber network. FastCAM® and Fast-Cure® connectors are available in LC, SC, and ST styles. Secure Keyed LC Field-Installable Connectors lock into any industry-compliant adapters and prevent unauthorized moves, adds, and changes (MACs). To extend fiber to the workstation, we also offer QuickPort® footprint fiber adapters that fit into our standard wallplates and Multimedia Outlet System (MOS) housings. Go to the Wallplates & Housings section to see our an extensive wallplate selection.

FEATURED PRODUCTS

FastCAM® Connectors **B62**

Secure Keyed LC Connectors & Accessories **B64**



FASTCAM CONNECTORS

- Pre-polished, field-installable connectors
- Use precision zirconia ferrules
- Require no polishing or epoxy curing; provide immediate termination
- Precision mechanical termination uses molded v-groove technology to retain and align the fiber
- Terminated on 250 µm or 900 µm buffered fiber and/or 2 or 3 mm jacketed fiber
- Higher yields with Visual Fault Locator (VFL) compatible LC, SC, and ST connectors
- Available in OM1, OM2, OM3, OM4, OS2 UPC, and OS2 APC (SC only)



FASTCAM CONNECTORS - 1 PER BAG

DESCRIPTION	OS2 SINGLE-MODE	OM1 MULTIMODE	OM2 MULTIMODE	OM3 & OM4 LO MULTIMODE
[A] LC FastCAM Connector	49991-SLC (blue)	49991-MLC (beige)	49991-5LC (black)	49991-LLC (aqua)
[B] SC FastCAM Connector	49991-SSC (blue)	49991-MSC (beige)	49991-5SC (black)	49991-LSC (aqua)
[C] SC/APC FastCAM Connector*	49991-ASC (green)			
[D] ST FastCAM Connector	49991-SST (blue)	49991-MST (beige)	49991-5ST (black)	—

FASTCAM ACCESSORIES

FastCAM LC Duplex Clips^	49991-CLP	49991-CLP	49991-CLP	49991-CLP
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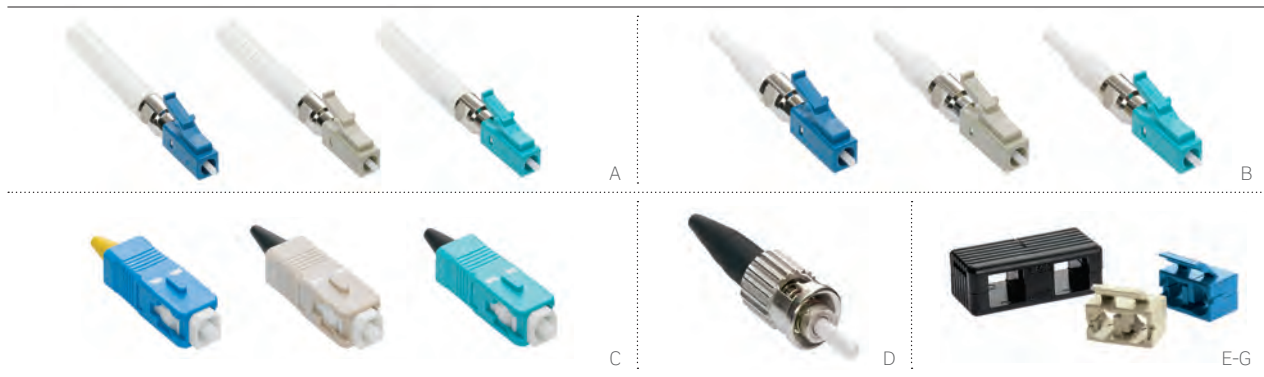
^ = Minimum order quantity and lead times may apply.
 See pages B69-B72 for FastCAM tools and consumables.
 * Use APC Angled Cleaver (page B71).

SPOTLIGHT Visual Fault Locator (VFL)



The Leviton Visual Fault Locator (VFL) uses a bright red laser to locate faults in optical fiber, such as bends, breaks, and defective connectors. Included with each VFL are a 2.5 mm ferrule interface, 1.25 mm adapter, and soft carrying case. Use with LC, SC, and ST FastCAM connectors.





FAST-CURE CONNECTORS

- Anaerobic adhesive-style, field-installable connectors
- Hand polishing required
- Most robust connection, ideal for inside and outside plant applications
- Available in LC, SC, and ST connector styles
- 900 μm and 3-mm boots included with SC and ST connectors



FAST-CURE ADHESIVE CONNECTORS

DESCRIPTION	OS2 SINGLE-MODE	OM1 & OM2 MULTIMODE	OM3 & OM4 LO MULTIMODE
[A] LC Fast-Cure Connector with 2 and 3 mm boot	49990-SL2 (blue)	49990-ML2 (beige)	49990-LL2 (aqua)
[B] LC Fast-Cure Connector with 900 μm boot	49990-SDL (blue)	49990-MDL (beige)	49990-LDL (aqua)
[C] SC Fast-Cure Connector	49990-SSC (blue)	49990-MSC (beige)	49990-LSC (aqua)
[D] ST Fast-Cure Connector	49990-SST	49990-MST	—

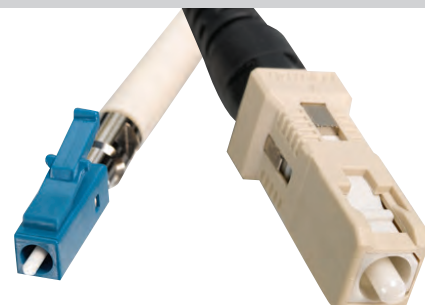
FAST-CURE ACCESSORIES

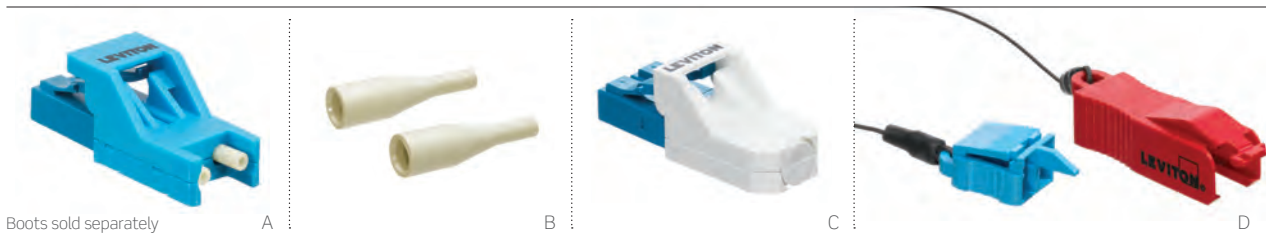
[E] SC Duplex Clip for Fast-Cure Connector, black (bag of 25)	49886-DSC	49886-DSC	49886-DSC
[F] LC Duplex Clip for Fast-Cure Connector, beige (bag of 25)	—	49886-DLM	49886-DLM
[G] LC Duplex Clip for Fast-Cure Connector, blue (bag of 25)	49886-DLS	—	—

See pages B69-B72 for Fast-Cure tools and consumables.

SPOTLIGHT Ceramic vs. Polymer Ferrules

Fiber optic ferrules, which ensure accurate alignment of fiber-to-fiber core interfaces, can be constructed of zirconia ceramic or polymer composites. While the two materials offer comparable performance in several areas, ceramic ferrules are superior in the key attributes of reliability (withstanding day-to-day environmental stressors) and durability (withstanding repeated matings/MACs). Leviton builds its connectors using only ceramic ferrules, so our customers can be assured of the best fiber connector performance in any application.





SECURE KEYED LC CONNECTORS & SYSTEM ACCESSORIES

- Field-installable duplex LC connectors lock into any industry-compliant LC adapter or interface
- Locking connectors can only be removed with matching-color extraction tool
- Anaerobic adhesive-style, requires hand polishing (see page B70 for Polishing Tool Kit 49800-FTK)
- 900 µm boots identify fiber type
- Port protection plugs enable unused LC ports to be locked
- Dust caps protect connectors upon removal from a port, promoting good fiber discipline

Secure Keyed LC system also includes trunk cables (page B52), harnesses (page B55), patch cords and pigtails (page B60).

SECURED KEYED LC ASSEMBLY VIDEO

Watch the training video at Leviton.com/ns/videos: "How to Assemble Leviton's Secure Keyed LC Connector Housing."

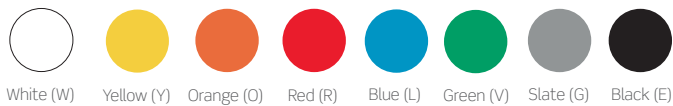
SECURE KEYED LC FIELD-INSTALLABLE CONNECTORS

DESCRIPTION	PART NO.
[A] Secure Keyed LC Field-Installable Connector, 900 µm, MM/SM (boot sold separately)	4999K-xLC
[B] 900 µm Boots (bag of 50)	4999K-***

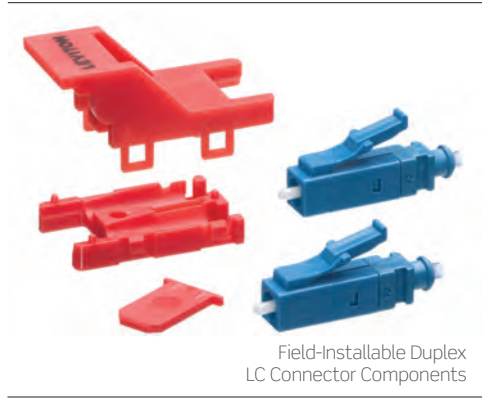
SECURE KEYED LC ACCESSORIES

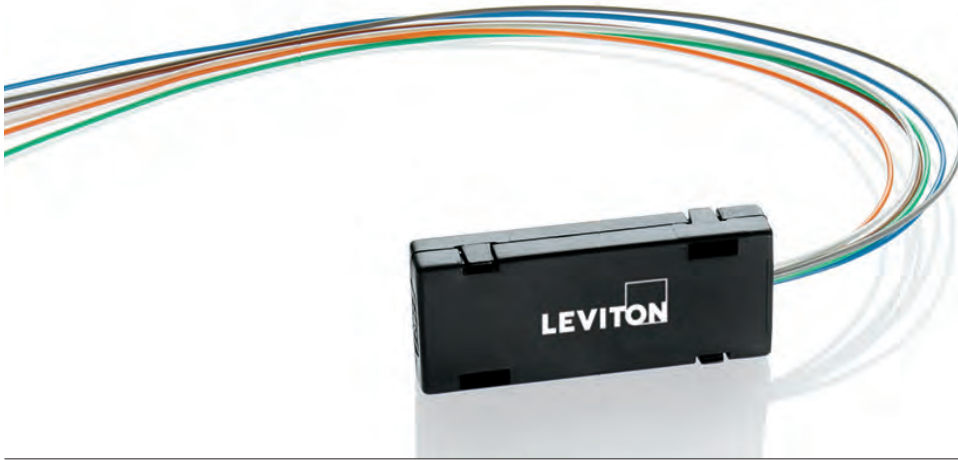
[C] Port Protection Plug w/ Dust Cap	PPRTN-xLG
[D] Extraction Tool w/ Dust Cap	ETRTN-xTL
Dust Caps (bag of 10)	DUSTK-CAP

x = colors: Choose from any of the colors below.



*** = Beige (BGE), Black (BLK), Aqua (AQU), Blue (BLU)





A

FIBER OPTIC FAN-OUT KITS

- Protect bare fiber and prepare loose-tube cable for direct termination to industry-standard connectors
- Separate 250 μm fibers and route into color-coded 900 μm buffer tubes with no proprietary tools
- Available in 6- or 12-strand kits and 24" or 36" lengths
- Works with cabling from any manufacturer (will accommodate buffer-tube diameter up to 3.5 mm max)

FIBER OPTIC FAN-OUT KITS	
DESCRIPTION	PART NO.
[A] 24" Fiber Optic Fan-Out Kit, 6 fiber	49887-06S
24" Fiber Optic Fan-Out Kit, 12 fiber	49887-12S
36" Fiber Optic Fan-Out Kit, 6 fiber	49887-06L
36" Fiber Optic Fan-Out Kit, 12 fiber	49887-12L
Fan-Out Consumables Kit	49800-FAN



FAN-OUT KIT TERMINATION VIDEO



To learn more, watch a termination demonstration at Leviton.com/ns/videos.

CONNECTORS & HOUSINGS | QuickPort® Adapters



Connectors & Housings

FIBER

QUICKPORT FIBER ADAPTERS

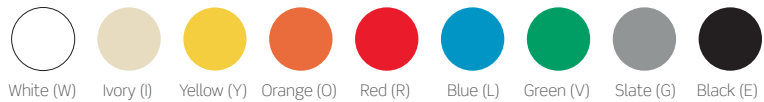
- Snap into all QuickPort openings and Multimedia Outlet System (MOS) housings, see pages D4-D10.
- Tool-free plug-n-play installation
- Offered with precision phosphor bronze or zirconia ceramic alignment sleeve

QUICKPORT FIBER ADAPTERS ^

DESCRIPTION	PART NO.
[A] QuickPort Duplex LC Adapter, MM, phosphor bronze sleeve, beige	41085-ML°
[B] QuickPort Duplex LC Adapter, 10G LOMM, zirconia ceramic sleeve, aqua	41085-LL°
[C] QuickPort Duplex LC Adapter, SM, zirconia ceramic sleeve, blue	41085-SL°
[D] QuickPort Simplex SC Adapter, MM, phosphor bronze sleeve, female front/back	41085-M*C
QuickPort Simplex SC Adapter, SM, zirconia ceramic, female front/back	41085-S*C
[E] QuickPort Simplex SC/APC Adapter, SM, zirconia ceramic, female front/back	41085-AS°
[F] QuickPort ST Fiber Optic Adapter, MM, phosphor bronze sleeve	41084-S*F
QuickPort ST Fiber Optic Adapter, SM, zirconia ceramic sleeve	41084-S*Z
[G] MTP® QuickPort Adapter, SM/MM	41085-TP*

^ = Minimum order quantity and lead times may apply.
 * = Colors: Choose from any of the colors below.

Some adapters are Make-to-Order, contact Inside Sales at 800.824.3005 for ordering information.
 ° = Colors: Choose from any of the colors below.



SPOTLIGHT QuickPort Wallplates



QuickPort adapters are designed to fit our complete line of QuickPort wallplates found on pages D4-D6.



FEATURED PRODUCTS

Visual Fault Locator (VFL) **B71**

Opt-X Cleaver **B71**

Tools & Consumables

Different termination types require unique tools. Leviton has everything you need to terminate Fast-Cure® (adhesive polish) and FastCAM® (pre-polished) connectors. We also offer cleaning tools for LC, SC, and MTP® connectors. Choose from complete kits, or mix and match individual tools and a wide variety of consumables.

VISUAL FAULT LOCATOR (VFL)

Quickly locate optical fiber damage with the Leviton Visual Fault Locator (VFL). The pocket-sized tool uses a bright red laser to locate faults, including tight bends, breaks, and defective connectors. Included with each VFL are a 2.5 mm ferrule interface, 1.25 mm adapter, and soft carrying case. Use with FastCAM® LC and SC connectors for enhanced terminations. See page B71 for part numbers.

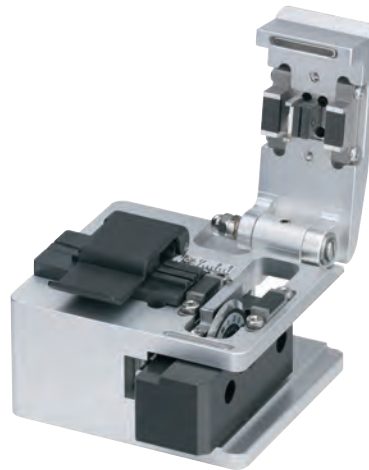


LEVITON 200X INSPECTION SCOPES

Reduce the chances of over-polishing with Leviton's high-powered inspection scopes. View single-mode and multimode end-face polishes safely with our oblique viewing technology; full laser eye protection is provided through wavelengths of 850 - 1550 nanometers (nm). Rugged metal and rubber construction stands up to job-site abuse while offering an ergonomic grip. See page B71.

FASTCAM TERMINATION TOOLS

FastCAM terminations and fusion splicing both require precision cleaving. Get the accuracy you need with the Opt-X Cleaver. A cleave angle of 90° +/- .5° is guaranteed; the 16-position blade remains sharp through approximately 48,000 cleaves. Clean-up is eliminated with the built-in waste holder. For a self-contained workspace, mount the Opt-X Cleaver to the optional work tray and use the gooseneck LED for task lighting. The Leviton APC Angled Cleaver is recommended for APC single-mode FastCAM connectors. See page B71.



ONLINE TRAINING VIDEOS & ANIMATIONS

Increase your expertise with Leviton's online fiber training. Animated, step-by-step instructions on terminating FastCAM 250 µm or 900 µm fiber, using our fan-out kits, or terminating Fast-Cure® connectors, are all available with just a click of the mouse. All of Leviton's training animations feature clear, easy-to-understand graphics paired with on-screen written instructions for maximum effectiveness. Visit Leviton.com/support.





A



B



C

FIBER OPTIC LIGHT TOOL KIT

- Essential tool set for quick field-termination of Fast-Cure® connectors
- Terminates both multimode and single-mode fiber

FIBER OPTIC FAST-CURE TOOL KIT

- All the tools you need for terminating multimode or single-mode LC, SC, or ST Fast-Cure adhesive connectors
- Adhesive/accelerator kit sold separately, see page B72

FIBER OPTIC FASTCAM® TOOL KIT

- Precision cleaving for guaranteed FastCAM connector performance
- Terminates both multimode and single-mode fiber

Consumables sold separately. See page B72.

TOOLS & CONSUMABLES | Fiber Optic Tool Kits

FIBER OPTIC TOOL KITS CONTENTS	LIGHT TOOL KIT 49800-MTK	FAST-CURE® TOOL KIT 49800-FTK	FASTCAM® TOOL KIT 49800-MSK
Standard Tool Kit Carrying Case	•		
250 µm Buffer Remover		•	
900 µm Buffer Remover	•	•	•
Jacket Stripper	•	•	
Aramid Strand Scissors	•	•	
Safety Glasses		•	
Sapphire Scribe	•	•	
2.5 mm Polishing Puck	•	•	
3" x 6" Polishing Pad	•	•	
ST/SC Combination Tightening Tool	•		
Opt-X Cleaver			•
100x Inspection Scope	•		
200x Inspection Scope		•	
Piano Wire		•	
Lint-Free Dry Wipes		•	•
Alcohol Pads		•	•
12 µm Aluminum-Oxide Lapping Film		•	
3 µm Aluminum-Oxide Lapping Film		•	
0.3 µm Aluminum-Oxide Lapping Film		•	
Crimp Tool		•	
LC Scope Adapter		•	
LC Polishing Puck		•	

FIBER OPTIC TOOL KITS	
DESCRIPTION	PART NO.
[A] Light Tool Kit	49800-MTK
[B] Fast-Cure Tool Kit	49800-FTK
[C] FastCAM Tool Kit w/ Opt-X Cleaver [^]	49800-APC
FastCAM Tool Kit w/ Opt-X Cleaver, work tray, and LED light [^]	49800-LAK
FastCAM Tool Kit w/ CT-30A Cleaver (cleaver shown on page B71)	49800-SMK

[^] = Minimum order quantity and lead times may apply.

Individual consumables available on page B72.

Note: Adhesive/accelerator tool kit sold separately. See page B72.

TOOLS & CONSUMABLES | Fiber Optic Tools



UNIVERSAL TOOLS & ACCESSORIES		
DESCRIPTION	PART NO.	
[A] 250 and 900 μm Buffer Remover (yellow handle)	49886-BR2	
[B] 900 μm Buffer Remover (red handle)	49886-BR9	
[C] Jacket Stripper	49886-STP	
[D] Aramid Strand Scissors	49886-SIS	
Sapphire Scribe	49886-SCR	
1.25 mm (LC) Polishing Puck	49886-LCP	
2.5 mm (SC/ST) Polishing Puck	49886-PUC	
3" x 6" Polishing Pad	49886-PAD	
Opt-X® Tool Kit Carrying Case	49886-CSE	
Safety Pad	49886-SPD	
200x Inspection Scope	49886-FSP	
LC Scope Adapter (works w/ 200x scope only)	49886-LCS	
Duplex LC Scope Adapter (works w/ 200x scope only)	49886-LCD	
MTP® Scope Adapter (works w/ 200x scope only)	49886-MCS	
Fiber Optic Crimp Tool with .128/.151/.178 hex die	49886-FCT	
Tool Kit Carrying Case	49886-FCC	
[E] MTP Cassette Cleaning Tool	49886-MCT	
MTP Cassette Cleaning Tool Refill (male)	49886-MCR	
[F] LC Connector Cleaning Tool	49886-LCT	
[G] SC Connector Cleaning Tool	49886-SCT	
[H] MTP Connector Cleaning Tool (female)	49886-UFT	
MTP Connector Cleaning Tool (male)	49886-UMT	

FASTCAM® SPECIFIC TOOLS		
[I] Work Tray^	49886-LNT	
[J] Gooseneck LED^	49886-LGN	
[K] APC Angled Cleaver	49886-APC	
[L] Opt-X® Cleaver	49886-LNX	
[M] Fujikura CT-30A Cleaver^	49886-CTA	
[N] Visual Fault Locator (VFL) (2.5 and 1.25 mm adapters included)	49886-VFL	
Replacement 1.25 mm Adapter for VFL	49886-FLA	

^ = Minimum order quantity and lead times may apply.



UNIVERSAL CONSUMABLES KIT

All the basic supplies needed to clean and polish fiber optic connectors. Set includes:

- 50 lint-free dry wipes
- 50 alcohol pads
- 30 sheets 12 µm lapping film
- 30 sheets 3 µm lapping film
- 30 sheets 0.3 µm lapping film
- Piano wire

ADHESIVE/ACCELERATOR KIT

Set includes:

- Loctite 680 adhesive
- Loctite 7649 accelerator with syringe
- Two needles
- Will do approximately 200 terminations

FAST-CURE® CONSUMABLES KIT

Everything from the Universal Kit, plus specialized supplies for Fast-Cure terminations. Additional included items:

- 25 syringes
- 25 needles
- Adhesive and accelerator
- Will do approximately 200 terminations

FAN-OUT CONSUMABLES KIT

Kit terminates a minimum of 10 Fiber Optic Fan-Out Kits.

Set includes:

- 20 lint-free dry wipes
- 10 alcohol pads
- 10 D'Gel® packets
- Sealant
- Talc powder

CONSUMABLES KITS

DESCRIPTION	PART NO.
[A] Universal Consumables Kit	49800-CON
[B] Fast-Cure Consumables Kit	49800-FCC
[C] Adhesive/Accelerator Kit	49800-680
[D] Fan-Out Consumables Kit	49800-FAN

CONSUMABLES

Piano Wire	49886-WRE
Lint-Free Dry Wipes (100 per pack)	49886-DWP
Alcohol Pads (100 per pack)	49886-APD
12 µm Aluminum-Oxide Lapping Film, pink (100 per pack)	49886-12F
3 µm Aluminum-Oxide Lapping Film, yellow (100 per pack)	49886-03F
0.3 µm Aluminum-Oxide Lapping Film, light blue (100 per pack)	49886-X3F
Replacement Needles (25 per pack)	49886-FCN
Replacement Syringes (25 per pack)	49886-SYR



AUDIO & VIDEO SOLUTIONS



SECTION

C



SECTION C CONTENTS

AV SOLUTIONS	C3	Introduction
	C5	Connection Diagrams
	C9	IT/AV System
	C11	AV Signal Extension
	C14	AV Connectors & Adapters
	C17	Multimedia Outlet Systems
	C21	Speakers
	C24	Volume Controls & Audio Distribution Modules
	C25	Home Theater & Recessed Devices
	C27	BitWise Integrated Controllers



FEATURED PRODUCTS

AV Signal Extension **C11-C13**

AV Solutions

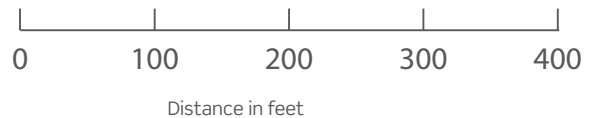
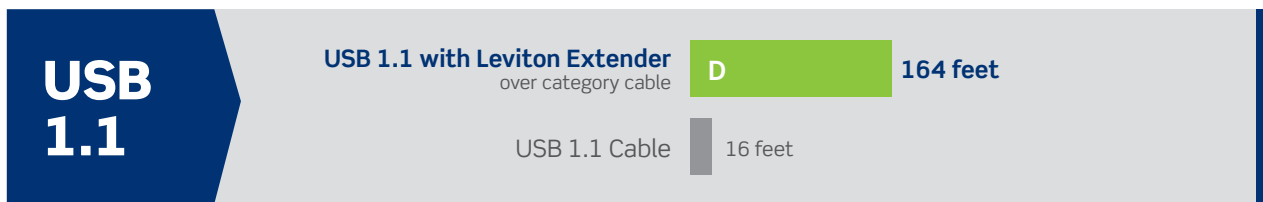
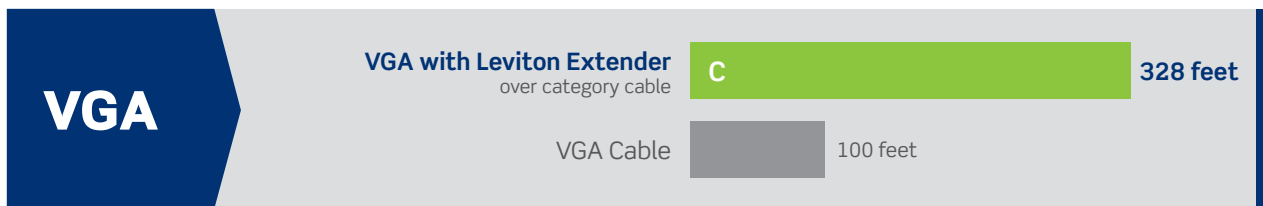
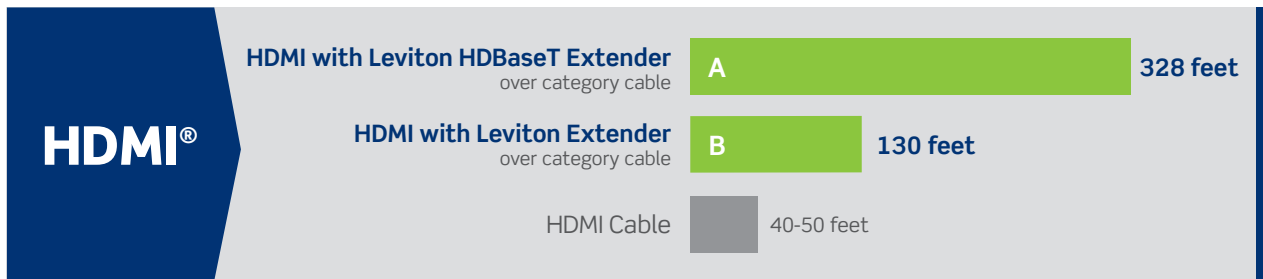
Deliver the high-quality audio and video required for today's technologies with Leviton AV signal extenders, connectivity, speakers, volume controls, and distribution modules. Our new signal extenders provide long distance transmission of HD video over easy-to-install category cable. Connectors and adapters come in dozens of styles, including HDMI, USB, and more.

Leviton indoor, outdoor, and home theater speakers bring a professional sound experience to the commercial space.

EXTENDING HIGH QUALITY AV SIGNALS OVER CATEGORY CABLE

Deliver the high-quality audio and video required for today's technologies with Leviton IT/AV Systems, which include signal extenders for long distance transmission of HD video. We offer extenders for a variety of connection types that increase cable distance and retain high signal performance.

Below are recommended maximum lengths for different AV cables, compared to maximum lengths using Leviton extenders:



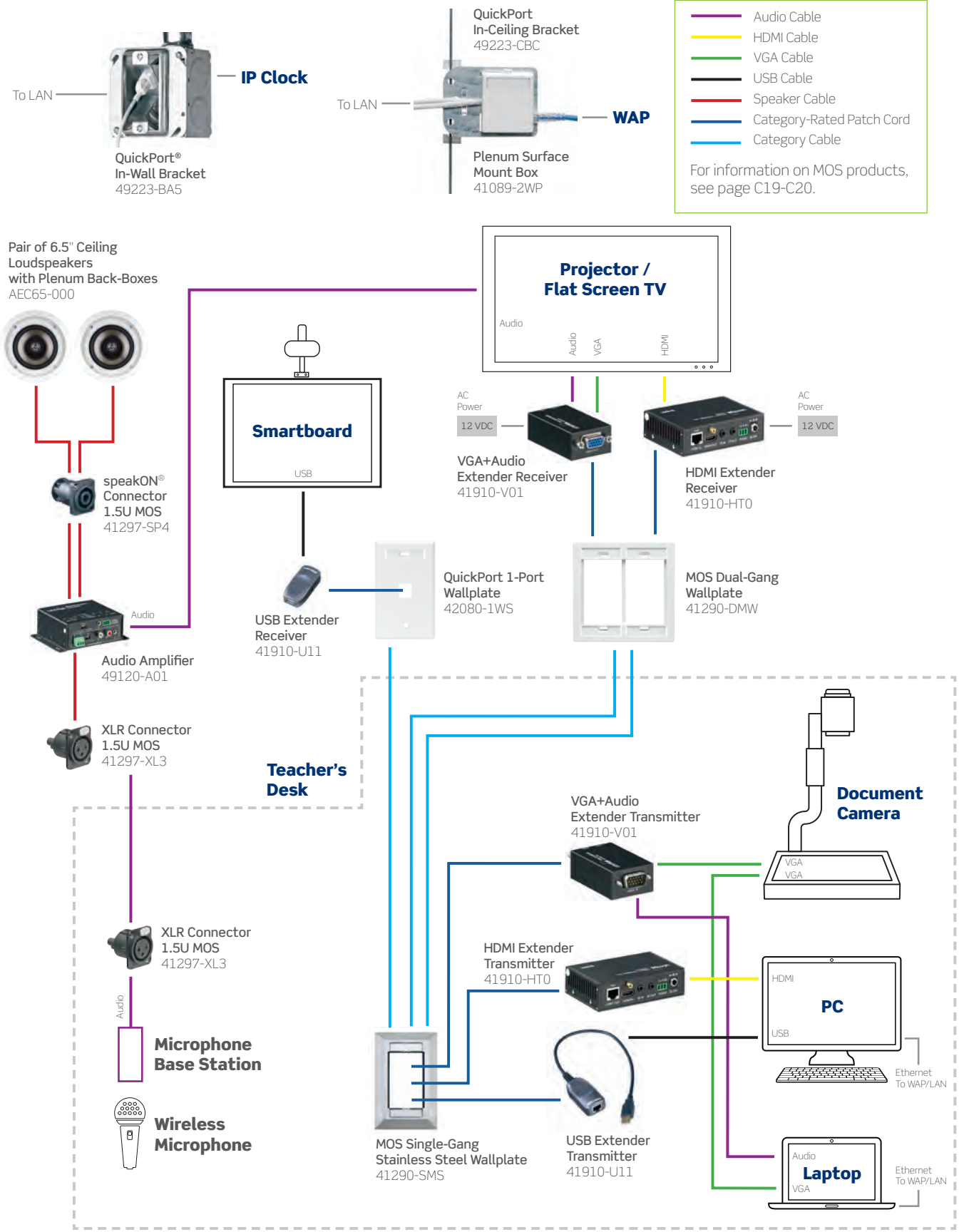
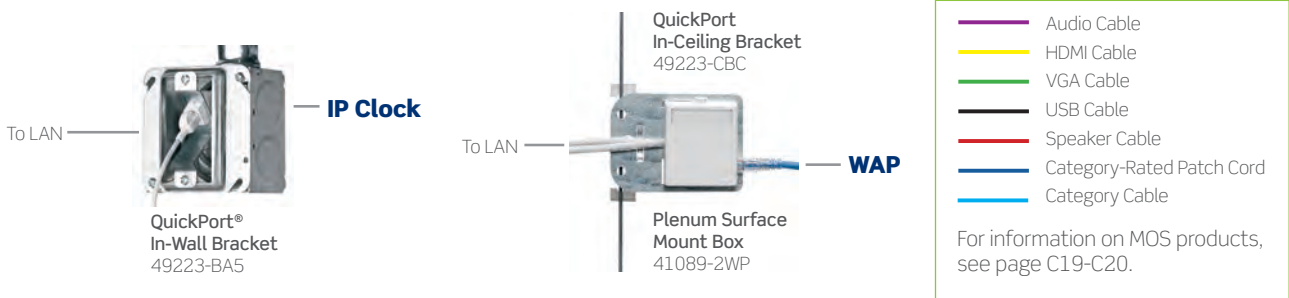
Signal Extension

AV SOLUTIONS



CLASSROOM APPLICATION

Today's classrooms have evolved from chalkboards and overhead projectors to using connected tools like interactive whiteboards and document cameras. Leviton solutions allow contractors to easily extend HDMI, VGA, and USB signals from teachers' desks to the latest devices anywhere in the room, all networked over easy-to-install category-rated cable. These solutions help ensure a quality learning environment throughout all types of learning areas, including lecture halls, libraries, and computer labs, and they prepare schools for more advanced technologies to come. See the following page for typical classroom AV applications with Leviton solutions.



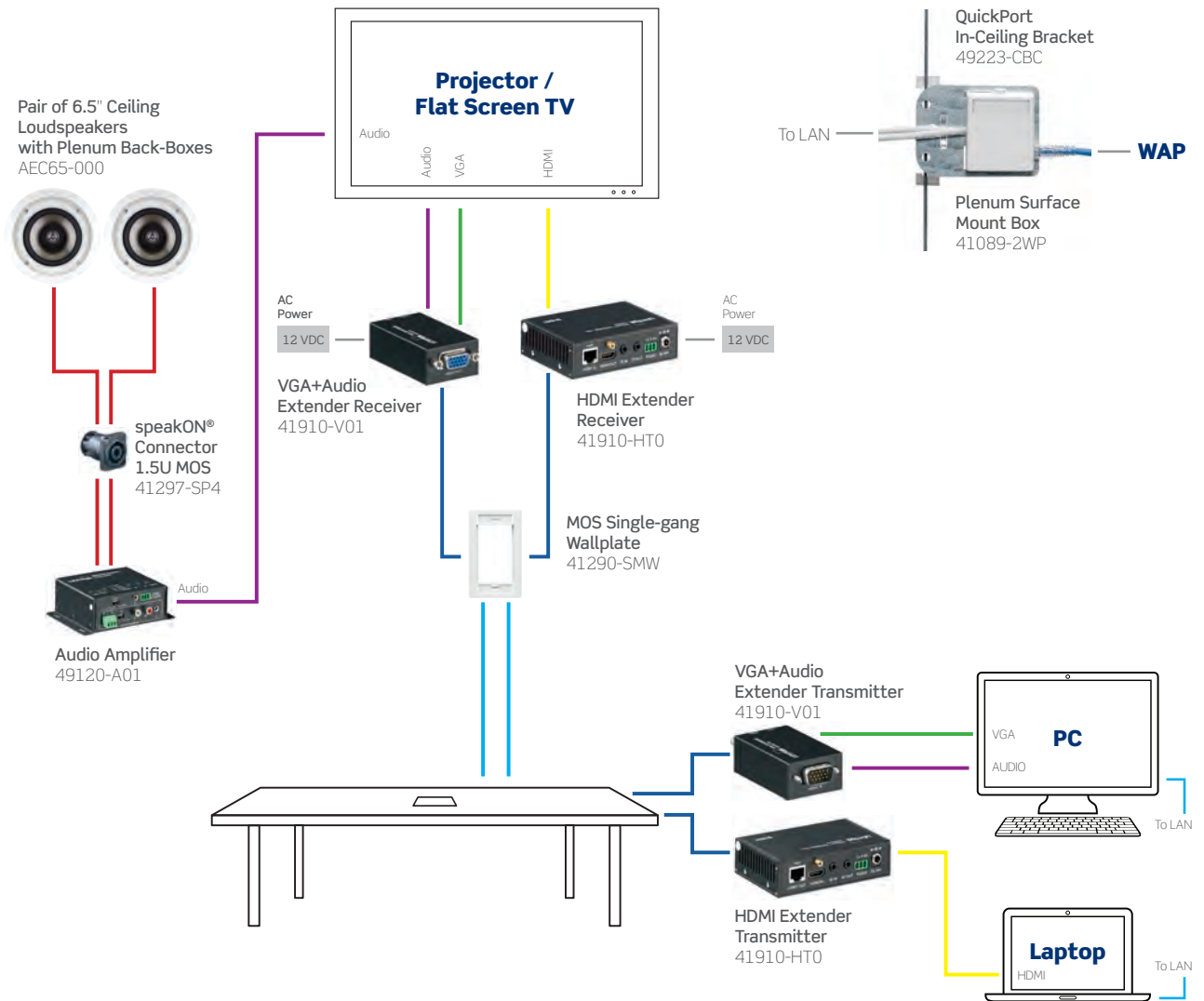


CONFERENCE ROOM APPLICATION

The best AV installations for conference rooms can adapt to handle future multimedia devices while maintaining a low profile in the room. With help from Leviton AV Signal Extenders, audio amplification, and in-ceiling connectivity for wireless access points — all connected over versatile category-rated cable — you create extra flexibility and a clean look in business, school, or hotel conference rooms. See the following page for typical conference room AV applications with Leviton solutions.

- Audio Cable
- HDMI Cable
- VGA Cable
- Speaker Cable
- Category-Rated Patch Cord
- Cat 5e/6/6A Cable

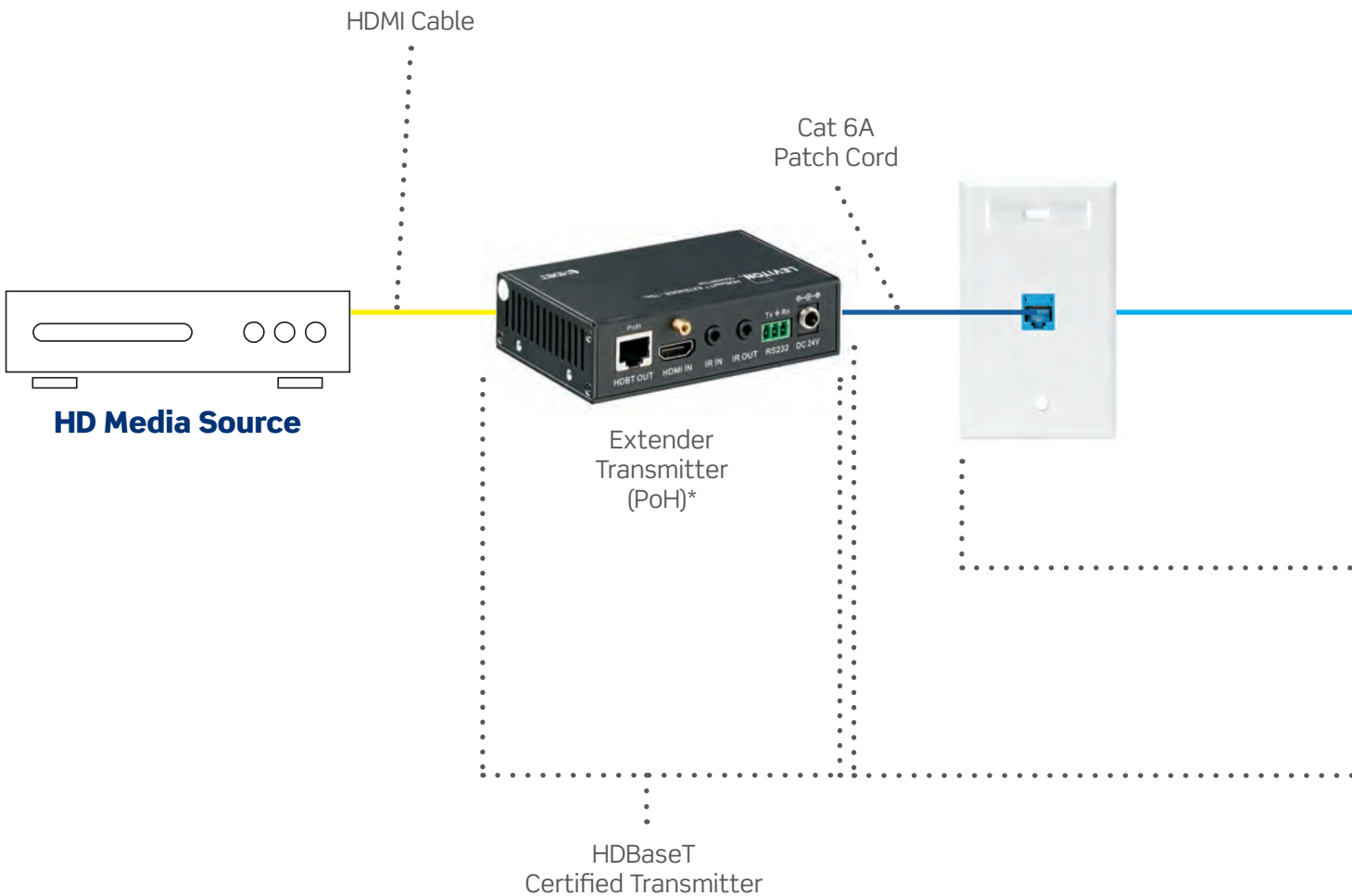
For information on MOS products, see page C19-C20.



END-TO-END TESTED AND CERTIFIED AV SYSTEMS

The increasing convergence of AV and data networks has positioned low-voltage, BICSI RCDD contractors as the next generation of AV integrators. Leviton's new IT/AV systems help these contractors be the AV experts for their customers and use an easy-to-install solution that requires little-to-no training.

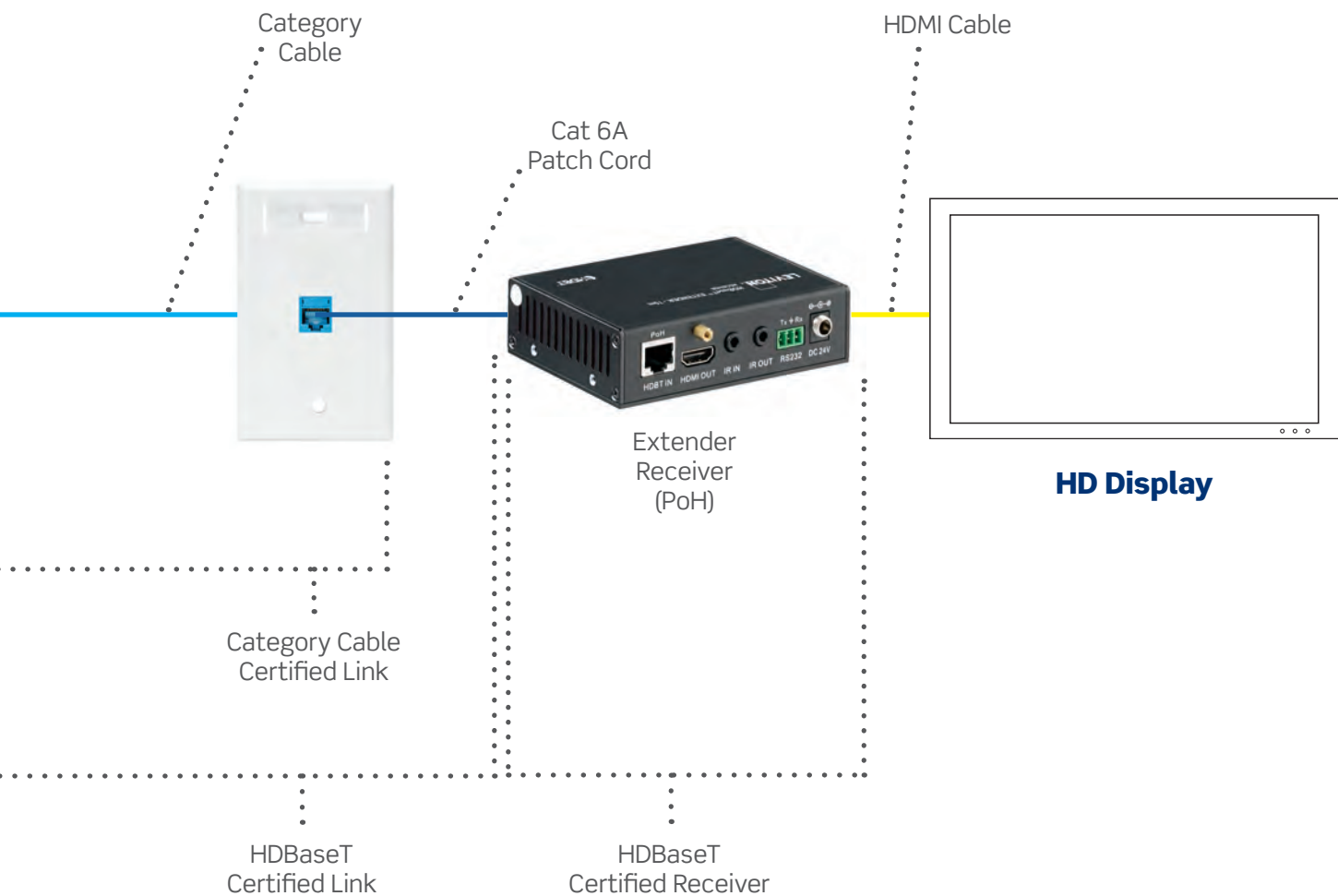
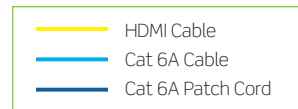
An IT/AV System combines Leviton HDBaseT™ HDMI® Extenders, Atlas-X1 Cat 6A connectivity and approved Cat 6A cable and patch cords for a complete end-to-end solution. The Cat 6A infrastructure link can be installed, tested, and verified like any other Cat 6A 10GBASE-T link. This system is also certified to HDBaseT Alliance standards.



*PoH = Power Over HDBaseT

HDBaseT certification offers important benefits:

- System longevity capable of supporting future HD video signal performance requirements
- Installation and testing using the same tools used for datacom infrastructure
- Peace of mind that comes from third-party verification and certification of AV signal transmission performance
- Compatibility with other manufacturer's equipment supporting the same HDBaseT features
- Limited lifetime warranty on the structured cabling system when installed by a Leviton certified contractor





Transmitter



Transmitter



Receiver



Receiver



Receiver



A

B

D

HDBaseT EXTENDER TRANSMITTERS & RECEIVERS

HDBaseT twisted pair extenders with PoH (Power over HDBaseT) deliver high performance HDMI, Ethernet, IR, and RS232 signals for classrooms, conference rooms, command centers, restaurants, home cinemas, and more. The paired transmitter and receiver require only one power adapter that can be connected at either the source or display end. HDBaseT certification ensures compatibility with other HDBaseT certified products.

- Class A Extenders (41910-HTE) deliver 328 ft (100 m) transmission for HDMI, Ethernet, bi-directional IR, RS232
- Class B Extenders (41910-HT0) deliver 230 ft (70 m) transmission for HDMI, bi-directional IR, RS232
- Support key features of HDMI 1.4, including 3D & 4K x 2K, CEC pass through and HDCP compatible
- Locking power supply and HDMI cable connectors
- Mounting brackets included
- Compact metal housing for mounting with flatscreen displays

IR EMITTER AND RECEIVER KIT

- Includes IR emitter and IR target, connected to 5-foot cords
- Delivers 5V IR signal transmission
- Works with HDBaseT Extender Transmitters and Receivers



HDBASET EXTENDER TRANSMITTERS & RECEIVERS

DESCRIPTION	PART NO.
[A] HDBaseT Extender, Transmitter and Receiver, 100 m	41910-HTE
[B] HDBaseT Extender, Transmitter and Receiver, 70 m	41910-HT0
[C] HDBaseT Extender, Receiver only, 70 m	41910-HTR
[D] HDBaseT Extender IR Emitter and Receiver Kit	41910-HIR



HDMI EXTENDER TRANSMITTER & RECEIVER

The HDMI Extender Transmitter and Receiver extends your HD display up to 130 ft (40 m) away from your HDMI source using two category cables. They are capable of supporting DVI-D (Single-Link) equipment when used with a HDMI-to-DVI adapter, providing greater flexibility and installation options.

- 8-segment equalization adjustment switch
- Extend 1080p by 40m; extend 1080i (HDTV) by 60 m
- Superior video quality — 1920 x 1200, up to 1080p
- Supports Dolby True HD and DTS HD Master Audio
- DDC and HDCP 1.1 compatible
- For commercial use only
- Locking HDMI connector
- Compact metal housings

HDMI CABLES

The Leviton high-speed HDMI Cable with Ethernet is ideal for supporting in-wall and permanent installations for education, healthcare, enterprise, and government applications

- CL2 rated for in-wall installation
- Compact connector body and flexible cable accommodate common box depths while maintaining minimum bend radius
- Commercial-grade 28-gauge construction
- Gold-plated connectors for long-lasting performance
- Cable Lock Kit secures cable to Leviton Signal Extension devices for permanent installations



HDMI EXTENDER TRANSMITTER & RECEIVER	
DESCRIPTION	PART NO.
[A] HDMI Extender Transmitter and Receiver, 40 m	41910-H00
HDMI CABLES	
HDMI Cable, 3 ft.	41900-03E
[B] HDMI Cable, 6 ft.	41900-06E
HDMI Cable, 10 ft.	41900-10E
HDMI Cable, 15 ft.	41900-15E
HDMI Cable Lock Kit	41900-LKT



VGA EXTENDER TRANSMITTER & RECEIVER

The VGA Extender allows you to extend the distance between your AV source and display devices by as much as 328 feet (100 m). The transmitter and receiver connect over category cable, providing an easy way to replace heavy and expensive VGA cables. The extender is a compact, convenient and economical addition to your AV setup.

- Screen resolutions include:
1920 x 1200@60Hz (30 m)
1600 x 1200@60Hz (100 m)
1280 x 1024@60Hz (150 m)
- Adjustable Gain Control lets you manually adjust signal strength to compensate for distance
- Audio enabled (mono)
- No external power supply needed for transmitter
- Compact metal housing for convenient docking on the display device

USB 1.1 EXTENDER

The USB 1.1 Extender lets you locate your USB device or hub at greater distances from your computer, overcoming the typical 15-foot USB cable limitation. The extenders are ideal for classrooms with interactive board installations.

- Consist of a local unit and a remote unit
- Embedded USB transceivers at both ends prevent signal loss
- Extend transmission distance up to 164 ft (50 m) using category cabling
- No additional software/drivers required
- 1-foot USB cable included with local unit

MIXING AUDIO AMPLIFIER & INFRARED REMOTE CONTROL KIT

Ideal for classrooms and meeting rooms, this Class D mini amplifier includes 2 line and 1 MIC inputs, which support EQ control and MIC mixing. With 2 x 20W at 4 Ohm as default output, it can be switched to 1 x 40W at 8 Ohm by bridge connection.

- Two switchable analog audio inputs
- One 3-level MIC input with mixer function
- Stereo, dual mono and bridge output mode selectable
- Bass, treble, and volume adjustable
- Loop output to cascade to another amplifier
- Locking power adapter
- Controllable via button, RS232 (optional IR via Infrared Kit: 41920-AIR)
- Optional Infrared Remote Control Kit includes remote control and IR sensor/receiver to control amplifier

VGA EXTENDER TRANSMITTER & RECEIVER

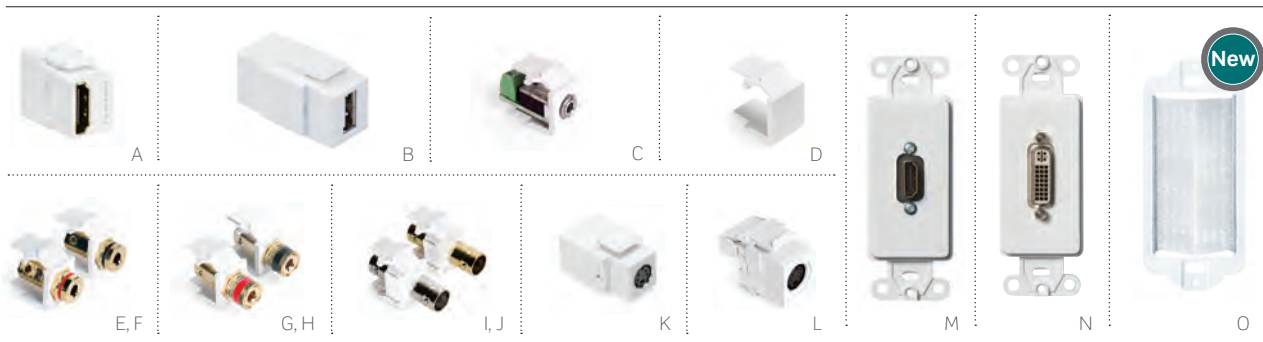
DESCRIPTION	PART NO.
[A] VGA Extender Transmitter and Receiver, 100 m	41910-V01

USB EXTENDERS

[B] USB 1.1 Extender, 50 m	41910-U11
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MINI DIGITAL AMPLIFIER

[C] Mixing Audio Amplifier	41920-A01
[D] Infrared Remote Control Kit	41920-AIR



AV CONNECTORS & ADAPTERS

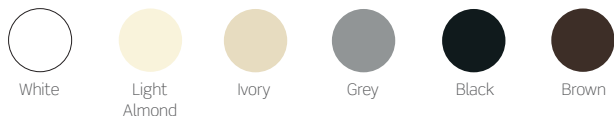
- HDMI® connector works with HDMI Type A connectors
- Binding Post and Banana Jack connectors are excellent for advanced audio
- QuickPort Blanks secure unused ports in wallplates and housings for future expansion
- 3.5 mm Stereo Adapter facilitates classroom, workstation, and computer audio applications
- Use BNC connectors for commercial CCTV or commercial video signals
- S-video for enhanced video streams available in feedthrough and 110 termination
- Decora® wallplate inserts with HDMI and DVI connections provide high-definition video with in-wall wiring

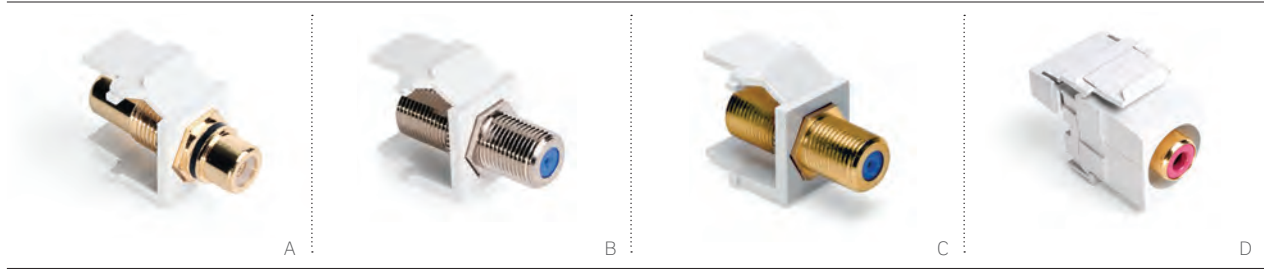
QUICKPORT AV CONNECTORS & BLANKS

DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	BROWN
[A] HDMI Connector, feedthrough	40834-00W	40834-00T	40834-00I	—	40834-00E	—
[B] USB A/A Connector, feedthrough	40835-00W	—	40835-00I	40835-00G	—	—
[C] 3.5 mm Stereo Adapter, screw terminal	40839-SWS	—	40839-SIS	—	—	—
[D] Blank Insert (pack of 10)	41084-BWB	41084-BTB	41084-BIB	41084-BGB	41084-BEB	41084-BBB
[E] Banana Jack Connector, red stripe, feedthrough	40837-BWR	40837-BTR	40837-BIR	—	—	—
[F] Banana Jack Connector, black stripe, feedthrough	40837-BWE	40837-BTE	40837-BIE	—	—	—
[G] Binding Post Connector, red stripe, feedthrough	40833-BWR	40833-BTR	40833-BIR	—	40833-BER	40833-BBR
[H] Binding Post Connector, black stripe, feedthrough	40833-BWE	40833-BTE	40833-BIE	—	40833-BEE	40833-BBE
[I] BNC Connector, nickel plated, feedthrough	41084-BWF	41084-BTF	41084-BIF	41084-BGF	41084-BEF	41084-BBF
[J] BNC Connector, gold plated, feedthrough	40832-0BW	40832-0BT	40832-0BI	—	—	—
[K] S-Video Connector, feedthrough	40734-CVW	—	40734-CVI	—	—	—
[L] S-Video Adapter, 110 termination	40734-SVW	40734-SVT	40734-SVI	40734-SVG	40734-SVE	—

DECORA AV INSERTS

[M] HDMI Insert, feedthrough	41647-00W	—	41647-00I	—	—	—
[N] DVI Insert, feedthrough	41648-00W	—	41648-00I	—	—	—
[O] Brush Insert, Passthrough	41075-DBW	—	—	—	—	—





FEEDTHROUGH & 110-STYLE RCA & F-CONNECTORS

Leviton carries a comprehensive selection of RCA and F-connectors in both feedthrough and 110 termination. Body colors match Leviton housings; barrel colors are industry standard.

- RCA Connectors use standard identification colors for component and composite video
- Coax F-Connector are SCTE-compliant and support signals up to 3 GHz

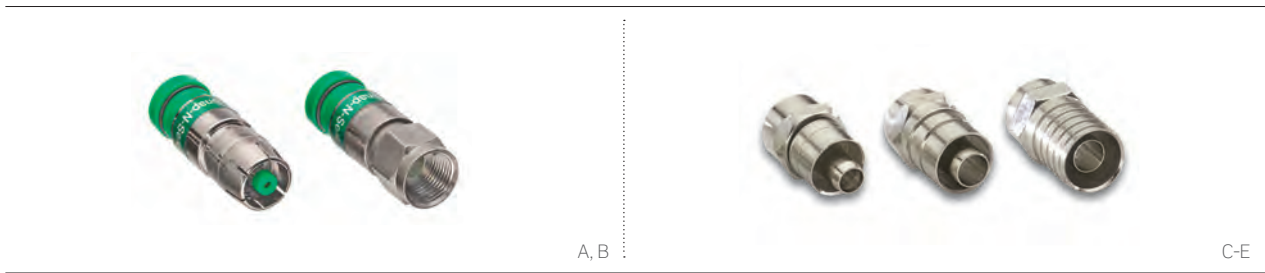
QUICKPORT FEEDTHROUGH RCA & F-CONNECTORS (FOR RCA & COAX CABLE)

DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	BROWN
[A] RCA Connector, gold plated w/black stripe, feedthrough	40830-BWE	40830-BTE	40830-BIE	40830-BGE	40830-BEE	40830-BBE
RCA Connector, gold plated w/red stripe, feedthrough	40830-BWR	40830-BTR	40830-BIR	40830-BGR	40830-BER	40830-BBR
RCA Connector, gold plated w/yellow stripe, feedthrough	40830-BWY	40830-BTY	40830-BIY	—	—	—
RCA Connector, gold plated w/green stripe, feedthrough	40830-BWV	—	40830-BIV	—	—	—
RCA Connector, gold plated w/blue stripe, feedthrough	40830-BWL	—	40830-BIL	—	—	—
[B] F-Connector, nickel plated, feedthrough	41084-FWF	41084-FTF	41084-FIF	41084-FGF	41084-FEF	41084-FBF
[C] F-Connector, gold plated, feedthrough	40831-0BW	40831-0BT	40831-0BI	—	—	—

QUICKPORT 110-STYLE RCA CONNECTORS (FOR CAT 6 OR CAT 5E CABLE)

[D] RCA Connector, gold plated w/red barrel, 110 termination	40735-RRW	40735-RRT	40735-RRI	40735-RRG	40735-RRE	—
RCA Connector, gold plated w/white barrel, 110 termination	40735-RWW	40735-RWT	40735-RWI	40735-RWG	40735-RWE	—
RCA Connector, gold plated w/yellow barrel, 110 termination	40735-RYW	40735-RYT	40735-RYI	40735-RYG	40735-RYE	—
RCA Connector, gold plated w/green barrel, 110 termination	40735-RVW	—	40735-RVI	—	—	—
RCA Connector, gold plated w/blue barrel, 110 termination	40735-RLW	—	40735-RLI	—	—	—
RCA Connector, gold plated w/orange barrel, 110 termination	40735-ROW	40735-ROT	40735-ROI	40735-ROG	40735-ROE	—





COMPRESSION & CRIMP-ON F-CONNECTORS

- Leviton compression and crimp-on connectors are ideal for more specialized AV applications
- Compression connectors offer an airtight seal and secure fitting for increased cable retention
- Crimp-on connectors are an economical solution for less demanding applications

COMPRESSION, CRIMP-ON & TWIST-ON RCA & F CONNECTORS			
DESCRIPTION	RG-59 CABLE	RG-6 CABLE	RG-6 QUAD SHIELD
RCA Compression Connector (colored rings included)	—	—	[A] 40985-CRU
Compression F-Connector (colored rings included)	—	—	[B] 40985-CPF
F-Connectors, one-piece crimp-on (bag of 100)	[C] 40985-1P9	[D] 40985-1P6	[E] 40985-0Q6

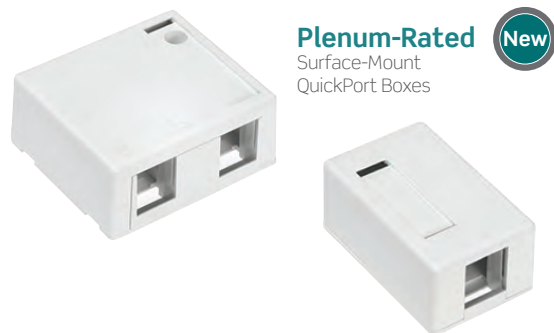
See page A37 for master compression and crimping tools.

SPOTLIGHT Plenum-Rated Surface-Mount QuickPort Boxes



Surface-Mount QuickPort Box attached to In-Ceiling Bracket

One- and two-port Surface-Mount QuickPort Boxes are plenum rated, making them ideal for housing QuickPort connectors in air handling spaces above a drop ceiling. The low profile boxes contain knockouts to accommodate raceway and cable entry, and can be mounted to Leviton In-Ceiling Brackets that attached to standard drop wires or rods. Learn more on page D10.



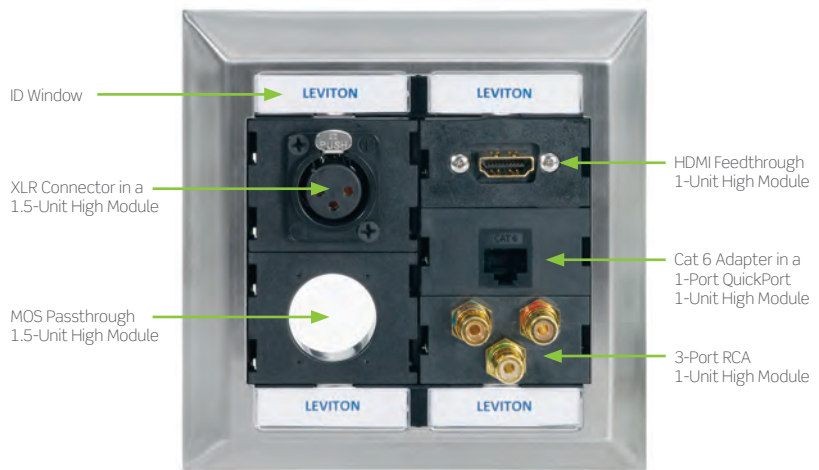
AV SOLUTIONS | Multimedia Outlet System (MOS)

MULTIMEDIA OUTLET SYSTEM (MOS)

The innovative Multimedia Outlet System (MOS) consists of a surface-mount box and single- and dual-gang wallplates that accept a variety of copper, fiber, and AV connectors. The system is ideal for multimedia applications in conference rooms, training rooms, classrooms, auditoriums, and other areas.



- Front-load installation ensures simple moves, adds, and changes
- Modules are available in 0.5, 1, 1.5, 2, and 3-unit high sizes
- Accommodates a combination of QuickPort® connectors and larger AV components such as 3-port composite/component RCA and HD-15 connectors
- Large Surface-Mount Box accepts 3 modules (1-unit high only)
- Wallplates accept 3-units high total
- New Surface-Mount Housing (pictured below) accepts one 1-unit high module and is plenum rated for use in air handling environments



Plenum Rated
MOS Housing

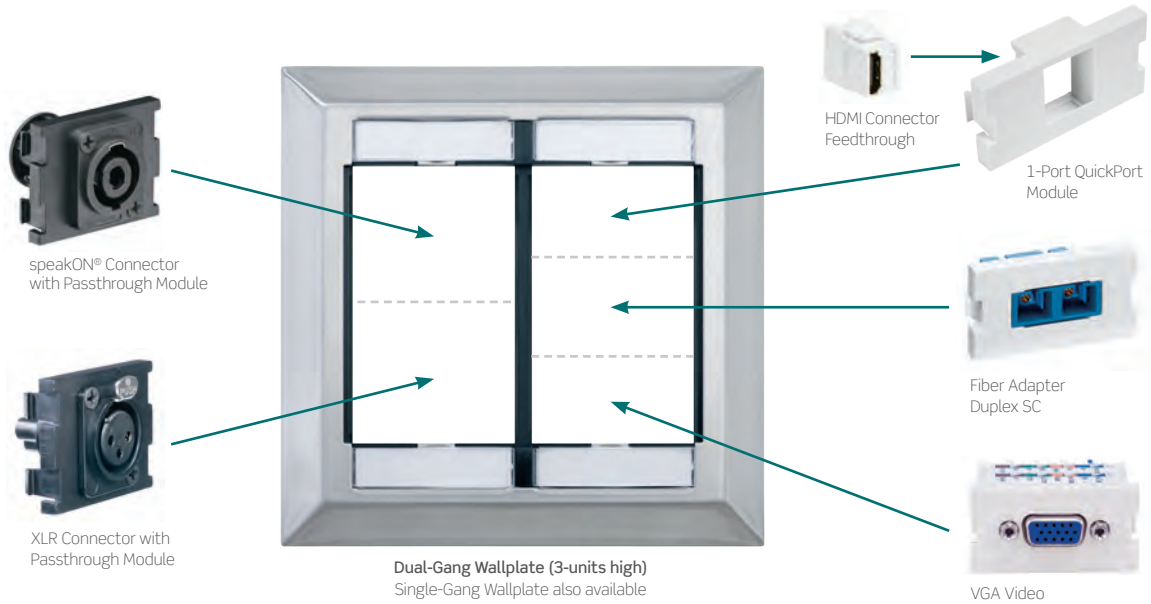
TRAINING VIDEOS



Watch the training videos at Leviton.com/ns/videos: "Enhanced MOS RCA Module Installation" and "Enhanced MOS VGAModule Installation."

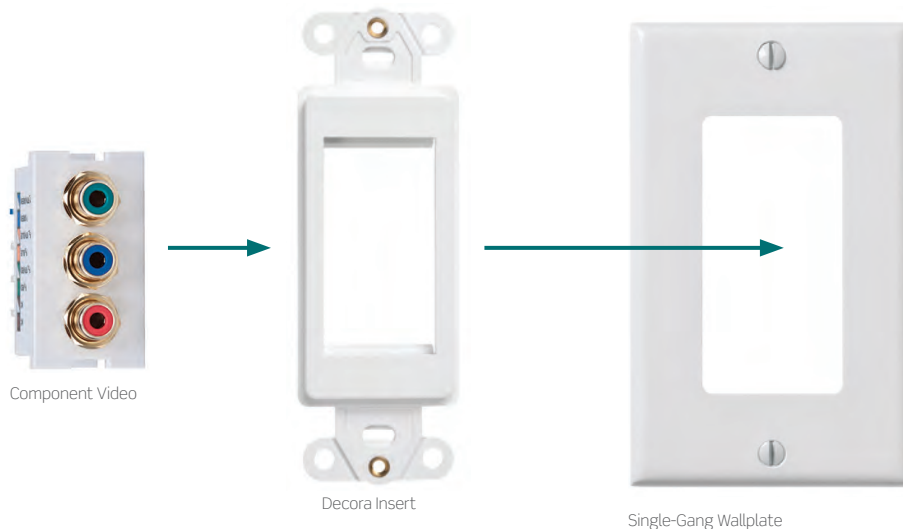
QUICKPORT & MOS COMPATIBILITY

The highly flexible front-loading Multimedia Outlet System (MOS) and QuickPort® Solutions work together to provide hundreds of possible configurations. Select MOS, MOS and QuickPort, or QuickPort only configurations. Blank inserts are also available to create a finished look when building in extra capacity for future growth. For more information about configuring your MOS installation, visit Leviton.com/MOS.



MOS MODULES WILL ALSO WORK WITH DECORA® WALLPLATES

Just snap one-unit high modules into Decora inserts.



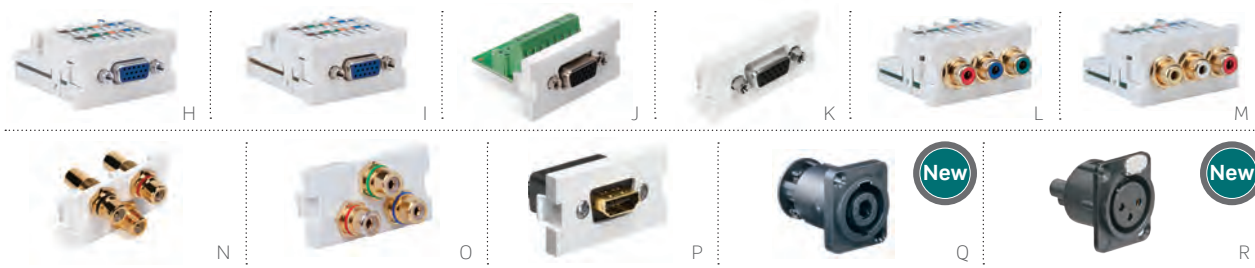
See page B66 for the complete line of fiber adapters.

AV SOLUTIONS | Multimedia Outlet System (MOS)



MOS SURFACE-MOUNT BOX AND WALLPLATE HOUSINGS						
DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	STAINLESS
[A] Single-Gang Wallplate	41290-SMW	41290-SMT	41290-SMI	41290-SMG	41290-SME	41290-SMS
[B] Dual-Gang Wallplate	41290-DMW	41290-DMT	41290-DMI	41290-DMG	41290-DME	41290-DMS
[C] Three-Gang Wallplate	—	—	—	—	—	41290-TMS
[D] Surface-Mount Box*, 3-unit w/Fiber Storage	41296-MMW	41296-MMT	41296-MMI	41296-MMG	41296-MME	—
[E] Surface-Mount Housing, holds one 1-unit high module	4M089-1WM	4M089-1IM	4M089-1TM	4M089-1GM	4M089-1EM	—
[F] Fiber Storage/Spacer Ring °	41290-DRW	—	41290-DRI	41290-DRG	41290-DRE	—
[G] Decora® Insert, holds one 1-unit high module	41649-00W	41649-00T	41649-00I	41649-00G	41649-00E	—

* = Surface-mount box is not compatible with 41295-V**, 41292-D**, and 41292-A**. ° = Dual-gang only.



MULTIMEDIA OUTLET SYSTEM AV CONNECTOR MODULES (All modules are 1-unit high unless noted otherwise)					
DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK
[H] VGA PC Module, 110-style termination ^	41295-VPW	41295-VPT	41295-VPI	41295-VPG	—
[I] VGA Monitor Module, 110-style termination ^	41295-VMW	41295-VMT	41295-VMI	41295-VMG	—
[J] VGA/HD15 Module, screw terminal	41295-HDW	—	41295-HDI	—	—
[K] VGA/HD15 Module, feedthrough	41293-HDW	41293-HDT	41293-HDI	41293-HDG	41293-HDE
VGA/HD15 Module, empty	41291-DBW	—	41291-DBI	41291-DBG	41291-DBE
[L] RCA Component Video Module, 110-style termination (red, green, blue)	41292-DEW	41292-DET	41292-DEI	—	—
[M] RCA Composite Video Module, 110-style termination (red, white, yellow)	41292-AEW	41292-AET	41292-AEI	—	—
[N] 3-Port RCA Module (red, black, yellow), feedthrough	41292-3RW	41292-3RT	41292-3RI	41292-3RG	41292-3RE
[O] 3-Port RCA Module (red, green, blue), feedthrough	41292-3DW	41292-3DT	41292-3DI	41292-3DG	41292-3DE
[P] HDMI® Module, feedthrough	41290-HDW	41290-HDT	41290-HDI	41290-HDG	41290-HDE
[Q] speakON® Connector, 4-pole, screw terminal*	—	—	—	—	41297-SP4
[R] XLR Connector, 3-pole, screw terminal*	—	—	—	—	41297-XL3

^ = 110-Style VGA modules require both PC and Monitor modules used in pairs to operate. This applies to F and G only. * = 1.5-units high. speakON and XLR Connectors must be installed in 1.5-unit high MOS Passthrough Module (41297-2Px).

Multimedia Outlet System (MOS)

AV SOLUTIONS

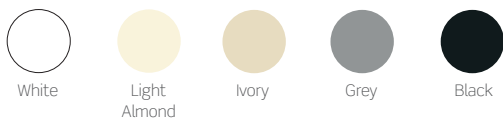


MOS FIBER INSERTS				
DESCRIPTION	WHITE	IVORY	GREY	BLACK
[A] 1 Duplex SC, zirconia ceramic, SM/M, blue, (1-unit high)	41291-2CW	41291-2CI	41291-2CG	41291-2CE
[B] 1 Duplex SC, zirconia ceramic, SM/MM, blue, 45° exit (1.5-units high)	41294-2CW	41294-2CI	41294-2CG	41294-2CE
[C] 1 Duplex SC, zirconia ceramic, SM/MM, blue, 45° exit (2-units high)	41292-2CW	41292-2CI	41292-2CG	41292-2CE
[D] 2 Duplex SC, zirconia ceramic, SM/MM, blue, 45° exit (3-units high)	41293-4CW	41293-4CI	41293-4CG	41293-4CE
1 Duplex ST, zirconia ceramic, SM, (1-unit high)	41291-ZTW	41291-ZTI	41291-ZTG	41291-ZTE
[E] 1 Duplex ST, phosphor bronze, MM, (1-unit high)	41291-2TW	41291-2TI	41291-2TG	41291-2TE
1 Duplex ST, zirconia ceramic, SM, 45° exit (1.5-units high)	41294-ZTW	41294-ZTI	41294-ZTG	41294-ZTE

For multimode SC adapters in beige, blue, or aqua housing, please contact inside sales at 800.722.2082.



MOS ADAPTERS & BLANK MODULES					
DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK
[F] 1-Port QuickPort Module (1-unit high)	41291-1MW	41291-1MT	41291-1MI	41291-1MG	41291-1ME
[G] 2-Port QuickPort Module (1-unit high)	41291-2QW	41291-2QT	41291-2QI	41291-2QG	41291-2QE
[H] 2-Port 45° Exit Angled QuickPort Module (1.5-units high)	41294-2QW	41294-2QT	41294-2QI	41294-2QG	41294-2QE
[I] Passthrough Module (1.5-units high)	41297-2PW	41297-2PI	41297-2PT	41297-2PG	41297-2PE
[J] Blank Module (0.5-unit high)	41295-5BW	41295-5BT	41295-5BI	41295-5BG	41295-5BE
[K] Blank Module (1-unit high)	41291-1BW	41291-1BT	41291-1BI	41291-1BG	41291-1BE
[L] Blank Module (1.5-units high)	41294-2BW	41294-2BT	41294-2BI	41294-2BG	41294-2BE
[M] Blank Module (2-units high)	41292-2BW	41292-2BT	41292-2BI	41292-2BG	41292-2BE



See page B66 for the complete line of fiber adapters.



LEVITON ARCHITECTURAL EDITION® POWERED BY JBL IN-WALL & IN-CEILING SPEAKERS



- JBL titanium-laminate drivers maintain accuracy and clarity even at frequency extremes
- Straight-Line Signal Path™ (SSP) crossover network for minimal signal distortion
- Long-excursion woofers with butyl-rubber half-round surrounds and extended pole-piece magnetic structures for maximum bass impact and dynamic range
- Low-diffraction, swivel-tweeter mounting system for optimum stereo imaging
- Heavy-duty push-type input terminals for long-term connection integrity
- Integrated dog-ear mounting brackets (optional rough-in kits available for installation in new homes)
- Acoustically transparent, paintable grills

LEVITON ARCHITECTURAL EDITION POWERED BY JBL OUTDOOR SPEAKERS

- Elliptical Oblate Spheroidal™ (EOS) Waveguide technology for high-frequency dispersion
- Straight-Line Signal Path (SSP) crossover networks for minimal signal distortion
- 5-way binding post input terminals for long-term connection integrity
- Mounting brackets included

PRE-CONSTRUCTION KITS

- Pre-construction kits ensure that speaker locations and wiring are preserved and protected during construction, allowing for a cleaner, faster, and more precise installation during the trim-out stage
- Fire-Rated Back-Box enclosure meets fire code for MDU and residential installations

LEVITON ARCHITECTURAL EDITION POWERED BY JBL IN-WALL AND IN-CEILING SPEAKERS	
DESCRIPTION	PART NO.
[A] Pair of 6.5" Two-Way In-Wall Loudspeakers, 80 watts, 8 ohms	AEI65-000
[B] Pair of 8" Two-Way In-Wall Loudspeakers, 100 watts, 8 ohms	AEI80-000
[C] Pair of 6.5" Two-Way In-Ceiling Loudspeakers, 80 watts, 8 ohms	AEC65-000
Pair of 8" Two-Way In-Ceiling Loudspeakers, 100 watts, 8 ohms	AEC80-000
[D] 6.5" Two-Channel / Single Location Two-Way In-Ceiling Loudspeakers, two titanium tweeters, dual voice-coil titanium-laminate woofer 50 watts/channel, 8 ohms	AEM65-000
LEVITON ARCHITECTURAL EDITION POWERED BY JBL OUTDOOR SPEAKERS	
[E] Pair of Outdoor/All-Weather Two-Way Loudspeakers in Enclosure, 0.50" tweeter, 4" woofer, 200 watts, 8 ohms	AEAWS-C1W
PRE-CONSTRUCTION KITS	
6.5" Pre-Construction Speaker Kit for in-wall installations	AEPI6-KIT
8" Pre-Construction Speaker Kit for in-wall installations	AEPI8-KIT
Fire-Rated Back-Box Enclosure (Required for 6.5" in-ceiling speakers AEC65, AEM65), (see page C22 for photo)	AEBC6-000



A



B



C

SPEC-GRADE SOUND SPEAKERS

- AeroNylon tweeter diaphragm provides crystal-clear treble response and exceptionally accurate tracking of even the most challenging musical transients
- Built-in AutoSurge® circuit protection helps prevent speaker damage
- Advanced phase/time alignment guide properly aligns sound without misaligning the tweeters
- Precision dividing network ensures total audio signal electronic integrity up to the last microsecond before the signal is converted into sound
- Inert mounting frame with “dogleg” installation points eliminates any transmitted vibrations that could alter in-wall or in-ceiling sound quality
- Acoustically transparent, paintable grills

PRE-CONSTRUCTION KITS

- Pre-construction kits ensure that speaker locations and wiring are preserved and protected during construction, allowing for a cleaner, faster, and more precise installation during the trim-out stage
- Fire-Rated Back-Box enclosure meets fire code for MDU and similar commercial installations



SPEC-GRADE SOUND IN-WALL/IN-CEILING INDOOR SPEAKERS

DESCRIPTION	PART NO.
[A] Pair of 6.5" Spec-Grade Two-Way In-Ceiling Loudspeakers, 120 W peak/ 60 W RMS, 8 ohms	SGC65-00W
[B] Pair of 6.5" Spec-Grade Two-Way In-Wall Loudspeakers, 120 W peak/ 60 W RMS, 8 ohms	SGI65-00W

PRE-CONSTRUCTION KITS

Rough-in Bracket for 6.5" In-Wall Loudspeakers	PCI65-KIT
[C] Fire-Rated Back-Box Enclosure (Required for 6.5" in-ceiling speakers SGC65)	AEBC6-000



A



B



C

IN-WALL SPEAKERS

- Straight-Line Signal Path™ (SSP) crossover network for minimal signal distortion
- JBL® titanium-laminate drivers, pure titanium tweeter, and polymer-coated aluminum woofers maintain musical accuracy and clarity, even at frequency extremes
- Low-diffraction, swivel-tweeter mounting system of optimum stereo imaging

SHELF-MOUNT CENTER CHANNEL SPEAKER

- Straight-Line Signal Path (SSP) crossover network for minimal signal distortion
- Dual 5" JBL PolyPlas cone woofers
- FreeFlow flared port for increased bass response without added port noise

SUBWOOFER

- JBL PolyPlas™ woofer for low frequencies
- High-efficiency, high-current switching amplifier
- FreeFlow flared port for increased bass response without added port noise
- Built-in technologies allow simple adjustment for room acoustics and personal preference
- LFE and line level inputs for maximum connection flexibility

LEVITON ARCHITECTURAL EDITION® POWERED BY JBL HOME THEATER SPEAKERS

DESCRIPTION	PART NO.
[A] Dual 5" Two-Way In-Wall Center Channel Home Theater Loudspeakers, 120 watts, 8 ohms	AEI55-000
[B] Dual-Channel Two-Way Shelf-Mounted Center Channel Loudspeaker, silver grill, 75 watts / 300 watts, 8 ohms	AECCS-VCE
[C] Powered 12" Subwoofer w/ amplifier, silver grill, 400 watts RMS, 700 watts peak, 8 ohms	AESUB-012
Pre-Construction Kit, in-wall center channel shelf for use with AEI55-000	AEPI5-KIT



A



B



C



D

DECORA® STRAUSS™ TRANSFORMER-FREE VOLUME CONTROLS

- Contemporary slider design brings precision and elegance to any installed audio system
- Available in standard and impedance-matched versions
- Volume control uses standard Decora wallplate in a standard J-Box or low-voltage mounting ring
- Color-change kits ensure the right finishing touch for every application

1X6 AUDIO DISTRIBUTION MODULE

- Combines with impedance-matching Volume Controls to control up to six speaker pairs from an amplifier or receiver
- Designed to mount in Leviton Structured Media enclosures and connect to six rooms/zones

SYSTEM MATCHING MODULE

- Combine with non-impedance-matching Volume Controls to control up to six speaker pairs (cannot be used with impedance-matching volume controls)
- AutoSurge® circuit technology protects speakers from potentially damaging transients
- Designed to mount in Leviton Structured Media® Enclosures

AUDIO SYSTEM VOLUME CONTROLS

DESCRIPTION	PART NO.
[A] Decora Strauss Transformer-Free Slider Volume Control, analog, 200 watts peak, 100 watts RMS, 4-16 ohms, 8 ohm nominal (for use with SGAMP-000) (Decora wallplate sold separately, see page D19)	SGVST-00W
[B] Decora Strauss Transformer-Free Impedance-Matching Slider Volume Control, analog, 200 watts peak, 100 watts RMS, 4-16 ohms, 8 ohm nominal (for use with 48211-06A)	SGVSM-00W
Decora Strauss Color-Change Kit, converts to light almond	SGVCK-0LA
Decora Strauss Color-Change Kit, converts to ivory	SGVCK-00I
Decora Strauss Color-Change Kit, converts to black	SGVCK-00E

SYSTEM MATCHING MODULE

[C] System Matching Module for impedance-matching passive two-channel multi-room audio systems (for use with SGVST-00W)	SGAMP-000
--	-----------

1X6 AUDIO DISTRIBUTION MODULE

[D] 1x6 Passive Audio Module (for use with SGVSM-00W)	48211-06A
--	-----------



White



Light Almond



Ivory



Black

SPOTLIGHT Impedance Matching Difference

When installing an audio system, it is important to have an impedance-matching component paired with a standard component. Failure to do so may have a negative effect on the audio system.

Do NOT use an impedance-matching volume control with an impedance-matching module, and do NOT use a standard volume control with a passive audio module. Doing so, in either instance, could damage the amplifier.



SGVST-00W



SGAMP-000



SGVSM-00W



48211-06A



A



B



C



D



Mobile Device Station & USB Charger/Tamper-Resistant Receptacle



E



F



G



Decora Mobile Device Station



Renu Mobile Device Station



J

HOME THEATER, MULTI-ROOM & SPEAKER WALLPLATES

- Designed for easy installation of cables using low-voltage rings and standard low-voltage junction boxes
- Home Theater Interface wallplate (AEHTK) accommodates 5.1 to 7.1 channel surround-sound systems, and features RCA connectors for subwoofer connection and two extra QuickPort® openings
- Multi-room Audio wallplate (AEMRK) accommodates left and right audio speakers (± connections), and two extra openings for additional QuickPort connectors (e.g., adding a subwoofer or 3.5 mm stereo phone jack)
- Speaker wallplate allows for simple, solderless connections to any home entertainment speaker system

RECESSED ENTERTAINMENT BOX (REB)

- Affordable solution manages home theater electronics in a single location
- Ideal for new construction (stud-mounted) and retrofit (wall-mounted) applications
- Low-profile frame provides neat, recessed installation
- Optional high-profile cover includes sliding plastic front panels, and channels all wires through the bottom of the unit

RECESSED RECEPTACLES

Recessed Single-Gang Receptacle

- Fits most standard electrical boxes
- Supplies AC power for one or two components (flat panel TVs and video receiver)
- cULus Approved, code-compliant solution

Recessed Dual-Gang Duplex Receptacle with Six QuickPort Openings

- Centralizes connection points for AC power, audio, video, data, and phone
- Includes plastic electrical box for use in new and retrofit construction
- UL Approved, code-compliant solution

MOBILE DEVICE STATION

- Turns a receptacle outlet into a convenient storage location for smartphones and MP3 players
- Installs without creating any new holes in the wall
- Available in both Decora® and Renu® styles
- Integrated cable management keeps charging cables organized and protected
- Requires a Leviton wallplate, sold separately
- Ideal with Leviton USB charger/tamper-resistant receptacle

USB CHARGER/TAMPER-RESISTANT RECEPTACLE

- USB ports with a combined power of 3.6A, ideal for charging tablets and other high-draw devices
- Compact design fits in a standard wallbox, is compatible with standard wallplates, and can be multi-ganged with other standard Leviton devices
- Back and side wired for easy installation
- Smart chip designed for recognizing and optimizing the charging requirements of your device
- Tamper-Resistant NEC® Compliant shutter mechanism blocks access to contacts from most foreign objects

HOME THEATER AND MULTI-ROOM WALLPLATES

DESCRIPTION	PART NO.
[A] Home Theater Interface Wallplate, 14 gold-plated spring clips, two RCA connectors, two QuickPort® openings	AEHTK-000
[B] Multi-Room Install Wallplate, two gold-plated spring clips, two QuickPort openings	AEMRK-000
[C] Single-Gang Single Spring-Clip Device Audio/Video Wallplate, standard size, polymer break resistant, box mount	40951-1P*
[D] Single-Gang Double Spring-Clip Device Audio/Video Wallplate, standard size, polymer break resistant, box mount	40952-2P*

RECESSED DEVICES & ENTERTAINMENT BOX

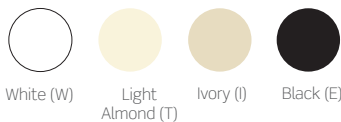
Single-Gang Recessed Single Receptacle 15A-125VAC, 2-Pole, 3-Wire — NEMA 5-15R, includes clock hanger hook	00688-00*
Single-Gang Recessed Single Receptacle, Non-Magnetic Stainless Steel 15A-125VAC, 2-Pole, 3-Wire — NEMA 5-15R, includes clock hanger hook	05261-0CH
[E] Single-Gang Recessed Duplex Receptacle 15A-125VAC, 2-Pole, 3-Wire — NEMA 5-15R	00689-00†
Single-Gang Recessed Single Receptacle, Non-Magnetic Stainless Steel 20A-125VAC, 2-Pole, 3-Wire — NEMA 5-20R, includes clock hanger hook	05361-0CH
[F] Dual-Gang Recessed Duplex Receptacle and Openings for six QuickPort Modules 15A-125VAC, 2-Pole, 3-Wire — NEMA 5-15R (four blank inserts included)	00690-00*
Recessed Entertainment Box w/ Low-Profile Frame	47617-REB
[G] Recessed Entertainment Box w/ High-Profile Cover	47617-RBH
High-Profile Cover	47617-HPC
Low-Profile Frame	47617-LPF
Replacement Snap-in Plates, 2 per bag	47617-PLT

MOBILE DEVICE STATION & USB CHARGER / RECEPTACLE

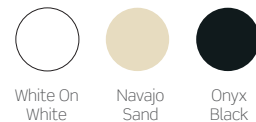
[H] Decora® Mobile Device Station, White	47112-00W
Decora Mobile Device Station, Light Almond	47112-00T
Decora Mobile Device Station, Black	47112-00E
[I] Renu® Mobile Device Station, White on White	47112-RWW
Renu Mobile Device Station, Navajo Sand	47112-RNS
Renu Mobile Device Station, Onyx Black	47112-ROB
[J] USB Charger/Tamper-Resistant Receptacle	T5631-2W

* = Color: White (W), Ivory (I)

† = Color: White (W), Lt. Almond (T), Ivory (I), Black (E)



Renu Mobile Device Station Colors:



SPOTLIGHT Recessed Entertainment Box



For an almost invisible installation behind wall-mounted TVs, entertainment centers, monitors, and more, connect with the Leviton Recessed Entertainment Box (REB). The REB centralizes AC power and low-voltage connection points for audio, video, data, and phones. It is perfect for supporting any low-voltage application across homes, apartments, co-ops, condominiums, and offices. REBs come with one snap-in cover plate for unused openings, and are available with a either a low-profile frame or a high-profile cover that channels all wires through the bottom for a clean, finished look.

- The REB comes with one snap-in plate to cover unused openings; additional plates are sold separately.

BITWISE

The Leviton BitWise line offers powerful automation controllers, a completely customizable app interface, and our easy-to-use, no-coding-required Project Editor software. From a single, easy-to-use control app, you can manage every aspect of AV and more for a room or campus — even if there's more than one location. For more information, go to Leviton.com/BitWise.

- No per-device or per-job licensing fees
- Free Apple and Android control apps that can control more than one location's system on a single device
- U.S.-assembled controllers ensure the highest standards of quality and reliability



BITWISE AV CONTROLLERS

- Entry-level BC4 is perfect for conference rooms and classrooms
- BC2 includes additional inputs and outputs, including optional Wi-Fi connectivity
- BC1 controller fits in an AV rack at full width and manages AV components in classrooms, retail, houses of worship, and more

INTERFACES

- Manage your system via the BitWise control app on iOS and Android devices, available on smartphones and tablets
- RF Room Remote and Remote Receiver controls all BitWise connected devices in a room
- Up to 255 remotes can be incorporated into an installation, making it a scalable option for commercial projects

ACCESSORIES

- Optional power supplies, IR emitters, IR Learners, and Wi-Fi adapters enhance the capabilities of a BitWise control system
- PoE Power Injector provides up to 15.4 watts of power and 10/100M data transmission through category cable
- Both U.S. and International power supplies are available



BITWISE		
DESCRIPTION		PART NO.
[A]	BC1, US Power Supply, 8 IR ports, 4 RS232, 4 GPIO, 4 Relays, 1 IR input	BWBC1-000
	BC1, Intl Power Supply, 8 IR ports, 4 RS232, 4 GPIO, 4 Relays, 1 IR input	BWBC1-0NT
[B]	BC2, US Power Supply, 4 IR ports; 2 RS232; 2 GPIO; 2 Relays	BWBC2-000
	BC2, Intl Power Supply, 4 IR ports, 2 RS232; 2 PIO, 2 Relays	BWBC2-0NT
[C]	BC4-BCX-1 PRO, US power supply, BW BC4 with 4 IR ports, GPIO, RS232	BWBC4-000
	BC4-BCX-1 PRO, US power supply, BW BC4 with 4 IR ports, GPIO, RS232	BWBC4-0NT
[D]	RF Remote Control	BWRMT-000
[E]	RF Remote Control Receiver	BWRRR-000
[F]	BC-2 Rack Ears	BWEAR-000
[G]	Single Head Flashing IR Emitter	EN928-000
[H]	Dual Head Flashing IR Emitter	BWEM2-000
[I]	Adapter for connecting a BC-1 IR In port to a Distributed IR system	BWIRA-000
[J]	Wi-Fi Adapter with External Antenna	BWWFA-000
[K]	IR Receiver Module	BWIRI-000
[L]	IR Learner	BWIRL-000
[M]	DB9 Female-RJ45 Female Adapter	BWDBF-000
[N]	DB9 Male-RJ45 Female Adapter	BWDBM-000
[O]	POE Power Injector with A/C Cord	TS901-000
	US Power Supply, 12V	BWDPS-000
	International Power Supply, 12VDC	BWIPS-000

BitWise Integrated
Controllers

AV SOLUTIONS



WALLPLATES & HOUSINGS

SECTION

D

SECTION D CONTENTS

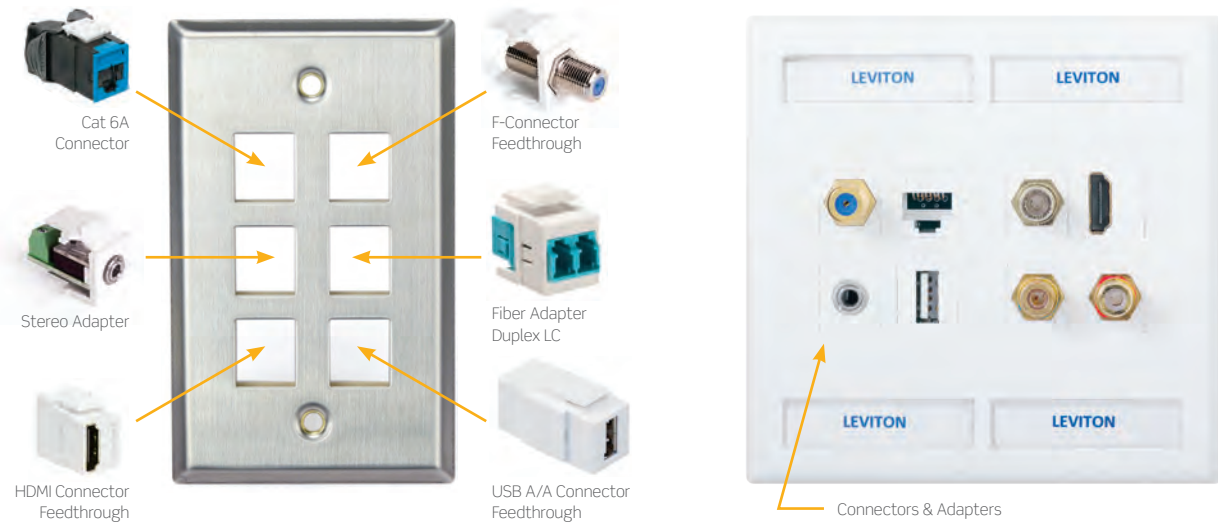
WALLPLATES & HOUSINGS

- D3** Introduction
- D4** QuickPort® & QuickPlate® Wallplates
- D7** Multimedia Outlet System (MOS)
- D9** Renu® Wallplates & Inserts
- D10** QuickPort Surface-Mount Boxes
- D10** QuickPort DIN Rail-Mount Boxes
- D11** QuickPort In-Wall & In-Ceiling Brackets
- D12** QuickPort Modular Furniture Products
- D13** DuraPort® Industrial Connectivity
- D15** 86 mm x 86 mm International Wallplate Inserts & Frames
- D17** QuickPort Decora® Inserts
- D18** Decora Telephone & Video Wallplates & Inserts
- D19** Decora Single-Gang & Dual-Gang Wallplates
- D20** Round Telephone Inserts & Surface-Mount Boxes
- D20** QuickPort Floor Box Assemblies
- D21** Duplex, Round Opening & Blank Wallplates
- D22** Telephone & Video Wallplates
- D22** Telephone Wall-Phone Jacks

WALLPLATES & HOUSINGS | Introduction

QUICKPORT® WALLPLATES & HOUSINGS

The QuickPort System allows you to create the perfect mix of voice, data, video, and audio connections. Category-rated, fiber, and AV QuickPort connectors are compatible with any QuickPort wallplate or insert.



QUICKPLATE® TEMPO WALLPLATES WITH ID WINDOWS

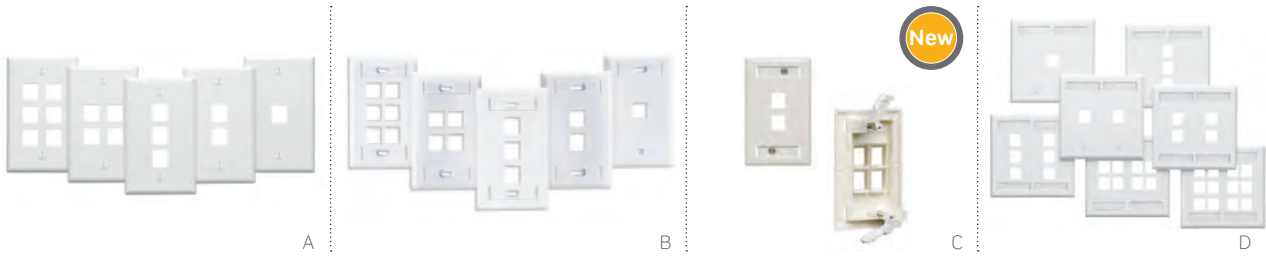
QuickPlate Tempo wallplates allow for fast, one-step installations. They feature patented rear wings that tighten the wallplate to wallboard, eliminating the need for a box or mounting brackets.



2-Port Wallplate

4-Port Wallplate

QuickPlate Tempo available early Q2 2015.
Please contact Inside Sales at 1.800.722.2082.



QUICKPORT STANDARD PLASTIC WALLPLATES

- Compatible with all QuickPort connectors and adapters
- Manufactured from ABS plastic for superior resistance to impact, chemicals, and solvents, as compared to other plastics
- A variety of color choices, with color-matched screws
- cULus Listed, fire-retardant material rated UL 94V-0
- I.D. windows aid in port identification
- Country of Origin: USA

SINGLE-GANG QUICKPLATE® TEMPO WALLPLATES WITH ID WINDOWS

- Patented rear wings tighten wallplate to wallboard, eliminating the need for a box or mounting brackets and creating a fast, one-step installation
- Wings accommodate wallboard thickness of 5/8" or less
- ID windows act as marking template for cutting hole in wallboard
- cULus Listed, fire-retardant plastic rated UL 94V-0
- Country of Origin: USA

[A] QUICKPORT SINGLE-GANG WALLPLATES

DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	BROWN
6-Port Wallplate	41080-6WP	41080-6TP	41080-6IP	41080-6GP	41080-6EP	41080-6BP
4-Port Wallplate	41080-4WP	41080-4TP	41080-4IP	41080-4GP	41080-4EP	41080-4BP
3-Port Wallplate	41080-3WP	41080-3TP	41080-3IP	41080-3GP	41080-3EP	41080-3BP
2-Port Wallplate	41080-2WP	41080-2TP	41080-2IP	41080-2GP	41080-2EP	41080-2BP
1-Port Wallplate	41080-1WP	41080-1TP	41080-1IP	41080-1GP	41080-1EP	41080-1BP

[B] QUICKPORT SINGLE-GANG WALLPLATES WITH ID WINDOWS

6-Port Wallplate	42080-6WS	42080-6TS	42080-6IS	42080-6GS	42080-6ES	—
4-Port Wallplate	42080-4WS	42080-4TS	42080-4IS	42080-4GS	42080-4ES	—
3-Port Wallplate	42080-3WS	42080-3TS	42080-3IS	42080-3GS	42080-3ES	—
2-Port Wallplate	42080-2WS	42080-2TS	42080-2IS	42080-2GS	42080-2ES	—
1-Port Wallplate*	42080-1WS	42080-1TS	42080-1IS	42080-1GS	42080-1ES	—

[C] QUICKPLATE TEMPO SINGLE-GANG WALLPLATES WITH ID WINDOWS

2-Port Wallplate	42090-2WS	42090-2TS	42090-2IS	42090-2GS	42090-2ES	—
4-Port Wallplate	42090-4WS	42090-4TS	42090-4IS	42090-4GS	42090-4ES	—

[D] QUICKPORT DUAL-GANG WALLPLATES WITH ID WINDOWS

12-Port Wallplate	42080-12W	42080-12T	42080-12I	42080-12G	42080-12E	—
8-Port Wallplate	42080-8WP	42080-8TP	42080-8IP	42080-8GP	42080-8EP	—
6-Port Wallplate	42080-6WP	42080-6TP	42080-6IP	42080-6GP	42080-6EP	—
4-Port Wallplate	42080-4WP	42080-4TP	42080-4IP	42080-4GP	42080-4EP	—
3-Port Wallplate	42080-3WP	42080-3TP	42080-3IP	42080-3GP	42080-3EP	—
2-Port Wallplate†	42080-2WP	42080-2TP	42080-2IP	42080-2GP	42080-2EP	—
1-Port Wallplate†	42080-1WP	42080-1TP	42080-1IP	42080-1GP	42080-1EP	—

Wallplates are sold empty. See pages A31-A32, B66, and E8 for QuickPort connectors.

*Single-gang 1-Port Wallplate has only one ID window on top.

†Dual-gang 1- and 2-Port Wallplates have only two ID windows on top.





QUICKPORT STAINLESS-STEEL WALLPLATES

- Compatible with all QuickPort adapters and connectors, including shielded
- Manufactured from 304 stainless steel in a brushed finish to provide corrosion resistance in a non-magnetic material
- Available in single- and dual-gang, with or without ID windows
- Angled wallplate ports facilitate proper front and rear cable bend radius
- Wall-phone wallplates are available in flush and recessed options to accommodate various phone styles
- cULus Listed

Dimensions can be found at Leviton.com.

QUICKPORT SINGLE-GANG STAINLESS-STEEL WALLPLATES

DESCRIPTION	[A] STANDARD	[B] W/ ID WINDOW
6-Port Wallplate	43080-1S6	43080-1L6
4-Port Wallplate	43080-1S4	43080-1L4
3-Port Wallplate	43080-1S3	43080-1L3
2-Port Wallplate	43080-1S2	43080-1L2
1-Port Wallplate	43080-1S1	43080-1L1

QUICKPORT DUAL-GANG STAINLESS-STEEL WALLPLATES

12-Port Wallplate	43080-S12	43080-L12
8-Port Wallplate	43080-2S8	43080-2L8
6-Port Wallplate	43080-2S6	43080-2L6
4-Port Wallplate	43080-2S4	43080-2L4
2-Port Wallplate	43080-2S2	43080-2L2

[C] QUICKPORT ANGLED STAINLESS-STEEL WALLPLATES W/ ID WINDOWS

DESCRIPTION	PART NO.
2-Port Angled Wallplate, single-gang	43081-1L2
4-Port Angled Wallplate, single-gang	43081-1L4
4-Port Angled Wallplate, dual-gang	43081-2L4
8-Port Angled Wallplate, dual-gang	43081-2L8

[D] QUICKPORT STAINLESS-STEEL WALL-PHONE WALLPLATES

Stainless-Steel Wall-Phone Wallplate	4108W-0SP
Stainless-Steel Wall-Phone Wallplate, recessed	4108W-1SP

Wallplates are sold empty. See pages A31-A32, B66, and E8 for QuickPort connectors.
See page D22 for voice-grade wall-phone jacks.
See page X14 for more information on stainless-steel materials.

LABELS

DESCRIPTION	PART NO.
Label Kit for QuickPort Stainless-Steel Wallplates*	43080-IDW
Pre-printed Port Labels, black ink, 10 sheets per package	41080-LEB

* = Also applicable to ID window wallplates on page D4. See page A38 for Work-Area Labeling Solutions.



QUICKPORT ANGLED, MIDWAY & LARGE CONNECTOR WALLPLATES

- Angled and large connector wallplates are high-quality ABS plastic, which provides superior resistance to impacts, chemicals, and solvents as compared to other plastics
- Midway wallplates are durable nylon with a smooth finish and help to hide irregular drywall cuts or flaws around outlets
- Angled wallplates facilitate optimal cable management and ensure proper bend radius in front and back of connector
- Large connector wallplates feature increased vertical spacing between ports
- cULus Listed, fire-retardant material rated UL 94V-0

[A] QUICKPORT ANGLED SINGLE-GANG WALLPLATES

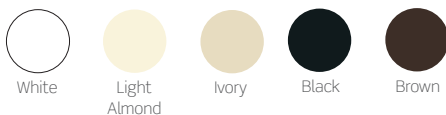
DESCRIPTION	WHITE	LT. ALMOND	IVORY	BLACK	BROWN
4-Port Wallplate	41081-4WP	41081-4TP	41081-4IP	—	—
2-Port Wallplate	41081-2WP	41081-2TP	41081-2IP	—	—
4-Port Wallplate, w/ ID windows	42081-4WS	42081-4TS	42081-4IS	—	—
2-Port Wallplate, w/ ID windows	42081-2WS	42081-2TS	42081-2IS	42081-4ES	—
1-Port Wallplate, w/ ID windows	42081-1WS	42081-1TS	42081-1IS	—	—

[B] QUICKPORT MIDWAY SINGLE-GANG WALLPLATES

6-Port Wallplate	41091-6WN	41091-6TN	41091-6IN	—	41091-6BN
4-Port Wallplate	41091-4WN	41091-4TN	41091-4IN	—	41091-4BN
3-Port Wallplate	41091-3WN	41091-3TN	41091-3IN	—	41091-3BN
2-Port Wallplate	41091-2WN	41091-2TN	41091-2IN	—	41091-2BN
1-Port Wallplate	41091-1WN	41091-1TN	41091-1IN	—	41091-1BN

[C] QUICKPORT SINGLE-GANG WALLPLATES FOR LARGE CONNECTORS

4-Port Wallplate	41080-4WL	41080-4TL	41080-4IL	—	—
2-Port Wallplate	41080-2WL	41080-2TL	41080-2IL	—	—
4-Port Wallplate, w/ ID windows	42080-4WL	42080-4TL	42080-4IL	—	—
2-Port Wallplate, w/ ID windows	42080-2WL	42080-2TL	42080-2IL	—	—

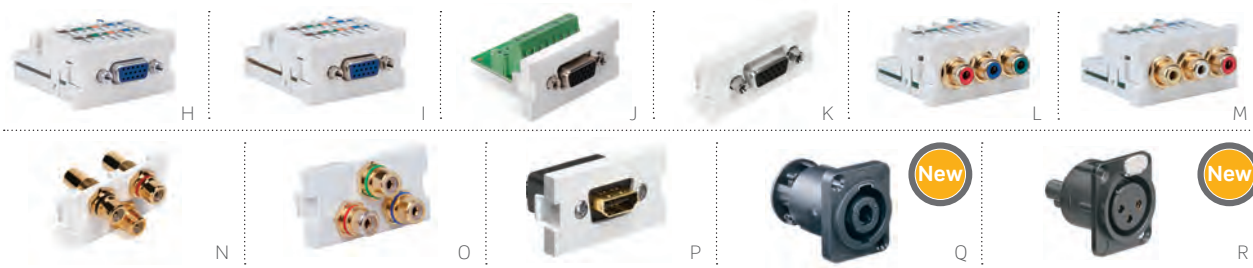


WALLPLATES & HOUSINGS | Multimedia Outlet System (MOS)



MOS SURFACE-MOUNT BOX AND WALLPLATE HOUSINGS						
DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	STAINLESS
[A] Single-Gang Wallplate	41290-SMW	41290-SMT	41290-SMI	41290-SMG	41290-SME	41290-SMS
[B] Dual-Gang Wallplate	41290-DMW	41290-DMT	41290-DMI	41290-DMG	41290-DME	41290-DMS
[C] Three-Gang Wallplate	—	—	—	—	—	41290-TMS
[D] Surface-Mount Box, 3-unit w/Fiber Storage*	41296-MMW	41296-MMT	41296-MMI	41296-MMG	41296-MME	—
[E] Surface-Mount Housing, holds one 1-unit high module	4M089-1WM	4M089-1IM	4M089-1TM	4M089-1GM	4M089-1EM	—
[F] Fiber Storage/Spacer Ring °	41290-DRW	—	41290-DRI	41290-DRG	41290-DRE	—
[G] Decora® Insert, holds one 1-unit high module	41649-00W	41649-00T	41649-00I	41649-00G	41649-00E	—

* = Surface-mount box is not compatible with 41295-V**, 41292-D**, and 41292-A**. ° = Dual-gang only.



MULTIMEDIA OUTLET SYSTEM AV CONNECTOR MODULES (All modules are 1-unit high unless noted otherwise)					
DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK
[H] VGA PC Module, 110-style termination^	41295-VPW	41295-VPT	41295-VPI	41295-VPG	—
[I] VGA Monitor Module, 110-style termination^	41295-VMW	41295-VMT	41295-VMI	41295-VMG	—
[J] VGA/HD15 Module, screw terminal	41295-HDW	—	41295-HDI	—	—
[K] VGA/HD15 Module, feedthrough	41293-HDW	41293-HDT	41293-HDI	41293-HDG	41293-HDE
VGA/HD15 Module, empty	41291-DBW	—	41291-DBI	41291-DBG	41291-DBE
[L] RCA Component Video Module, 110-style termination (red, green, blue)	41292-DEW	41292-DET	41292-DEI	—	—
[M] RCA Composite Video Module, 110-style termination (red, white, yellow)	41292-AEW	41292-AET	41292-AEI	—	—
[N] 3-Port RCA Module (red, black, yellow), feedthrough	41292-3RW	41292-3RT	41292-3RI	41292-3RG	41292-3RE
[O] 3-Port RCA Module (red, green, blue), feedthrough	41292-3DW	41292-3DT	41292-3DI	41292-3DG	41292-3DE
[P] HDMI® Module, feedthrough	41290-HDW	41290-HDT	41290-HDI	41290-HDG	41290-HDE
[Q] speakON Connector, 4-pole, screw terminal*	—	—	—	—	41297-SP4
[R] XLR Connector, 3-pole, screw terminal*	—	—	—	—	41297-XL3

^ = 110-Style VGA modules require both PC and Monitor modules used in pairs to operate. This applies to F and G only. * = 1.5-units high. speakON and XLR Connectors must be installed in 1.5-unit high MOS Passthrough Module (41297-2Px).

WALLPLATES & HOUSINGS | Multimedia Outlet System (MOS)



MOS FIBER MODULES

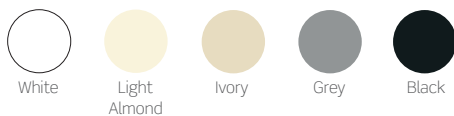
DESCRIPTION	WHITE	IVORY	GREY	BLACK
[A] 1 Duplex SC, zirconia ceramic, SM/M, blue, (1-unit high)	41291-2CW	41291-2CI	41291-2CG	41291-2CE
[B] 1 Duplex SC, zirconia ceramic, SM/MM, blue, 45° exit (1.5-units high)	41294-2CW	41294-2CI	41294-2CG	41294-2CE
[C] 1 Duplex SC, zirconia ceramic, SM/MM, blue, 45° exit (2-units high)	41292-2CW	41292-2CI	41292-2CG	41292-2CE
[D] 2 Duplex SC, zirconia ceramic, SM/MM, blue, 45° exit (3-units high)	41293-4CW	41293-4CI	41293-4CG	41293-4CE
1 Duplex ST, zirconia ceramic, SM, (1-unit high)	41291-ZTW	41291-ZTI	41291-ZTG	41291-ZTE
[E] 1 Duplex ST, phosphor bronze, MM, (1-unit high)	41291-2TW	41291-2TI	41291-2TG	41291-2TE
1 Duplex ST, zirconia ceramic, SM, 45° exit (1.5-units high)	41294-ZTW	41294-ZTI	41294-ZTG	41294-ZTE

For multimode SC adapters in beige, blue, or aqua housing, please contact inside sales at 800.722.2082.



MOS ADAPTERS & BLANK MODULES

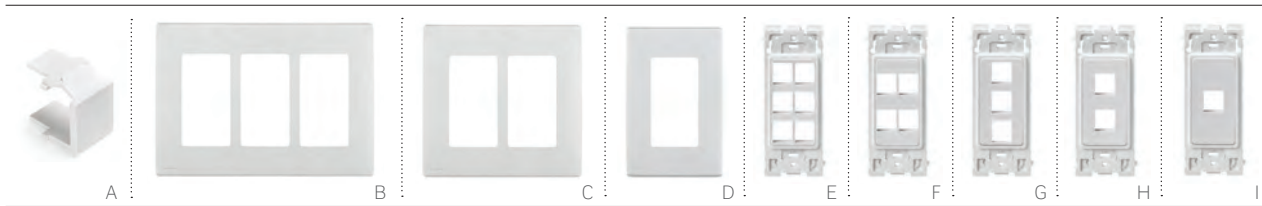
DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK
[F] 1-Port QuickPort Module (1-unit high)	41291-1MW	41291-1MT	41291-1MI	41291-1MG	41291-1ME
[G] 2-Port QuickPort Module (1-unit high)	41291-2QW	41291-2QT	41291-2QI	41291-2QG	41291-2QE
[H] 2-Port 45° Exit Angled QuickPort Module (1.5-units high)	41294-2QW	41294-2QT	41294-2QI	41294-2QG	41294-2QE
[I] Passthrough Module (1.5-units high)	41297-2PW	41297-2PI	41297-2PT	41297-2PG	41297-2PE
[J] Blank Module (0.5-unit high)	41295-5BW	41295-5BT	41295-5BI	41295-5BG	41295-5BE
[K] Blank Module (1-unit high)	41291-1BW	41291-1BT	41291-1BI	41291-1BG	41291-1BE
[L] Blank Module (1.5-units high)	41294-2BW	41294-2BT	41294-2BI	41294-2BG	41294-2BE
[M] Blank Module (2-units high)	41292-2BW	41292-2BT	41292-2BI	41292-2BG	41292-2BE



WALLPLATES & HOUSINGS | Renu® Wallplates & Inserts



Mix and match for an upscale finish to your project.



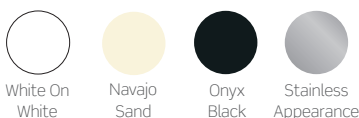
Renu Wallplates snap on and off inserts quickly and easily with no tools, simplifying installation and ongoing maintenance. Choose from wallplates and inserts in white on white, navajo sand, onyx black, and stainless appearance. They are ideal for boardrooms, executive offices, and other applications requiring a high-end finish.

RENU WALLPLATES AND INSERTS

- Screwless wallplates easily snap on to any Renu insert or device
- Inserts accept all QuickPort connectors
- Slightly larger size covers wall imperfections
- Tongue and groove design simplifies alignment in multi-gang installations
- Adapter ring allows use of Decora® device with Renu wallplates
- Available in four standard colors to coordinate with the commercial-grade QuickPort line (white, light almond, black, stainless)
- Additional wallplate colors for switches, dimmers, and outlets available; visit Leviton.com/redu
- cULus Listed
- 1 year limited warranty

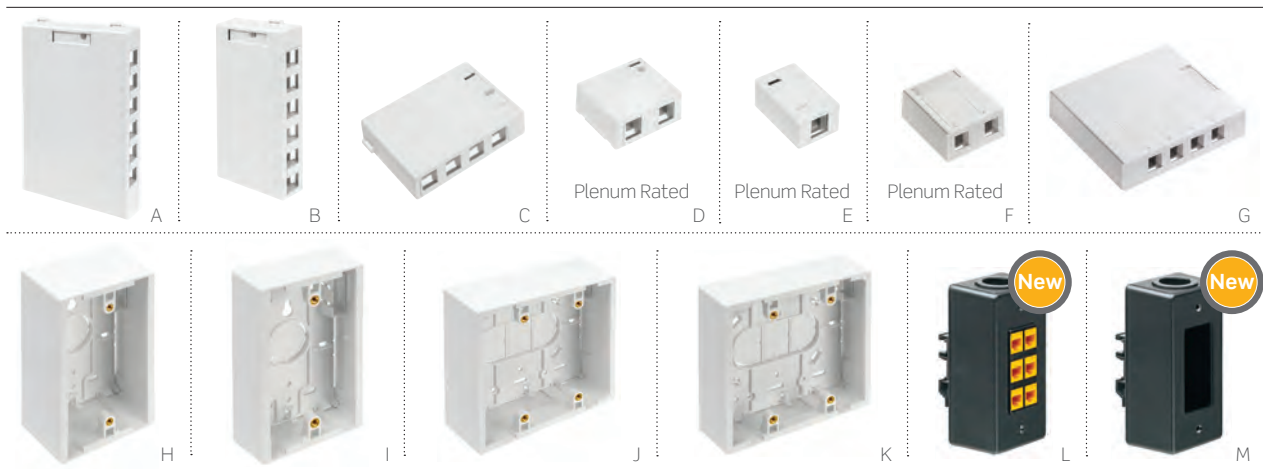
RENU WALLPLATES & INSERTS

DESCRIPTION	WHITE ON WHITE	NAVAJO SAND	ONYX BLACK	STAINLESS APPEARANCE
[A] Snap-In Blank Module	RE640-BWW	RE640-BNS	RE640-BOB	—
Four-Gang Wallplate	REWP4-OWW	REWP4-ONS	REWP4-OOB	—
[B] Three-Gang Wallplate	REWP3-OWW	REWP3-ONS	REWP3-OOB	—
[C] Dual-Gang Wallplate	REWP2-OWW	REWP2-ONS	REWP2-OOB	REWM2-ST5
[D] Single-Gang Wallplate	REWP1-OWW	REWP1-ONS	REWP1-OOB	REWM1-ST5
[E] 6-Port Insert*	RE640-WW6	RE640-NS6	RE640-OB6	—
[F] 4-Port Insert*	RE640-WW4	RE640-NS4	RE640-OB4	—
[G] 3-Port Insert*	RE640-WW3	RE640-NS3	RE640-OB3	—
[H] 2-Port Insert*	RE640-WW2	RE640-NS2	RE640-OB2	—
[I] 1-Port Insert*	RE640-WW1	RE640-NS1	RE640-OB1	—
Adapter Ring for Decora	REA00-00W	REA00-00O	REA00-00B	—



White On White Navajo Sand Onyx Black Stainless Appearance

WALLPLATES & HOUSINGS | QuickPort® Surface-Mount & DIN Rail-Mount Boxes



QUICKPORT BOXES, MODULES & ACCESSORIES

- Surface-mount boxes and back boxes have breakouts to match common raceway systems and cable entry
- 1- and 2-Port surface-mount boxes are plenum rated (compliant with NEC 300-22 (b)(c))
- Can mount with screws or adhesive mounting tape (both provided), or with magnets or modular furniture brackets (sold separately)
- 4S089 products are designed to work with Leviton shielded or UTP Cat 6A connectors to allow proper bend radius control

QUICKPORT DIN RAIL-MOUNT BOXES

- Provide an ideal network patching location for industrial automation and control panels
- Compatible with standard and low-profile 35 mm symmetrical DIN rails and 32 mm asymmetrical DIN rails
- Accept one QuickPort Decora Insert with 1, 2, 3, 4, or 6 ports
- Box depth suitable for Cat 5e or Cat 6 applications

QUICKPORT SURFACE-MOUNT BOXES

DESCRIPTION	WHITE	IVORY	GREY	BLACK
[A] 12-Port Surface-Mount Box, 7.60" W x 5.02" D x 1.13" H	41089-12W	41089-12I	41089-12G	41089-12E
[B] 6-Port Surface-Mount Box, 6.38" W x 3.22" D x 1.08" H	41089-6WP	41089-6IP	41089-6GP	41089-6EP
[C] 4-Port Surface-Mount Box, 4.77" W x 3.21" D x 1.05" H	41089-4WP	41089-4IP	41089-4GP	41089-4EP
[D] 2-Port Surface-Mount Box, 2.52" W x 2.22" D x 1.10" H	41089-2WP	41089-2IP	41089-2GP	41089-2EP
[E] 1-Port Surface-Mount Box, 1.42" W x 2.22" D x 1.10" H	41089-1WP	41089-1IP	41089-1GP	41089-1EP
[F] 2-Port Surface-Mount Box for Shielded Connectors*, 2.5" W x 3.00" D x 1.22" H	4S089-2WP	4S089-2IP	—	—
[G] 4-Port Surface-Mount Box for Shielded Connectors*, 5.6" W x 5.20" D x 1.22" H	4S089-4WP	4S089-4IP	—	—

SINGLE- AND DUAL-GANG SURFACE-MOUNT BACK BOXES

[H] Single-Gang Standard Back Box, 4.72" H x 2.96" W x 1.89" D	42777-1WA	42777-1IA	42777-1GA	42777-1EA
[I] Single-Gang Shallow Back Box, 4.72" H x 2.96" W x 1.45" D	42777-1WB	42777-1IB	42777-1GB	42777-1EB
[J] Dual-Gang Standard Back Box, 4.72" H x 4.77" W x 1.89" D	42777-2WA	42777-2IA	42777-2GA	42777-2EA
[K] Dual-Gang Shallow Back Box, 4.72" H x 4.77" W x 1.45" D	42777-2WB	42777-2IB	42777-2GB	42777-2EB

*For shielded connectors and large bend radius cables.

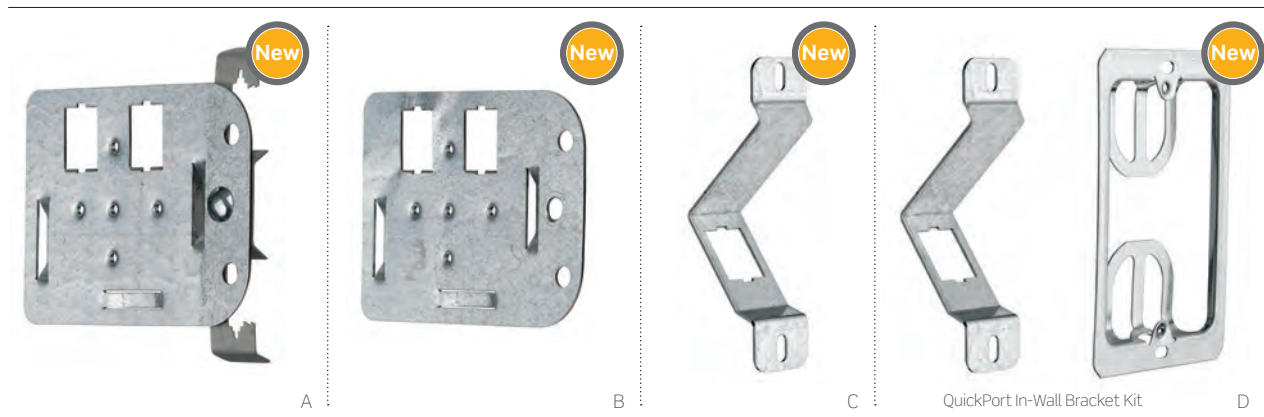
QUICKPORT DIN RAIL-MOUNT BOXES

[L] DIN Rail-Mount Box, with 6-port QuickPort Decora Insert*	—	—	—	41089-6DN
[M] DIN Rail-Mount Box, Empty	—	—	—	41089-0DN

*QuickPort Connectors not included. See pages A32-A34.



WALLPLATES & HOUSINGS | QuickPort® In-Wall & In-Ceiling Brackets



QuickPort® In-Ceiling and In-Wall Brackets help create a testable permanent link for cabling that terminates above a drop ceiling, or in the wall without using a traditional wallplate. They provide a fixed location for the connector after termination, reducing the potential for damage prior to installation.

IN-CEILING BRACKET

- Brackets available individually or with pre-installed multi-function clip that attaches to standard drop wire/rod
- Velcro® tie-down points accommodate cabling slack loops
- Plenum-rated QuickPort 1-port and 2-port surface-mount boxes (sold separately) attach to brackets and are ideal for use in drop ceiling areas

IN-WALL BRACKET

- Provides a stable mounting surface connectors that are recessed behind the wall surface
- Ideal for supporting Ethernet-enabled devices — such as WAPs, cameras, or clocks — that mount to electrical / low voltage boxes or directly to the wall
- Available as a set of 5 brackets, or individually kitted with a single-gang low voltage Wallplate Mounting Bracket

QUICKPORT IN-WALL & IN-CEILING BRACKETS		
[A]	QuickPort In-Ceiling Bracket, includes clip for drop wire/rod mounting	49223-CBC
[B]	QuickPort In-Ceiling Bracket, no clip	49223-CB0
[C]	QuickPort In-Wall Brackets (set of 5)	49223-BA5
[D]	QuickPort In-Wall Bracket Kit, includes bracket and single-gang Wallplate Mounting Bracket	49223-BAK



In-Ceiling Bracket with plenum-rated Surface-Mount Box. See page D10 for more information.

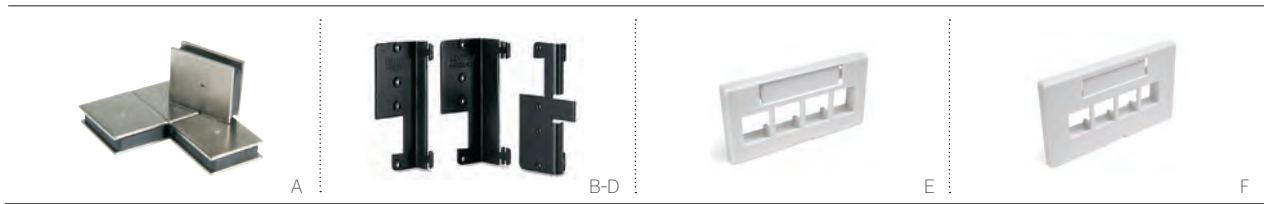


Two In-Wall Brackets

QuickPort In-Wall & In-Ceiling Brackets

WALLPLATES & HOUSINGS

WALLPLATES & HOUSINGS | QuickPort® Modular Furniture Products



QuickPort Modular Furniture Products offer simple snap-in installation and an attractive streamlined appearance. Furniture faceplates accept QuickPort connectors and snap easily and snugly into standard modular furniture. Modular Furniture Brackets facilitate installation of Leviton surface-mount boxes or faceplates with back boxes.

MAGNETS AND MODULAR FURNITURE BRACKETS

DESCRIPTION

(Use one magnet for 2-port surface-mount housing. Use two magnets for 4-, 6-, 12-port, and MOS surface-mount housing and single- and dual-gang surface-mount back boxes.)

PART NO.

[A] Set of 4 Magnets, 1.00" H x 0.84" W x 0.30" D 41030-SMJ

MODULAR FURNITURE BRACKETS

[B] Steelcase 9000®, Haworth®, Knoll®, Allsteel®, Westinghouse®, and Teknion® 49222-BLK

[C] Herman Miller Ethospace® and Steelcase Avenir® 49222-ESP

[D] Herman Miller Action Office® 49222-HAO

QUICKPORT MODULAR FURNITURE FACEPLATES

DESCRIPTION	WHITE	IVORY	GREY	BLACK
2-Port Standard Depth	49910-SW2	49910-SI2	49910-SG2	49910-SE2
[E] 4-Port Standard Depth w/ 1 QuickPort Blank	49910-SW4	49910-SI4	49910-SG4	49910-SE4
4-Port Extended Depth w/ 1 QuickPort Blank	49910-EW4	49910-EI4	49910-EG4	49910-EE4
2-Port Herman Miller	49910-HW2	49910-HI2	49910-HG2	49910-HE2
[F] 4-Port Herman Miller w/ 1 QuickPort Blank	49910-HW4	49910-HI4	49910-HG4	49910-HE4



White



Ivory



Grey

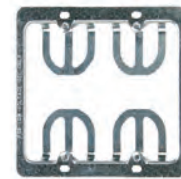


Black

Standard- and extended-depth faceplates are compatible when used with Herman Miller G1189A Reducer, available from Herman Miller dealers.

WALLPLATE ACCESSORIES

DESCRIPTION	PART NO.
[G] Wallplate Mounting Brackets, single-gang, bulk polybag pack, 2 brackets per unit, rack pack carton	C0224-000
[H] Wallplate Mounting Bracket, dual-gang, individual polybag pack, rack pack carton	C0225-0CP



G, H



DURAPORT CONNECTOR HOUSING

- Twist-lock mating allows for easy installation and provides a robust seal
- Compatible with eXtreme® 6+ and 5e+ QuickPort® connectors
- Captive connector cap with retainer protects and seals unused ports

DURAPORT OUTLET KIT

- DuraPort components packaged together for added convenience
- Kits include connector housing, connector cap, and stainless-steel wallplate
- Patch cords and QuickPort connectors are sold separately

DURAPORT STAINLESS-STEEL WALLPLATE

- Patented overmolded gasket on wallplates provides a watertight fit
- Compatible with standard NEMA boxes

DURAPORT PATCH CORDS

- Available in industrial plug to industrial plug, and industrial plug to RJ-45 plug configurations
- Patch cords are Cat 6 rated

IP67-RATED INGRESS PROTECTION

IP ratings are based on International Standard IEC 60529. All DuraPort products are IP67 rated as highlighted in the charts.

See page X14 for more information on NEMA and IEC enclosure certification.

PROTECTION AGAINST SOLID OBJECTS

0	None
1	Solid objects larger than 50 mm
2	Solid objects larger than 12.5 mm
3	Solid objects larger than 2.5 mm
4	Solid objects larger than 1.0 mm
5	Dust
6	Dust tight

PROTECTION AGAINST WATER

0	None
1	Vertically falling water drops
2	Vertically falling water drops (up to 15° angle)
3	Spraying water
4	Splashing water
5	Water jets
6	Powerful water jets
7	Temporary immersion in water
8	Continuous immersion in water

SPOTLIGHT Industrial Wallplate Design



The DuraPort industrial wallplate is manufactured with a patented, industry-first, overmolded gasket that provides a watertight fit. The gasket seals not only the edge of the plate where it meets the wall, but also extends behind each mounting screw hole for a complete seal without the need for conventional O-rings. In addition to providing exceptional sealing, the integrated wallplate and gasket also help to position and retain screws during installation, so the wallplate aligns perfectly and seats flush every time. All this translates into IP67-class protection that safeguards your network in severe conditions and resists moisture, dust, corrosion, acids, oils, and vibration.

DURAPORT INDUSTRIAL CONNECTOR HOUSINGS

DESCRIPTION	PART NO.
[A] Cat 6 Industrial Connector Housing w/ Connector Cap (product supplied w/ black 61110 connector)	D6706-00E
Cat 5e Industrial Connector Housing w/ Connector Cap (product supplied w/ black 5G110 connector)	D675E-00E
Housing w/ Connector Cap (connector not included)	D6700-00E
Connector Cap (connector and housing not included)	D6701-00E

DURAPORT INDUSTRIAL STAINLESS-STEEL WALLPLATES

[B] Industrial Wallplate, stainless steel, 1-port, single-gang	D6710-1S1
[C] Industrial Wallplate, stainless steel, 2-port, single-gang	D6710-1S2
[D] Industrial Wallplate, stainless steel, 2-port, dual-gang	D6710-2S2
[E] Industrial Wallplate, stainless steel, 4-port, dual-gang	D6710-2S4

DURAPORT INDUSTRIAL PATCH CORDS, CAT 6

DESCRIPTION	3 FT.	5 FT.	7 FT.	10 FT.	15 FT.	20 FT.
[F] Industrial Plug to Industrial Plug	D6720-03E	D6720-05E	D6720-07E	D6720-10E	D6720-15E	D6720-20E
[G] Industrial Plug to RJ-45 Plug	D6721-03E	D6721-05E	D6721-07E	D6721-10E	D6721-15E	D6721-20E

DURAPORT INDUSTRIAL OUTLET KITS

Industrial Outlet Kit, stainless steel, 1-port, single-gang	D670K-1S1
[H] Industrial Outlet Kit, stainless steel, 2-port, single-gang	D670K-1S2
Industrial Outlet Kit, stainless steel, 2-port, dual-gang	D670K-2S2
[I] Industrial Outlet Kit, stainless steel, 4-port, dual-gang	D670K-2S4

SPOTLIGHT

QuickPort DIN Rail-Mount Boxes



New compact QuickPort DIN Rail-Mount Boxes are ideal for network patching inside industrial automation and control panels. The boxes are available empty or with a Leviton 6-Port QuickPort® Decora® insert installed, and can be opened to install other QuickPort Decora inserts. The back panel of each box can be configured to allow cable access at either the top or bottom, increasing flexibility within tight control enclosures. The box depth is suitable for Cat 5e and Cat 6 connectors. Learn more on page D10.

WALLPLATES & HOUSINGS | 86 mm x 86 mm Excella® British Standard



EXCELLA WALLPLATE INSERTS & FRAMES

- All 1- and 2-port inserts include designation windows
- Inserts accept QuickPort® connectors (sold separately)
- 86 mm x 86 mm frame size conforms to BS 4662 and BS 5733 electrical box standards
- Inserts are white and ship with white wallplate frame
- Colored frames available separately (see colors and part numbers below)

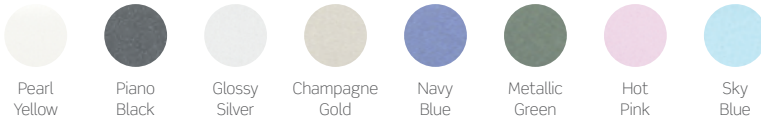
EXCELLA WALLPLATE INSERTS

DESCRIPTION	PART NO.
[A] QuickPort Wallplate Insert w/ ID Window, 1-port, empty	BL186-P1W
QuickPort Wallplate Insert w/ ID Window, 2-port, empty	BL186-P2W
QuickPort Wallplate Insert, 4-port, empty	BL186-P4W
[B] QuickPort Angled Wallplate Insert w/ ID Window, 1-port, empty	BL186-A1W
QuickPort Angled Wallplate Insert w/ ID Window, 2-port, empty	BL186-A2W
Blank Wallplate Insert	BL000-00W

EXCELLA METALLIC WALLPLATE FRAMES

Wallplate Frame, pearl yellow	BLWP1-PEY
Wallplate Frame, piano black	BLWP1-PIB
Wallplate Frame, glossy silver	BLWP1-GSS
Wallplate Frame, champagne gold	BLWP1-CHG
Wallplate Frame, navy blue	BLWP1-NVB
Wallplate Frame, metallic green	BLWP1-MEG
Wallplate Frame, hot pink	BLWP1-HTP
Wallplate Frame, sky blue	BLWP1-SKB

Wallplates sold empty. See pages A32-A34, B66, and C14-C15 for QuickPort connectors.



Pearl Yellow

Piano Black

Glossy Silver

Champagne Gold

Navy Blue

Metallic Green

Hot Pink

Sky Blue

WALLPLATES & HOUSINGS | 86 mm x 86 mm French, British, & LJ6C Style



FRENCH-, BRITISH- & LJ6C-STYLE WALLPLATE INSERTS

- Designed to fit matching 86 mm x 86 mm wallplates
- Accept QuickPort® data connectors (sold separately)
- Include ID window kits for port designation
- Spring-loaded shutters protect connector while not in use
- Available in white ABS plastic

DIMENSIONS

- French-style inserts fit 45 mm x 45 mm openings
- British-style inserts fit 50 mm x 50 mm openings
- LJ6C-style inserts fit 22 mm x 37 mm openings

[A] FRENCH-STYLE WALLPLATE INSERTS

DESCRIPTION	PART NO.
French-style Wallplate Insert, 45 mm x 22.5 mm, 1-port, flat, white	LI145-1W1
French-style Wallplate Insert, 45 mm x 45 mm, 1-port, flat, white	LI145-2W1
French-style Wallplate Insert, 45 mm x 45 mm, 2-port, flat, white	LI145-2W2
French-style Wallplate Frame (for use with French-style LI145 inserts only), single-gang, white (special order)	LF145-01W

[B] BRITISH-STYLE WALLPLATE INSERTS

British-style Wallplate Insert, 50 mm x 25 mm, 1-port, flat, white	LI150-1W1
British-style Wallplate Insert, 50 mm x 25 mm, 1-port, angled, white	LI150-AW1
British-style Wallplate Insert, 50 mm x 50 mm, 1-port, flat, white	LI150-2W1
British-style Wallplate Insert, 50 mm x 12.5 mm, blank, flat, white	LI150-0W0

[C] LJ6C-STYLE WALLPLATE INSERTS

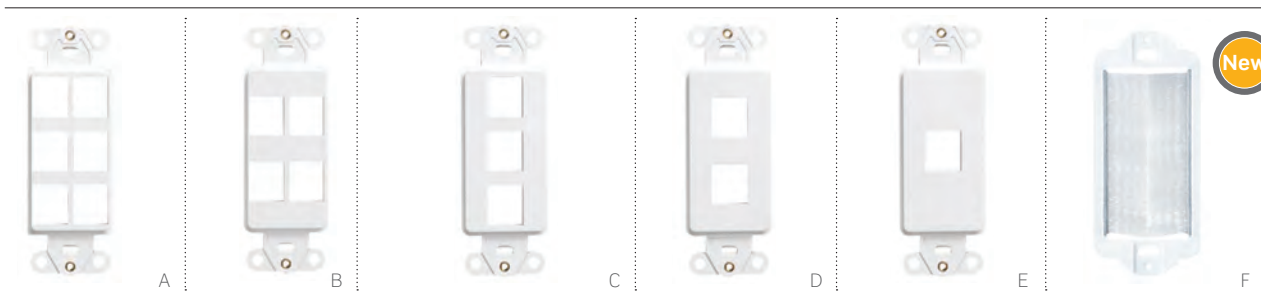
LJ6C-style Wallplate Insert, 37 mm x 22 mm, 1-port, flat, white	LI137-1W1
LJ6C-style Wallplate Insert, 37 mm x 22 mm, 1-port, angled, white	LI137-AW1

Note: French-style, British-style, and LJ6C-style inserts are not compatible with Excella® wallplates.

86 mm French,
British, & LJ6C Style

WALLPLATES & HOUSINGS

WALLPLATES & HOUSINGS | QuickPort® Decora® Inserts & Floor Box Assemblies



QUICKPORT DECORA & DUPLEX INSERTS

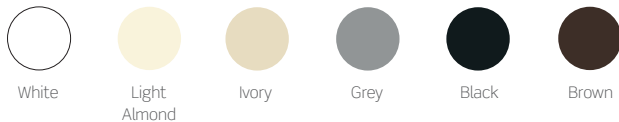
- Combine voice, data, and AV connectors in popular Decora and Duplex wallplate formats
- Decora inserts are compatible with Decora and Decora Plus wallplates



Inserts fit Decora wallplates found on page D19.

QUICKPORT DECORA MULTIMEDIA INSERTS						
DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	BROWN
[A] 6-Port Insert	41646-00W	41646-00T	41646-00I	41646-0GY	41646-00E	41646-00B
[B] 4-Port Insert	41644-00W	41644-00T	41644-00I	41644-0GY	41644-00E	41644-00B
[C] 3-Port Insert	41643-00W	41643-00T	41643-00I	41643-0GY	41643-00E	41643-00B
[D] 2-Port Insert	41642-00W	41642-00T	41642-00I	41642-0GY	41642-00E	41642-00B
[E] 1-Port Insert	41641-00W	41641-00T	41641-00I	41641-0GY	41641-00E	41641-00B
Blank Insert	80414-00W	80414-00T	80414-00I	80414-0GY	80414-00E	80414-00B
[F] Brush Insert, Passthrough	41075-DBW	—	—	—	—	—

Inserts A-G are sold empty. See pages A32-A34, B66, and C14-C15 for QuickPort connectors.

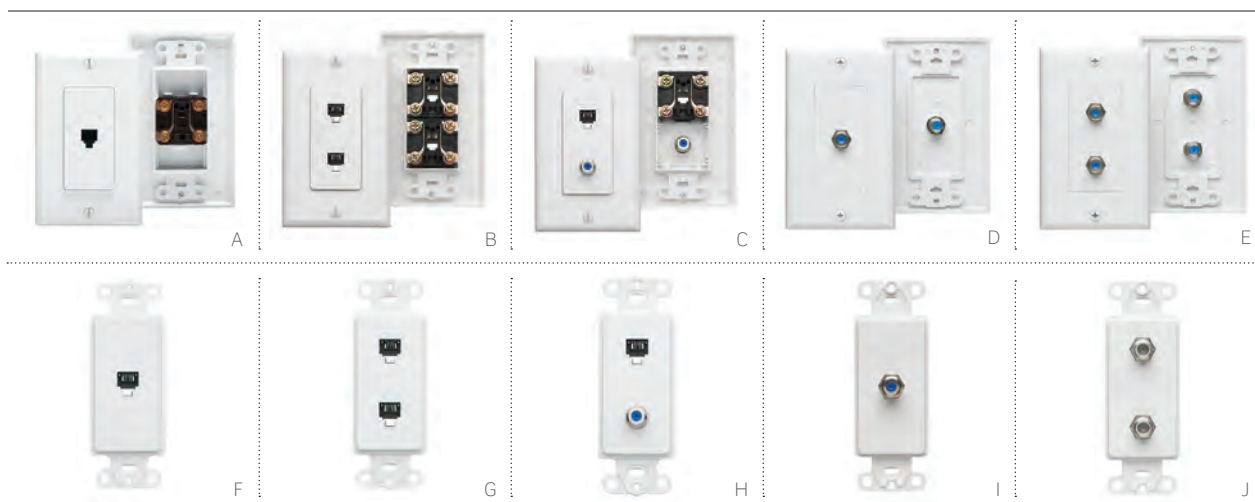


See page A38 for Work-Area Labeling Solutions.

QuickPort Decora Inserts & Floor Box

WALLPLATES & HOUSINGS

WALLPLATES & HOUSINGS | Decora® Telephone & Video Wallplates & Inserts



DECORA TELEPHONE & VIDEO WALLPLATES

- 6P4C models feature lead-frame design for improved reliability and simple installation
- Decora inserts are compatible with Decora wallplates and Decora Plus screwless wallplates
- Decora wallplate assemblies include a Decora insert and matching Decora wallplate
- Decora Kits include a 1- or 2-port QuickPort® Decora insert and snap-in USOC or F-type QuickPort connectors
- Inserts, assemblies, and kits are cULus Listed and rated UL 94V-0



Inserts fit Decora Wallplates found on page D19.

DECORA STANDARD TELEPHONE & VIDEO WALLPLATE ASSEMBLIES (WALLPLATE INCLUDED)

DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	BROWN
[A] Wall Jack, 6P4C	40149-00W	40149-00T	40149-00I	—	—	—
[B] Wall Jack, 6P4C + 6P4C	40144-00W	40144-00T	40144-00I	—	—	—
[C] Wall Jack, 6P4C + F-connector	40159-00W	40159-00T	40159-00I	—	—	—
[D] Wall Jack, F-connector	40981-0WD	40981-0TD	40981-0ID	—	—	—
[E] Wall Jack, F-connector + F-connector	40982-0WD	40982-0TD	40982-0I	—	—	—

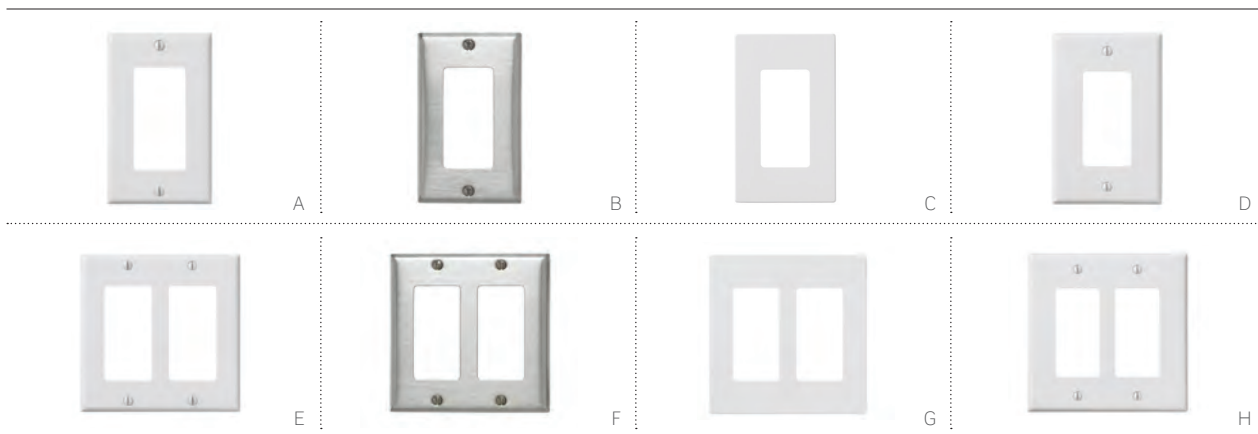
DECORA TELEPHONE & VIDEO INSERTS (WALLPLATE NOT INCLUDED)

[F] Wall Jack, 6P4C	40649-00W	40649-00T	40649-00I	40649-0GY	40649-00E	40649-000
[G] Wall Jack, 6P4C + 6P4C	40644-00W	40644-00T	40644-00I	—	—	—
[H] Wall Jack, 6P4C + F-connector	40659-00W	40659-00T	40659-00I	—	40659-00E	—
[I] Wall Jack, F-connector	40681-00W	40681-00T	40681-00I	40681-0GY	—	40681-00B
[J] Wall Jack, F-connector + F-connector	40682-00W	40682-00T	40682-00I	40682-0GY	—	40682-000

DECORA TELEPHONE & VIDEO INSERT KITS (WALLPLATE NOT INCLUDED)

Wall Jack, 6P6C (QuickPort insert with snap-in jack)	41638-00W	41638-00T	41638-00I	41638-0GY	41638-00E	—
Wall Jack, 6P6C + F-connector (QuickPort insert with snap-in jack and snap-in F-connector)	41658-00W	—	41658-00I	—	—	—

WALLPLATES & HOUSINGS | Decora® Single-Gang & Dual-Gang Wallplates

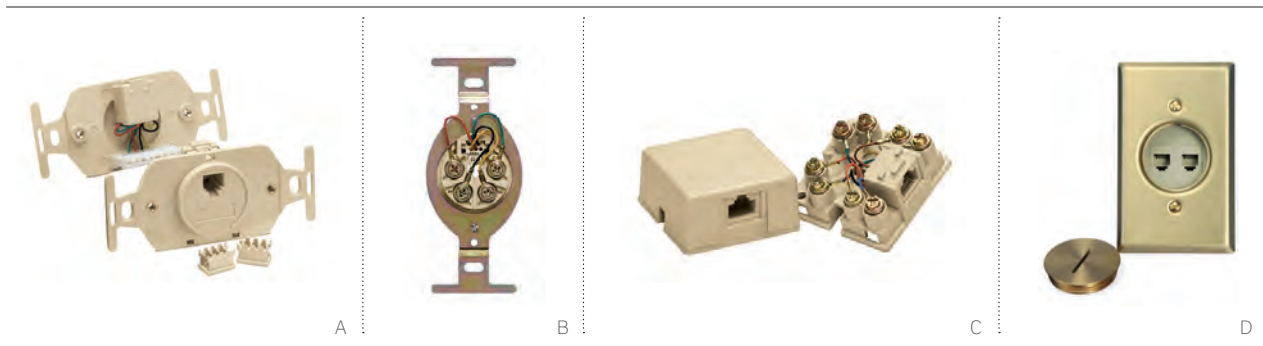


Standard Decora and Decora Plus wallplates accept a variety of inserts for voice, data, and video applications. Refer to page X14 for more detailed material properties. Decora Plus wallplates use a screwless design. Numerous additional configurations are available; call 800.722.2082 or visit Leviton.com for more information.

DECORA SINGLE-GANG WALLPLATES							
DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	BROWN	STAINLESS
[A] Decora, standard size, urea	80401-00W	80401-00T	80401-00I	80401-0GY	80401-00E	80401-000	—
Decora, standard size, nylon	80401-0NW	80401-0NT	80401-0NI	80401-0NGY	80401-0NE	80401-00N	—
[B] Decora, standard size, stainless	—	—	—	—	—	—	84401-040
[C] Decora Plus, standard size, polycarbonate	80301-0SW	80301-0ST	80301-0SI	80301-0SGY	80301-0SE	80301-0S0	—
[D] Decora, midway, urea	80601-00W	80601-00T	80601-00I	—	—	80601-000	—
Decora, midway, nylon	0PJ26-00W	0PJ26-00T	0PJ26-00I	0PJ26-0GY	0PJ26-00E	0PJ26-000	—
DECORA DUAL-GANG WALLPLATES							
[E] Decora, standard size, urea	80409-00W	80409-00T	80409-00I	80409-0GY	80409-00E	80409-000	—
Decora, standard size, nylon	80409-0NW	80409-0NT	80409-0NI	80409-0NGY	80409-0NE	80409-00N	—
[F] Decora, standard size, stainless	—	—	—	—	—	—	84409-040
[G] Decora Plus, standard size, polycarbonate	80309-0SW	80309-0ST	80309-0SI	80309-0SGY	80309-0SE	80309-0S0	—
[H] Decora, midway, urea	80609-00W	80609-00T	80609-00I	—	—	80609-000	—
Decora, midway, nylon	PJ262-00W	PJ262-00T	PJ262-00I	PJ262-0GY	PJ262-00E	PJ262-000	—



WALLPLATES & HOUSINGS | Round Telephone Inserts & Surface-Mount Boxes



ROUND TELEPHONE INSERTS & SURFACE-MOUNT BOXES

- Round inserts available with screw terminal or 110 terminations
- See page D21 for wallplates with round openings
- Surface-mount boxes feature 4-, 6-, and 8-conductor screw terminal connections
- Shorting bar option for use with monitored home security systems

QUICKPORT FLOOR BOX ASSEMBLIES

- Combine voice, data, and AV connectors in convenient in-floor locations
- Floor box assemblies include brass wallplate and screw cap
- Inserts and connectors are ivory

ROUND TELEPHONE INSERTS

DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY
[A] Round Insert, 6P4C, 110 termination	—	—	41054-IDD	—
[B] Round Insert, 6P4C, screw terminal	—	—	40201-00I	—

SURFACE-MOUNT TELEPHONE BOXES

Surface-Mount Box, 6P4C, screw terminal	4625A-24W	—	4625A-24I	—
Surface-Mount Box, 6P6C, screw terminal	4625A-26W	—	4625A-26I	—
[C] Surface-Mount Box, 8P8C, screw terminal	40278-00W	40278-00T	40278-00I	40278-00G
Surface-Mount Box, 8P8C w/ shorting bar, screw terminal, RJ-31X	—	40278-SBT	40278-SBI	—

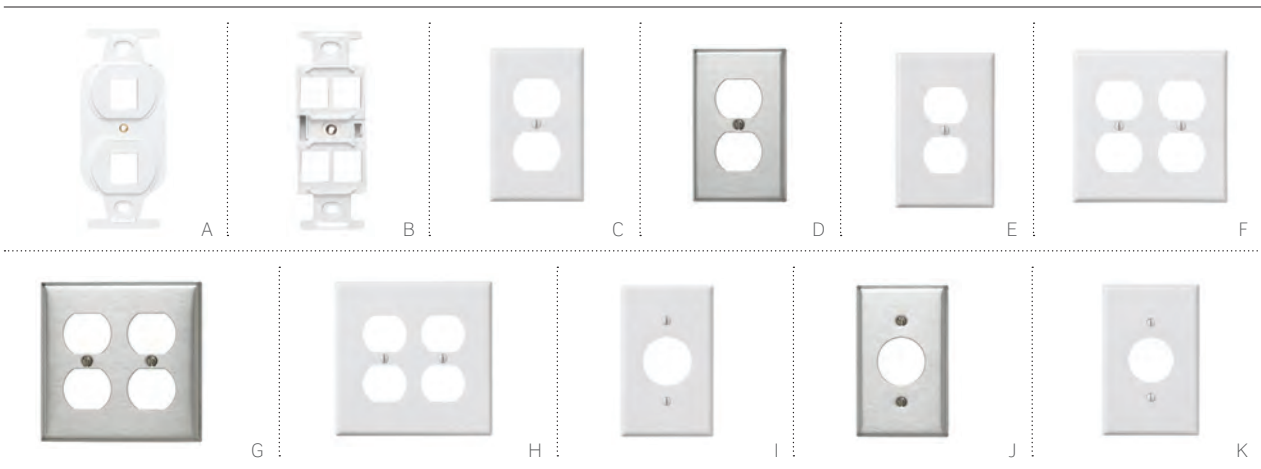
QUICKPORT FLOOR BOX ASSEMBLY W/ INSERT, BRASS PLATE & SCREW CAP

DESCRIPTION	PART NO.
Floor Box Assembly, one F-connector module, one blank module	41650-00F
Floor Box Assembly, one 6P6C connector, one blank module	41650-006
Floor Box Assembly, two port, includes one blank module	41652-000
[D] Floor Box Assembly, two 6P6C connectors	41652-006
Floor Box Assembly, one 6P6C connector, one F-connector module	41652-06F

Floor Box Assemblies sold as complete kits only, individual components not sold separately.



WALLPLATES & HOUSINGS | Duplex, Round Opening & Blank Wallplates



Standard 106-style duplex receptacle wallplates accept QuickPort® footprint inserts with either two or four openings. Round opening wallplates accept 110-style or screw terminal inserts (see page D20). Stainless wallplates are constructed of type 302 stainless steel.

QUICKPORT DECORA TYPE 106 DUPLEX INSERTS

DESCRIPTION	WHITE	LT. ALMOND	IVORY	GREY	BLACK	BROWN	STAINLESS
[A] 2-Port Duplex Insert	41087-2WP	41087-2TP	41087-2IP	41087-2GP	41087-2EP	—	—
[B] 4-Port Duplex Insert	41087-QWP	41087-QTP	41087-QIP	41087-QGP	41087-QEP	—	—

DUPLEX SINGLE-GANG WALLPLATES

[C] Duplex, standard size, urea	88003-000	78003-000	86003-000	87003-000	—	85003-000	—
Duplex, standard size, nylon	80703-00W	—	80703-00I	80703-0GY	80703-00E	80703-000	—
[D] Duplex, standard size, stainless	—	—	—	—	—	—	84003-040
[E] Duplex, midway, urea	80503-00W	80503-00T	80503-00I	—	—	80503-000	—
Duplex, midway, nylon	00PJ8-00W	00PJ8-00T	00PJ8-00I	00PJ8-0GY	00PJ8-00E	00PJ8-000	—

DUPLEX DUAL-GANG WALLPLATES

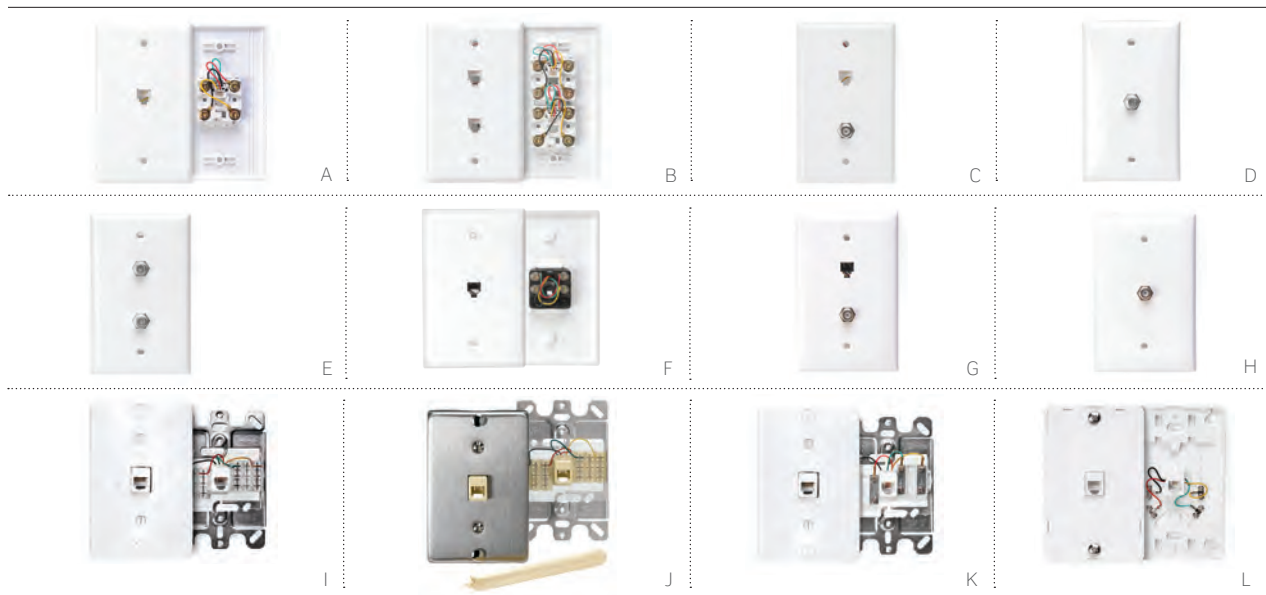
[F] Duplex, standard size, urea	88016-000	78016-000	86016-000	87016-000	—	85016-000	—
Duplex, standard size, nylon	80716-00W	80716-00T	80716-00I	80716-0GY	80716-00E	80716-000	—
[G] Duplex, standard size, stainless	—	—	—	—	—	—	84016-040
[H] Duplex, midway, urea	80516-00W	80516-00T	80516-00I	—	—	80516-000	—
Duplex, midway, nylon	0PJ82-00W	0PJ82-00T	0PJ82-00I	0PJ82-0GY	0PJ82-00E	0PJ82-000	—

ROUND OPENING SINGLE-GANG WALLPLATES

[I] Round Opening, stnd size, urea	88004-000	78804-000	86004-000	—	—	85004-000	—
Round Opening, stnd size, nylon	80704-00W	80704-00T	80704-00I	80704-0GY	80704-00E	80704-000	—
[J] Round Opening, stnd size, stainless	—	—	—	—	—	—	84004-040
[K] Round Opening, midway, urea	80504-00W	80504-00T	80504-00I	—	—	80504-000	—
Round Opening, midway, nylon	00PJ7-00W	00PJ7-00T	00PJ7-00I	—	—	—	—



WALLPLATES & HOUSINGS | Telephone & Video Wallplates



TELEPHONE & VIDEO WALLPLATES

- Provide quick at-the-wall connections for RJ-11 telephone and F-connection video applications
- High-quality ABS plastic or nylon, which provides superior resistance to impacts, chemicals, and solvents as compared to other plastics
- Midway wallplates hide irregular drywall cuts or flaws around outlets
- cULus Listed, fire-retardant material rated UL 94V-0

TELEPHONE WALL-PHONE JACKS

- Wall-phone jacks available in 4- or 6-conductor models
- Screw terminal or quick-connect termination options
- Quick-connect products include plastic punchdown tool

STANDARD TELEPHONE & VIDEO WALLPLATES

DESCRIPTION	WHITE	LT. ALMOND	IVORY	BROWN
[A] Wall Jack, 6P4C	40249-00W	40249-00T	40249-00I	—
[B] Wall Jack, 6P4C + 6P4C	40244-00W	40244-00T	40244-00I	—
[C] Wall Jack, 6P4C + F-connector	40259-00W	40259-00T	40259-00I	—
[D] Wall Jack, F-connector	80781-00W	80781-00T	80781-00I	—
[E] Wall Jack, F-connector + F-connector	80782-00W	80782-00T	80782-00I	—
Wall Jack, 6P6C	40238-00W	—	—	—
Wall Jack, 6P6C + F-connector	40258-00W	—	—	—

MIDWAY TELEPHONE & VIDEO WALLPLATES (NYLON)

[F] Wall Jack, 6P4C	40539-PMW	40539-PMT	40539-PMI	40539-PMB
[G] Wall Jack, 6P4C + F-connector	40539-CMW	40539-CMT	40539-CMI	40539-CMB
[H] Wall Jack, F-connector	40539-0MW	40539-0MT	40539-0MI	40539-0MB

WALL-PHONE JACK WALLPLATES - 110-STYLE

DESCRIPTION	WHITE	LT. ALMOND	IVORY	STAINLESS
[I] Wall-Phone Jack, 6P4C quick-connect, plastic w/ metal base	40253-00W	40253-00T	40253-00I	—
[J] Wall-Phone Jack, 6P4C quick-connect, stainless w/ metal base	—	—	—	40223-00S

WALL-PHONE JACK WALLPLATES - SCREW TERMINAL

[K] Wall-Phone Jack, 6P4C screw terminal, plastic w/ metal base	40257-00W	—	—	—
[L] Wall-Phone Jack, 6P4C screw terminal, plastic w/ plastic base	40214-00W	40214-00T	40214-00I	—
Wall-Phone Jack, 6P6C screw terminal, stainless w/ metal base	—	—	—	40226-00S

See page D21 for color options.

CABLE MANAGEMENT



SECTION

E

SECTION E CONTENTS

- E3** Overhead Infrastructure Platform
- E5** Fiber Raceway System
- E13** Versi-Duct® Cable Management System
- E15** Horizontal Cable Managers
- E16** Rear Cable Managers, Blanks & Transitional Covers
- E17** Rings & Brackets
- E18** VELCRO® Brand Fasteners
- E20** Zone Enclosures
- E21** Wireless Access Point Enclosures
- E22** 110-Style Wiring Cable Management



OVERHEAD INFRASTRUCTURE PLATFORM

The Overhead Infrastructure Platform provides independent support for cabling pathways, power, lighting, and other infrastructure. Platforms can carry the load of cables and ladder trays while freeing up rack space by adding patching above cabinets or racks. Since cabinets and racks are not attached, power and cabling can be quickly disconnected without removing hardware.

FEATURES

- Eliminates the need to thread cable through ceiling supports and install suspended ladder trays
- Allows unobstructed access to overhead cabling
- Faster deployment, decommissioning, or replacement of server cabinets
- Reduced installation costs and fewer on-site problems
- Complies with TIA-569, cULus Listed, and meets ANSI STANDARD T1.336-2003 Tier 1 Universal Telecom Framework
- Includes industry-compliant bonding and grounding points

OVERHEAD INFRASTRUCTURE PLATFORM (CALL INSIDE SALES FOR ORDERING ASSISTANCE)			
DESCRIPTION	36" WIDE	42" WIDE	48" WIDE
Overhead Infrastructure Platform, 96" H	OIPFR-36A	OIPFR-42A	OIPFR-48A
Overhead Infrastructure Platform, 108" H	OIPFR-36B	OIPFR-42B	OIPFR-48B
Overhead Infrastructure Platform, 120" H	OIPFR-36C	OIPFR-42C	OIPFR-48C

Please contact inside sales at 800.722.2082 for more information. For assembly and floor mounting instructions, go to Leviton.com/OIP.

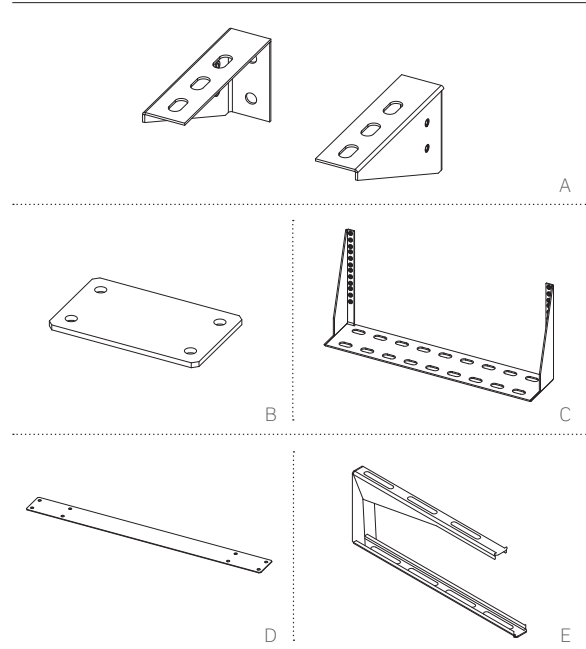


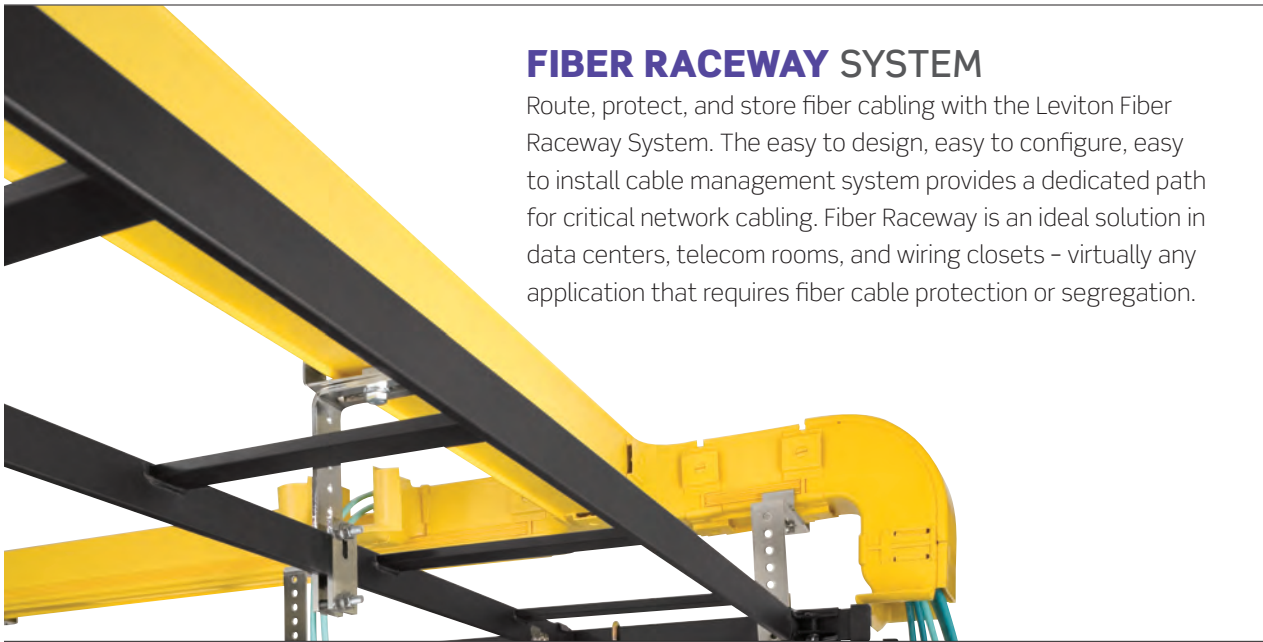
ACCESSORIES

- **Frame Drill Template** - used to lay out Overhead Infrastructure Platform frame mounting locations
- **Channel Attachment Bracket Kit** - Left/Right brackets mount to standard steel channel framing to span the platform
- **Sub-Floor Mounting Kit** - plate for bottom of a raised floor tile that accepts standard threaded rod
- **C-Brackets** - creates a two-tier mounting surface for ladder trays or wire baskets; available in a variety of sizes
- **Patch Panel Bracket** - mounted on the steel channel above the cabinet and accepts standard 19" patch panels or other fiber enclosures, providing up to 4RU of additional patching capability

OVERHEAD INFRASTRUCTURE PLATFORM ACCESSORIES (Call Inside Sales for ordering assistance)

DESCRIPTION	PART NO.
[A] Channel Attachment Bracket Kit (2 included)	OIPFR-CAB
[B] Sub-Floor Mounting Kit (2 included)	OIPAC-SFM
[C] Patch Panel Bracket	OIPAC-PPB
36" Frame Drill Template	OIPDT-36W
[D] 42" Frame Drill Template	OIPDT-42W
48" Frame Drill Template	OIPDT-48W
6/6" Frame Extension Mounting C-Bracket	OIP06-06C
8/8" Frame Extension Mounting C-Bracket	OIP08-08C
12/8" Frame Extension Mounting C-Bracket	OIP12-08C
20/8" Frame Extension Mounting C-Bracket	OIP20-08C
[E] 20/18" Frame Extension Mounting C-Bracket	OIP20-18C
24/12" Frame Extension Mounting C-Bracket	OIP24-12C
24/20" Frame Extension Mounting C-Bracket	OIP24-20C
30/24" Frame Extension Mounting C-Bracket	OIP30-24C





FIBER RACEWAY SYSTEM

Route, protect, and store fiber cabling with the Leviton Fiber Raceway System. The easy to design, easy to configure, easy to install cable management system provides a dedicated path for critical network cabling. Fiber Raceway is an ideal solution in data centers, telecom rooms, and wiring closets - virtually any application that requires fiber cable protection or segregation.

Adapts to Any Application

Raceway components are available in three colors (yellow is standard; orange and black are special order), four standard sizes, and a wide variety of styles. Ducting is available solid or slotted, with or without covers; connecting components enable drop-offs and routing around obstacles. Mounting kits allow overhead, raised-floor, and vertical installation.

Assembles Quickly and Easily

Ducting is easily cut to size with a mitre saw, and the system installs with only a screwdriver and other simple carpentry tools. Connection components, including vertical and horizontal outlets and hardware-free covers, snap together tool free, saving time and money. Side drop-off kits can be added after initial installation anywhere along the Raceway to accommodate new cable routing to racks and cabinets.

Preserves Fiber Integrity

High-impact thermoplastic construction ensures ample protection, rigidity, and support. Ducting won't sag under heavy cable loads, and accidental cable damage is prevented, minimizing network downtime. Plus, the system maintains a minimum bend radius of 30 mm at all times.

Reduces Fire Damage

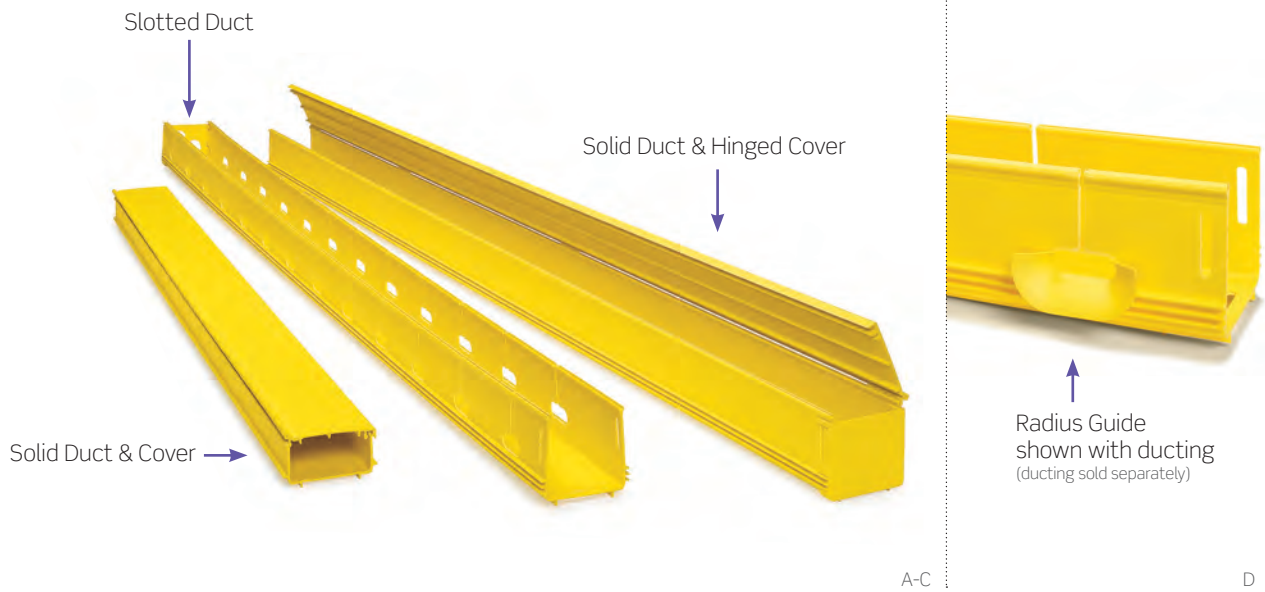
The Fiber Raceway System is UL 2024A listed for riser-rated telecommunications applications. In addition, raceway materials carry one of UL's highest flammability ratings, 94 V-0. They are also halogen-free and produce no corrosive acid or toxic gas emissions in the event of fire, making them ideal for sensitive environments from hospitals and nursing homes to telecom rooms and data centers.

SPOTLIGHT Fiber Raceway Application Notes



Leviton offers downloadable **Fiber Raceway** resources, including application notes, Visio® stencils, and a training video, available at Leviton.com/frs. The application notes explain which raceway products or kits are appropriate for specific scenarios, from under-floor mounting to ladder and strut mounting. The video provides installation instructions and a component overview.

Design and product assistance is available via the Tech Support line at 800.824.3005 or at appeng@leviton.com.



DUCTING & BEND RADIUS GUIDES

- 6.5-foot sections can be hand cut to fit exact specifications
- Available in four sizes with two cover types or without covers
- Slotted ducting is ideal for cable runs with varying exit locations
- Bend radius guides safely route fiber

DUCTING				
DESCRIPTION	2" X 2"	4" X 4"	4" X 8"	4" X 12"
Solid Duct	S2DCT-SDT	S4DCT-SDT	S8DCT-SDT	SWDCT-SDT
[A] Solid Duct and Cover	S2DCT-SDC	S4DCT-SDC	S8DCT-SDC	SWDCT-SDC
[B] Slotted Duct	S2DCT-DSL	S4DCT-DSL	—	—
[C] Solid Duct and Hinged Cover	S2DCT-DHC†	S4DCT-DHC	S8DCT-DHC	—
Slotted Duct and Cover	S2DCT-DCS	S4DCT-DCS	—	—
Slotted Duct and Hinged Cover	—	S4DCT-SHC	—	—

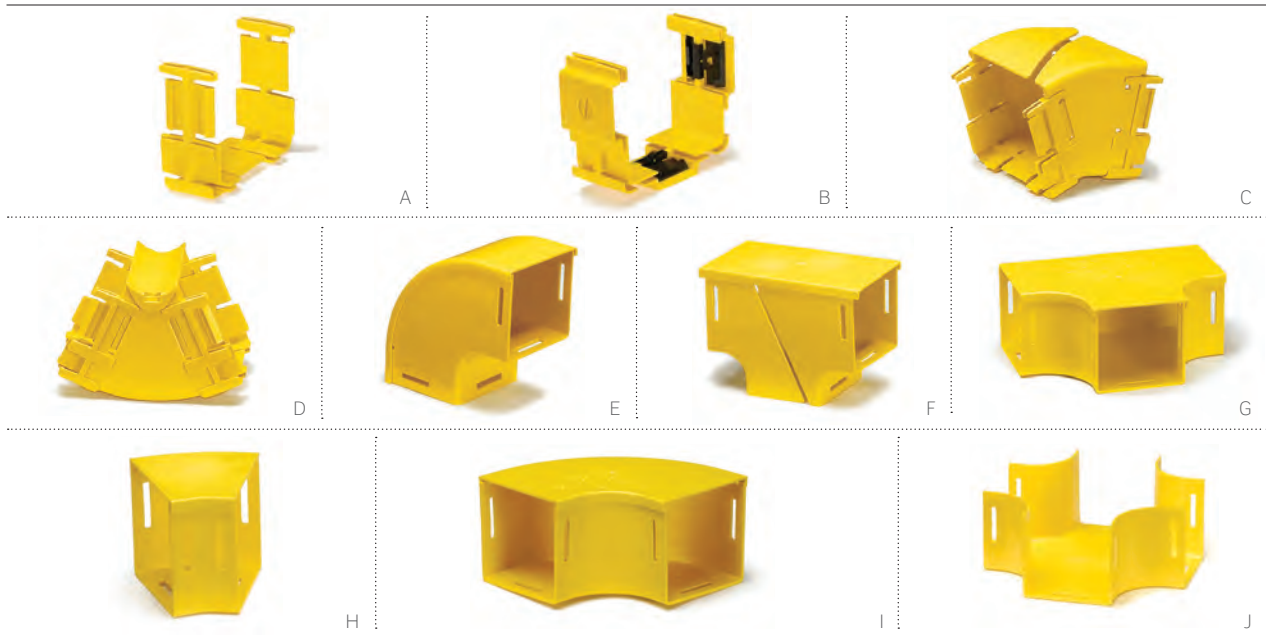
BEND RADIUS GUIDES	
DESCRIPTION	PART NO.
[D] Radius Guide (10 pack) (fits 2" x 2" and 4" x 4" slotted ducts)	SRAGD-SLT

Dimensions listed as H x W.
 † = 2" x 2" hinged cover is offered in eight 10" sections only.
 2" x 2" is only available in yellow.
 Color: Yellow is standard. Orange and Black are special order and require additional lead time.



Yellow (S) Orange (O) Black (E)

Please contact inside sales at 800.722.2082 to order or for more information.



JOINERS

- Joiners create a rigid connection between ducting sections and other components
- Standard Joiners install without tools; Slotless Joiners install using a screwdriver

VERTICAL ELBOWS

- Connect horizontal raceway at different heights and route raceway around obstacles
- Retrofit styles allow easy addition of new fibers

VERTICAL TEES

- Drop cables vertically from horizontal routes into frames or cabinets

HORIZONTAL TEES

- Branch off the duct and extend the fiber route

HORIZONTAL ELBOWS

- Change the direction of horizontal routes

HORIZONTAL CROSSES

- Allow easy fiber routing in all directions for increased expansion and adaptability

Please contact inside sales at 800.722.2082 to order or for more information.

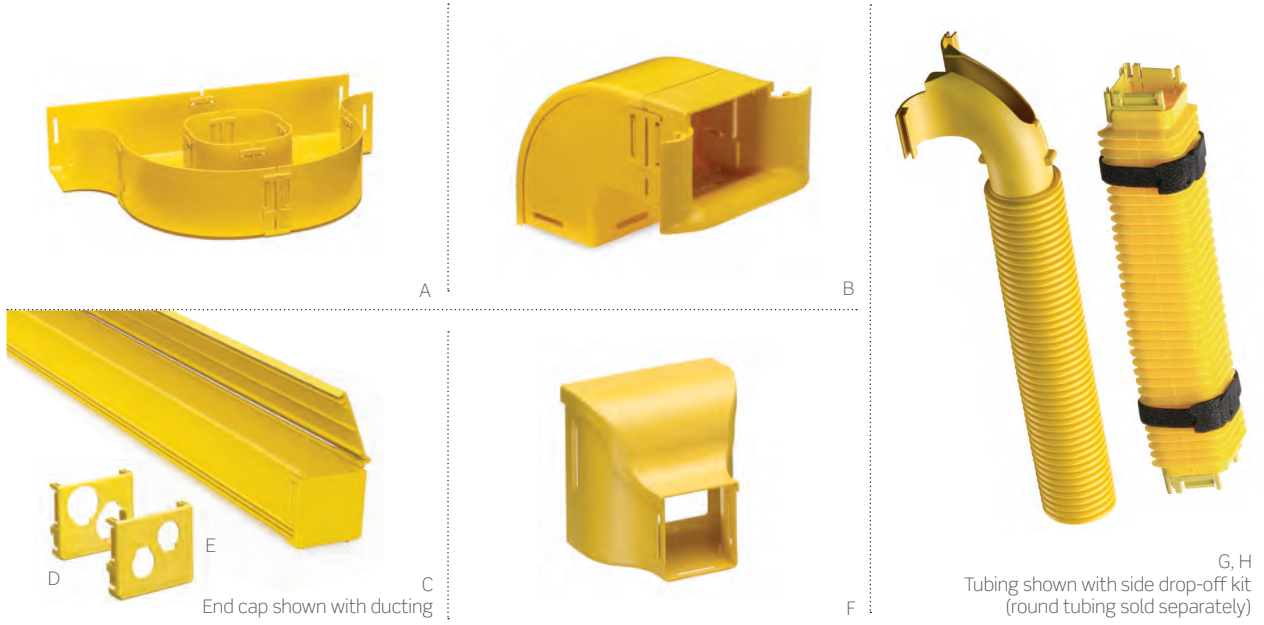
CABLE MANAGEMENT | Fiber Raceway System

JOINERS				
DESCRIPTION	2" X 2"	4" X 4"	4" X 8"	4" X 12"
[A] Standard Joiner	S2JNR-SLT	S4JNR-SLT	S8JNR-SLT	—
[B] Slotless Joiner	—	S4JNR-SLS	S8JNR-SLS	SWJNR-SLS
VERTICAL ELBOWS				
Vertical Elbow 30° Down	S2VEL-30D	S4VEL-30D	S8VEL-30D	—
Vertical Elbow 30° Down and Cover	S2VEL-3DC	S4VEL-3DC	S8VEL-3DC	—
[C] Vertical Elbow 30° Down Retrofit	—	S4VEL-3DR	S8VEL-3DR	—
Vertical Elbow 30° Up	—	S4VEL-30U	S8VEL-30U	—
[D] Vertical Elbow 30° Up and Cover	—	S4VEL-3UC	S8VEL-3UC	—
Vertical Elbow 30° Up Retrofit	—	S4VEL-3UR	S8VEL-3UR	—
Vertical Elbow 45° Down	S2VEL-45D	S4VEL-45D	S8VEL-45D	SWVEL-45D
Vertical Elbow 45° Down and Cover	S2VEL-4DC	S4VEL-4DC	S8VEL-4DC	SWVEL-4DC
Vertical Elbow 45° Down Retrofit	—	S4VEL-4DR	S8VEL-4DR	—
Vertical Elbow 45° Up	—	S4VEL-45U	—	SWVEL-45U
Vertical Elbow 45° Up and Cover	S2VEL-4UC	S4VEL-4UC	S8VEL-4UC	SWVEL-4UC
Vertical Elbow 45° Up Retrofit	—	S4VEL-4UR	S8VEL-4UR	—
Vertical Elbow 90° Down	S2VEL-90D	S4VEL-90D	S8VEL-90D	SWVEL-90D
[E] Vertical Elbow 90° Down and Cover	S2VEL-9DC	S4VEL-9DC	S8VEL-9DC	SWVEL-9DC
Vertical Elbow 90° Down Retrofit	—	S4VEL-9DR	S8VEL-9DR	—
Vertical Elbow 90° Up	S2VEL-90U	S4VEL-90U	S8VEL-90U	SWVEL-90U
Vertical Elbow 90° Up and Cover	S2VEL-9UC	S4VEL-9UC	S8VEL-9UC	SWVEL-9UC
Vertical Elbow 90° Up Retrofit	S2VEL-9UR	S4VEL-9UR	S8VEL-9UR	—
Vertical Elbow 90° Up and Down Enclosed	—	S4VEL-9UD	S8VEL-9UD	—
VERTICAL TEES				
Vertical Tee	S2VTE-TEE	S4VTE-TEE	S8VTE-TEE	SWVTE-TEE
Vertical Tee and Cover	S2VTE-TEC	S4VTE-TEC	S8VTE-TEC	SWVTE-TEC
[F] Vertical Tee Retrofit	S2VTE-TER	S4VTE-TER	S8VTE-TER	—
HORIZONTAL TEES				
Horizontal Tee	S2HTE-TEE	S4HTE-TEE	S8HTE-TEE	SWHTE-TEE
[G] Horizontal Tee and Cover	S2HTE-TEC	S4HTE-TEC	S8HTE-TEC	SWHTE-TEC
HORIZONTAL ELBOWS				
Horizontal Elbow 30°	S2HEL-30D	S4HEL-30D	S8HEL-30D	—
[H] Horizontal Elbow 30° and Cover	S2HEL-3DC	S4HEL-3DC	S8HEL-3DC	—
Horizontal Elbow 45°	S2HEL-45D	S4HEL-45D	S8HEL-45D	SWHEL-45D
Horizontal Elbow 45° and Cover	S2HEL-4DC	S4HEL-4DC	S8HEL-4DC	SWHEL-4DC
Horizontal Elbow 90°	S2HEL-90D	S4HEL-90D	S8HEL-90D	—
[I] Horizontal Elbow 90° and Cover	S2HEL-9DC	S4HEL-9DC	S8HEL-9DC	SWHEL-9DC
HORIZONTAL CROSSES				
[J] Horizontal Cross	S2HCR-HCR	S4HCR-HCR	S8HCR-HCR	SWHCR-HCR
Horizontal Cross and Cover	S2HCR-HCC	S4HCR-HCC	S8HCR-HCC	SWHCR-HCC

Dimensions listed as H x W.
 2" x 4" and 2" x 8" components available by special order.
 2" x 2" offered in yellow only.
 Color: Yellow is standard. Orange and Black are special order and require additional lead time.



CABLE MANAGEMENT | Fiber Raceway System



STORAGE LOOPS

- Organize excess patch cord lengths
- Available in two styles: inline for storing within the duct system, and offset for outside the main duct

SIDE DROP-OFF KITS

- Provide a safe exit for fiber cords at any point along ducting when dropping down to active equipment or work areas

END CAPS

- Snap into place to seal the open end of standard ducting; can easily be removed for future system modifications
- Available in two styles: solid-walled, or with knockouts for flexible tubing or fiber feedout

REDUCERS

- Join varying ducting sizes together

ADAPTERS

- Used to connect Leviton Fiber Raceway System with ADC ducting

TUBING

- Manage fiber as it enters or exits equipment rack ducting
- Flexible/ribbed design allows for adjustment if drops cannot be positioned directly in line with equipment

STORAGE LOOPS			
DESCRIPTION	2" X 2"	4" X 4"	4" X 8"
[A] Fiber Storage Loop Inline	S2FSL-INL	S4FSL-INL	S8FSL-INL
Fiber Storage Loop Offset	—	S4FSL-OFF	S8FSL-OFF
SIDE DROP-OFF KITS			
[B] Side Drop-Off Kit (for Raceway Ducting)	S2DRP-DCT	S4DRP-DRP	—
Side Drop-Off Kit (for Round Tube)	S2DRP-TUB	—	—
Side Drop-Off Kit (for Square Tube)	S2DRP-STB	—	—
Outlet Trumpet	S2TRM-TRM	S4TRM-TRM	—

END CAPS				
DESCRIPTION	2" X 2"	4" X 4"	4" X 8"	4" X 12"
[C] End Cap, standard	—	S4END-CAP	S8END-CAP	—
End Cap, slotless	—	S4END-CSL	S8END-CSL	SWEND-CSL
End Cap, (two) .75" diameter knockouts	S2END-20D	—	—	—
End Cap, (one) 1.5" diameter knockout	S2END-38D	—	—	—
End Cap, (one) 1.5" hole	S2END-38H	—	—	—
End Cap Tube Outlet for 2" Tube	S2END-OUT	—	—	—
[D] End Cap, (two) 1.75" diameter knockouts	—	S4END-46D	—	—
[E] End Cap, (two) 1.25" diameter knockouts	—	S4END-32D	—	—

REDUCERS			
DESCRIPTION	4" X 4"	4" X 8"	4" X 12"
Reducer to 2" x 2"	S4RDR-RDR	—	—
[F] Reducer to 2" x 2" and Cover	S4RDR-RDC	—	—
Reducer to 4" x 4" Horizontal Cross and Cover	—	S8RDR-RDC	—
Reducer to 4" x 4" Right Hand	—	S8RDR-RRH	—
Reducer to 4" x 4" Right Hand and Cover	—	S8RDR-RHC	—
Reducer to 4" x 4" Left Hand	—	S8RDR-RLH	—
Reducer to 4" x 4" Left Hand and Cover	—	S8RDR-LHC	—
Reducer to 4" x 8"	—	—	SWRDR-RDR
Reducer to 4" x 8" and Cover	—	—	SWRDR-RDC

ADAPTERS (TO MATE W/ ADC DUCTING)*			
DESCRIPTION	4" X 4"	4" X 8"	4" X 12"
Adapter Kit to ADC 4" Duct	S4ADP-ADC	—	—
Adapter Kit to ADC 4" Tee	S4ADP-TEE	—	—
Left Hand Adapter Kit to ADC 6" Duct	—	S8ADP-LAD	—
Right Hand Adapter Kit to ADC 6" Duct	—	S8ADP-RAD	—

TUBING (PVC, NON UL 94V-0 MATERIAL)**	
DESCRIPTION	PART NO.
[G] Round, 2" diameter, 39" length (yellow)	S50RT-01M
Round, 2" diameter, 78" length (yellow)	S50RT-02M
Round, 1" diameter, 78" length (grey)	S25RT-02M
Square, 2", 14" length (yellow)	S50ST-350
[H] Square w/ cover, 2", 14" length (yellow)	S5STC-350

2" x 4" and 2" x 8" components available by special order.

2" x 2" offered in yellow only.

Color: Yellow is standard. Orange and Black are special order and require additional lead time. Contact inside sales for more information.

* = Adapters are special order and require additional lead time.

** = PVC tubing also available in Black.



Yellow (S) Orange (O) Black (E)

Please contact inside sales at 800.722.2082 to order or for more information.

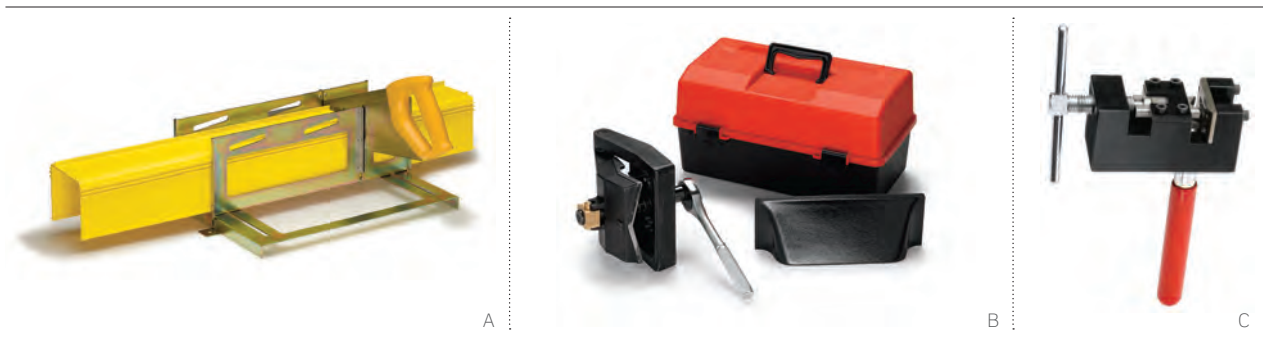
CABLE MANAGEMENT | Fiber Raceway System



MOUNTING HARDWARE

- Extensive selection enables Fiber Raceway installation above equipment racks and frames, under flooring, or on walls, ladder rack, or unistrut
- Other mounting hardware available - contact Tech Support at 800.824.3005 or +1.425.486.2222

MOUNTING HARDWARE		
DESCRIPTION		PART NO.
[A] 4" x 4" Wall-Mounting Kit		S4MNT-KIT
4" x 8" Wall-Mounting Kit		S8MNT-KIT
[B] 4" x 4" Wall Extension Bracket (up to 10") Mounting Kit		S4EXT-KIT
4" x 8" Wall Extension Bracket (up to 14") Mounting Kit		S8EXT-KIT
2" x 2" Duct-Mounting Bracket		S2DMB-000
[C] 4" x 4" Duct-Mounting Bracket		S4DMB-000
4" x 8" Duct-Mounting Bracket		S8DMB-000
4" x 12" Duct-Mounting Bracket		SWDMB-000
[D] 4" x 4" Suspension Kit (with 3.3' rod)		S4SUS-KIT
4" x 8" Suspension Kit (with 3.3' rod)		S8SUS-KIT
4" x 12" Suspension Kit (with 3.3' rod)		SWSUS-KIT
4" x 12" Suspension Kit (without rod)		SWSUS-WRD
2" x 2" Raised-Mounting Kit (for above or below cabinet, with 15" rod)		S1RMK-000
[E] 4" x 4" Raised-Mounting Kit (for above or below cabinet, with 15" rod)		S4RMK-000
4" x 8" Raised Mounting Kit (for above or below cabinet, with 15" rod)		S8RMK-000
4" x 12" Raised-Mounting Kit (for above or below cabinet, with 15" rod)		SWRMK-000
2" x 2" Ladder Rack/Unistrut Mounting Kit (includes mounting bracket)		S1LRU-000
[F] 4" x 4" Ladder Rack/Unistrut Mounting Kit (includes mounting bracket)		S4LRU-000
4" x 8" Ladder Rack/Unistrut Mounting Kit (includes mounting bracket)		S8LRU-000
[G] 5/8" Threaded Rod Side-Mount Bracket (threaded rod not included)		SMH00-SMB



TOOLS

- Several kit options for cutting and slotting duct during installation or upgrades
- Mitre boxes provide a stable channel for cutting ducting
- Cut-out tools prepare ducting for the addition of a Side Drop-Off Kit

TOOLS	
DESCRIPTION	PART NO.
Mitre Box (for 1.25" and 2" Ducting)*	SMTRE-050
[A] Mitre Box (for 4", 8", and 12" Ducting)*	SMTRE-300
[B] 2" Side Cut-Out Tool Kit (for use with 2" x 2" Side Drop-Off Kits)	S2CUT-TOL
4" Side Cut-Out Tool Kit (for use with 2" x 4" and 4" x 4" Side Drop-Off Kits)	S4CUT-TOL
[C] 2" End-Slot Tool (for use with 2" x 2" Joiners)	SSL0T-050
4" x 8" End-Slot Tool (for use with 4" x 4" and 4" x 8" Joiners)	SSL0T-200

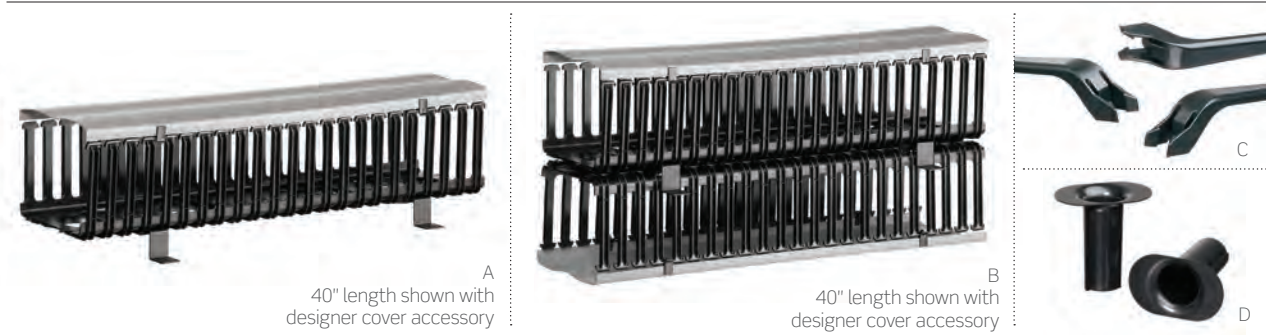
* = Ducting and saw not included.

Please contact inside sales at 800.722.2082 to order or for more information.

CABLE MANAGEMENT | Versi-Duct® Vertical Management

Versi-Duct

CABLE MANAGEMENT



VERSI-DUCT CABLE MANAGEMENT SYSTEM

The innovative system for copper and fiber installations fits on any standard equipment rack, and accessories enable a wide range of configurations.

VERSI-DUCT 8" CHANNEL CABLE MANAGEMENT

- Ideal for today's large-scale deployments and Cat 6A installations with typical larger diameter cable
- 80" channel ships in two 40" pieces for easier handling and installation
- Channels available with standard black cover
- Designer cover (grey) available as an accessory
- Channels include mounting bracket kit and two covers, one slack loop organizer, and one cable retainer, per 80" side (front or front/rear)
- Covers feature integrated dual-hinge for easy accessibility
- Channels can be side or center-mounted for better space utilization
- Large finger-passthrough space aligns with rack units

VERSI-DUCT 8" CHANNEL VERTICAL CABLE MANAGEMENT & ACCESSORIES			
DESCRIPTION		FRONT ONLY	FRONT & REAR
Vertical 80" length, 8" W x 8" D channel, standard black cover, hinged	[A]	8980L-VFO*	[B] 8980L-VFR
Vertical 40" Cover, 8", black (set of 4)		—	8940L-SRC
Vertical 40" Designer Cover, 8", grey (set of 2)		—	89265-8DC
Vertical Center Mounting Bracket, 8" channel (bag of 4)		—	89265-BKT
Vertical Cable Retainer, 8" channel (bag of 6)		—	[C] 89265-WR1
Vertical Slack Loop Organizer, 8" channel (package of 2)		—	[D] 89265-SL1

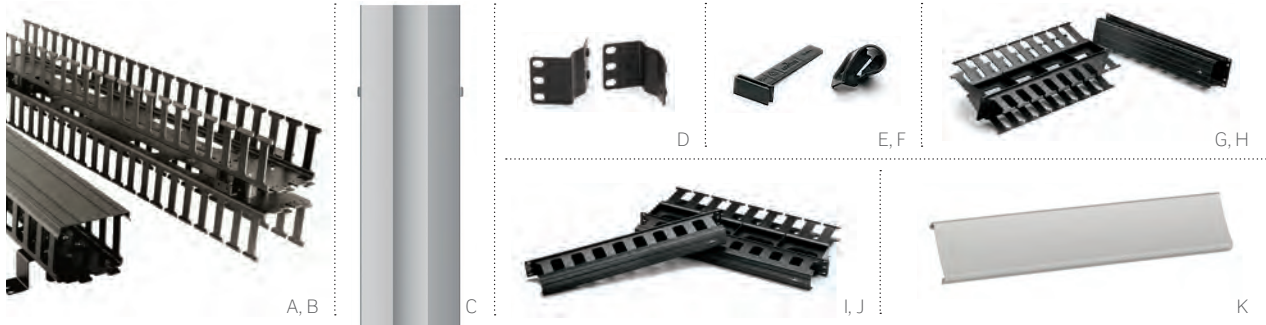
*Rear retrofit not available.
Standard black replacement covers available through inside sales.

8" VERSI-DUCT CAPACITY CHART

Use the chart below to determine maximum recommended cable capacity for 8" Versi-Duct managers, based on average cable outside diameter. To ensure proper bend radius and space for future additions, do not fill to capacity at initial installation.

FEATURE	CHANNEL DEPTH (WXD)	USABLE AREA (IN ²)	CAT 6A CAPACITY (.330" CABLE)	CAT 6 CAPACITY (.230" CABLE)	CAT 5E CAPACITY (.185" CABLE)
8" Channel Size	7.88" x 6.9"	54.3	159	327	505
Finger Spacing	5.5" x 1"	5.5	24	50	77
Large Passthrough	4.8" x 2.6"	11.2	49	101	156
Small Passthrough	2.6" dia.	5.3	23	48	74





VERSI-DUCT 5" CHANNEL CABLE MANAGEMENT

- 80" channel ships in two 40" pieces for easier handling and installation
- Interlocking tabs maintain flush channel alignment
- Finger spacing aligns with rack units

VERSI-DUCT HORIZONTAL CABLE MANAGEMENT

- Fits all standard 19" racks
- Includes bend radius compliant clips
- Finger spacing aligns with patch panel port openings to better manage patch cords



Mount the Slack Loop Organizer on the duct fingers to manage excess cables.

VERSI-DUCT 5" CHANNEL VERTICAL CABLE MANAGEMENT & ACCESSORIES

DESCRIPTION	FRONT ONLY	FRONT & REAR
Vertical 80" length, 5" W x 4" D channel, standard snap-on black cover (included)	4980L-VFO+	4980L-VFR
Vertical 40" length, 5" W x 4" D channel, standard snap-on black cover (included)	[A] 4940L-VFO+	[B] 4940L-VFR
Vertical 40" Cover, 5" channel, snap-on, black (set of 4)		4940L-SRC
Vertical 40" Designer Cover, 5" channel, snap-on, grey (set of 2)	—	[C] 59265-5DC
Mounting Bracket, 5" channel (set of 2)	—	[D] 49265-BKT
Versi-Duct Slack Loop Organizer (set of 2)	—	49265-SL1
Versi-Duct Slack Loop Organizer (Extended) (set of 2)	—	49265-SL2

VERSI-DUCT HORIZONTAL CABLE MANAGEMENT & ACCESSORIES

Horizontal Manager, 2RU, 3" W x 3" D front, 2" W x 4" D rear*, with cover	[G] 492RU-HFO	[H] 492RU-HFR
Horizontal Manager, 1RU, 1.5" W x 3" D front, 1.5" W x 4" D rear*, with cover	[I] 491RU-HFO	[J] 491RU-HFR
Horizontal Designer Cover, 2RU, snap-on, grey	—	[K] 49265-DC2
Horizontal Designer Cover, 1RU, snap-on, grey	—	49265-DC1
Horizontal Cable Retainer (10 per package)	—	[E] 49265-WR1
Horizontal Cover Hinge (4 per package)	—	[F] 49265-HNG

†Rear retrofit not available.

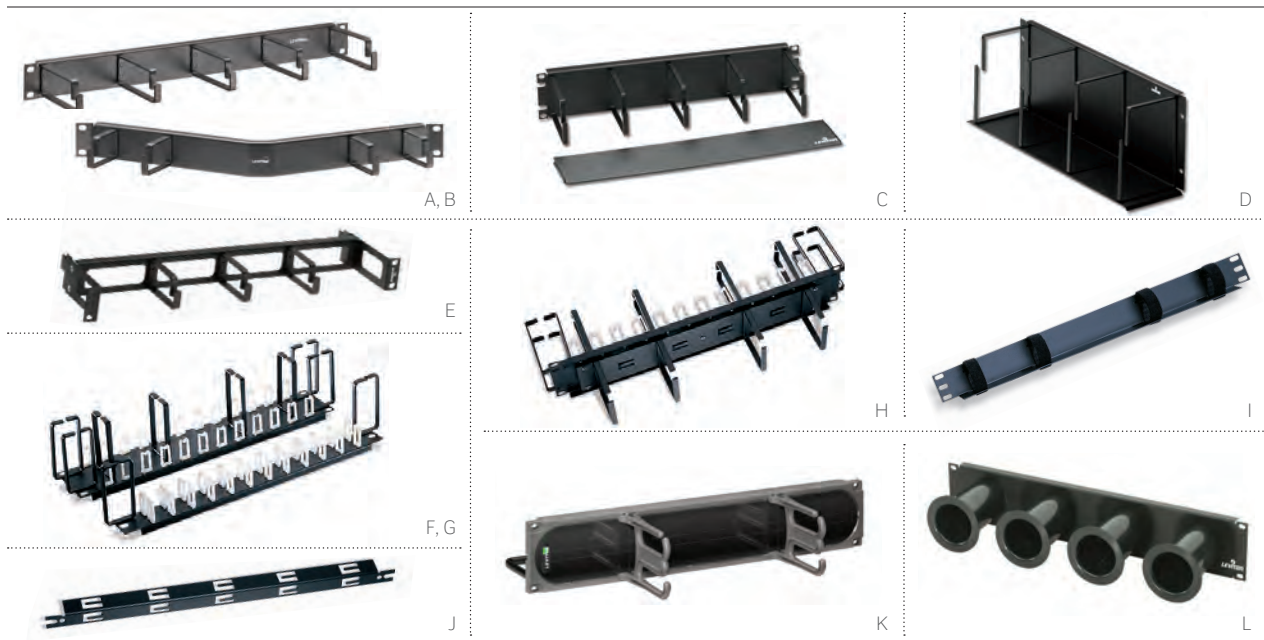
*Bend radius clips included.

5" VERSI-DUCT CAPACITY CHART

Use the chart below to determine maximum recommended cable capacity for 5" Versi-Duct managers, based on average cable outside diameter. To ensure proper bend radius and space for future additions, do not fill to capacity at initial installation.

FEATURE	CHANNEL DEPTH (WXD)	USABLE AREA (IN ²)	CAT 6A CAPACITY (.330" CABLE)	CAT 6 CAPACITY (.230" CABLE)	CAT 5E CAPACITY (.185" CABLE)
5" Channel Size	4.75" x 3.9"	18.5	54	111	172
Finger Spacing	3" x 1"	3.0	13	27	42
Passthrough	3.5" x 1"	3.5	15	32	49

CABLE MANAGEMENT | Horizontal Cable Managers



HORIZONTAL CABLE MANAGERS

- Available in 1RU, 2RU, and 4RU sizes
- All mount to standard 19" racks and cabinets
- 4RU manager includes a shelf to support patch cords
- Horizontal managers support transition to vertical management
- Combo Manager offers front and rear management
- Composite Blank Panel includes cable managers for high-density installations

HORIZONTAL CABLE MANAGERS							
DESCRIPTION	FLAT	FLAT W/ METAL COVER	ANGLED	RECESSED- ANGLED	RECESSED- FLAT		
Horizontal Manager, 1RU, 4" metal rings	[A]	49253-LPM	4925C-LPM	[B]	49254-LPM	4W254-LPM	—
Horizontal Manager, 2RU, 4" metal rings		49253-BCM	[C]	4925C-BCM	49254-BCM	4W254-BCM	—
Horizontal Manager, 2RU, 2" metal rings		49253-2CM	—	—	—	—	—
Horizontal Manager, 4RU, 4" metal rings	[D]	49253-4CM	—	—	—	—	—
Horizontal Manager, 1RU, 6" metal rings		49253-6PM	—	—	—	—	—
Horizontal Manager, 2RU, 6" metal rings		49253-6MR	—	—	—	—	—
Horizontal Manager, 4RU, 6" metal rings		49253-6CM	—	—	—	—	—
Horizontal Cable Manager Cover, 4RU		49253-4CV	—	—	—	—	—
Recessed Horizontal Manager, 1RU, 3" metal rings	—	—	—	—	[E]	49253-RCM	—
Horizontal Manager, 2RU, w/ plastic saddles	[F]	49252-PO2	—	—	—	—	—
Horizontal Manager, 1RU, w/ plastic saddles	[G]	49252-PO1	—	—	—	—	—
Combo Front and Rear Manager, 2RU	[H]	49252-PCM	—	—	—	—	—
VELCRO® Brand Horizontal Manager, 1RU	[I]	41150-019	—	—	—	—	—
Tie Wrap Bar, 1" H x 1.5" D	[J]	49258-TWB	—	—	—	—	—
Composite Blank Panel / Cable Manager, 2RU	[K]	C1253-2CM	—	—	—	—	—
Horizontal Manager, 2RU with 4" Slack Loop Organizers (4)	[L]	49300-SM2	—	—	—	—	—
Horizontal Manager, 4RU with 4" Slack Loop Organizers (6)		49300-SM4	—	—	—	—	—

CABLE MANAGEMENT | Rear Cable Managers, Blanks & Transitional Covers



REAR CABLE MANAGEMENT BARS

- Standard Flat Cable Management Bar attaches to patch panels, angled and Recessed-Angled Bars attach to rack
- High-Density Cable Management Bar supports heavy loads of cable and mounts on front or rear of rack
- Rear Cable Management Bar for Active Equipment offers extended depth for power cord support and cutouts for air circulation
- e2XHD Rear Cable Manager includes rings to help manage and route incoming fiber cables, and supports any Leviton panel (see page A18 or B31 for more details)

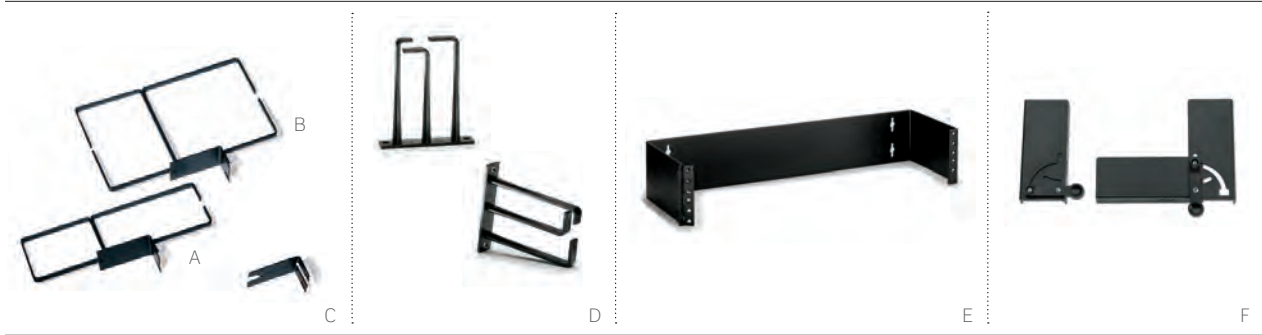
BLANK PANEL INSERTS

- Provide a seamless look and designate rack space for future expansion

TRANSITIONAL COVERS

- Provide clean, aesthetic transition from angled patch panels to flat equipment
- Improve thermal management

REAR CABLE MANAGEMENT BARS			
DESCRIPTION	FLAT	ANGLED	RECESSED-ANGLED
Standard Cable Management Bar	[A] 49005-CMB	[B] 49006-AMB	[C] 4W006-AMB
High-Density Cable Management Bar, 1RU	[D] 49005-DMB	—	—
Rear Cable Manager for Active Equipment, 2RU	[E] 41188-SM2	—	—
e2XHD Rear Cable Manager for Flat Panel, with cable management rings (four ¼" rings)	[F] E2X1F-CMB	—	—
BLANK PANEL INSERTS			
DESCRIPTION	FLAT	ANGLED	RECESSED-ANGLED
Blank Panel, 4RU	[G] 49254-BP4	—	—
Blank Panel, 2RU	[H] 49254-BP2	[K] 49254-BA2	[L] 4W254-BA2
Blank Panel, 1RU	[I] 49254-BP1	[J] 49254-BA1	4W254-BA1
Composite Blank Panel / Cable Manager, 2RU	[M] C1253-2CM	—	—
TRANSITIONAL COVERS			
Transitional Cover, 1RU	—	[N] 49254-BC1	[O] 4W254-BC1



CABLE MANAGEMENT RINGS

- Vertical Management Rings are an open ring solution that can be installed in tight spaces and smaller deployments
- Mounting Tie Bracket allows rings to be positioned between racks
- Vertical Transition Rings are used for vertical and horizontal cable management and are compatible with flat and angled panels

HINGED WALL-MOUNT BRACKETS

- Designed for installations where space is constrained and racks are not used
- 6"-deep brackets allow for proper cable management

FRONT HINGED BRACKET

- Simplifies process of terminating cables to rear of patch panels when access is limited
- Easy-access quick-release latches drop to 90° and 120° positions
- Rack or wall mountable

CABLE MANAGEMENT RINGS	
DESCRIPTION	PART NO.
[A] 3" Vertical Management Rings	49260-MR3
[B] 6" Vertical Management Rings	49260-MR6
[C] Mounting Tie Bracket	49261-BKT
[D] Vertical Transition Rings for Angled and Recessed-Angled Panels, 2RU	49262-HR1
HINGED WALL-MOUNT BRACKETS	
[E] Hinged Wall-Mount Bracket, 2RU, 6" depth	49251-W62
Hinged Wall-Mount Bracket, 3RU, 6" depth	49251-W63
Hinged Wall-Mount Bracket, 4RU, 6" depth	49251-W64
FRONT HINGED BRACKET	
[F] Front Hinged Bracket, 3RU	49400-FHB

Front Hinged Bracket in the 120° position





VELCRO BRAND TIE WRAPS

- Available in 5", 8", and 12" lengths (0.5" width)
- Slot helps secure fastening without overtightening
- All wraps come with 25 units per roll

Maroon products UL Listed for use in plenum or air handling spaces per National Electric Code (NEC) Section 300.

VELCRO BRAND WRAPS - BULK ROLLS

- Available in 15', 75', and 600' bulk rolls (0.5" width)
- Cut to desired length

VELCRO BRAND WRAPS - SOFTCINCH LITE ROLLS

- Thinner depth for smaller bundles
- Tear by hand for quick application
- Available in 75' roll (0.5" width)

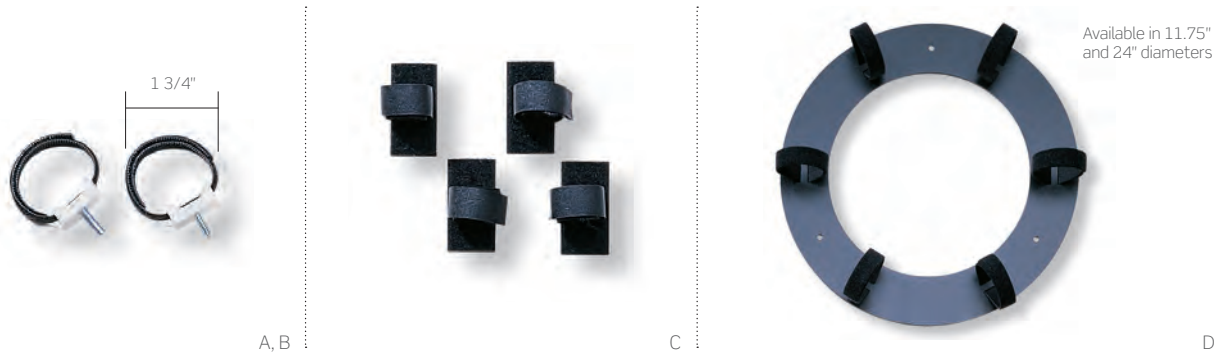
VELCRO BRAND CABLE FASTENERS					
DESCRIPTION	BLACK	BLUE	YELLOW	ORANGE	MAROON (PLENUM RATED)
[A] Tie Wrap, 5" (25 units per roll)	43105-005	—	—	—	—
[B] Tie Wrap, 8" (25 units per roll)	43108-008	43108-08L	43108-08Y	43108-08O	43108-08P
[C] Tie Wrap, 12" (25 units per roll)	43112-012	—	—	—	—
[D] Bulk Roll, 15'	43115-015	—	—	—	—
[E] Bulk Roll, 75'	43115-075	43115-75L	43115-75Y	43115-75O	43115-75P
[F] Bulk Roll, 600'	43115-600	—	—	—	—
[G] SoftCinch Lite Roll, 75'	4S115-75E	—	—	—	—



CABLE MANAGEMENT | VELCRO® Brand Utility Fasteners

VELCRO

CABLE MANAGEMENT

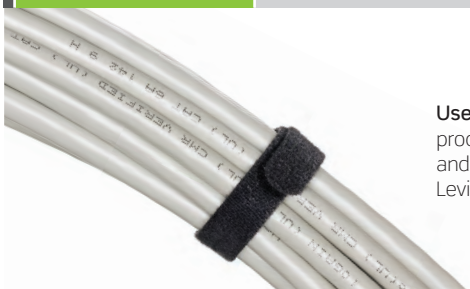


VELCRO BRAND UTILITY FASTENERS

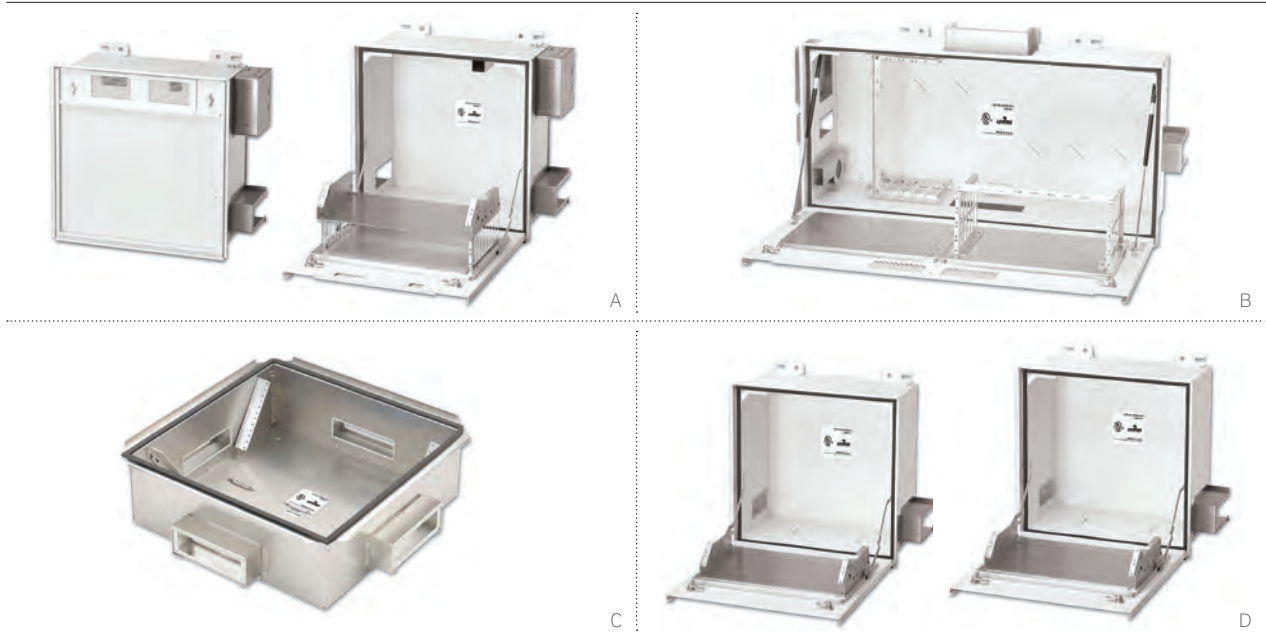
- Saddle ties attach to wood surfaces, relay racks, and enclosures
- Saddle ties are 8 3/8" in length
- Workstation loops, with 1.25" diameter, attach with convenient peel-off adhesive
- Storage rings for inside and outside plant ensure copper and fiber optic bend radius; loops included

VELCRO BRAND UTILITY FASTENERS	
DESCRIPTION	PART NO.
[A] Saddle Ties w/ 10/32 metal rack screws (10 per pack)	41020-SPR
[B] Saddle Ties w/ #8 wood screws (10 per pack)	41010-SPW
[C] Workstation Loops w/ peel-off adhesive (25 per pack)	41225-SAP
Storage Rings, Inside Plant, 11.75" diameter	48900-IFR
[D] Storage Rings, Outside Plant, 24" diameter	48900-0FR

SPOTLIGHT Protect Cables with Genuine VELCRO Brand Fasteners



Use **VELCRO Brand fasteners** to secure all cable bundles. Our genuine VELCRO Brand products won't crush or damage cables like tie wraps can, and are reusable for moves, adds, and changes (MACs). Plus, with our extensive range of fastener styles, colors, and sizes, Leviton has the perfect VELCRO Brand cable management solution for your unique needs.



ZONE ENCLOSURES

- Provide flexible consolidation points in ceiling or floor
- Simplify moves, adds, and changes (MACs)
- Plenum rated and include fire-rated foam sealing kits
- Significant reduction in cable pathway loading
- Use as a telecom enclosure (TE) for cabling flexibility

CEILING ENCLOSURES

- Install flush with drop ceiling
- Fully hinged drop-down doors support installed equipment and open to face technician
- Active and passive styles available
- Mount into standard 2' x 2' and 2' x 4' ceiling tiles
- Active enclosures include AC power back box and venting for active equipment

2' X 2' PASSIVE RAISED-FLOOR ENCLOSURES

- Fit in air handling space under 8" raised floors
- House two 4RU (8RU total) racks for standard 19" components
- Rotating patch panel mounting provides easy access to rear of panels

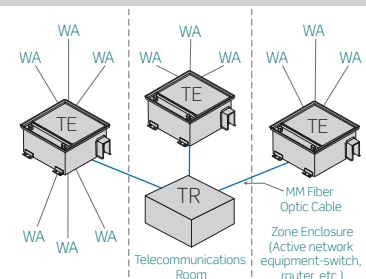
ZONE ENCLOSURES

DESCRIPTION	PART NO.
[A] Active Ceiling Enclosure, 2' x 2', 2RU active and 5RU passive space	Z1000-AC2
[B] Active Ceiling Enclosure, 2' x 4', 4RU active and 10RU passive space	Z1000-AC4
[C] Passive Raised-Floor Enclosure, 8" depth, 8RU passive space	Z1000-PF2
[D] Passive Ceiling Enclosure, 2' x 2', 5RU passive space	Z1000-PC2

SPOTLIGHT Zone Cabling Design Benefits

In a **zone cabling design**, cables are routed from the telecommunications room (TR) to appropriately placed telecommunications enclosures (TE). Cabling is then run from the zone enclosure to each work area (WA). In an Active Zone Enclosure System, a single fiber run can support dozens of work areas, significantly reducing cable pathway loading and TR space requirements. Zone cabling designs are ideal for open office architecture. Zone cabling benefits include:

- Maximum infrastructure flexibility
- Improved network performance
- Simplified moves, adds, and changes
- Reduced floor space usage
- Significantly reduced cost of ownership



CABLE MANAGEMENT | Wireless Access Point Enclosures



5" WIRELESS ACCESS POINT CEILING ENCLOSURE

- Single edge-protected access port includes a fire-rated foam sealing kit
- Suitable for installation in air spaces
- Mount into a standard 2' x 2' ceiling tile

4" WIRELESS ACCESS POINT CEILING ENCLOSURE

- Accommodates one wireless access point or bridge
- Removable door-mounted bracket supports equipment up to 10.5" W x 5.5" H x 1.875" D
- Includes fully hinged, lockable door with two round holes for access point antennae

CEILING ENCLOSURE FACEPLATE

- Fits 5"-depth enclosure
- Fully hinged and lockable

WALL-MOUNT ENCLOSURE

- Rugged steel construction with lock assembly
- Accommodates equipment sized 9.5" W x 6.5" H x 2.75" D

WIRELESS ACCESS POINT CEILING ENCLOSURES	
DESCRIPTION	PART NO.
[A] Wireless Access Point Ceiling Enclosure, 5" depth, faceplate sold separately	W1000-WC5
[B] Wireless Access Point Ceiling Enclosure, 4" depth, with faceplate	W1000-WC0
WIRELESS ACCESS POINT CEILING ENCLOSURE FACEPLATES (REQUIRED FOR 5" ENCLOSURE)	
[C] Blank Faceplate (fits 5" Wireless Access Point Enclosure)	W1000-F01
WIRELESS ACCESS POINT WALL-MOUNT ENCLOSURE	
[D] Wireless Access Point Wall-Mount Enclosure (accommodates Cisco Aironet® 350 or equivalent)	W1000-WW0

All enclosures and faceplates are powder-coated white.



A, B



C, D

WALL-MOUNT CORD MANAGERS & 110-STYLE PRODUCTS

- Vertical cord managers help route patch cords in high-density applications
- Basic wall-mount unit features 300-pair capacity
- Extension kits add up to 600 extra pairs
- Rear cable channel, side slots, horizontal cord managers, and bottom cable tray included
- Horizontal rack-mount cord organizer available

The full line of 110-Style wiring solutions is located on pages A21-A23.



Basic Mounting Frame Kits include three 100-pair bases, mounting frame, cable tray, connector blocks, three horizontal cord managers, label strip holders, and white label strips.

VERTICAL CORD MANAGERS AND 110-STYLE WALL-MOUNT WIRING PRODUCTS

DESCRIPTION	PART NO.
[A] 300-Pair Basic Mounting Frame Unit (sheet metal frame and bottom cable tray only)	41MB2-SMF
[B] 300-Pair Extension Mounting Frame Unit (sheet metal frame only)	41MB2-SME
Basic Mounting Frame Kit, three 100-pair bases, mounting frame, cable tray, 75 C-4 connector blocks, three horizontal cord managers, label strip holders, and white label strips	41MB2-3F4
Basic Mounting Frame Kit, three 100-pair bases, mounting frame, cable tray, 60 C-5 connector blocks, three horizontal cord managers, label strip holders, and white label strips	41MB2-3F5
Extension Mounting Frame Kit, three 100-pair bases, mounting frame, 60 C-4 and 12 C-5 connector blocks, three horizontal cord managers, label strip holders, and white label strips	41MB2-EXT
[C] 300-pair Vertical Cord Manager Basic Unit, includes bottom cable tray	41880-300
[D] 300-pair Vertical Cord Manager Extension Unit	41880-EXT

INTELLIGENT INFRASTRUCTURE

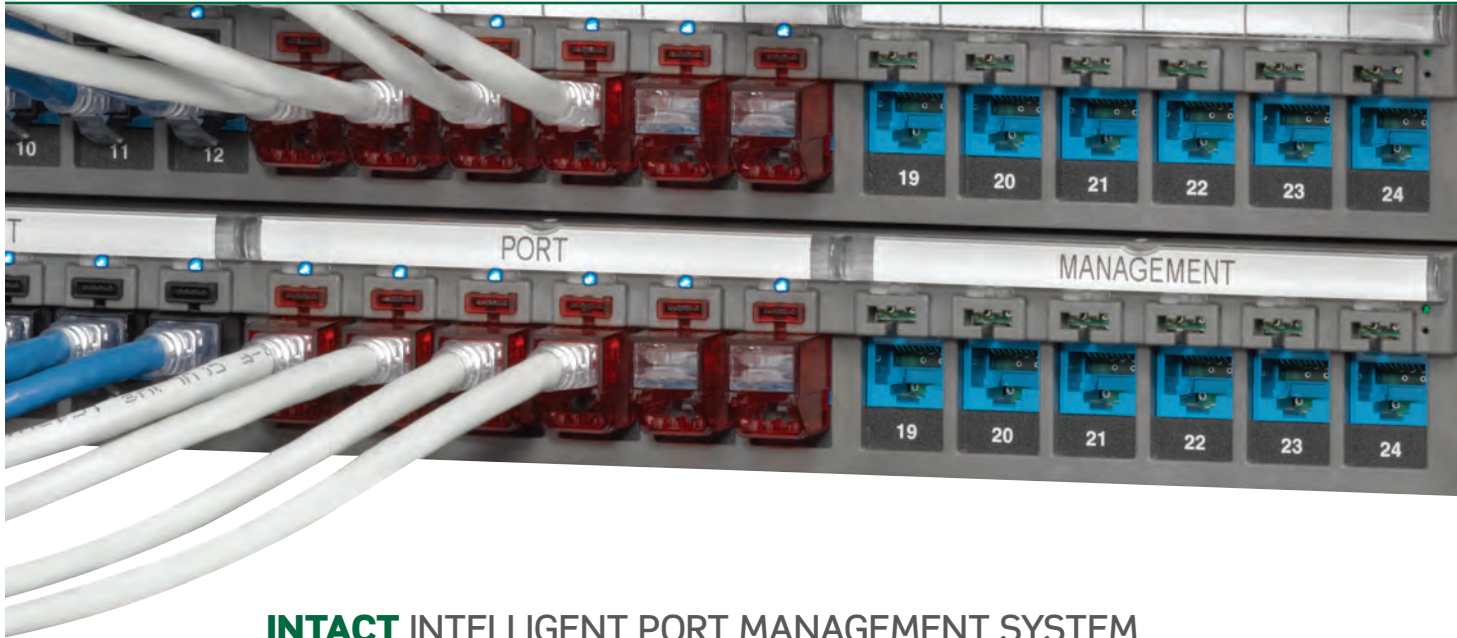
SECTION

F



SECTION F CONTENTS

INTACT™	F3	Introduction
INTELLIGENT	F4	Software & Hardware
PORT	F5	System Components
MANAGEMENT	F6	Patch Cords & Port Blockers
SYSTEM		



INTACT INTELLIGENT PORT MANAGEMENT SYSTEM

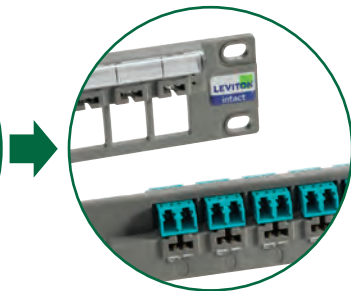
The Intact Intelligent Port Management System offers a simple, straightforward way to manage network changes. It provides real-time network documentation with alerts for faults or unplanned changes to ports. By focusing on the core change management processes used every day, Intact reduces the complexity found in other systems.

- Receive and maintain accurate, up-to-date network documentation
- Identify and diagnose problems faster, reducing downtime and risk of human error
- Assist technicians through changes and troubleshooting by managing work orders, logging events, and creating visual network topologies
- Improves asset management with ability to model the end-to-end circuit, identifying the physical location for active equipment

HOW INTACT WORKS



A microchip is attached to the Intact **Patch Cord** plug, programmed with information unique to each cord.



Intact **Intelligent Panels** monitor port status and communicate with the Intact Device Manager.



The **Device Manager** hosts the pre-installed Intact Software. Multiple Device Managers operate together seamlessly for larger systems.



Intact **Software** is accessed from the corporate network using Web browsers, including those on tablets and smartphones.



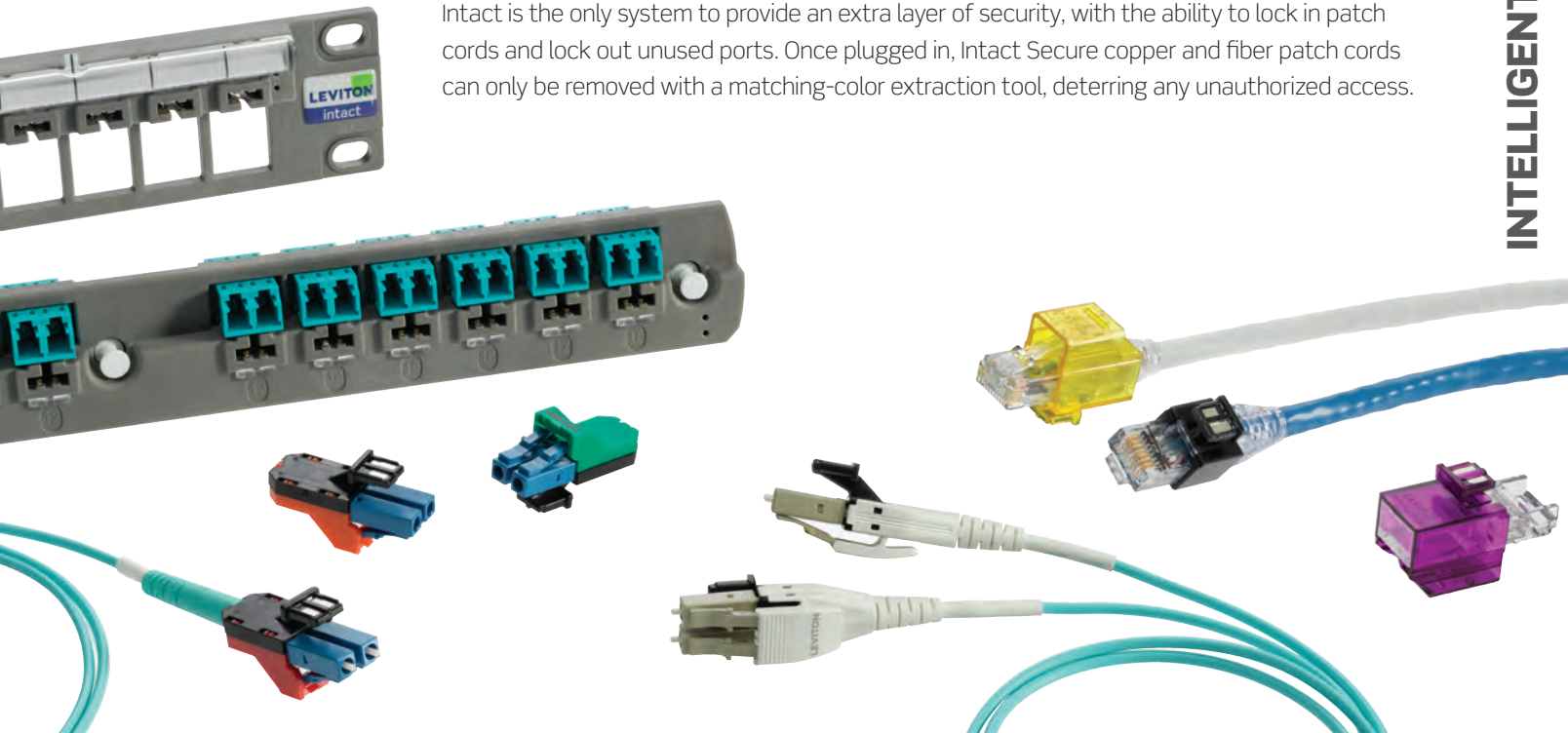
SOFTWARE

Intact software comes pre-loaded on the Device Manager, so there's no set-up or configuring. It can be accessed on any Web browser over the corporate network, including mobile devices like tablets or smartphones. The software manages work orders, event logging, and visual network topology to assist technicians and IT managers through moves, adds, changes, and troubleshooting.

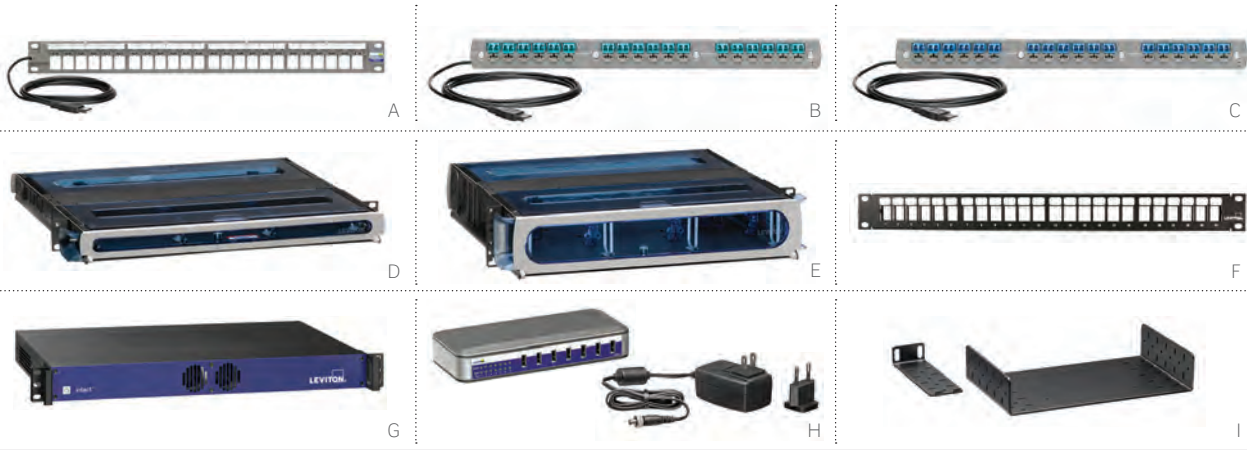
HARDWARE

The Intact system is available for both copper and optical fiber networks. Standard Leviton patch panels and enclosures can easily be upgraded to Intact intelligent panels, and Intact copper and fiber patch cords are also based on existing standard product designs. The added intelligent technology allows the system to monitor the connection status of ports.

Intact is the only system to provide an extra layer of security, with the ability to lock in patch cords and lock out unused ports. Once plugged in, Intact Secure copper and fiber patch cords can only be removed with a matching-color extraction tool, deterring any unauthorized access.



INTACT™ | System Components



FEATURES

- Intact Intelligent Panels send network port status back to the Intact Device Manager, a 1RU Ethernet-enabled controller that hosts the system software
- During work orders and when alarms occur, LED lights provide guidance above affected ports on the panel
- Using Intact Device Hubs, one Device Manager can expand to support over 100 Intact panels
- Multiple Device Managers operate seamlessly, allowing systems to scale easily
- QuickPort® copper panels (1RU, 24-port) and Opt-X Ultra® fiber enclosures (1RU, 2RU) are “intelligent-ready” and can be upgraded to become an Intact intelligent device while remaining on the rack
- Panels and enclosures can be upgraded without removing connectors, preserving the integrity of permanent link testing

INTACT INTELLIGENT PORT MANAGEMENT SYSTEM COMPONENTS		
DESCRIPTION	PART NO.	
[A] Intact QuickPort Patch Panel Upgrade Kit, 24-port*	4MKIT-F24	
[B] Intact Opt-X Ultra Fiber Upgrade Kit, 36-fiber, Aqua MM LC duplex adapters included*	5RKIT-OM3	
[C] Intact Opt-X Ultra Fiber Upgrade Kit, 36-fiber, Blue SM LC duplex adapters included*	5RKIT-OS2	
[D] Opt-X Ultra 1RU Enclosure (Intelligent-Ready), empty	5R1UH-S03	
[E] Opt-X Ultra 2RU Enclosure (Intelligent-Ready), empty	5R2UH-S06	
[F] Flat QuickPort® Patch Panel (Intelligent-Ready), 1RU, 24-port, empty	49255-H24	
[G] Intact Device Manager, 1RU, software and C13 to 5-15P power cord included	4MSYS-IDM	
[H] Intact Device Hub, includes power supply adapter with U.S. and Euro plug options and 2-meter USB cable	4MSYS-IDH	
[I] Intact Device Hub Mounting Bracket	4MSYS-BKT	

* = QuickPort Panels and Fiber Enclosures are sold separately.

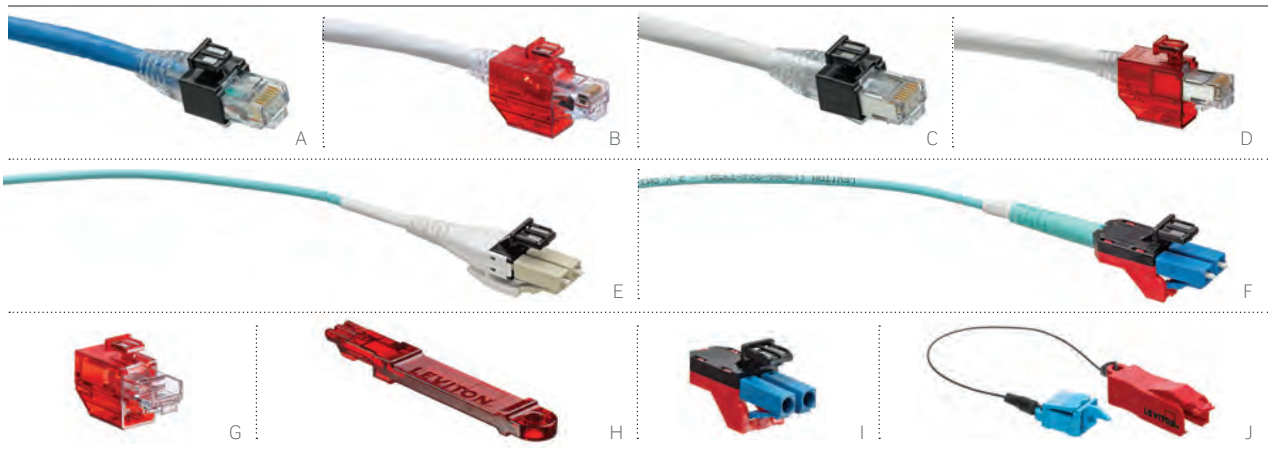
Make-to-Order! INTACT COPPER & INTACT SECURE RJ COPPER PATCH CORD OPTIONS

CORD TYPE	SECURE HOUSING COLOR	CABLE COLOR	CABLE TYPE	HOUSING PLACEMENT	CABLE LENGTH
<ul style="list-style-type: none"> • Intact • Intact Secure 	<ul style="list-style-type: none"> • Transparent White • Transparent Yellow • Transparent Orange • Transparent Red • Transparent Blue • Transparent Green • Transparent Black • Transparent Purple 	<ul style="list-style-type: none"> • White • Yellow • Red • Blue • Green • Grey • Black 	<ul style="list-style-type: none"> • Cat 6A FTP CM • Cat 6 UTP CM 	FIRST END <ul style="list-style-type: none"> • Intact • Intact Secure RJ SECOND END <ul style="list-style-type: none"> • Intact • Intact Secure RJ • Secure RJ 	<ul style="list-style-type: none"> • 3-72 Feet • 1-22 Meters

For assistance customizing your patch cords, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.

System Components

INTELLIGENT INFRASTRUCTURE



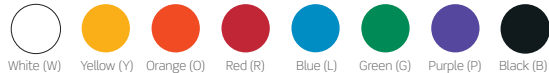
PATCH CORD FEATURES

- Intact Cat 6 and 6A RJ patch cords are independently tested and verified by Intertek (ETL) for component performance
- Intact fiber patch cords are available in OM4, OM3, OM2, OM1, and OS2
- Intact Secure RJ and LC cords include a patented locking mechanism that cannot be released without a matching-color extraction tool
- Intact Secure Port Blockers prevent unauthorized port access and enable ports to be reserved for future use
- Patch cord insertion loss and return loss tested to industry-leading standards for both copper and fiber

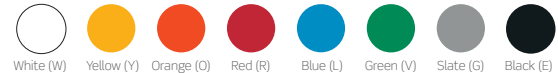
INTACT INTELLIGENT PATCH CORDS & PORT BLOCKERS

DESCRIPTION	PART NO.
[A] Intact Cat 6 Copper Patch Cord	Customize your patch cords at Leviton.com/configurator
[B] Intact Secure Cat 6 Copper Patch Cord	Customize your patch cords at Leviton.com/configurator
[C] Intact Cat 6A Copper Patch Cord	Customize your patch cords at Leviton.com/configurator
[D] Intact Secure Cat 6A Copper Patch Cord	Customize your patch cords at Leviton.com/configurator
[E] Intact Fiber Patch Cord	Customize your patch cords at Leviton.com/configurator
[F] Intact Secure Fiber Patch Cord	Customize your patch cords at Leviton.com/configurator
[G] Intact Secure RJ Port Blocker	MRJPB-00*
[H] Secure RJ Extraction Tool	SRJET-00*
[I] Intact Secure LC Port Blocker	MLCPB-^LG
[J] Secure LC Extraction Tool with Dust Cap	ETR TN-^TL

* = Secure RJ Colors (transparent):



^ = Secure LC Colors:



Make-to-Order! INTACT FIBER & INTACT SECURE LC FIBER PATCH CORD OPTIONS

FIBER TYPE	KEYED COLOR	CABLE TYPE / POLARITY	TERMINATION	CABLE LENGTH
<ul style="list-style-type: none"> • OM1 • OM2 • OM3 • OM4 • OS2 	<ul style="list-style-type: none"> • White • Yellow • Orange • Red • Blue • Green • Slate • Black 	<ul style="list-style-type: none"> • Duplex Riser-Rated A to B Polarity • Duplex Plenum-Rated A to B Polarity • Duplex Riser-Rated A to A Polarity • Duplex Plenum-Rated A to A Polarity 	<p>FIRST END</p> <ul style="list-style-type: none"> • Intact Duplex LC (uniboot) • Intact Secure Duplex LC (uniboot) <p>SECOND END</p> <ul style="list-style-type: none"> • Intact Duplex LC (uniboot) • Intact Secure Duplex LC (uniboot) • Secure Duplex LC (uniboot) • Duplex LC (uniboot) 	<ul style="list-style-type: none"> • 1-22 Meters



For assistance customizing your patch cords, please visit Leviton.com/configurator or call Tech Support at 800.824.3005.



POWER SOLUTIONS

SECTION



SECTION **G** CONTENTS

POWER DISTRIBUTION UNITS (PDUs)	G3	Switched & Metered Series
	G5	P1000 Series
	G7	5500 & 5505 Series
	G8	4500 Series

POWER DISTRIBUTION | Switched & Metered Series



SWITCHED SERIES

- Full-featured network management provided via Web, SNMP, and Telnet allows remote access, configuration, and management
- Remote individual outlet control allows shut-down of unused outlets and remote rebooting of attached equipment
- Aggregate current draw can be monitored remotely or locally via digital display
- Power sequencing minimizes in-rush current and prevents circuit overload
- SNMP alerts when power or environmental conditions exceed thresholds
- Firmware is easily upgraded via network download to installed units for future product enhancements
- External probe available separately for relative temperature and humidity monitoring; simply plug it into one of two RJ-11 ports
- Available in vertical Zero-U or horizontal rack-mount styles
- Attaches to most common cabinets and racks with included mounting hardware
- Switched Series includes all features from the Metered Series

METERED SERIES

- Current monitoring helps prevent overloads in high-density computing environments
- Available in vertical Zero-U or horizontal rack-mount styles
- Horizontal units mount on 19" racks and cabinets
- Included mounting hardware allows attachment to most common cabinets and racks

STANDARDS & CERTIFICATIONS

UL 60950-1
LISTED | #E228302

RECOMMENDED APPLICATIONS:

Data Center Cabinets
Telecommunications
Racks

POWER DISTRIBUTION | Switched & Metered Series

SWITCHED SERIES VERTICAL POWER DISTRIBUTION UNITS (PDUs)

PART NO.	INPUT			OUTPUT			DIMENSIONS (inches) L x W x D
	VOLTAGE	AMPS	INPUT CORD TYPE, LENGTH & PLUG	VOLTAGE	RECEPTACLE TYPE	RECEPTACLE QUANTITY	
[A] SV161-1D1*	120V	20A	Modular Cord sold separately; see accessories below	120V	5-20R	16	44.4 x 1.75 x 2.25

SWITCHED SERIES HORIZONTAL POWER DISTRIBUTION UNITS (PDUs)

PART NO.	INPUT			OUTPUT			DIMENSIONS (inches) H x W x D
	VOLTAGE	AMPS	INPUT CORD TYPE, LENGTH & PLUG	VOLTAGE	RECEPTACLE TYPE	RECEPTACLE QUANTITY	
[B] SH081-1D1*	120V	20A	Modular Cord sold separately; see accessories below	120V	5-20R	8	1.75 x 17.0 x 7.0
[C] SH082-1C2	208V	30A	Hardwired; 10' w/L6-30P plug	208V	C13	8	1.75 x 17.0 x 7.0

METERED SERIES HORIZONTAL POWER DISTRIBUTION UNITS (PDUs)

PART NO.	INPUT			OUTPUT			DIMENSIONS (inches) H x W x D
	VOLTAGE	AMPS	INPUT CORD TYPE, LENGTH & PLUG	VOLTAGE	RECEPTACLE TYPE	RECEPTACLE QUANTITY	
[D] MH101-1D1*	120V	20A	Modular Cord sold separately; see accessories below	120V	5-20R	10	1.75 x 17.5 x 5.0
[E] MH122-1C2	208V	30A	Hardwired; 10' w/L6-30P plug	208V	C13	12	1.75 x 17.5 x 5.0

* = 120V/20A PDUs require a modular power cord.

ACCESSORIES

DESCRIPTION	PART NO.
Modular Power Cord, C19 to 5-15P, 10'	PCORD-G10
Modular Power Cord, C19 to 5-20P, 10'	PCORD-A10
Modular Power Cord, C19 to L5-20P, 10'	PCORD-H10
Temperature & Relative Humidity Probe, 10'	TCORD-010

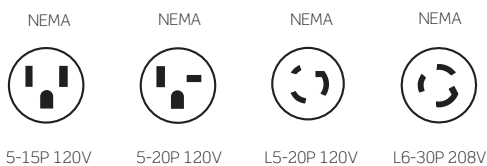


PCORD-G10



TCORD-010

INPUT PLUG TYPES



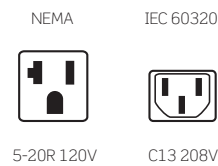
5-15P 120V

5-20P 120V

L5-20P 120V

L6-30P 208V

OUTPUT RECEPTACLE TYPES



5-20R 120V

C13 208V

POWER DISTRIBUTION | P1000 Series



Leviton P1000 Series Rack PDUs are designed for data centers, wiring closets, and other environments that require cost-effective, “always on” power. The robust, compact design ensures that these products can be used wherever reliability and density are important.

P1000 SERIES

- All models feature circuit breaker protection to prevent current overloads
- Available in 120V or 208V versions with 15, 20, or 30 amps
- 208V PDUs come with 2-pole circuit breakers for added safety
- Surge-protected models prevent damage from transient surges
- LED indicators for power, grounding/polarity, and surge protection where applicable
- Hardwired power input cord
- 18-gauge cold-rolled steel construction
- Available in vertical Zero-U or horizontal 19" rack-mount styles
- Mounting hardware included; optional adjustable rack-mounting bracket available



Vertical P1000 units ship with flat brackets, L-brackets, backplates, mounting buttons, screws, and washers to support a variety of workstation options.



STANDARDS & CERTIFICATIONS

UL 60950-1 LISTED | #E228302

UL 1449 LISTED 3RD ED. | #E228302
(P1070 SERIES ONLY)

RECOMMENDED APPLICATIONS:

Data Center Cabinets

Telecommunications Racks

UNMETERED HORIZONTAL POWER DISTRIBUTION UNITS (PDUs), SINGLE INPUT

PART NO.	INPUT				OUTPUT			DIMENSIONS (inches) H x W x D
	VOLTAGE	AMPS	CORD LENGTH	PLUG TYPE	VOLTAGE	RECEPTACLE TYPE	RECEPTACLE QUANTITY	
P1020-12S	120V	15A	12'	5-15P	120V	5-15R	10	1.75 x 17.5 x 4.5
[A] P1021-12S	120V	20A	12'	5-20P	120V	5-20R	10	1.75 x 17.5 x 4.5
P1022-12L	120V	20A	12'	L5-20P	120V	5-20R	10	1.75 x 17.5 x 4.5
P1023-12L	120V	30A	12'	L5-30P	120V	5-20R	16	3.5 x 17.5 x 4.5
[B] P1024-12L	208V	20A	12'	L6-20P	208V	C13	12	1.75 x 17.5 x 4.5
P1025-12L	208V	30A	12'	L6-30P	208V	C13	16	3.5 x 17.5 x 4.5

UNMETERED VERTICAL POWER DISTRIBUTION UNITS (PDUs), SINGLE INPUT

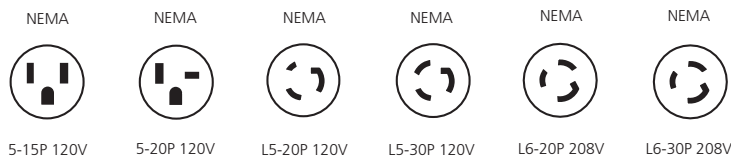
PART NO.	INPUT				OUTPUT			DIMENSIONS (inches) L x W x D
	VOLTAGE	AMPS	CORD LENGTH	PLUG TYPE	VOLTAGE	RECEPTACLE TYPE	RECEPTACLE QUANTITY	
P1040-10S	120V	15A	10'	5-15P	120V	5-15R	16	30.0 x 1.8 x 1.75
[C] P1041-10S	120V	20A	10'	5-20P	120V	5-20R	16	30.0 x 1.8 x 1.75
P1042-10L	120V	20A	10'	L5-20P	120V	5-20R	16	30.0 x 1.8 x 1.75
P1043-10S	120V	20A	10'	5-20P	120V	5-20R	24	48.0 x 1.8 x 1.75
[D] P1044-10L	120V	20A	10'	L5-20P	120V	5-20R	24	48.0 x 1.8 x 1.75
P1045-10L	120V	30A	10'	L5-30P	120V	5-20R	24	48.0 x 1.8 x 1.75
P1046-10L	208V	20A	10'	L6-20P	208V	C13	24	48.0 x 2.19 x 2.0
[E] P1047-10L	208V	30A	10'	L6-30P	208V	C13	24	48.0 x 2.19 x 2.0

SURGE-PROTECTED VERTICAL POWER DISTRIBUTION UNITS (PDUs), SINGLE INPUT

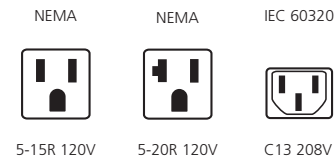
PART NO.	INPUT				OUTPUT			DIMENSIONS (inches) L x W x D
	VOLTAGE	AMPS	CORD LENGTH	PLUG TYPE	VOLTAGE	RECEPTACLE TYPE	RECEPTACLE QUANTITY	
P1070-10S	120V	15A	10'	5-15P	120V	5-15R	16	30.0 x 2.19 x 1.73
P1071-10S	120V	20A	10'	5-20P	120V	5-20R	16	30.0 x 2.19 x 1.73
P1072-10L	120V	20A	10'	L5-20P	120V	5-20R	16	30.0 x 2.19 x 1.73
P1073-10S	120V	20A	10'	5-20P	120V	5-20R	24	48.0 x 2.19 x 1.73
P1074-10L	120V	20A	10'	L5-20P	120V	5-20R	24	48.0 x 2.19 x 1.73

All P1000 Series PDUs have hard-wired cords.

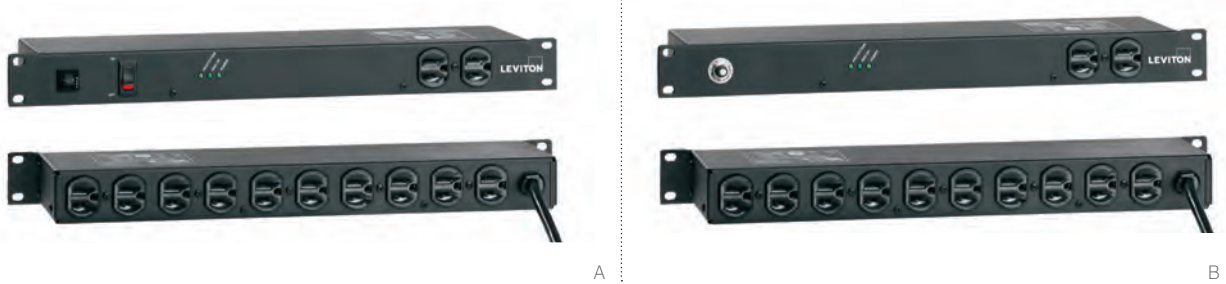
INPUT PLUG TYPES



OUTPUT RECEPTACLE TYPES



POWER DISTRIBUTION | 5500 & 5505 Series



Leviton 5500 and 5505 Series Power Distribution Units (PDUs) help power and protect vital electronic equipment. These PDUs are similar to the 4500 Series, but with the added assurance of surge protection. The 5500 and 5505 Series share several key features, including:

- Resettable circuit breaker to protect against overloading
- 12 receptacles: 10 in back, 2 in front
- 20-amp versions available with either straight blade or locking input plug
- Mounts horizontally on 19" racks or cabinets

STANDARDS & CERTIFICATIONS

UL 1363 RECOGNIZED | #E118936

5500: UL 1449 LISTED 3RD ED. | #E118936/3/1

5505: UL 1449 LISTED 3RD ED. | #E118936/3/2

5500 SERIES W/ ENHANCED SURGE PROTECTION

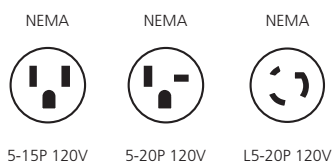
- Peak surge current: 72 kA
- VPR — L-N: 400 Vpk, L-G/N-G: 500 Vpk
- EMI/RFI noise filtering: 100 kHz to 30 MHz, -10 dB to -35 dB
- Type SPD: 4
- Physical dimensions: 1.75" H x 19" W x 4.55" D

5505 SERIES W/ SURGE PROTECTION

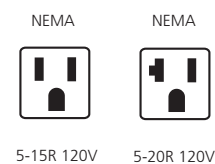
- Peak surge current: 27 kA
- VPR — L-N: 600 Vpk, L-G/N-G: 700 Vpk
- EMI/RFI noise filtering: 100 kHz to 30 MHz, -5 dB to -40 dB
- Type SPD: 4
- Physical dimensions: 1.75" H x 19" W x 2.5" D

5500/5505 SERIES RACK-MOUNT POWER DISTRIBUTION UNITS (PDUs) WITH SURGE PROTECTION										
PART NO.	FOOTPRINT	ON/OFF SWITCH		INPUT			OUTPUT			
		YES	NO	INPUT VOLTAGE	AMPS	CORD LENGTH	INPUT PLUG	OUTPUT VOLTAGE	RECEPTACLE TYPE	RECEPTACLE QUANTITY
[A] 5500-190	Horizontal / Rack Mnt.	•		120V	15A	12'	5-15P	120V	5-15R	12
5500-192	Horizontal / Rack Mnt.	•		120V	20A	12'	5-20P	120V	5-20R	12
5500-20L	Horizontal / Rack Mnt.	•		120V	20A	12'	L5-20P	120V	5-20R	12
5500-15N	Horizontal / Rack Mnt.		•	120V	15A	12'	5-15P	120V	5-15R	12
[B] 5500-20N	Horizontal / Rack Mnt.		•	120V	20A	12'	5-20P	120V	5-20R	12
5500-2NL	Horizontal / Rack Mnt.		•	120V	20A	12'	L5-20P	120V	5-20R	12
5505-190	Horizontal / Rack Mnt.	•		120V	15A	12'	5-15P	120V	5-15R	12

INPUT PLUG TYPES



OUTPUT RECEPTACLE TYPES





A



B

Leviton 4500 Series Power Distribution Units (PDUs) provide the robust and economical solutions needed to power vital electronic equipment. Similar to the 5500 series, but without surge protection, the 4500 Series offers flexibility and economy for use in diverse applications.

4500 SERIES

- Resettable circuit breaker provides overload protection
- 12 receptacles: 10 in back, 2 in front
- Available in 15- or 20-amp versions
- 20-amp versions available with either straight blade or locking input plug
- Easy-access on/off rocker switch
- Mounts horizontally on 19" racks or cabinets
- Physical dimensions: 1.75" H x 19" W x 3" D

STANDARDS & CERTIFICATIONS

UL 1363 RECOGNIZED | #E118936

UL 60950-1 LISTED | #E228302

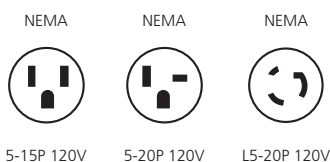
RECOMMENDED APPLICATIONS: (5500/5505/4500)

Telecommunications Racks

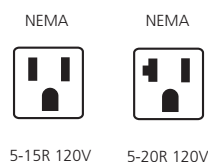
4500 SERIES RACK-MOUNT POWER DISTRIBUTION UNITS (PDUs)

PART NO.	FOOTPRINT	ON/OFF SWITCH		INPUT			OUTPUT			
		YES	NO	INPUT VOLTAGE	AMPS	CORD LENGTH	INPUT PLUG	OUTPUT VOLTAGE	RECEPTACLE TYPE	RECEPTACLE QUANTITY
4515-07S	Horizontal / Rack Mnt.	•		120V	15A	7'	5-15P	120V	5-15R	12
[A] 4515-10S	Horizontal / Rack Mnt.	•		120V	15A	10'	5-15P	120V	5-15R	12
4515-15S	Horizontal / Rack Mnt.	•		120V	15A	15'	5-15P	120V	5-15R	12
4520-07S	Horizontal / Rack Mnt.	•		120V	20A	7'	5-20P	120V	5-20R	12
[B] 4520-10S	Horizontal / Rack Mnt.	•		120V	20A	10'	5-20P	120V	5-20R	12
4520-15S	Horizontal / Rack Mnt.	•		120V	20A	15'	5-20P	120V	5-20R	12
4520-07L	Horizontal / Rack Mnt.	•		120V	20A	7'	L5-20P	120V	5-20R	12
4520-10L	Horizontal / Rack Mnt.	•		120V	20A	10'	L5-20P	120V	5-20R	12
4520-15L	Horizontal / Rack Mnt.	•		120V	20A	15'	L5-20P	120V	5-20R	12

INPUT PLUG TYPES



OUTPUT RECEPTACLE TYPES

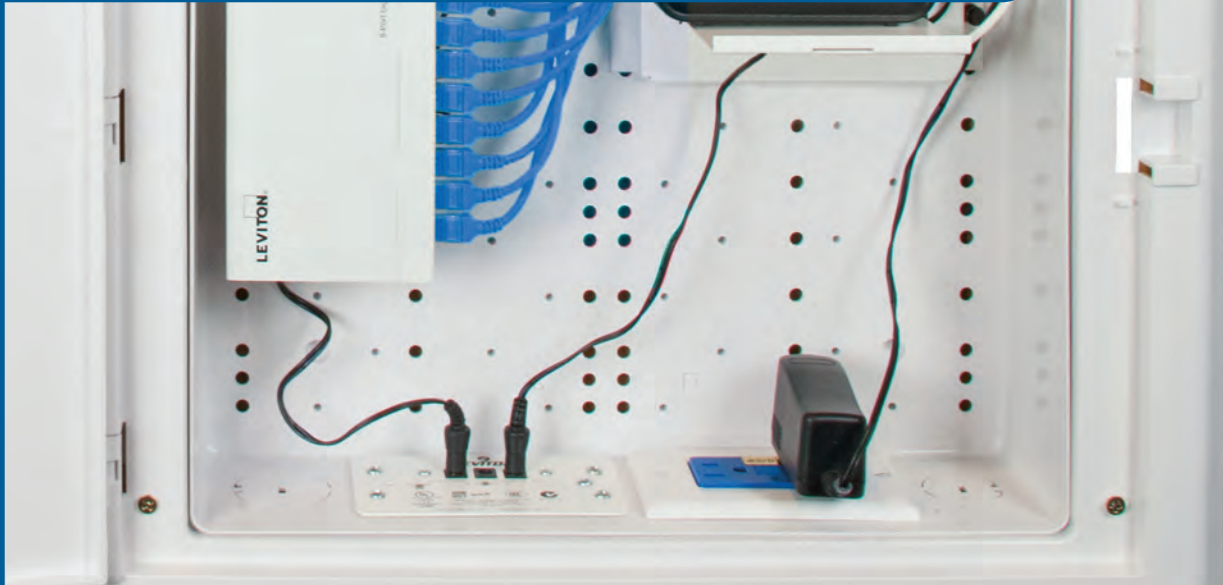




MDU & HOSPITALITY SOLUTIONS

SECTION

H



SECTION H CONTENTS

MULTIPLE DWELLING UNITS (MDU) SYSTEMS

H3 Populating the Structured
Media® Enclosure

STRUCTURED MEDIA®

H5 Structured Media Enclosures

H9 Concrete-Mountable Structured
Media & RF Transparent
Enclosures

H10 Fiber-to-the-Home (FTTH)
Solutions

H11 Routers & Switches

H12 Power Supplies & Surge Protection

H13 Mounting Brackets & Patch Cords

H15 Twist & Mount, TIDP & Compact
Structured Media Panels

H16 Standard Structured Media
Panels

H17 Modules & Expansion Boards

H19 Video Distribution & Splitters

H20 Tools

POPULATING THE STRUCTURED MEDIA ENCLOSURE - THE NERVE CENTER OF THE CONNECTED HOME

For every residence — single-family home, high-rise, or hotel — Leviton offers an unparalleled selection of structured wiring solutions for networking, audio, video, and more. And we offer the ideal central distribution point to manage them all.



THE CONNECTED HOME

Get enterprise-grade, best-in-class broadband network performance capability with Leviton Structured Media components. These solutions are engineered to be an integrated system, providing an organized base and simplifying installation from rough-in through line activation. For enclosure configuration assistance, go to Leviton.com/homeconfig.

1	Structured Media Enclosures	These versatile enclosures allow you to manage and distribute a full range of voice, data networking, audio, and video wiring from one central location. We have enclosure solutions for every construction type: wood, steel frame, concrete, and cinder block construction, and an RF Transparent Enclosure for expanding the reach of a wireless network.
2	Data Patching and Distribution	Leviton offers durable Cat 6 and 5e panels and modules for data cable distribution. The high-end Twist & Mount Panel makes installation easy and provides easy access for moves, additions, or changes in the home network.
3	Telephone Patching and Distribution	Choose from a wide selection of telephone distribution boards, modules, or panels for telephone and security systems. Our Telephone Input Distribution Panel (TIDP) supports inputs for use with “triple play” modems and complements the look and simplicity of our Twist & Mount Patch Panels.
4	Premium and Passive CATV Splitters	Distribute the incoming RF signal to locations throughout a home via coaxial cable using Leviton’s passive CATV splitters, or use Premium splitters to optimize the performance of digital cable signals to handle HDTV.
5	Wireless Routers and Switches	Leviton offers a complete Gigabit solution with high-speed routers and switches. Create a Wide Area Network (WAN) in the home or office to network PCs, printers, and other connected devices. Integrate with the Leviton Wireless Router for maximum speeds on wired and portable devices.
6	Ultra High-Flex Patch Cords	Ultra High-Flex Patch Cords allow for tighter radius connections and a cleaner finished appearance inside a dressed Structured Media Enclosure.
7	ISP Modem (provided by service provider)	The modem converts DSL, cable, or fiber optic signals for Internet access for triple-play service or pure data connections.
8	Integrated Power Supply	Structured cabling systems rely on active gear that requires low-voltage power and surge protection. Leviton offers power supplies with extra plugs that eliminate the need for bulky power adapters within enclosures.



Leviton Structured Media Enclosures provide a convenient termination location for wiring home runs from wall outlets, creating a distribution point for voice, data, audio, and video applications. Available in compact, 14", 21", 28", and 42" sizes to address a broad range of capacities for single family homes, MDUs, and light commercial applications, Leviton Structured Media Enclosures support new and retrofit installations.

STRUCTURED MEDIA ENCLOSURES, COVERS & DOORS

- Enclosures are constructed of white powder-coated 20-gauge steel
- Covers and doors are constructed of white powder-coated 18-gauge steel, and feature 3/4" overlap to hide irregular drywall cuts
- Modules mount vertically or horizontally
- Multiple knock-outs on top and bottom facilitate cable entry and routing
- Knock-out in base of enclosure accommodates single- and double-gang J-boxes and power modules
- Six 3" self-healing foam grommets included to accommodate and protect cable bundles
- Can be surface mounted or recessed
- Mounting tabs on housing sidewalls prevent enclosure from falling through the studs during installation
- Combine two or more enclosures for larger installations or future expansion
- Optional lock and key set available for additional security
- Standards compliance: ACA and cULus Listed:
 - ANSI/UL 1863 - Communication Circuit Accessories
 - ANSI/UL 985 - Household Fire-Warning System Units
 - ANSI/UL 1023 - Household Burglar-Alarm System Units

14" & 21" ENCLOSURES, COVERS & DOORS

- Entry-level home network enclosures create a central distribution point for low-voltage cabling
- Ideal for apartments, condos, and smaller homes
- 14" enclosure accommodates basic residential networking systems and accessories
- 21" enclosure provides additional room for larger modules and equipment

COMPACT STRUCTURED MEDIA MDU ENCLOSURES

- Economical solution for MDU connectivity
- Flexibility to accommodate a variety of telephone/video distribution configurations
- Snap-on cover requires no tools or fasteners
- Molded-in brackets provide quick snap-in convenience for expansion boards
- Angled video-splitter shelf for easy installation
- Hosts three expansion boards and one TV splitter
- Constructed of sturdy white ABS molded plastic

14" STRUCTURED MEDIA ENCLOSURES, COVERS & DOORS	
DESCRIPTION	PART NO.
14" Enclosure and Flush-Mount Cover, 15.32" (389.1 mm) H x 15.62" (396.7 mm) W x 3.83" (97.3 mm) D	47605-140
[A] 14" Enclosure, 14.0" (355.6 mm) H x 14.38" (365.3 mm) W x 3.63" (92.2 mm) D	47605-14E
14" Multi-Dwelling Unit Configuration A, Enclosure and Flush-Mount Cover, 15.32" (389.1 mm) H x 15.62" (396.7 mm) W x 3.83" (97.3 mm) D (see page H8 for knock-out configurations)	47605-1MG
[B] 14" Flush-Mount Cover, 15.32" (389.1 mm) H x 15.62" (396.7 mm) W x 0.20" (5.1 mm) D	47605-14C
[C] 14" Economy Hinged Door, 15.32" (389.1 mm) H x 15.62" (396.7 mm) W x 0.25" (6.4 mm) D	47605-14D
14" Premium Vented Hinged Door, 15.32" (389.1 mm) H x 15.62" (396.7 mm) W x 0.25" (6.4 mm) D	47605-14S
14" Enclosure, job packed, 6 per pack, 14.0" (355.6 mm) H x 14.38" (365.3 mm) W x 3.63" (92.2 mm) D	47605-14G
14" Flush-Mount Cover, job packed, 6 per pack, 15.32" (389.1 mm) H x 15.62" (396.7 mm) W x 0.20" (5.1 mm) D	47605-14B
14" Ceiling-Mount Kit, .75" (19 mm) H x 23.68" (601.5 mm) W x 23.68" (601.5 mm) D	47612-CMK
Structured Media Enclosure Lock & Key for 14", 21", 28", and 42" hinged doors	5L000-L0K
21" STRUCTURED MEDIA ENCLOSURES, COVERS & DOORS	
[D] 21" Enclosure, 21.0" (533.4 mm) H x 14.38" (365.3 mm) W x 3.63" (92.2 mm) D	47605-21E
[E] 21" Flush-Mount Cover, 22.35" (567.7 mm) H x 15.62" (396.7 mm) W x 0.20" (5.1 mm) D	47605-21C
[F] 21" Premium Vented Hinged Door, 22.35" (567.7 mm) H x 15.62" (396.7 mm) W x 0.25" (6.4 mm) D	47605-21S
Structured Media Enclosure Lock & Key for 14", 21", 28", and 42" hinged doors	5L000-L0K
COMPACT STRUCTURED MEDIA MDU ENCLOSURES	
[G] Compact Structured Media Enclosure and Cover, empty, 8.02" (203.7 mm) H x 14.38" (365.2 mm) W x 3.71" (94.2 mm) D	47605-MDU
Compact Structured Media Enclosure Cover only, 15.375" (390.5 mm) H x 9" (228.6 mm) W x .5" (12.7 mm) D	47605-MDC
[H] MDU Kit (Compact Structured Media Enclosure and Cover plus 1x6 Telephone Expansion Board), 8.02" (203.7 mm) H x 14.38" (365.2 mm) W x 3.71" (94.2 mm) D	47604-0F6
[I] MDU Kit (Compact Structured Media Enclosure and Cover plus 1x6 Telephone Expansion Board and 6-Way 1 GHz Splitter), 8.02" (203.7 mm) H x 14.38" (365.2 mm) W x 3.71" (94.2 mm) D	47604-F6S



A



B



C



D



E



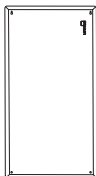
F

28" & 42" ENCLOSURES, COVERS & DOORS

- Command central for virtually all technology, including networking, DSL, cable Internet modem, satellite video, security, VoIP, fax, telephone, intercom, and audio
- Available in MDU and mixed-use configurations
- 28" enclosure accommodates up to 8 distribution modules
- 42" enclosure accommodates up to 12 distribution modules

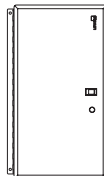
SPOTLIGHT

Choosing Your Structured Media Enclosure Cover or Door



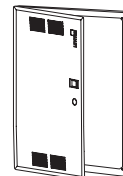
Flush-Mount Cover

Screws directly to enclosure frame.



Economy Hinged Door

Hinged flange attaches to left or right side of enclosure.



Premium Vented Hinged Door

Full-frame design. Ventilated door hinges from left or right.

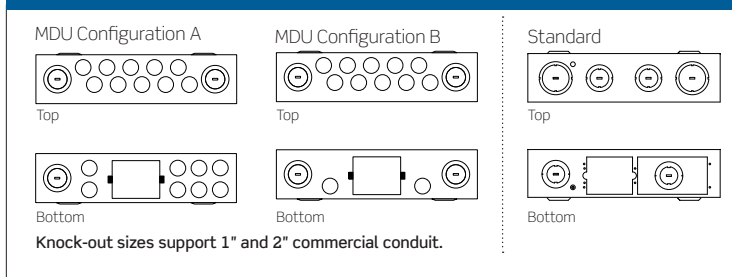
28" STRUCTURED MEDIA ENCLOSURES, COVERS & DOORS

DESCRIPTION	PART NO.
28" Enclosure and Flush-Mount Cover, 29.32" (744.7 mm) H x 15.62" (396.7 mm) W x 3.83" (97.3 mm) D	47605-28W
[A] 28" Enclosure, 28.0" (711.2 mm) H x 14.38" (365.3 mm) W x 3.63" (92.2 mm) D	47605-28N
28" Multi-Dwelling Unit Configuration A, Enclosure and Flush-Mount Cover, 29.32" (744.7 mm) H x 15.62" (396.7 mm) W x 3.83" (97.3 mm) D*	47605-2MG
28" Multi-Dwelling Unit Configuration B, Enclosure only, 28.0" (711.2 mm) H x 14.38" (365.3 mm) W x 3.63" (92.2 mm) D*	47605-M28
28" Flush-Mount Cover, 29.32" (744.7 mm) H x 15.62" (396.7 mm) W x 0.20" (5.1 mm) D	47605-F28
28" Economy Hinged Door, 29.32" (744.7 mm) H x 15.62" (396.7 mm) W x 0.25" (6.4 mm) D	47605-28D
28" Premium Hinged Door, 29.32" (744.7 mm) H x 15.62" (396.7 mm) W x 0.25" (6.4 mm) D	47605-28P
[B] 28" Premium Vented Hinged Door, 29.32" (744.7 mm) H x 15.62" (396.7 mm) W x 0.25" (6.4 mm) D	47605-28S
28" Enclosure, job packed, 3 per pack, 28.0" (711.2 mm) H x 14.38" (365.3 mm) W x 3.63" (92.2 mm) D	47605-28G
28" Flush-Mount Cover only, job packed, 3 per pack, 29.32" (744.7 mm) H x 15.62" (396.7 mm) W x 0.20" (5.1 mm) D	47605-28B
[C] 28" Pre-Fab Back Plate, 25" (635.0 mm) H x 13.5" (342.9 mm) W x 0.38" (9.65 mm) D	47605-28P
[G] Extender Bracket, 2" depth extension package for 28" Structured Media Enclosures**	47612-28B
Structured Media Enclosure Lock & Key for 14", 21", 28", and 42" hinged doors	5L000-L0K

42" STRUCTURED MEDIA ENCLOSURES, COVERS & DOORS

42" Enclosure and Flush-Mount Cover, 43.32" (1,100.3 mm) H x 15.62" (396.7 mm) W x 3.83" (97.3 mm) D	47605-42W
[D] 42" Enclosure, 42.16" (1,070.8 mm) H x 14.38" (365.3 mm) W x 3.63" (92.2 mm) D	47605-42N
42" Multi-Dwelling Unit Configuration A, Enclosure and Flush-Mount Cover, 43.32" (1,100.3 mm) H x 15.62" (396.7 mm) W x 3.83" (97.3 mm) D*	47605-4MG
42" Multi-Dwelling Unit Configuration B, Enclosure only, 42.16" (1,070.8 mm) H x 14.38" (365.3 mm) W x 3.63" (92.2 mm) D*	47605-M42
[E] 42" Flush-Mount Cover, 43.32" (1,100.3 mm) H x 15.62" (396.7 mm) W x 0.20" (5.1 mm) D	47605-F42
42" Economy Hinged Door, 43.32" (1,100.3 mm) H x 15.62" (396.7 mm) W x 0.25" (6.4 mm) D	47605-42D
[F] 42" Premium Vented Hinged Door, 43.32" (1,100.3 mm) H x 15.62" (396.7 mm) W x 0.25" (6.4 mm) D	47605-42S
42" Pre-Fab Back Plate, 40.0" (1,016.0 mm) H x 13.5" (342.9 mm) W x 0.38" (9.65 mm) D	47605-4BP
[G] Extender Bracket, 2" depth extension package for 42" Structured Media Enclosures**	47612-42B
Structured Media Enclosure Lock & Key for 14", 21", 28", and 42" hinged doors	5L000-L0K

*STRUCTURED MEDIA ENCLOSURE END CAPS



Leviton Extender Brackets provide an additional 2" of depth and enhanced ventilation for active gear within Leviton 28" and 48" Structured Media Enclosures. The brackets attach between the enclosure and the cover to form a 2" deep, vented frame. The increased depth also allows space for better cable management and for larger modules, such as audio amplifiers, to be mounted within the Structured Media Enclosure.

**Extender Bracket (enclosure sold separately)



MDU & HOSPITALITY | Concrete-Mountable & RF Transparent Structured Media® Enclosures



A



B

CONCRETE-MOUNTABLE STRUCTURED MEDIA ENCLOSURES

- Designed to withstand added weight during concrete pouring
- Moisture-resistant powder coating binds with treated steel to provide multiple levels of corrosion protection and durability
- Knock-outs on the top and bottom support conduit up to 1.5" in diameter and facilitate cable routing and entry
- Power knock-out located on side panel for increased vertical cable routing capacity
- Optional duplex receptacle power box constructed using same steel as enclosures for protection of electrical wiring components
- Flush-mount covers and doors overlap 3/4" to hide uneven concrete/mortar finishing (sold separately)
- Durable powder coating withstands 1/8" dent test (per ASTM D 522-93A standard) and minimizes scratching, cracking, or peeling during shipping or installation
- Use with standard covers or doors (See page H5-H8)

CONCRETE-MOUNTABLE STRUCTURED MEDIA ENCLOSURES

DESCRIPTION	PART NO.
Concrete-Mountable Structured Media Enclosure, 21"	48605-21E
[A] Concrete-Mountable Structured Media Enclosure, 28"	48605-28E
Concrete-Mountable Structured Media Enclosure, 42"	48605-42E
[B] Concrete-Mountable Structured Media Duplex Receptacle Power Box	48605-2GP



C

RF TRANSPARENT WIRELESS STRUCTURED MEDIA ENCLOSURE

- Expands the reach of wireless signals by diminishing the effect of interference with the ABS polymer construction
- Improves system access with a 180° hinged cover, allowing for quick and easy access to network equipment
- Makes servicing and expansion easy with twelve 1" entry/exit ports and additional 1/4" knock-outs and conduit adapters
- Compatible with most Structured Media patch panels, voice, data, video, and audio quick-connect distribution modules
- Ensures safety with UL Compliant ABS flame-retardant polymer
- Vented doors allows for better airflow and cooling of active equipment
- Accepts Structured Media Enclosure Lock & Key Set

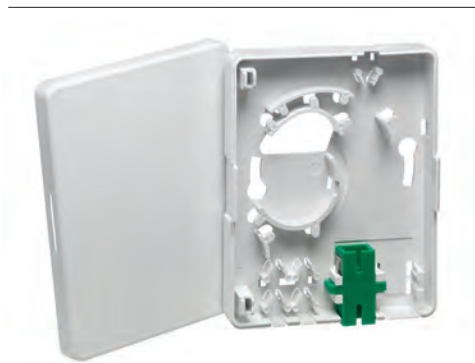
RF TRANSPARENT STRUCTURED MEDIA ENCLOSURE

DESCRIPTION	PART NO.
[C] RF Transparent Wireless Structured Media Enclosure with Vented Hinged Door, 30"	49605-30W

This integrated network system delivers a seamless experience that combines the wired performance of Gigabit Ethernet with the mobile-ready convenience of Wi-Fi® networking inside an innovative RF Transparent Structure Media enclosure.



47611-WG4



FTTH POINT OF ENTRY BOX

- Provides convenient staging for terminating incoming fiber from service provider
- Can mount inside the Structured Media® enclosure or as a stand-alone unit on a wall
- Includes magnet for easy installation and place adjustments
- Includes an SC/APC adapter with two dust caps and two splice sleeves
- Made of ABS plastic



MULTI-BAY FTTH ENCLOSURES

Multi-Bay Enclosures provide excellent termination and mounting locations for both in-home structured wiring and fiber-to-the-home (FTTH) components. Structured wiring components typically mount in the upper section of the dual enclosure and optical network termination (ONT) mounts in the lower section. The dual enclosure can be surface-mounted or mounted between metal or wood wall studs using provided screws.

- Allow separate lockable sections for FTTH integration
- In a separate bay, a full Leviton structured wiring system can be easily connected and optimized up to gigabit speeds to maximize incoming fiber optic connection
- Ideal for new installations or retrofits
- Use multiple covers or doors to provide access and security
- Flush-mount cover, economy, and premium vented doors available

FIBER-TO-THE-HOME SOLUTION

DESCRIPTION	PART NO.
[A] FTTH Point of Entry Box, 3.94" (100 mm) H x 3.15" (80 mm) W x .84" (21 mm) D Δ	FTH00-00W

MULTI-BAY ENCLOSURES

14" + 14" Dual Multi-Bay Enclosure, 29.64" (752.8 mm) H x 14.30" (363.2 mm) W x 3.63" (92.2 mm) D	47FTH-440
[B] 28" + 14" Dual Multi-Bay Enclosure, 46.64" (1,184.6 mm) H x 14.30" (363.2 mm) W x 3.63" (92.2 mm) D Δ	47FTH-840
28" + 14" + 14" Triple Multi-Bay Enclosure, 59.22" (1,504.1 mm) H x 14.30" (363.2 mm) W x 3.63" (92.2 mm) D	47FTH-844
42" + 14" Dual Multi-Bay Enclosure, 57.64" (1,464.1 mm) H x 14.30" (363.2 mm) W x 3.63" (92.2 mm) D	47FTH-420
14" + 14" + 14" Triple Multi-Bay Enclosure, 45.22" (1,148 mm) H x 14.30" (363.2 mm) W x 3.63" (92.2 mm) D Δ	47FTH-240
[C] 28" + 28" Dual Multi-Bay Enclosure, 57.64" (1,464.1 mm) H x 14.30" (363.2 mm) W x 3.63" (92.2 mm) D	47FTH-880

Note: See pages H5-H8 for covers and doors. Δ = Minimum order quantity and lead times may apply.



100 MBPS ROUTER

- 10/100 Mbps data transfer rate
- Enables multiple users to share a single, secure high-speed Internet connection
- Includes four ports for in-home LAN connections
- LEDs indicate power, status, LINK/Activity, 100 Mbps, and WAN
- Built-in NAT firewall provides secure communication for network users
- Customizes Web access and filters unwanted sites with URL blocking feature
- UPnP (universal plug-n-play) allows automatic discovery and configuration of the Gateway; UPnP supported by Windows XP® or later

GIGABIT ROUTER

- Compliant with IEEE 802.11a/b/g/n dual band (2.4G Hz & 5G Hz simultaneously) wireless technology capable up to 300+300 Mbps data rate
- Advanced security: 64/128-bit WEP, WPA/WPA2 and WPA-PSK/WPA2-PSK (TKIP/AES encryption)
- Supports Wi-Fi® Protected setup (WPS), NAT firewall, IP/port/URL-based access control, and MAC address filtering
- Includes Gigabit RJ-45 ports (10/100/1000 Mbps) of 1 WAN and 4 LAN ports
- Supports dual-SSID to access different networks through a single AP
- Supports NTP, Virtual Server, UPnP, and DMZ for various networking applications
- Includes USB port for sharing printers and USB mass storages

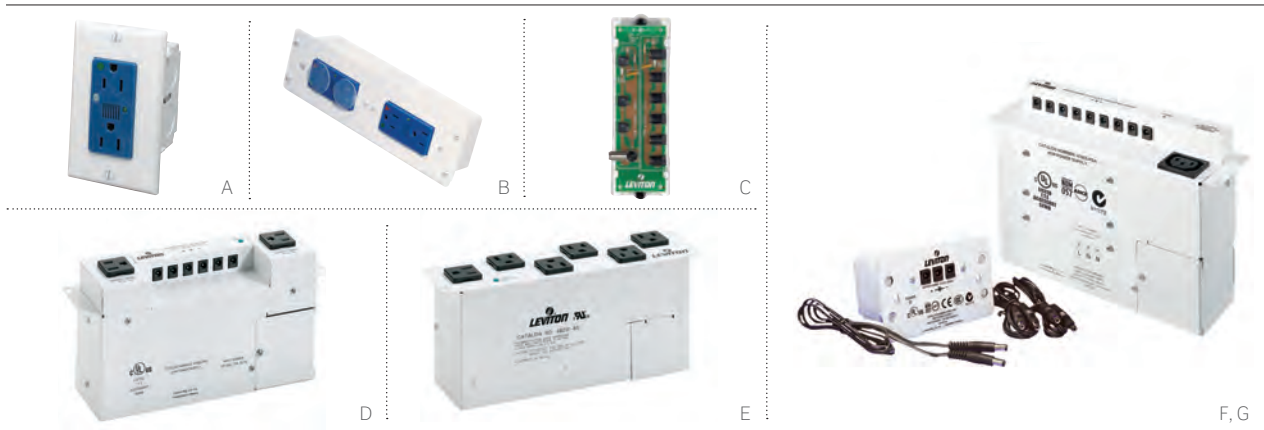
GIGABIT ETHERNET SWITCHES

- 10/100/1000 Mbps data transfer rate
- Power button arrows for easy power down
- LEDs indicate power; LINK/Activity; and 10, 100, or 1000 Mbps
- Auto detect uplink to easily cascade additional hubs, switches, and routers from any port
- Features high-performance, store-and-forward switching architecture with CRC

100 MBPS ETHERNET SWITCHES

- 10/100 Mbps data transfer rate
- Network additional PCs, printers, and other peripherals beyond router capacity
- Connects to many home office Ethernet devices
- Available in 5- and 8-port versions

DATA NETWORKING ROUTERS & SWITCHES		
DESCRIPTION	PART NO.	
[A] 10/100 Mbps 4-Port Internet Router, 2.52" (64 mm) H x 6.50" (165.1 mm) W x 3.54" (89.9 mm) D	47611-GT4	
[B] Gigabit 4-Port Router and 300 Mbps Dual-Band Wi-Fi, 6.76" (171.61 mm) H x 4.38" (111.16 mm) W x 1.01" (25.47 mm) D	47611-WG4	
100 Mbps 5-Port Ethernet Switch, 2.52" (64 mm) H x 6.50" (165.1 mm) W x 3.54" (89.9 mm) D	47611-5PT	
[C] 100 Mbps 8-Port Ethernet Switch, 2.52" (64 mm) H x 6.50" (165.1 mm) W x 3.54" (89.9 mm) D	47611-8PT	
[D] Gigabit 5-Port Ethernet Switch, 2.52" (64 mm) H x 6.50" (165.1 mm) W x 3.54" (89.9 mm) D	47611-5GB	
[E] Gigabit 8-Port Ethernet Switch, 2.52" (64 mm) H x 6.50" (165.1 mm) W x 3.54" (89.9 mm) D	47611-8GB	



SURGE-PROTECTION, STANDARD AC POWER MODULES & J-BOX KITS

- Fit in standard 14", 21", 28", and 42" Structured Media® Enclosures
- Surge-protected versions provide enhanced protection and EMI/RFI filtering per UL 1449 standards

DC BUS MODULE

- Eliminates need for more than two bulky AC/DC power adapters
- Contains six 12 VDC power outputs at up to 1500 mA total
- Contains three 24 VDC power outputs at up to 1000 mA total including one F-connector
- Output power cables included for all except 24 VDC F-connector connection

VERSATILE DC POWER SUPPLIES

- 120 VAC - 60 Hz input
- Provides 12 VDC outputs with surge protection at 3.34A total
- Includes NEMA 5-15 AC receptacles at 15A total
- Eliminates the need for multiple bulky AC/DC power adapters

AC SURGE MODULES

- Includes six surge-protected NEMA 5-15P receptacles
- Allows six AC/DC power adapters to fit easily into Structured Media Enclosures
- Powers routers, switches, modems, volume controls, camera hubs, and other Structured Media mounted devices

UNIVERSAL MINI DC POWER SUPPLIES

- 90 - 264 VAC - 50/60 Hz input
- Provides three 12 VDC outputs with surge protection at 833 mA total
- Eliminates the need for multiple bulky AC/DC power adapters

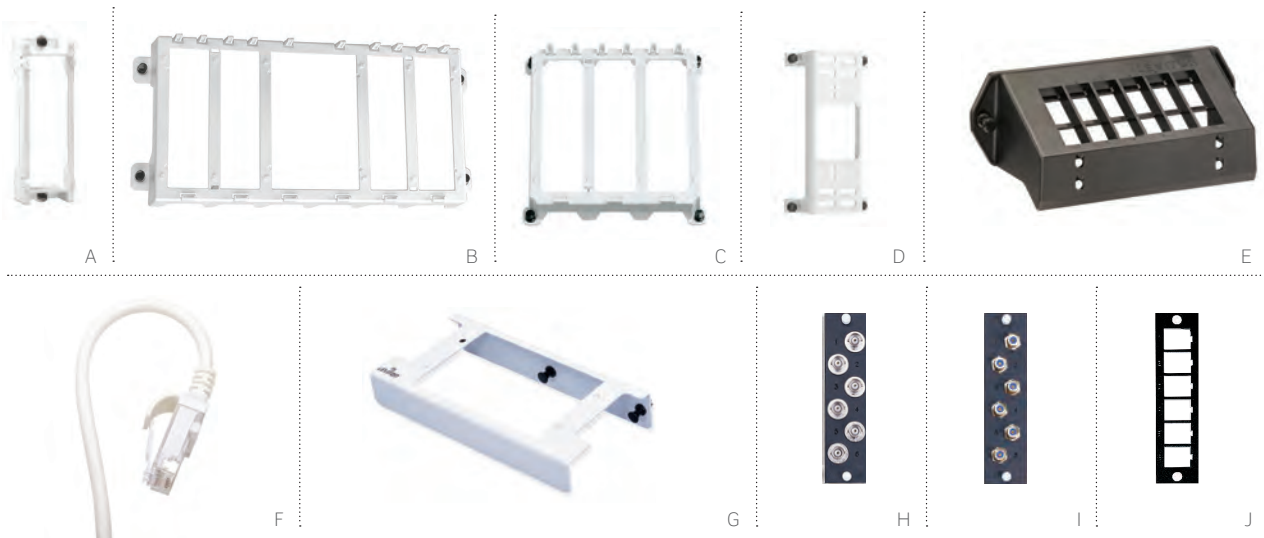
UNIVERSAL DC POWER SUPPLIES

- 100 - 240 VAC - 50/60 Hz input
- Provides nine 12 VDC outputs with surge protection at 3.34A total
- Includes one IEC AC power receptacle
- Eliminates the need for multiple bulky AC/DC power adapters

POWER SUPPLIES

DESCRIPTION	PART NO.
[A] Surge J-Box Kit, one duplex receptacle, wallplate	47605-ACS
Non-Surge J-Box Kit, one duplex receptacle, wallplate	47605-ACN
[B] Surge AC Power Module, two duplex receptacles	47605-ODP
Non-Surge AC Power Module, two duplex receptacles	47605-NDP
[C] DC Bus Module, 12 VDC and 24 VDC	48212-124
[D] Versatile Power Supply, six 12 VDC connectors and two NEMA 15A receptacles	47605-PSC
[E] AC Surge Module, six receptacles	48212-06S
[F] Universal Mini DC Power Supply, three 12 VDC connectors	47605-PSB
[G] Universal DC Power Supply, nine 12 VDC connectors and one IEC AC receptacle	47605-PSA
IEC TO NEMA 15A Adapter Power Cord, 12" (accessory for 47605-PSA)	48212-IEC

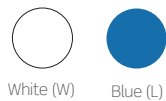
MDU & HOSPITALITY | Mounting Brackets & Patch Cords



MOUNTING BRACKETS	
DESCRIPTION	PART NO.
[A] Single Plastic Bracket, for single expansion board, white	47612-SBK
[B] Standard (12" width) Expansion Plastic Bracket, for up to five expansion boards, white	47612-EBK
Shelf Plastic Bracket, for up to three expansion boards and CATV splitter, white (compact width)	47612-VSB
[C] Compact (6" width) Expansion Plastic Bracket, for up to three expansion boards, white	47612-HBK
[D] Data Plastic Bracket, for mounting routers and switches	47612-DBK
[E] 12-Port QuickPort® Mounting Bracket	47600-QPB

HOME 5E® PATCH CORDS	
DESCRIPTION	PART NO.
[F] High-Flex Home 5e Patch Cord	5HHOM-xx*
8-Conductor Flat Telephone Patch Cord, 8" long	42400-8FG

xx = Length: 6" (01), 1' (01), 2' (02), 3' (03), or 4' (04)
 * = Colors: Choose from either of the colors below.



MULTIMEDIA ADAPTER BRACKET & MOUNTING PLATES	
DESCRIPTION	PART NO.
[G] Multimedia Adapter Bracket	47612-MMA
[H] BNC Mounting Plate, 6-pack, loaded	5F100-BNC
[I] F-Connector Mounting Plate, 6-pack, loaded	5F100-6VF
[J] QuickPort Mounting Plate, 6-pack, unloaded	5F100-6QP

MOUNTING BRACKETS (Items A-E)

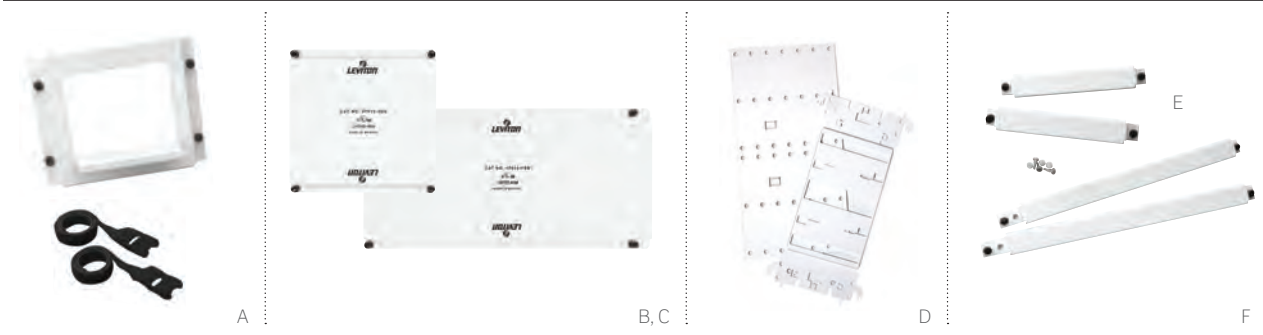
- Made of sturdy white ABS plastic
- Include push-lock pins
- Snap-in installation in any Leviton 14", 21", 28", or 42" Structured Media® Enclosure
- Allow for cable management via routing under bracket
- 12-port bracket made of black polycarbonate
- 12-port bracket accepts all QuickPort® connectors

HOME 5E PATCH CORDS

- Low-profile High-Flex Patch Cords allow tighter radius connections
- Available in five lengths and two colors

MULTIMEDIA ADAPTER BRACKET & MOUNTING PLATES

- Bracket is constructed of white powder-coated steel
- Plates are constructed of black powder-coated steel
- Bracket includes push-lock pins for mounting in Structured Media Enclosures



UNIVERSAL SECURITY & SHELF BRACKETS

- **Universal Shelf Bracket** allows security batteries and other active products to be mounted inside any Structured Media® Enclosure
- **Shelf Bracket** includes four 8" long VELCRO® Brand strips, ensuring vertical and horizontal stability
- **Universal Security Board Mounting Plate** includes four adhesive clips for mounting within any Leviton Structured Media Enclosure
- **Combo Bracket** allows Leviton products to be installed in most non-Leviton structured wiring enclosures
- **Universal Mounting Brackets** allow an unlimited number of upgrades (limited only by enclosure size) to be added to an existing security system terminated within any Leviton Structured Media Enclosure
- **Universal Brackets** are sold in pairs with self-tapping screws and spacers to easily connect the largest number of security alarm manufacturers' panels

UNIVERSAL SECURITY & SHELF BRACKETS	
DESCRIPTION	PART NO.
[A] Universal Shelf Bracket	47612-UBK
[B] Compact (6" width) Universal Security Board Mounting Plate	47612-HSB
[C] Standard (12" width) Universal Security Board Mounting Plate	47612-FSB
[D] Combo Bracket	47612-CBK
[E] Compact (6" width) Universal Mounting Bracket	47612-6SB
[F] Standard (12" width) Universal Mounting Bracket	47612-1SB



TWIST & MOUNT PATCH PANELS

- Low-profile, high-density, component-rated patching for both voice and gigabit ethernet connections
- Feature simple twist and mount installation
- Universal T568A and T568B wiring labels ensure compatibility in residential and commercial installations
- Available in 12- and 24-port versions

TELEPHONE INPUT DISTRIBUTION PANELS (TIDP)

- Supports four-line telephone distribution
- Offers choice of inputs and outputs: one 4-pair 110-style IDC input, four industry-standard RJ-11 jack inputs, or 12 modular industry-standard RJ-45 jack outputs
- Security jack for interface with security systems
- Test and auxiliary disconnect outlet (ADO) ports for isolation and testing of telephone line connections

TWIST & MOUNT PANELS & TELEPHONE DISTRIBUTION PANELS

DESCRIPTION	PART NO.
Twist & Mount Patch Panel - 12 ports each of Cat 6 and Cat 5e (24 ports total)	476TM-654
[A] Twist & Mount Patch Panel - 24 ports of Cat 6	476TM-624
Twist & Mount Patch Panel - 24 ports of Cat 5e	476TM-524
Twist & Mount Patch Panel - 6 ports each of Cat 6 and Cat 5e (12 ports total)	476TM-652
Twist & Mount Patch Panel - 12 ports of Cat 6	476TM-612
[B] Twist & Mount Patch Panel - 12 ports of Cat 5e	476TM-512
[C] Telephone Input Distribution Panel (TIDP)	476TL-T12

PRE-CONFIGURED COMPACT STRUCTURED MEDIA PANELS

- Compact series (6" width) pre-configured panels are an ideal solution for basic telephone, data, security interface, and TV distribution in MDUs where space and budget are of primary concern
- Space-saving profile provides four to nine bridged telephone connections, up to four Cat 5e data connections, and up to eight video connections

PRE-CONFIGURED COMPACT STRUCTURED MEDIA PANELS - COMPACT WIDTH (6")

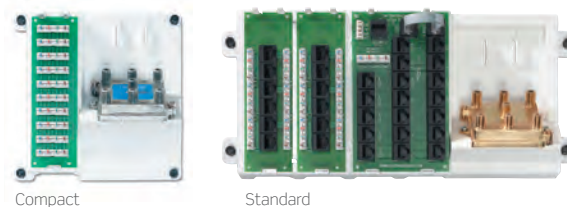
DESCRIPTION	PART NO.
1x9 Bridged Telephone and 4-way 1 GHz TV Splitter	47603-1G4
[D] 1x9 Bridged Telephone and 6-way 1 GHz TV Splitter	47603-1G6
1x9 Bridged Telephone and 8-way 1 GHz TV Splitter	47603-1G8
[E] 1x4 Bridged Telephone, 4 Data, and 6-way 1 GHz TV Splitter	47603-DP6
1x7 Bridged Telephone, Security Interface, and 6-way 1 GHz TV Splitter	47603-TSV

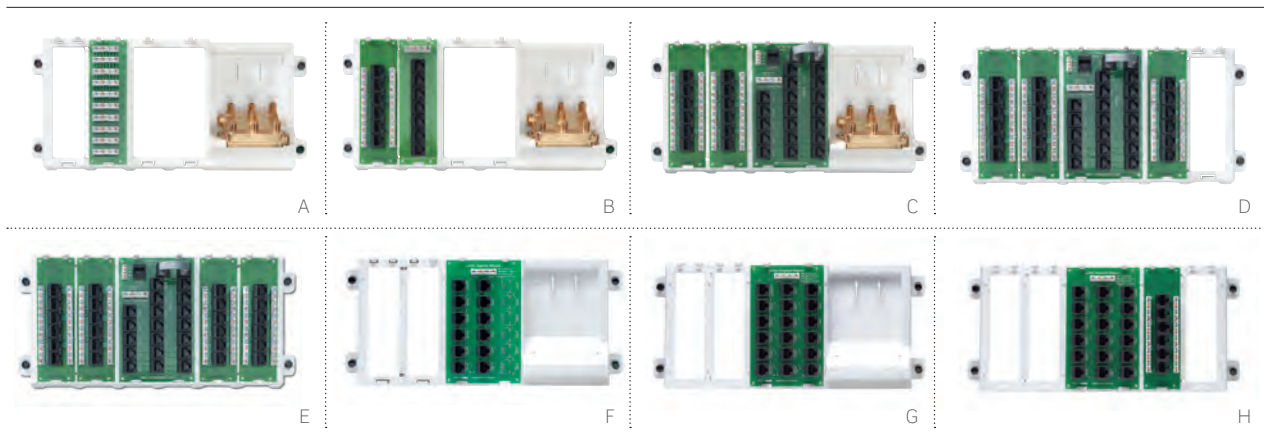
SPOTLIGHT

Compact vs. Standard Structured Media Panels

Compact Structured Media Panels' space-saving profile is half the size of standard panels, and is ideal when space and budget is a primary concern.

Standard Structured Media Panels combine multiple modules into a simple distribution point, and provide greater versatility when it comes time for customization or expanding.



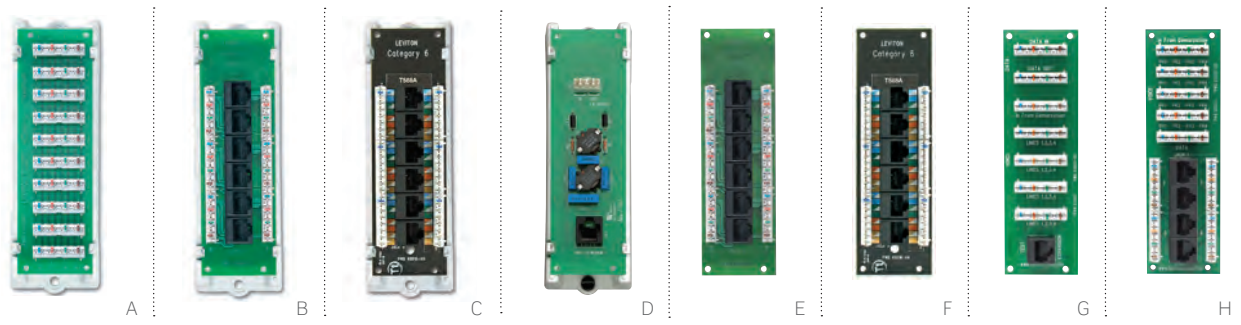


PRE-CONFIGURED STANDARD STRUCTURED MEDIA PANELS

- Standard series (12" width) pre-configured panels combine voice, data, and TV modules into a single, simple distribution point
- Several pre-configured options are available with room for customization with additional expansion boards

PRE-CONFIGURED STANDARD STRUCTURED MEDIA PANELS		
DESCRIPTION	FEATURES	PART NO.
[A] Basic Telephone & Video Panel	- One 1x9 Bridged Telephone Board - One 6-way 2 GHz TV Splitter	47606-BTV
[B] Basic Home Networking Plus Panel	- One Telephone Patching Board - One Cat 5e Voice & Data Board - Six 4-line telephone connections - One 6-way 2 GHz TV Splitter	47606-BNP
Advanced Home Telephone & Video Panel	- One Telephone Line Distribution Board - 19 multi-line telephone connections (in various combinations of two or four lines) - One Cat 5e Voice & Data Board - One 6-way 2 GHz TV Splitter	47606-AHT
[C] Advanced Home Office Panel	- One Telephone Line Distribution Board - 19 multi-line telephone connections (in various combinations of two or four lines) - Two Cat 5e Voice & Data Boards - One 6-way 2 GHz TV Splitter	47606-ASO
12-Port Structured Media Panel	- One Telephone Line Distribution Board - 19 multi-line telephone connections (in various combinations of two or four lines) - Two Cat 5e Voice & Data Boards	47603-12P
[D] 18-Port Structured Media Panel	- One Telephone Line Distribution Board - 19 multi-line telephone connections (in various combinations of two or four lines) - Three Cat 5e Voice & Data Boards	47603-18P
[E] 24-Port Structured Media Panel	- One Telephone Line Distribution Board - 19 multi-line telephone connections (in various combinations of two or four lines) - Four Cat 5e Voice & Data Boards	47603-24P
[F] 4x12 Telephone Distribution Panel	- One 4x12 Telephone Distribution Board	47603-12M
4x12 Telephone Distribution Panel w/ Splitter	- One 4x12 Telephone Distribution Board - One 8-way 2 GHz TV Splitter	47603-412
[G] 4x18 Telephone Distribution Panel	- One 4x18 Telephone Distribution Board	47603-18M
[H] 4x18 Telephone Distribution Panel w/ Cat 5e Board	- One 4x18 Telephone Distribution Board - One Cat 5e Voice & Data Board	47603-8C1

MDU & HOSPITALITY | Modules & Expansion Boards



MODULES		
DESCRIPTION		PART NO.
[A]	1x9 Bridged Telephone Module	47689-00B
[B]	Cat 5e Voice & Data Module	47605-C5B
[C]	Cat 6 Voice & Data Module	47611-C6B
[D]	DSL Filter Module	47616-DSF
	Telephone Security Module	47609-TSV

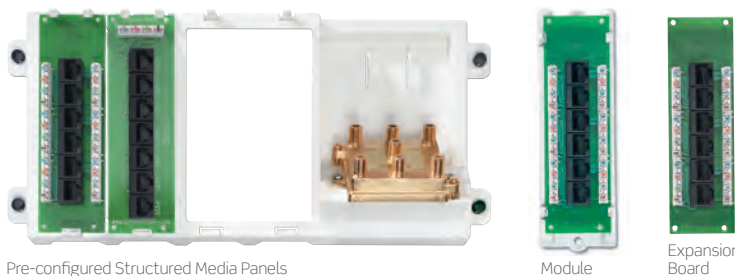
EXPANSION BOARDS				
DESCRIPTION	APPLICATION	FEATURES	PART NO.	
[E]	Cat 5e Voice and Data Board	Data, Telephone, Fax, Modem	<ul style="list-style-type: none"> - Patch phone or data connections to six locations - Combine with a TLDM, key system, or network switches - 4-pair 110-type IDC punchdowns - Six Cat 5e RJ-45 ports - Printed circuit board 	47603-0C5
[F]	Cat 6 Voice and Data Board	Data, Telephone, Fax, Modem	<ul style="list-style-type: none"> - TIA-568-C channel-rated for gigabit Ethernet - Combine with gigabit Internet router or Ethernet switch - 4-pair 110-type IDC punchdowns and six Cat 6 connectors 	47611-0C6
[G]	VDSL Board w/ 1x5 Bridged Phone w/ Data Passthrough IDCs	Data, Telephone, Modem	<ul style="list-style-type: none"> - Bridge up to four telephone lines to five locations - Connect up to five separate telephones per line - IDC connectors for Cat 5 or Cat 5e wire - Termination point and pass-through for a data connection via IDCs up to 150 MHz 	47609-D5P
[H]	Combo Phone & Data Board w/ 1x4 Bridged Phone and 4-Port Cat 5e	Data, Telephone	<ul style="list-style-type: none"> - Provides data and phone connections on a single board - 1x4 phone portion provides four telephone lines to up to four locations via IDC punchdowns - Four ports of Cat 5e 150 MHz data connections via modular RJ-45 connectors and 4-pair 110-type IDC punchdowns 	47609-4DP

SPOTLIGHT Panels, Modules, Boards: What's the difference?

Pre-configured Structured Media® Panels include multiple expansion boards combining voice, data, and TV boards into a single distribution point.

Modules include an expansion board on a single ABS mounting bracket.

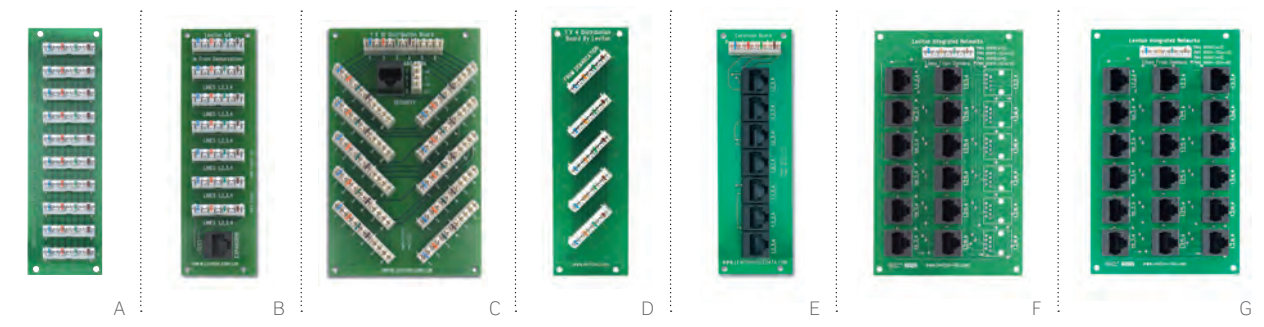
Expansion Boards mount in Structured Media Panels or Mounting Brackets (see page H13).



Pre-configured Structured Media Panels

Module

Expansion Board



EXPANSION BOARDS (CONTINUED)			
DESCRIPTION	APPLICATION	FEATURES	PART NO.
[A] 1x9 Bridged Telephone Board	Telephone, Fax, Modem	<ul style="list-style-type: none"> - Bridge up to four telephone lines to nine locations - Connect up to nine separate telephones per line - Printed circuit board - 4-pair 110-type IDC punchdowns 	47603-110
[B] 1x6 Bridged Telephone Board	Telephone, Fax, Modem	<ul style="list-style-type: none"> - Bridge up to four telephone lines to six locations - Connect up to six separate telephones per line - Printed circuit board - IDC connectors for Cat 5 or Cat 5e wire - RJ-45 expansion port 	47609-0F6
[C] 1x10 Bridged Telephone Board	Telephone, Fax, Modem	<ul style="list-style-type: none"> - Bridge up to six telephone lines to 10 locations - Connect up to 10 separate telephones per line - Printed circuit board - IDC connectors for Cat 5 or Cat 5e wire - Security port - Punchdown security interface to accommodate alarm systems 	47609-S10
[D] 1x4 Bridged Telephone Board	Telephone, Fax, Modem	<ul style="list-style-type: none"> - Bridge up to four lines to four locations via IDC punchdowns 	47609-004
[E] Telephone Patching Board/ Expanded 4-line Telephone Distribution	Telephone, Fax, Modem	<ul style="list-style-type: none"> - Bridge up to four telephone lines to seven locations - Printed circuit board module - One incoming 4-pair 110-type IDC punchdown - Seven outgoing RJ-45 connector connections - Combine with a Cat 5e board to route telephone to remote locations 	47609-EMP
DSL Filter Board	Telephone, Modem	<ul style="list-style-type: none"> - Filters DSL signal from phone line before distribution throughout home or office - Eliminates need for individual filters at wallplate - Use with any phone distribution module - Printed circuit board module w/ RJ-45 connector and 110-type punchdown 	47616-DSF
Telephone Line Distribution Board	Telephone, Fax, Modem	<ul style="list-style-type: none"> - 19 multi-line telephone connections in combinations of two or four lines - Bridge "line 1" service to 12 locations and four-line service to eight locations - Connect to Cat 5e Voice & Data Board(s) or additional panels for more connections and easier moves/adds/changes - Independent RJ-45 connector and punchdown security interface to accommodate alarm systems 	47603-TDM
[F] 4x12 Telephone Distribution Board	Telephone, Fax	<ul style="list-style-type: none"> - Bridge up to four telephone lines to 12 locations 	47603-12B
[G] 4x18 Telephone Distribution Board	Telephone, Fax	<ul style="list-style-type: none"> - Bridge up to four telephone lines to 18 locations 	47603-18B



PREMIUM AMPLIFIED CATV/HDTV MODULE

- Split and/or amplify signal to 1, 8, or 16 TVs throughout the home
- Bi-directional circuitry supports advanced interactive applications, as well as standard TV and video inputs
- Forward path internal amplifier provides equal input and output level on all ports; reverse path is not affected
- Unity gain eliminates the need to manually adjust attenuation
- HDTV and digital cable ready, SCTE- and DOCSIS-compliant

3X1 PASSIVE COMBINER MODULE

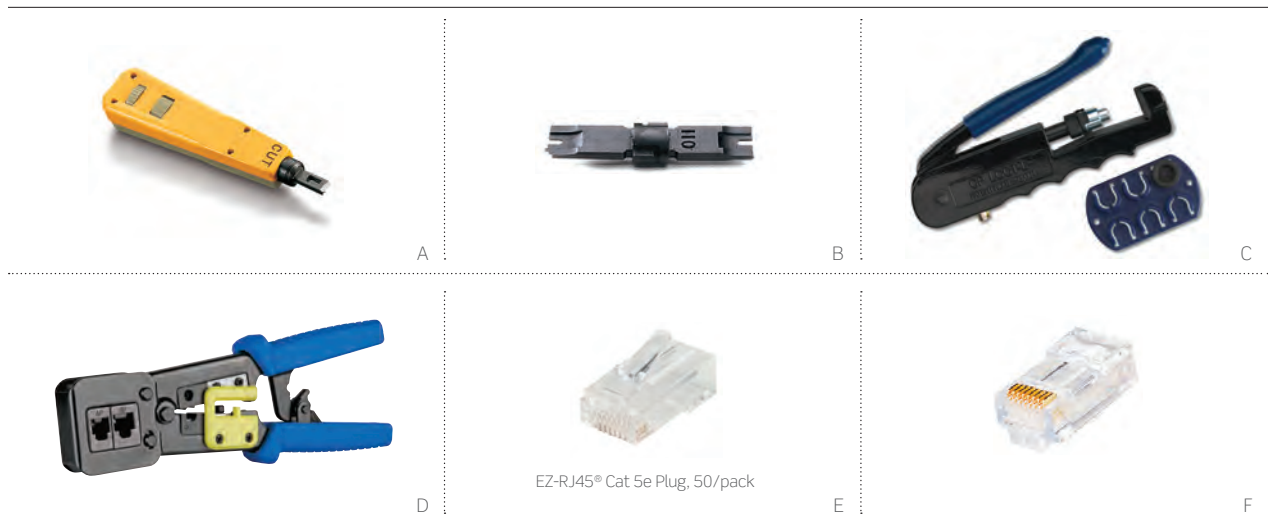
- Digital CATV compatible
- Provides bi-directional signal path to support cable modem or digital cable communications
- F-ports provide up to 15 psi weather sealing

PASSIVE CATV/HDTV SPLITTERS

- Split signal to 4, 6, or 8 TVs throughout the home
- Provide digital cable, cable TV, and other TV services via coaxial cable
- Lightweight, strong die-cast housing
- HDTV and digital cable ready SCTE-compliant
- Available with and without Structured Media® Enclosure mounting bracket

Additional video and home theater solutions located in Section C.

PREMIUM MODULES		
DESCRIPTION	1 GHZ	
[A] 1x1 Premium Video Module	47693-01P	
[B] 1x8 Premium Video Module	47693-08P	
[C] 1x16 Premium Video Module	47693-16P	
[D] 3x1 Passive Combiner	47693-31P	
PASSIVE SPLITTERS W/ MOUNTING BRACKET		
DESCRIPTION	1 GHZ	2 GHZ
[E] 1x4 Passive Video Splitter w/ bracket for 14", 21", 28", and 42" Structured Media Enclosures	47690-04C	47690-4C2
[F] 1x6 Passive Video Splitter w/ bracket for 14", 21", 28", and 42" Structured Media Enclosures	47690-06C	47690-6C2
[G] 1x8 Passive Video Splitter w/ bracket for 14", 21", 28", and 42" Structured Media Enclosures	47690-08C	47690-8C2
PASSIVE SPLITTERS		
DESCRIPTION	1 GHZ	2 GHZ
[H] 1x4 Passive Video Splitter	47690-004	47690-0G4
[I] 1x6 Passive Video Splitter	47690-006	47690-0G6
[J] 1x8 Passive Video Splitter	47690-008	47690-0G8



RESIDENTIAL TOOLS	
DESCRIPTION	PART NO.
[A] Wire Punchdown / Termination Tool, (blades sold separately)	49553-814
[B] 110 IDC Blade	49553-110
66-Clip Blade	49553-066
BIX® Blade	49553-BIX
Krone® Blade	49553-KRN
Awl (woodscrew starter punch)	49553-AWL
[C] Master Compression Tool	40989-CPT
UTP Stripping Tool	49660-00P
Coaxial Stripping Tool	C5914-000
[D] EZ-RJ45 Crimp Tool	40989-ACT

RESIDENTIAL ACCESSORIES	
DESCRIPTION	PART NO.
[E] EZ-RJ45® Cat 5e Plug, 50/pack	47613-EZC
EZ-RJ45 Cat 5e Plug Display Pack, 10/pack	47613-EZR
[F] EZ-RJ45 Cat 6 Plug	47613-EZ6
Push-Lock Pins for Structured Media Enclosures, 20/pack	47615-NYL
Reclosable Tie-Wrap, 5" Length, 25/pack	43105-005



SECTION

X

TECHNICAL INFORMATION

SECTION X CONTENTS

GENERAL INFORMATION	X3	Web-Based Resources
	X4	Wiring Standards
	X5	Wire Color Codes & Pin Designations
	X6	USOC Codes
TERMINATION INSTRUCTIONS	X7	Copper Connector Termination
	X10	Fiber Connector Termination
	X12	Fan-Out Kit Assembly
SPLICE TRAYS	X13	Dimension & Selection Guide
STANDARDS	X14	NEMA and IEC Classifications
	X14	Wallplate Materials
	X15	Applications
INDEX	X16	Term Index
	X22	Part Number Index

TECHNICAL RESOURCES YOU'LL FIND AT **LEVITON.COM**

To find product information, simply type the product name or part number into the search tool at Leviton.com. You can also find extra technical assistance using the links below, including guides, drawings, videos, and more.



1. KNOWLEDGEBASE & FORUMS

communities.Leviton.com

At Leviton's Knowledgebase, you can get answers to your technical questions or post your own inquiries. You'll find a unique community hub for Network Solutions as well as Leviton's other business units.

2. TRAINING VIDEOS

Leviton.com/ns/videos & youtube.com/LevitonMfg

Leviton training videos and animations offer simple step-by-step instructions for installations and terminations.

3. BIM OBJECTS

Leviton.com/bim

Building Information Modeling (BIM) is an important program for design and project coordination in construction projects. Incorporate Leviton images and added intelligence into infrastructure design drawings with our library of free BIM objects.

4. VISIO® STENCILS

Leviton.com/visio

Download Microsoft® Visio stencils of Leviton products, including connectors and wallplates, copper and fiber components, residential/MDU products, and cable management solutions.

5. MANUALS & GUIDES

Leviton.com/ns/techlibrary

Here you'll find helpful material, such as the Patch Panel Selection Guide and popular Cat 6A Reference Guide, as well as installation manuals for Connected Home products.

6. NETWORK PLANNING TOOLS

Leviton.com/homeconfig & Leviton.com/smallbiztool

Fill out a simple online questionnaire and our technical experts will quickly identify the products that meet the needs of your home or small business network.

7. MDU INSTALLATION DIAGRAMS

Leviton.com/connectedhome

Find helpful wiring diagrams for multi-room audio and home theater MDU projects.

8. APPLICATION/TECH NOTES

Leviton.com/ns/techlibrary

Application notes provide extra instruction for using and installing products such as copper trunk cables, Fiber Raceway System, and 66 connecting blocks. Tech notes offer a deeper look into the unique technology behind many of our products.

9. INDEPENDENT TESTING INFORMATION

Leviton.com/ns/testresults

Find independent test results for Leviton products, including Cat 6A component performance, pre-terminated OM3 MTP® System performance, and channel performance of Leviton connectivity paired with qualified cables.

10. LITERATURE LIBRARY

Leviton.com/ns/litlibrary

Refer to our Lit Library for additional systems and product information, including brochures, case studies, line cards, spec sheets, and an electronic version of this catalog.

11. SPEC TOOLS

Leviton.com/specteam

Download spec tools for use in bids, design plans, and specification documents at the Spec Team web page, including sample bid spec forms and RFP documents.

12. CUSTOMIZED PRODUCT SOLUTIONS

Leviton.com/configurator

Configure enclosures, MTP cassettes, and fiber and copper cable assemblies through Leviton's Make-to-Order program.

13. LIVE CHAT

Leviton.com/support

Get fast, easy help when you need it. Connect with Leviton's technical experts for a quick response and knowledgeable answers to your product and application questions.

14. EZ-LEARN™

Leviton.com/ezlearn

Acquire the skills and abilities you need to compete in today's dynamic and ever-evolving electrical industry.

















T568A OR T568B - WHICH ONE SHOULD YOU CHOOSE?

- If the installation is residential, choose T568A unless other conditions apply (see below).
- If there is pre-existing voice/data wiring (remodel, moves, adds, changes), duplicate the existing wiring scheme on any new connection.
- If project specifications are available, use the specified wiring configuration.
- If components used within the project are internally wired either T568A or T568B, duplicate this wiring scheme. Leviton residential applications use T568A in all of their circuit boards.

STANDARDS

- TIA-568-C “Commercial Building Telecommunications Cabling Standard” lists both wiring configurations. T568B is the most prevalent for commercial installations.
- TIA-570-B “Residential Telecommunications Cabling Standards” recommends T568A.

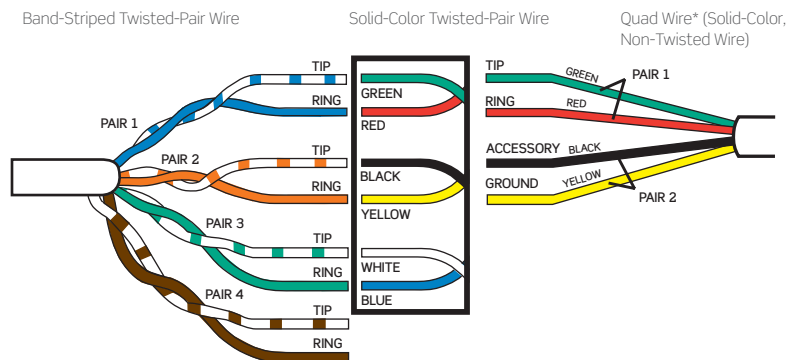
T568A & T568B WIRING STANDARDS IDC COLOR ASSIGNMENTS

JACK PIN #	T568A WIRE COLORS	JACK PIN #	T568B WIRE COLORS
1	White/Green 	1	White/Orange 
2	Green 	2	Orange 
3	White/Orange 	3	White/Green 
4	Blue 	4	Blue 
5	White/Blue 	5	White/Blue 
6	Orange 	6	Green 
7	White/Brown 	7	White/Brown 
8	Brown 	8	Brown 

For some cables, wires for jack pin numbers 2, 4, 6, and 8 may have a white stripe. This is equivalent to cables with solid wires for the same pin numbers.

WIRING POTS (PLAIN OLD TELEPHONE SERVICE) WIRE TO CATEGORY-RATED WIRE

STANDARD 4-PAIR WIRING	
Pair 1	Tip - White/Blue Ring - Blue
Pair 2	Tip - White/Orange Ring - Orange
Pair 3	Tip - White/Green Ring - Green
Pair 4	Tip - White/Brown Ring - Brown



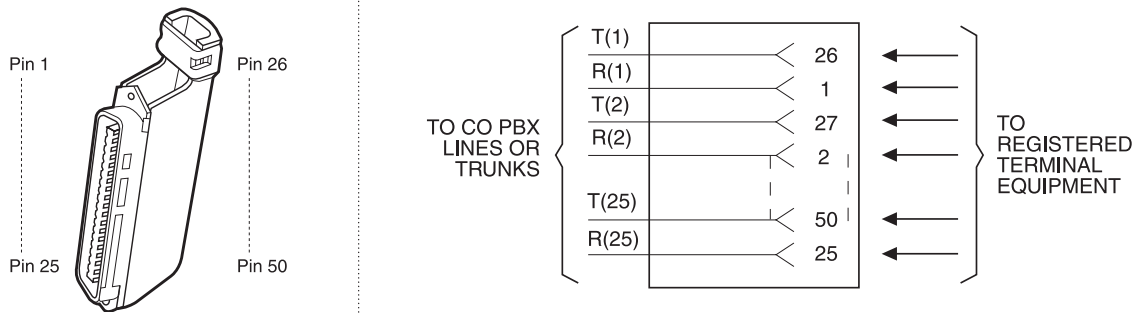
For 6-wire jacks use pair 1, 2, & 3 color codes. For 4-wire jacks use pair 1 & 2 color codes.

For some cables, wire for even jack pin numbers may have a white stripe. This is equivalent to cables with solid wires for the same pin numbers.

***Caution:** Quad wire is no longer acceptable for installation in multi-line environments. If encountered during a retrofit, quad wire should be replaced with 100 ohm UTP. Connecting new quad to installed quad will only amplify existing problems and limitations associated with quad wire; leaving existing quad in place and connecting 100 ohm UTP to it may also be ineffective, as the quad wire may negate the desired effect of the UTP.

Visit Leviton.com/ns/support for more wiring diagrams and technical information.

TECHNICAL INFORMATION | Wire Color Codes & Connector Pin Designations



WIRE COLOR CODES & PIN DESIGNATIONS

Electrical Network Connection

From 1 to 25 single or multiple-pair circuits bridged to the network or other connected equipment.

Mechanical Arrangement

Circuits are provided on numbered tip and ring positions on a miniature 50-pin ribbon telco connector (Amphenol™-type). Pins 1 (ring) and 26 (tip) are considered position 1. Pins 2 (ring) and 27 (tip) of the ribbon connector are position 2. This pairing continues through 25 pairs.

Typical Usage

Many key and PBX systems specify the RJ-21X, or "Amphenol-type" as the network interface device. Many of these systems also use the RJ-21X as a connector for stations or telephone sets, wired from the KSU or PBX main distribution frame.

Many Leviton connectors can be used for the RJ-21X configuration where "intermixing" is permitted. Substitution of these special connectors is often both economical and practical. Contact Network Solutions tech support for information about versions to meet your requirements.

Sometimes an RJ-11 or RJ-14C can be installed in place of an RJ-21X. While many smaller systems that require only a few lines may show the RJ-21X as the "official" connector required under registration, less complex connectors such as the RJ-11 or RJ-14C can often be specified (perhaps in multiples). If the system requires only a few lines but the RJ-21X is specified on the registration label, under FCC Part 68 you may specify the RJ-11C, RJ-14C, RJ-25C, or RJ-61X instead.

Wire Color	1 R	T 26	Wire Color
Blue/White	1 R	T 26	White/Blue
Orange/White	2 R	T 27	White/Orange
Green/White	3 R	T 28	White/Green
Brown/White	4 R	T 29	White/Brown
Slate/White	5 R	T 30	White/Slate
Blue/Red	6 R	T 31	Red/Blue
Orange/Red	7 R	T 32	Red/Orange
Green/Red	8 R	T 33	Red/Green
Brown/Red	9 R	T 34	Red/Brown
Slate/Red	10 R	T 35	Red/Slate
Blue/Black	11 R	T 36	Black/Blue
Orange/Black	12 R	T 37	Black/Orange
Green/Black	13 R	T 38	Black/Green
Brown/Black	14 R	T 39	Black/Brown
Slate/Black	15 R	T 40	Black/Slate
Blue/Yellow	16 R	T 41	Yellow/Blue
Orange/Yellow	17 R	T 42	Yellow/Orange
Green/Yellow	18 R	T 43	Yellow/Green
Brown/Yellow	19 R	T 44	Yellow/Brown
Slate/Yellow	20 R	T 45	Yellow/Slate
Blue/Violet	21 R	T 46	Violet/Blue
Orange/Violet	22 R	T 47	Violet/Orange
Green/Violet	23 R	T 48	Violet/Green
Brown/Violet	24 R	T 49	Violet/Brown
Slate/Violet	25 R	T 50	Violet/Slate
Not Used			

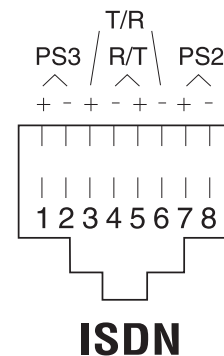
25-Pair Color Coding/ISDN Contact Assignment RJ-21X

CONTACT ASSIGNMENTS FOR PLUGS AND JACKS

(ISDN Assignment of Contact Numbers as Specified by ISO Document 8877: 1987 (E))

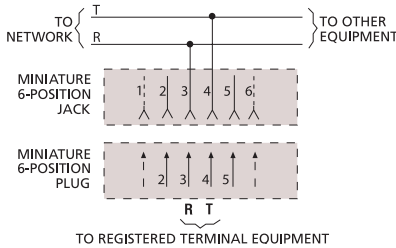
CONTACT NUMBER	TE	NT	POLARITY
1	Power source 3	Power sink 3	+
2	Power source 3	Power sink 3	-
3	Transmit	Receive	+
4	Receive	Transmit	-
5	Receive	Transmit	+
6	Transmit	Receive	-
7	Power sink 2	Power source 2	+
8	Power sink 2	Power source 2	-

For use in TE to TE interconnections, power source/sink 3 shall conform to the requirements specified in CCITT recommendation 1.430, section 9.2 for power source/sink 2.

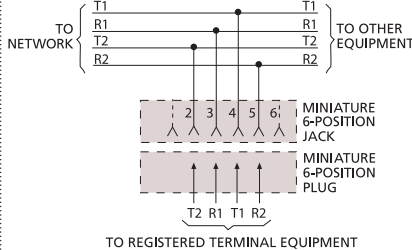


Visit Leviton.com/ns/support for a detailed port-pin configuration chart.

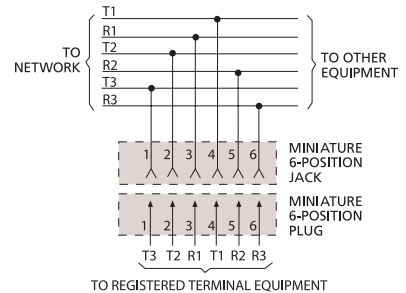
RJ-11C/RJ-11W - 6P2C



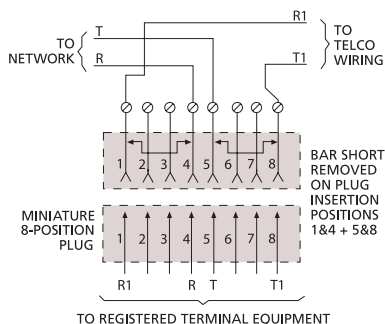
RJ-14C/RJ-14W - 6P4C



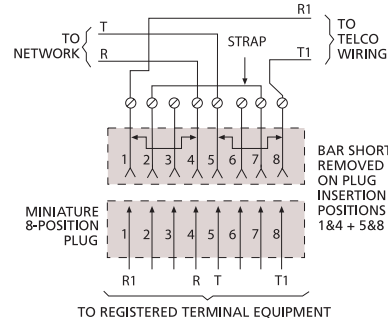
RJ-25C - 6P6C



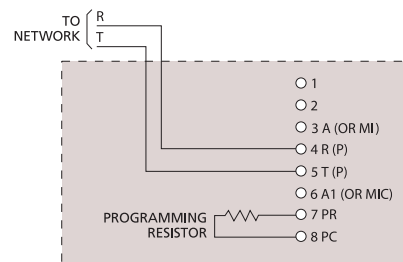
RJ-31X



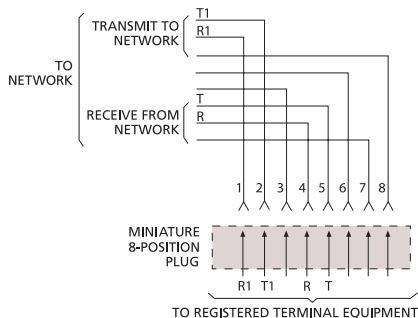
RJ-38X



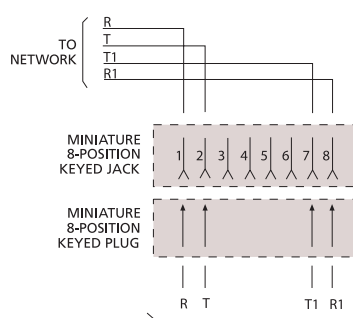
RJ-45S



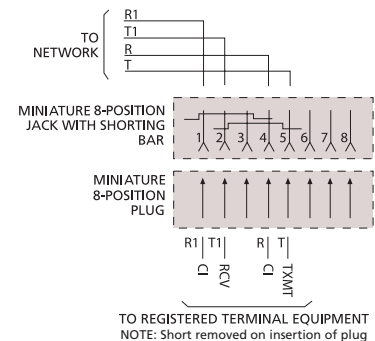
RJ-48C



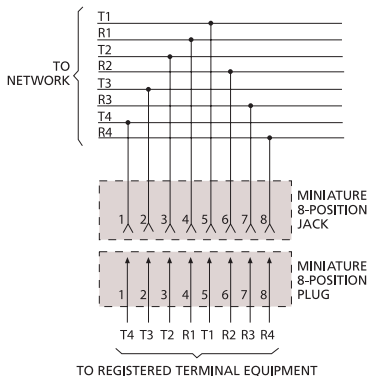
RJ-48S



RJ-48X



RJ-61X



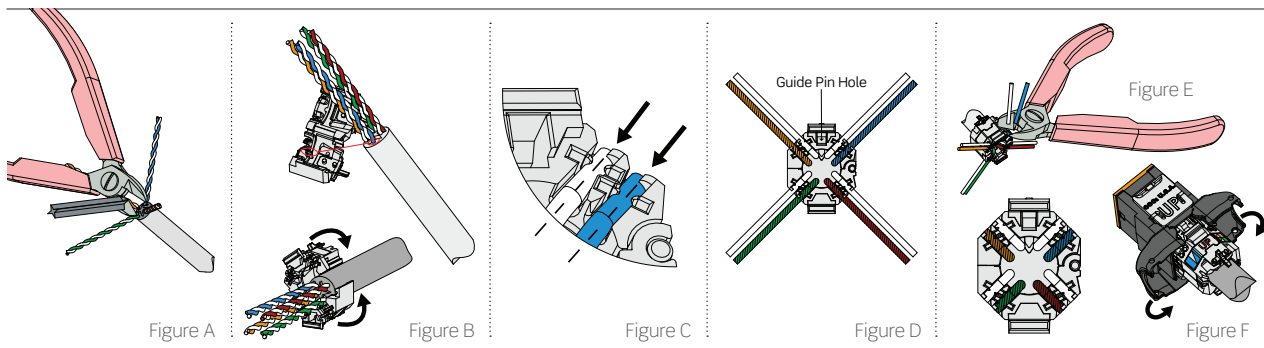
USOC CODES

These Universal Service Order Codes (USOC) for connecting telephone instruments and related equipment to telephone lines are based on Part 68, Subpart F, Section 68.502 of FCC regulations, and as described by the T1E1.3 Working Group on Connectors and Wiring Arrangements.

USOC codes were developed years ago by the Bell operating companies to identify service or equipment under tariff. Information on USOC codes is provided here should you run across these in your work.

Registered RJ Jack numbers end with a letter that indicates the wiring or mounting method. "C" identifies a surface or flush-mounted jack, "W" identifies a wall-mounted jack, "X" identifies a complex multi-line or series-type jack, and "S" identifies a single-line jack.

TERMINATION INSTRUCTIONS | Cat 6A/6/5e UTP Connectors



ATLAS-X1™ UTP CONNECTOR TERMINATION INSTRUCTIONS

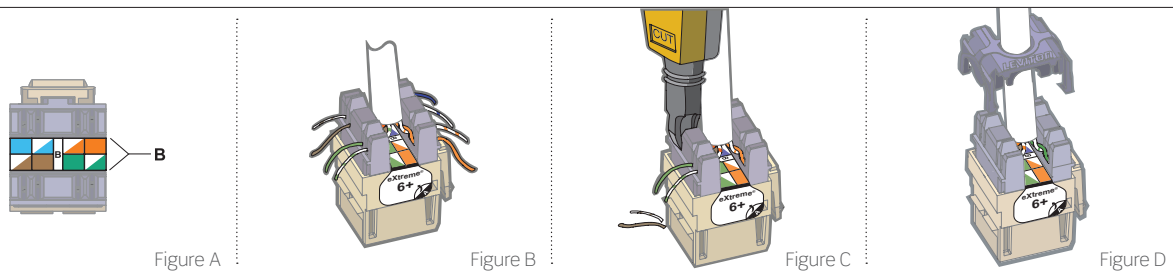
- Using a cable stripper, remove 1.5 inches of cable jacket. At the strip point of the cable, use flush cutters to carefully remove strip string, mylar tape, cross-shaped pair separator, or any other cable fillers/spacers, where applicable. (Figure A)
- Line up the wire manager with the blue pair indication on the label in line with the blue pair of the cable. Ensure that the end of the cable jacket is at the cable jacket stop inside the wire manager, and click the wire manager closed (Figure B).
- Observing pair polarity and T568A or T568B wiring pattern, seat the four pairs into the wire manager. Note: Pairs must be completely and securely seated into wire manager wire channels (Figure C).
- Check polarity by making sure the "white wire" of each pair will be closest to the guide pinhole in the face of the wire managers (Figure D).
- Using a flush cutter, trim all pairs flush with sides of wire manager. Note: Wire ends must be cut flush: use of snips or side cutter is not recommended and may cause test failures (Figure E)
- Align the prepared wire manager with the rear of the connector, matching "UP" on the wiring label to "UP" molded into the connector retaining tab (Figure F). Close connector doors to complete the termination. To rewire, depress the connector door-release tabs simultaneously.

T568A & T568B WIRING STANDARDS IDC COLOR ASSIGNMENTS

JACK PIN #	T568A WIRE COLORS	T568B WIRE COLORS
1	White/Green	White/Orange
2	Green	Orange
3	White/Orange	White/Green
4	Blue	Blue
5	White/Blue	White/Blue
6	Orange	Green
7	White/Brown	White/Brown
8	Brown	Brown

To help determine whether to use T568A or T568B, see page X4.

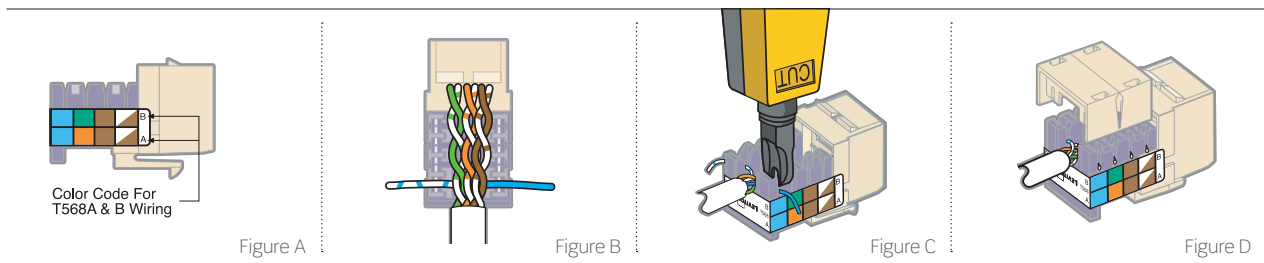
Note: Icons may be removed from the front of the connector by inserting the end of a paper clip into the icon release hole and gently prying outward



EXTREME CAT 6A/6/5E CONNECTOR TERMINATION INSTRUCTIONS

- Remove about 3" of cable jacket and center spline (stiff "t" shaped plastic separator inside cable).
- Determine which wiring scheme to use, T568A or T568B. (See chart on page X4.) Note the associated color codes and connector pin numbers on the label located between the IDC connector slots (Figure A). Peel back label for T568A wiring.
- Leave the cable jacket within 1/8" of the connector side, then route the wires for termination using the selected wiring scheme (Figure B). **Route cable perpendicular to the IDC field. Ensure there is enough slack in the twisted pairs, and do not place the cable jacket into the termination field.**
- Use your fingers to carefully seat the wires into the IDC slots. Set a 110-style impact tool to low impact and position it perpendicular to the connector. **Maintain wire-pair twisting to within less than 1/2" of the IDC contact;** then, seat and trim the cable one pair at a time to prevent crushing the inside pairs (Figure C).
- Place the dust cap over the terminated wires for secure connection (Figure D).

TERMINATION INSTRUCTIONS | Cat 5e UTP & Cat 6A/6/5e Shielded Connectors



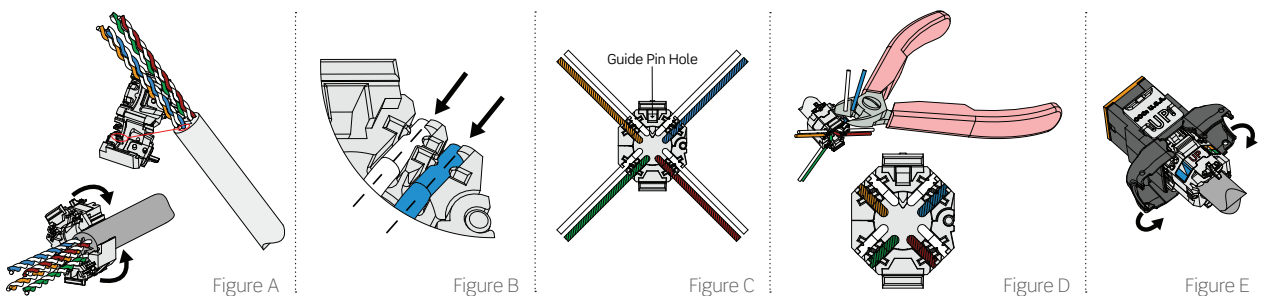
GIGAMAX® CAT 5E CONNECTOR TERMINATION INSTRUCTIONS

1. Remove about 3" of jacket from the cable to expose the wires.
2. Determine which wiring scheme to use, T568A or T568B (see chart on page X4). Note the associated color codes and connector pin numbers as labeled on the sides of the connector (Figure A).
3. Route the wires for termination according to the chosen color code. Place the cutting side of the tool on the outside to trim the excess wire flush with the connector body as you punch the wires down (Figure B). Terminate and trim one pair at a time, starting from the rear of the connector (Figure C). Terminating each pair after placement will prevent crushing the inside pairs with the punchdown tool. **Maintain cable jacket as close to termination as possible.**
4. Place the dust cap over the terminated wires to ensure a secure connection and added strain relief (Figure D).
5. Noting the "UP" orientation of the connector, insert the terminated connector into the desired QuickPort® housing.

T568A & T568B WIRING STANDARDS IDC COLOR ASSIGNMENTS

JACK PIN #	T568A WIRE COLORS	T568B WIRE COLORS
1	White/Green	White/Orange
2	Green	Orange
3	White/Orange	White/Green
4	Blue	Blue
5	White/Blue	White/Blue
6	Orange	Green
7	White/Brown	White/Brown
8	Brown	Brown

To help determine whether to use T568A or T568B, see page X4.



ATLAS-X1™ CAT 6A, 6, & 5E SHIELDED CONNECTOR TERMINATION INSTRUCTIONS

1. Using an appropriate cable stripper, remove about 1.5 inches of cable jacket. Inspect shield foil and pairs to ensure no foil or insulation damage.
2. At the strip point of the cable, use flush cutters to carefully remove strip string, if one is present. Spare back the foil metal side outward. Spare back the drain wire. Use flush cutters to remove mylar tape, cross-shaped pair separator, or any other cable fillers/spacers.
3. Line up the wire manager with the blue pair indication on the label in line with the blue pair of the cable. Ensure that the end of the cable jacket is at the cable jacket stop inside the wire manager, and click the wire manager closed. (Figure A)
4. Observing pair polarity and T568A or T568B wiring pattern, seat the four pairs into the wire manager. Note: Pairs must be completely and securely seated into wire manager wire channels. (Figure B)
5. Check polarity by making sure the "white wire" of each pair will be closest to the guide pinhole in the face of the wire managers. (Figure C)
6. Using a flush cutter, trim all pairs flush with sides of wire manager. Note: Wire ends must be cut flush: use of snips or side cutter is not recommended and may cause test failures. (Figure D)
7. Pull drain wire into drain wire capture notch and trim flush with flush cutter. Use flush cutter to nick edge of foil, and tear foil off flush with rear of wire manager.
8. Align the prepared wire manager with the rear of the connector, matching "UP" on the wiring label to "UP" molded into the connector retaining tab (Figure E). Close connector doors to complete the termination. To rewire, depress the connector door-release tabs simultaneously.

For T568A & T568B Wiring Standards IDC Color Assignments, see the Atlas-X1 UTP Terminations Instructions on page X7.

TERMINATION INSTRUCTIONS | FastCAM® Fiber Connector Termination

FASTCAM SC, ST, & LC TERMINATION INSTRUCTIONS

These instructions should not be used with previous versions of the FastCAM SC, ST, and LC connectors, which are only used to terminate 250 µm and 900 µm fiber. (The SAN number on packaging will start with "OXX.")

Before beginning termination, identify the components of your connector tool kit. (See page B69 and B70 for options.) To ensure the FastCAM connector is prepared for termination, remove and reinstall the wedge clip and then press down on the clip at the ferrule side (first click) and then press down on the fiber insertion side (second click). See our install video at Leviton.com/ns/videos.

FIBER TERMINATION – 250 µm

Tools required: LYNX or CT30A Cleaver* and a fiber stripper. (See pg. B71)

1. Slide the protective tubing, 900 µm boot, and 250 µm protective tube (in order) onto the fiber.
2. Strip the fiber to a length of 40 mm by removing 10 mm at a time.
3. Clean the stripped fiber with an alcohol wipe to remove any debris. Check the fiber integrity by bending the stripped end slightly to 60°.
4. Set fiber onto cleaver such that 250 µm coating edge is at 10.5 mm position and cleave.
5. Wedge clips are engaged at shipment. If they have become dislodged, squeeze the top and bottom of the wedge clip, ensuring it is inserted in the connector body. A click will be heard for each wedge.
6. Slide the 250 µm protective tubing towards the end 250 µm coating.
7. Insert the cleaved fiber into the rear of the connector until the connection is made. Make a slight bend in the fiber to maintain connection.
8. OPTIONAL: Use the Visual Fault Locator (VFL) as an aid to determine that the cleaved fiber and stubbed fiber are connected properly.
- 8A. Remove the FastCAM connector dust cap and insert the connector into the VFL. Turn the VFL power on and there will be a red glow in Position 1 of the wedge clip.
- 8B. Insert the cleaved fiber into the rear of the connector until the red glow dims in Position 1 of the wedge clip. Make a bend in the fiber to maintain connection.
9. Maintaining a slight force on the fiber, release the wedge clip by squeezing both sides until the wedge clip dislocates itself from the connector body. Remove the wedge clip. If using a VFL, remove it from the connector and place the dust cap back onto the connector's ferrule.
10. Slide the boot up and over the rear of the connector body. Slide the clear 900 µm protective tubing - over the black 250 µm protective tubing - to the back of the connector's boot.
11. For ST connectors, push ST housing over body of connector to complete assembly.

FIBER TERMINATION – 900 µm

When using a 900 µm Fan-out/Break-out kit to unjacketed 250 µm fiber, follow the manufacturer's instructions. After the kit is installed, use the following procedures for FastCAM termination.

Tools required: LYNX or CT30A Cleaver* and a fiber stripper. (See pg. B71)

1. Slide the 900 µm boot onto the fiber.
2. Strip the fiber to a length of 40 mm by removing 10 mm at a time.
3. From the end of the 900 µm buffered fiber, place a mark at 15.5 mm for SC/ST or at 11.5 mm for LC.
4. Clean the stripped fiber with an alcohol wipe to remove any debris. Check the fiber integrity by bending the stripped end slightly to 60°.
5. Set the stripped fiber onto the cleaver such that the 900 µm buffered fiber's edge is at the 10.5 mm position and cleave.
6. Wedge clips are engaged at shipment. If they have become dislodged, squeeze the top and bottom of the wedge clip, ensuring it is inserted in the connector body. A click will be heard for each wedge.

7. Insert the cleaved fiber into the rear of the connector until the connection is made and the mark is inside the connector. Make a slight bend in the fiber to maintain connection.
 8. OPTIONAL: Use the Visual Fault Locator (VFL) as an aid to determine that the cleaved fiber and stubbed fiber are connected properly.
 - 8A. Remove the FastCAM connector dust cap and insert the connector into the VFL. Turn the VFL power on and there will be a red glow in Position 1 of the wedge clip.
 - 8B. Insert the cleaved fiber into the rear of the connector until the red glow dims in Position 1 of the wedge clip. Make a slight bend in the fiber to maintain connection.
 9. Maintaining a slight force on the fiber, release the wedge clip by squeezing both sides until the wedge clip dislocates itself from the connector body. Remove the wedge clip. If using a VFL, remove it from the connector and place the dust cap back onto the connector's ferrule.
- NOTE: The ferrule's dust cap should remain in place until you are ready to insert the connector.
10. Slide the boot up and over the rear of the connector body.
 11. For ST connectors, push ST housing over body of connector to complete assembly.

FIBER TERMINATION – 2 mm and 3 mm

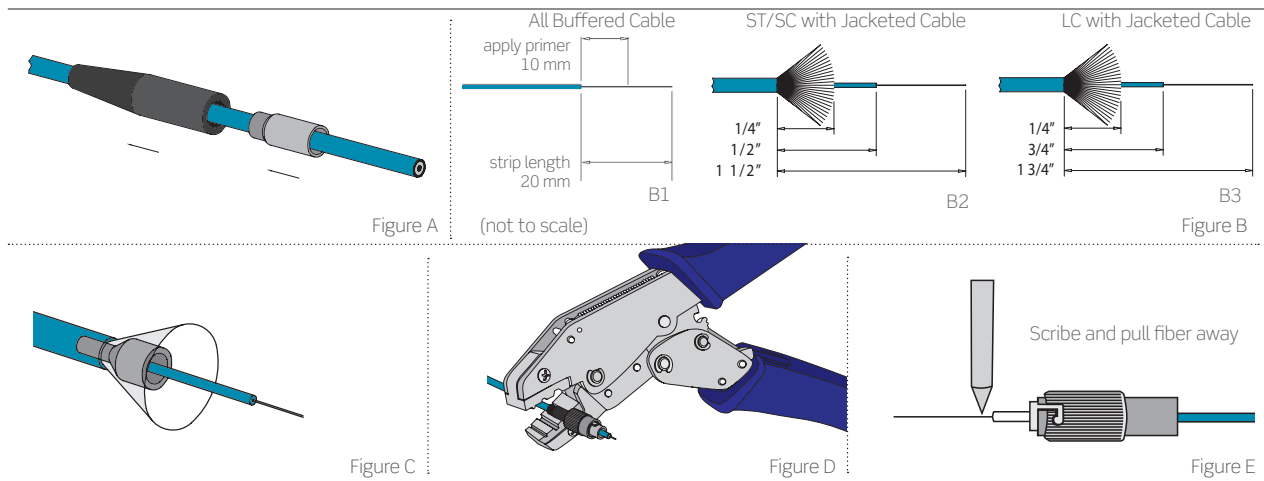
Tools required: LYNX or CT30A Cleaver* and a fiber stripper. (See pg. B71)

1. Slide 2 mm or 3 mm boot onto cable.
2. Remove 70 mm of cable jacket.
3. Strip the fiber to a length of 40 mm by removing 10 mm at a time.
4. From the end of the 900 µm buffered fiber, place a mark at 15.5 mm for SC/ST or a mark at 11.5 mm for LC.
5. Clean the stripped fiber with an alcohol wipe to remove any debris. Check the fiber integrity by bending the stripped end slightly to 60°. Set the stripped fiber onto the cleaver such that the 900 µm buffered fiber's edge is at the 10.5 mm position and cleave.
7. Wedge clips are engaged at shipment. If they have become dislodged, squeeze the top and bottom, ensuring the wedge clip is inserted into the connector body. A click will be heard for each wedge.
8. Insert fiber slowly into the connector until connection is made and marking is hidden. Form a slight bend in the fiber to maintain connection.
9. OPTIONAL: Use the Visual Fault Locator (VFL) as an aid to determine that the cleaved fiber and stubbed fiber are connected properly.
- 9A. Remove the FastCAM connector dust cap and insert the connector into the VFL. Turn the VFL power on and there will be a red glow in Position 1 of the wedge clip.
- 9B. Insert the cleaved fiber into the rear of the connector until the red glow dims in Position 1 of the wedge clip. Make a bend in the fiber to maintain connection.
10. Maintaining a slight force on the fiber, release the wedge clip by squeezing both sides until the wedge clip dislocates itself from the connector body. Remove wedge clip unit from connector. If using a VFL, remove it from the connector and place the dust cap back onto the connector's ferrule.
11. Fan Kevlar® around connector.
12. Grip Kevlar on both sides of the connector to maintain tension. Screw boot onto back of connector to fix Kevlar firmly.
13. Cut Kevlar from around the connector.
14. For ST connectors, push ST housing over body of connector to complete assembly.

*Other cleavers with a guaranteed maximum 1° cleave angle for single-mode fibers and a maximum 2° cleave angle for multimode fibers provide acceptable results.

For additional tech tips on this product, visit communities.Leviton.com.

TERMINATION INSTRUCTIONS | Fast-Cure® Fiber Connector Termination



FAST-CURE ASSEMBLY INSTRUCTIONS

PREPARE - All Connector Types:

If using 900 μ m buffered fiber, do not use crimp tube in step 1.

- Slide boot and crimp tube onto fiber, small end inserted first. **(Fig. A)**
For 3 mm Jacketed Fiber: Use ribbed boot, provided.
For 900 μ m Buffered Fiber: Use smooth boot, provided.
If using an SC connector on 900 μ m buffered fiber, you must install SC body into housing before continuing to step 2. Align body with connector housing, then insert body into housing until it snaps into place. Use dust cap to push body into housing.
- Strip jacket and/or buffer using the measurements provided in the figure above, stripping in increments of 1/4". If using jacketed cable, trim aramid strands as indicated above. **(Fig. B1-3)**
- Clean exposed fiber with a 99% isopropyl alcohol wipe, followed by a lint-free wipe, both before and after stripping.
- SC & FC Connector on 3 mm Jacketed Fiber ONLY:** Insert spacer over buffer and push until it contacts jacket. **(Fig. C)**

ASSEMBLE - All Connector and Fiber Types:

- Remove the dust cap from the connector.
- Dry fit the fiber by inserting it into the connector. This will ensure that all coating has been removed and the fiber can be inserted into the connector ferrule.
- Shake the adhesive bottle before using. Remove the cap from the adhesive bottle, and attach the needle by pressing it gently onto the top of the bottle until you feel it set into place.

NOTE: Syringes are also available for inserting adhesive.

- Insert the needle and firmly hold it against the back of the connector while filling it. Being careful not to overfill the connector, squeeze the bottle gently, injecting the adhesive into the connector. Continue until a dot of adhesive is visible at the other end, then remove the needle. Wipe away excess adhesive from the end of the ferrule.
- Using the brush attached to the lid on the bottle of primer, apply the primer to the first 10 mm of the exposed fiber. **(Fig. B1)**
- Insert the fiber into the back of the connector. To prevent premature bonding, use continuous motion until the fiber is fully seated in the connector. The primer will activate adhesive and begin the bonding process.

NOTE: The fiber should be inserted within 45 seconds of priming.

- Hold the fiber in place for 10-20 seconds, and allow up to 3 minutes for the adhesive to bond.
- If using any cable type but jacketed fiber, slide the boot back up over the back of the connector now. If using jacketed fiber, follow the steps below.

Additional Steps For 3 mm Jacketed Cable ONLY:

- Arrange the aramid strands evenly around the end of the connector, then slide the crimp tube over the aramid strands and connector. Using a crimp tool, crimp the tube at both the large end (step 1) and the small end (step 2). **(Fig. D)**

ST/SC - large end: Use the .178" hex die.

ST/SC - small end: Use the .151" hex die.

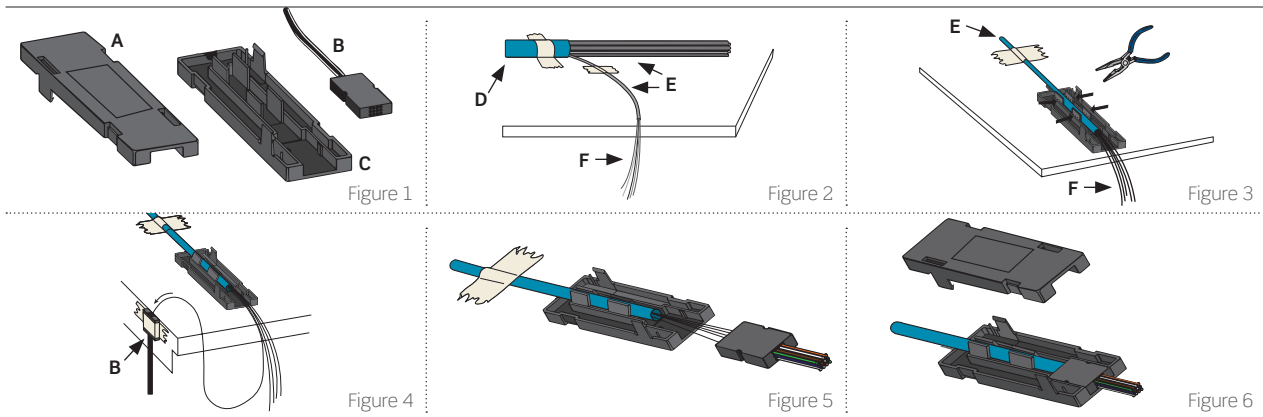
LC: Use the .128" hex die.

CLEAVE AND POLISH - All Connector and Fiber Types:

- When adhesive is cured (no longer wet), scribe fiber where it meets bead of adhesive at end of ferrule. **(Fig. E)**
- Pull fiber away from connector, then properly dispose of fiber debris.
- 12 μ m "AIR POLISH" FOR SM AND MM FIBER - Begin by "Air Polishing" connector with 12 μ m polishing film. Hold edge of film with thumb and forefinger. Gently touch connector to film and rotate using approximately 18-20 one-inch circles to remove fiber stub. Scraping sound of fiber on film will cease when polishing process is complete. 12 μ m film is dark pink in color.
- Holding a lint-free wipe across fingertips, gently press connector's endface against wipe. Twist connector in place to remove any debris. Do not drag connector across the lint-free wipe.
- 3 μ m POLISH FOR SM AND MM FIBER - Wipe the bottom surface of polishing puck and surface of polishing pad with a 99% isopropyl alcohol wipe.
- Place 3 μ m film on polishing pad, dull side up, then carefully set polishing puck on film. Gently insert connector into puck, and using light pressure, trace 15-20 "figure 8s" on film. Test to ensure fiber is completely polished.
- Also check to ensure that fiber is polished flush by dragging gently across lint-free wipe. Fiber should not snag. If fiber snags, continue polishing. Remove any debris using a lint-free wipe.
- Repeat steps 5 and 6 with the .3 μ m film. Leviton's 3 μ m film is yellow and .3 μ m film is light blue in color.

For additional tech tips on this product, visit communities.Leviton.com.

TERMINATION INSTRUCTIONS | Fiber Optic Fan-Out Kit



FIBER OPTIC FAN-OUT KIT ASSEMBLY INSTRUCTIONS

Each kit breaks out 6 or 12 individual 250 μm fibers from a loose buffered multifiber tube into individual 900 μm buffer tubes. The fibers can then be terminated using the Fast-Cure[®] Connector termination procedure for 250 μm fiber.

One fan-out kit is required for each loose buffered multi-fiber tube being terminated. Leviton recommends you read these instructions thoroughly prior to installation of the fan-out kit.

Contents (Figure 1):

- A. Top Cover
- B. 6- or 12-Fiber Terminal Assembly Unit (24" or 36")
- C. Base

Recommended Tools (not included with Fan-Out Kit)

Electrical or Masking Tape
Needle Nose Pliers
Indelible Marker
Buffer Tube Stripper

Also Recommended Consumables (available in Leviton's Consumables Kit PN# 49800-FAN)

Silicone RTV Sealant
Gel Cleaner
Alcohol Pad
Lint-Free Wipes
Talc Powder

Determining Strip Length

Locate your work surface as close to the enclosure location as possible, to minimize strip length. Route the cable sheath through the enclosure to the work surface.

On the cable sheath (D), measure the length of the fan-out tube (B) plus 6-12". Mark this length with a piece of tape - this is the strip point for the fiber cable sheath. (Figure 2)

Cable End Preparation

Following your cable manufacturer's recommended stripping procedures, strip the cable sheath back to the tape mark. Secure the cable to the enclosure, then, using lint-free wipes or a gel cleaner, clean any dirt or gel surrounding the loose buffered multifiber tubes (E). (Figure 2)

NOTE: Quantities of loose buffered multifiber tubes may vary among cable manufacturers.

Loose Buffered Fiber Tube Preparation

Measure the tube back 3" longer than your fan-out tube (B). Mark with an indelible marker, score, and strip, exposing the 250 μm fibers (F) inside the buffer tube. Tape the buffered fiber tube to the work surface roughly 2" from the stripped end. (Figure 2) Wipe all gel from the exposed 250 μm fibers using a gel cleaner.

Place buffered fiber in the base of the fan-out kit. Using needle nose pliers, press both pairs of the crimping fixture to hold the tube. Crimp only enough to start to deform the tube. Twist and pull the fan-out body to check if the crimp is secure. The tube should not slip or move in the crimp fixture. (Figure 3)

NOTE: For added retention, secure with a few drops of silicone RTV sealant on the crimp points of the fixture.

Fiber Threading Procedure

Tape the terminal assembly unit (B) in the vertical position, 75 mm (3") to the side of the loose buffered fiber tube. (Figure 4)

Untangle the fibers and make sure they are completely free of gel filling compound. Leviton recommends using alcohol pads or gel cleaner to remove the gel.

NOTE: To more easily thread the fiber, cup talc powder in your hand and apply to the length of the fibers.

Starting with the blue fiber, thread 150 mm (6") of the fiber into the corresponding color tube of the terminal assembly unit (Figure 4). Repeat this procedure for the remaining fibers, making sure the color-coded fibers match the color-coded 900 μm tubing.

When all the fibers have been threaded, push the fibers as a group until they start to protrude from the end of the 900 μm fan-out tubes. Gently pull the fibers through the tubing, leaving sufficient slack so the fibers are not stressed. DO NOT PULL TAUT.

NOTE: While threading fibers through the 900 μm tubing, gently pull the tubing straight with one hand to remove any coil.

Untape the terminal assembly unit and slide the assembly toward the loose buffered fiber tube while pulling the fibers from the end of the 900 μm tubing. If the fibers twist, rotate the terminal assembly in the opposite direction of the twist. (Figure 5)

Place the terminal assembly unit into the mating feature in the base. For added protection, add a small bead of silicone RTV where the 250 μm fibers enter the terminal assembly, securing the assembly and sealing the water-resistant gel (icky-pick) inside the fiber cable.

Align the top cover and snap into place (Figure 6). Remove the tape from the loose buffered fiber tube and repeat this procedure for any remaining loose buffered multifiber tubes. Once complete, snap the cover in place.

Fiber Enclosure Installation

Hold the fan-out kit and buffered fiber together at the point where the tube enters the fan-out kit. Install terminated connector into respective adapter port. Route 900 μm buffered fiber around cable managers (for slack and storage). Peel tape off adhesive (on bottom of base) and place between the cable managers (or where appropriate). Route loose tube subunit around cable managers (for slack and storage), and secure loose tube cable as required.

For additional tech tips on this product, visit communities.Leviton.com.

SPLICE TRAYS | Dimension & Selection Guide

CHOOSING YOUR SPLICE TRAYS

Leviton offers several styles of metal and injection-molded splice trays. Use this chart to help determine which style will fit your specific needs. See pages B27, B39, and B40 for complete descriptions of splice trays, splice holders, and sleeves.

	Heat Shrink (Plastic Holders)	Heat Shrink (Foam Holders)	Bare Fusion	Opt-X® Ultra/1000i/500i (Rack Mount)	LightSpace® DPC/DPS (Rack Mount)	Opt-X® 1000 (Wall Mount)	LightSpace CPC/CPS (Wall Mount)	NIDS (Wall Mount)
METAL SPLICE TRAY (0.35" HEIGHT)								
12-fiber Mini, 4" W x 7" L	T47HS-P06	—	T47BF-P06	•	•	•	•	
12-fiber Mini, w/ standoff, 4" W x 7" L (0.57" height)	5T000-00T	—	—	•	•	•	•	
12-fiber Standard, 4" W x 11.75" L	T4LHS-P06	T4LHS-F06	T4LBF-P06		•	•	•	
24-fiber High Density, 4" W x 11.75" L	T4LHS-P12	T4LHS-F12	T4LBF-P12		•	•	•	
12-fiber Standard, 5" W x 11.75" L	T5LHS-P06	T5LHS-F06	T5LBF-P06		•	•	•	
24-fiber High Density, 5" W x 11.75" L	T5LHS-B12	T5LHS-F12	T5LBF-P12		•	•	•	
INJECTION-MOLDED SPLICE TRAY (MINI - 0.39" HEIGHT, HIGH DENSITY - 0.56" HEIGHT)								
12-fiber Mini, 3.74" W x 5.59" L	T5PLS-12F	—	—	•		•	•	•
24-fiber High Density, 4.5" W x 7.63" L	T5PLS-24F	—	—	•		•	•	

See fiber enclosure section for splice tray capacity information.

NEMA AND IEC ENCLOSURE CLASSIFICATIONS

NEMA and IEC Enclosure Classifications Comparing NEMA Enclosure Type Numbers and IEC Enclosure Classification Designations (IP Suitability Rating)

NEMA

NEMA Standards Publication 250 defines the NEMA Enclosure Type Numbers. Unlike the IEC Enclosure Classification Designations, NEMA Standards Publication 250 tests for environmental conditions such as corrosion, rust, icing, oil, and coolants. For this reason, and because the tests and evaluations for other characteristics are not identical, the IEC Enclosure Classification Designations cannot be exactly equated with NEMA Enclosure Type Numbers. The table below provides an equivalent conversion from NEMA Enclosure Type Numbers to IEC Enclosure Classification Designations. Note that the NEMA Types meet or exceed the test requirements for the associated IEC Classifications. Therefore, this table cannot be used to convert from IEC Classifications to NEMA Types.

IEC

IEC Publication 529, "Classification of Degrees of Protection Provided by Enclosures," defines the IP (Ingress Protection) Suitability Rating. The IP Suitability Rating is a system for classifying the degree of protection provided by enclosures of electrical equipment. The higher the number in the rating, the greater the degree of protection provided by the enclosure. The first numeral of the code indicates the degree of protection for persons against access to hazardous parts inside the enclosure and/or against the ingress of solid foreign objects. The second numeral indicates the degree of protection of equipment inside enclosures against damage from the ingress of water. The IP Suitability Rating defined by IEC 529 does not specify any degree of protection against mechanical damage of equipment, risk of explosions, or conditions such as moisture (i.e., condensation), corrosive vapors, fungus, or vermin.

CONVERTING NEMA TO IEC

NEMA Enclosure Type Number	Equivalent IEC Enclosure Classification Designation
1	IP10
2	IP11
3	IP54
3R	IP14
3S	IP54
4 and 4X	IP56
5	IP52
6 and 6P	IP67
12 and 12K	IP52
13	IP54

IEC INGRESS PROTECTION RATING

Protection against solid objects	
0	None
1	Solid objects larger than 50 mm
2	Solid objects larger than 12.5 mm
3	Solid objects larger than 2.5 mm
4	Solid objects larger than 1.0 mm
5	Dust
6	Dust tight

Protection against water	
0	None
1	Vertically falling water drops
2	Vertically falling water drops (up to 15° angle)
3	Spraying water
4	Splashing water
5	Water jets
6	Powerful water jets
7	Temporary immersion in water
8	Continuous immersion in water

WALLPLATE MATERIALS

The material used to manufacture a wallplate will have a significant impact on the product's durability and suitability for certain applications.

THERMOSET

Thermoset products are manufactured by applying pressure to powdered material. These types of products do not provide a high degree of resistance to impacts, chemicals, and solvents; therefore they are not suitable for heavy-duty applications. Urea is a thermoset material, and is commonly used to manufacture wallplates for use in residential or light-duty commercial applications.

THERMOPLASTIC

Thermoplastic products are manufactured by heating pellets of material into a liquid for injection into a mold. These materials are the preferred choice for heavy-duty applications because they provide superior resistance to impact, chemicals, and solvents. ABS, nylon, and polycarbonate are thermoplastic materials, which are used to manufacture wallplates for use in commercial applications.

STAINLESS STEEL

Leviton manufactures wallplates from type 304 and type 430 stainless-steel materials. Type 430 stainless steel is resistant to the corrosion effects of moisture, and as such is suitable for exterior or wet applications. Type 430 stainless steel has magnetic properties that may interfere with certain equipment, such as hospital MRI and marine navigation equipment. Type 304 stainless steel is non-magnetic and is also more corrosion resistant than type 430 stainless steel, and as such is the preferred choice for commercial applications. All QuickPort® and telephone wallplate products are manufactured from type 304 stainless-steel material. Standard wallplates are also available in type 304 stainless-steel material by using the suffix "040" in the part number.

STANDARDS | Applications

Leviton products and guidelines are developed consistent with all known applicable practices as defined by the following:

- TIA-568-C.0: Generic Telecommunications Cabling for Customer Premises
- TIA-568-C.1: Commercial Building Telecommunications Cabling Standard
- TIA-568-C.2: Telecommunications Cabling, Copper Component, and Cabling Specifications
- TIA-568-C.3: Telecommunications Cabling, Fiber Component, and Cabling Specifications
- TIA-569-B: Commercial Building Standard for Telecommunications Pathways and Spaces
- TIA-606-B: Administration Standard for Telecommunications Infrastructure of Commercial Buildings, published June 2012
- TIA-942-2: Telecommunications Infrastructure Standard for Data Centers
- ANSI-J-STD-607-A: Commercial Building Grounding and Bonding Requirements for Telecommunications
- IEEE 802.3: Ethernet-based LANs (Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet)
- IEEE 1100: Recommended Practice for Powering and Grounding Electronic Equipment
- ISO 11801: Generic Cabling for Customer Premises (multiple standards)
- ISO/IEC 15018 Edition 1.0: Generic Cabling for Homes
- ISO/IEC 24764 Edition 1.0: Generic Cabling Systems For Data Centres
- ISO/IEC 14763-2 Edition 1.0: Implementation and Operation of Cust. Premises Cabling - Planning and Installation
- ISO/IEC 14763-3 Edition 1.1: Implementation and Operation of Cust. Premises Cabling - Testing of Optical Fibre Cabling
- National Electrical Safety Code (NESC): Published by IEEE
- National Electric Code (NEC, NFPA 70): Published by NFPA
- BS EN 50173: Information Technology, Generic Cabling Systems, General Requirements (British Adopted European Standard)
- Telecommunications Distribution Methods Manual (TDMM): Published by BICSI
- Underwriters Laboratories (UL): Applicable listings and ratings
- NECA/BICSI 607-2011, Standard for Telecommunications Bonding and Grounding Planning and Installation Methods for Commercial Buildings
- ANSI/BICSI 002-2011, Data Center Design and Implementation Best Practices
- ANSI/BICSI 001-2009, Information Transport Systems Design Standard for K-12 Educational Institutions
- ANSI/BICSI 004-2012, Information Technology Systems Design and Implementation Best Practices for Healthcare Institutions and Facilities - Printed
- ANSI/NECA/BICSI 568-2006, Standard for Installing Commercial Building Telecommunications Cabling
- ANSI/BICSI 005-2013, Electronic Safety and Security (ESS) System Design and Implementation Best Practices
- Building Automation Systems cabling standard, ANSI/TIA-862-A-2011
- Residential Cabling standard, ANSI/TIA-570-C-2012
- A/V Design Reference Manual (AVDRM)
- BICSI ITS Dictionary
- Electronic Safety and Security Design Reference Manual (ESSDRM)
- Information Transport Systems Installation Methods Manual (ITSIMM)
- Outside Plant Design Reference Manual (OSPDRM)
- Telecommunications Distribution Methods Manual (TDMM)

TERM	PAGE
110-Style Wiring Products	A21-A23, E22
110-Style/Universal Patch Panels	A13, A15-A17, A20
3.5 mm QuickPort® Stereo Adapter	C14
4500 Series PDUs	G8
5500, 5505 Series PDUs	G7
66 Blocks & Accessories	A24
Adapter Plates, Fiber	
LightSpace®	B37-B38
Opt-X®	B23-B24
HDX	B14
Adapters	
AV	C14, C17, C20
Fiber	B66
Array Cords	B56
Atlas-X1™ Cat 5e	
Connectors	A32
Patch Cords	A27-A28
Patch Panels	A14, A16
System Overview	A4-A6, A9-A10
Atlas-X1 Cat 6	
Connectors	A32
Patch Cords	A27-A28
Patch Panels	A14, A16
System Overview	A4-A6, A9-10
Atlas-X1 Cat 6A	
Connectors	A32
Patch Cords	A27-A28
Patch Panels	A14, A16
System Overview	A4-A6, A9-A10
Audio, Home	
Home Theater Wallplates	C25-C26
JBL®	C21, C23
Leviton Architectural Edition®	C21, C23
Speakers	C21-C23
Volume Controls	C24
AV (Audiovisual)	
Adapters	C14, C20
Connectors	See Connectors, AV
Mounting Plates, Structured Media®	H13-H14

TERM	PAGE
Multimedia Wallplates	C19
Signal Extension	C11-C13
Back Boxes	C21-C22, D10
Banana Jack Connectors	C14
Bezels	A34
Binding Post Connectors	C14
BitWise Integrated Controllers	C27-C28
Blank Adapter Plates	B14, B24, B38
Blank Inserts, QuickPort	C14
Blank Panels, Rack-Mount	A14, E15-E16
BNC Connector	C14
Brackets	
Fiber (MTP®)	B46
Furniture	D12
Hinged (cable management)	E17
In-Ceiling & In-Wall	D11
Structured Media Enclosure	H13-H14
Wallplate Mounting	D12
Composite Patch Panels	A15
Cable Assemblies, Copper	
Copper Trunk Terminated to e2XHD A18, A31	
Cassette	
Low Smoke Zero Halogen	A27-A28, A30-A31
Patch Cords	A27-A29
Patch Cords, HDMI	C12
Patch Cords, Intact™ Intelligent	F6
Patch Cords, MDU	H13
Secure RJ	A29, F6
Shielded	A27-A28, A30
Trunks	A30-A31
Cable Assemblies, Fiber	
Array Cords (Opt-X® Unity 40/100G)	B56
Harnesses	B46, B53-B55
Patch Cords	B56-B60
Pigtails	B57, B59-B60
Secure Keyed	B52, B55, B60, F6
Trunks	B5-B6, B49-B52
Cable Management	
110-Style (Cross Connect)	E22
Brackets	E17

TERM	PAGE	TERM	PAGE
Fiber Raceway System (duct)	E5-E12	Decora®	
Horizontal 19" Rack-Mount	E15	AV Inserts	C14, C19
Overhead Infrastructure Platform	E3-E4	QuickPort® Inserts	D17, D21
Rear Managers	E16	Telephone & Video Jacks/Inserts	D18
Rings	E17	Volume Controls (MDU)	C24
VELCRO® Brand Fasteners	E18-E19	Wallplates	D19
Vertical (Versi-Duct®) Rack-Mount	E13-E14	Duct, Fiber (Fiber Raceway System)	E5-C12
Cassettes, MTP (Modules)	B14, B25-B26, B32, B46	Duplex Devices	D21
Category 5e	See Atlas-X1™ Cat 5e, eXtreme® Cat 5e, GigaMax® Cat 5e	DuraPort® Industrial Connectivity	D13-D14
Category 6	See Atlas-X1 Cat 6, eXtreme Cat 6	DVI Decora Insert, feedthrough	C14
Category 6A	See Atlas-X1 Cat 6A, eXtreme Cat 6A	e2XHD Snap-In Cassette Patching System	A18, A31, B29-B32
CATV Splitters	H19	Enclosures, Rack-Mount - Fiber	
Cleavers, Fiber	B69-B71	High-Density Flush-Mount	B20, B42
Compression Connectors	C16	LightSpace® DP/DPS/DPC	B34
Connector Adapter Bezels	A34	Opt-X® 1000i/500i	B19-B20
Connectors, AV	C14-C16	Opt-X HD	B15-B16
Connectors, AV - MOS (Multimedia Outlet System)	C17-C20, D7-D8	Opt-X UHD	B11-B13
Connectors, Copper (jacks)		Opt-X Ultra®	B18, F5
Cat 3	A34	Replicator®	B45
Cat 5	A34	VertiGO®	B22
Cat 5e	A32-A34,	Enclosures, Structured Media®	H3-H10
Cat 6	A32-A33	Enclosures, Wall-Mount - Fiber	
Cat 6A	A32-A33	LightSpace CPC	B35
Floor	D19	LightSpace CPS	B35
Multimedia Outlet System (MOS)	C17-C20, D7-D8	LightSpace NIDS	B36
QuickPack®	A33-A34	Opt-X 1000	B21
Shielded	A32	Enclosures, Zero-U - Fiber	
Termination Instructions	X7-X12	VertiGO	B22
Voice-Grade/USOC	A34	Enclosures, Wireless	E21
Connectors, Fiber		Enclosures, Zone	E20
FastCAM®	B62	Excella® Wallplates & Inserts	D15
Fast-Cure®	B63	Expansion Boards, Structured Media	H17-H18
Multimedia Outlet System (MOS)	C20, D8	eXtreme® Cat 5e	
Secure Keyed LC	B64	Connectors	A33
Consumables, Fiber	B72	Patch Cords	A27-A28
Cross-Connect Products		System Overview	A4, A7, A9-A10
110-Style Wiring Products	A21-A23, E22	eXtreme® Cat 6	
66 Blocks & Accessories	A24	Connectors	A33
Custom-Configured Products	See Make-to-Order	Patch Cords	A27-A28

TERM	PAGE
System Overview	A4, A7, A9-A10
eXtreme Cat 6A	
Connectors	A33
Patch Cords	A27-A28
System Overview	A4, A7, A9-A10
F-Connectors	C15-C16, D18, D20
FTTH	H10
Faceplates	See Wallplates
Faceplates, Modular Furniture	D12
Fan-Out Kits	B65, X12
Termination Instructions	X12
FastCAM®	
Connectors	B62
Termination Instructions	X10
Fast-Cure®	
Connectors	B63
Termination Instructions	X11
Fiber	
50/125µm LOMM (OM3/OM4)	See LOMM
50/ & 62.5/125µm MM (OM1/OM2)	See MM
SM (OS1/OS2)	See SM
Adapter Plates	B14, B23-B24, B37-B38
Adapters	B66
Blade Replicators	B44
Brackets	B44, B46
Cable Assemblies	See Cable Assemblies, Fiber
Cleavers	B69-B71
Connectors	See Connectors, Fiber
Consumables	B72
Duct (Fiber Raceway System)	E5-E12
Enclosures	See Enclosures
Fan-Out Kits	B65, X12
Harnesses	B46, B53-B55
LightSpace®	See LightSpace
MTP® Brackets	B46
MTP Cassettes	B14, B25-B26, B32, B46
Opt-X®	See Opt-X
Opt-X Ultra®	See Opt-X Ultra
Panels	B22, B29-B31, B42, F5

TERM	PAGE
Patch Cords	B56-B60, F6
Pigtails	B57, B59-B60
Secure Keyed	B52, B55, B60, B64, F6
Splice Modules	B27
Splice Trays, Sleeves & Holders	B27, B39-B40
Tools	B67-B72
Trunk Cables	B5, B49-B52
Fiber Raceway System (FRS)	E5-E12
Fire-Rated Back Box	C21-C22
Floor Box Assemblies	D20
Floor Connectors	D20
Flush-Mount Enclosures	B20, B42
Furniture Brackets & Faceplates	D12
GigaMax® Cat 5e	
Connectors	A34
Patch Cords	A27-A28
System Overview	A3-A4, A8, A9-A10
Harnesses	B46, B53-B55
HDF3168 Distribution System	B7-10
HDMI®	
Connectors and Inserts	C14, C19
Patch Cords	C12
Signal Extension	C11-C12
High-Density Cassette System (e2XHD)	A18, A31, B29-B32
Home Audio	See Audio, Home
Industrial Connectivity (DuraPort®)	D13-D14
Inserts, Wallplate	
AV	C14, C19
Decora®	C14, C19, C24-C26, D7, D17-D19, D21
Duplex Outlet-Style	D21
Excella® 86 mm x 86 mm	D15
Other 86 mm x 86 mm	D16
Intact™ Intelligent Port Management System	F2-F6
J-Box Kit	H12
Jacks (Connectors)	
A/V	See Connectors, A/V
Copper	See Connectors, Copper
Floor	D20
JBL® Home Audio	C21, C23

TERM	PAGE	TERM	PAGE
Labeling Solutions		MTP Cassettes	B14, B25-B26, B32
e2XHD	A18, B31	System Overview	B3-B4
Patch Panels	A20, A21, A23, A38	Modules, Fiber	
Work Area	A38, D5	GPON Splitter	B25
Leviton Architectural Edition®	C21, C23	Splice	B27
LightSpace®		Mobile Device Station	C25
Accessories	B40	Modules, Voice, & Data	H17
Adapter Plates	B37-B38	Mounting Plates, Structured Media	H13-H14
Rack-Mount Enclosures	B34	MTO	See Make-to-Order
Wall-Mount Enclosures	B35-B36	MTP Brackets	B46
LOMM Fiber (Laser-Optimized Multimode), 10G		MTP Cassettes	See Cassettes, MTP
Adapter Plates	B14, B23-B24, B38	Multimedia Outlet System (MOS)	C17-C20, D7-D8
Cable Assemblies	See Cable Assemblies, Fiber	NIDS (Network Interface Devices)	B36
Connectors	B62-B64	Opt-X	
MTP® Cassettes	B14, B25, B32, B46	Accessories	B28
Splice Modules	B27	Adapter Plates	B23-B24
LOMM Fiber (Laser-Optimized Multimode), 40/100G		Enclosures, Rack-Mount	B18-B20
Cable Assemblies	See Cable Assemblies, Fiber	Enclosures, Wall-Mount	B21
MTP Cassettes	B14, B26, B32, B46	Opt-X HD	
Opt-X® Unity	B6, B26, B46, B49-B50, B53, B56	Accessories	B16, B28
Low Smoke Zero Halogen	A27-A28, A30-A31	Adapter Plates	B14
Make-to-Order		Cassettes	B14
Brackets, Fiber	B46	Enclosures	B16
Cable Assemblies, Copper	A28-A31	Opt-X UHD	
Cable Assemblies, Fiber	See Cable Assemblies, Fiber	Accessories	B13, B28
Enclosures, Fiber	See Enclosures	Adapter Plates	B14
Modules, MTP (Cassettes)	B14, B25,-B26, B32	Cassettes	B14
Panels, Fiber	B42	Enclosures	B13
Secure Keyed LC & SC System	B52, B55, B60, F5-F6	Opt-X Ultra®	
Secure RJ System	A29, F5-F6	Accessories	B28
Metered Series PDUs	G3-G4	Enclosures, Rack Mount	B18
MM Fiber (Multimode), Laser-Optimized	See LOMM	Opt-X Unity	B6, B26, B46, B49-B50, B53, B56
MM Fiber (Multimode), Standard		Overhead Infrastructure Platform	E3-E4
Adapter Plates	B14, B23-B24, B37-B38	P1000 Series PDUs	G5-G6
Cable Assemblies	See Cable Assemblies, Fiber	Palm Tool	A36, A38
Connectors	B62-B64	Patch Blocks	A13-A14
		Patch Cords	See Cable Assemblies

TERM	PAGE
Patch Panel Labeling Solutions	A20, A21, A23, A38
Patch Panels, Copper	
110-Style/Universal	A13, A15-A17, A20, A21-A22
Angled	A16
Blank	A15, E15-E16
Composite	A15
Category 5e	A13-A17, A22
Category 6	A13-A17, A21
Category 6A	A13-A17, A21
e2XHD	A18
Flat	A13-A14
High-Density	A14, A16, A18
Intact™ Intelligent	F5
Patch Block	A13, A15
QuickPort®	A14-A17
Recessed Angled	A17
Recessed Flat	A17
Selection Guide	A12
Shielded	A14, A16
Transitional Covers	E16
Twist & Mount (MDU)	H15
VertiGO®	A19
Voice Grade	A20
Patch Panels, Fiber	
e2XHD	B29-B31
High-Density Flush-Mount	B42
Intact Intelligent	F5
Opt-X 500i	B20
VertiGO	B22
Pigtails	B57, B59-B60
Power Distribution Units (PDUs)	
4500 Series	G8
5500-5505 Series	G7
Metered Series	G3-G4
P1000 Series	G5-G6
Switched Series	G3-G4
Power Supplies, Structured Media®	H12
Pre-terminated Solutions	
Cable Assemblies, Copper	A26, A30-A31

TERM	PAGE
Cable Assemblies, Fiber	B47-B60
Fiber Overview	B5-B6
MTP® Cassettes	B14, B25-B26, B32, B46
QuickPack®	A33-A34
QuickPlate®	D4
QuickPort	
AV Connectors & Adapters	See Connectors, AV
Blank Inserts	A42
Copper Connectors (Jacks)	See Connectors, Copper
Decora® Wallplates & Inserts	C14, D17-D19
Excella® Wallplates & Inserts	D15
Fiber Adapters	B66
Furniture Faceplates	D12
Patch Panels	A14-A17
Surface-Mount Boxes	D10
Wallplates, Plastic	D3-D4, D6
Wallplates, Stainless Steel	D5
Raceway (Fiber Raceway System)	E5-E12
Rack-Mount Enclosures	See Enclosures, Rack-Mount
RCA Connectors	C15-C16, C19
Receptacles, Recessed	C25-C26
Recessed Entertainment Box	C25-C26
Replicator® Enclosures	B45
Routers & Switches (MDU)	H11
S-Video Connectors & Adapters	C14
Secure Keyed LC System	B52, B55, B60, B64, F6
Secure Keyed SC System	B60
Secure RJ System	A29, F6
Shielded Connectivity	
Cable Assemblies	A27-A28, A30
Connectors	A32
Patch Panels	A14, A16
System Overview	A6-A7
Termination Instructions	X8
SlimLine Patch Cords	A27-A28
SM Fiber (Single-Mode)	
Adapter Plates	B14, B23-B24, B37-B38
Cable Assemblies	See Cable Assemblies, Fiber

TERM	PAGE
Connectors	B62-B64
MTP Cassettes	B14, B25, B32
Splice Modules	B27
System Overview	B3-B4
Speakers	C21-C23
Splice Trays, Holders, & Sleeves	B25, B37-B38
Splitters	H19
Stainless-Steel Wallplates	See Wallplates, Stainless Steel
Standards	X14-15
Structured Media®	
Brackets	H13-H14
Cabling Panels	H15-H16
Enclosures	H4-H10
Expansion Boards	H17-H18
Modules	H17
Mounting Plates	H13-H14
Patch Panels	H15-H16
Power Supplies	H12
Video Modules	H19
Surface-Mount Boxes	
Back Boxes	D10
QuickPort®	D10
Telephone	D20
Switched Series PDUs	G3-G4
Switches & Routers (MDU)	H11
Telephone Input Distribution Panel (TIDP)	H15
Telephone Jacks, Inserts & Wallplates	D18, D20, D22
Termination Instructions	
Copper	X7-X9
Fiber	X10-X12
Tools	
Copper	A35-A38
Fiber	B67-B72
Fiber Raceway System	E12
MDU	H20
Transitional Covers, Rack-Mount	E16
Trunk Cables	See Cable Assemblies
Twist & Mount Patch Panels	H15
Ultra High-Flex Patch Cords	A27, H13

TERM	PAGE
USB Connector	C14
USB Receptacle	C25-C26
USB Signal Extension	C13
VELCRO® Brand Fasteners	E18-E19
Versi-Duct® Cable Management	E13-E14
VertiGO® Patch Panels	
Copper	A19
Fiber	B22
VGA Connectors	C19
VGA Signal Extension	C13
Video Connectors	See Connectors, AV
Video Modules, Structured Media	H19
Video Splitters	H19
Video Wallplates	D18, D22
Visual Fault Locator	B68, B71
Voice-Grade Connectivity	A20, A59-A62, F15-F18
Wall-Mount Enclosures	See Enclosures, Wall-Mount
Wall-Phone Jacks, Inserts, & Wallplates	D18, D20-D22
Wallplate Inserts	See Inserts, Wallplate
Wallplates (Faceplates)	
Angled	D5-D6, D15
Decora®	D19
Duplex	D20
Excella®	D15
Home Theater and Multi-Room	C25-C26
Midway	D5, D19, D21, D22
QuickPlate® Tempo	D3-D4
Renu®	D9
Round Opening	D21
Standard	D4-D5, D22
Stainless Steel	D4, D7, D13-D14, D19, D21, D22
Telephone	D5, D18, D22
Video	D18, D22
Wireless Access Point Enclosures	E21
Wiring Standards	X4
Zero-U Patch Panels	
Copper	A19
Fiber	B22
Zone Enclosures	C20

INDEX | Part Number Index

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
00688-***	C26	41075-DBW	C14, D17	42080-***	D4, D6
00689-***	C26	41080-***	A38, D4-D6	42081-***	D6
00690-***	C26	41081-***	D6	42090-***S	D4
00PJ7-***	D21	41084-***	B66, C14-C15	42400-8FG	H13
00PJ8-***	D21	41085-***	B66	42777-***	D10
05261-0CH	C26	41087-***	D21	43080-***	A38, D5
05361-0CH	C26	41089-***	D10	43081-***	D5
0PJ26-00*	D19	4108W-***	D5	43105-***	E18, H20
0PJ82-***	D21	41091-***	D6	43108-***	E18
40050-***	A24	410L2-***	A23	43112-***	E18
40054-***	A24	41100-HLD	A21, A23, A38	43115-***	E18
40066-***	A24	41106-***	A34	4515-***	G8
40067-0BC	A24	41108-***	A34	4520-***	G8
40070-MDP	A37	41150-***	E15	4625A-***	D20
40072-***	A24	41188-SM2	E16	47112-***	C26
40089-00D	A14, A24	41225-SAP	E19	47600-QPB	H13
40144-***	D18	41290-***	C19, D7	47603-***	H15-H18
40149-***	D18	41291-***	C19-C20, D7-D8	47604-***	H6
40159-***	D18	41292-***	C19-C20, D7-D8	47605-***	H6, H8, H12, H17
40201-00I	D20	41293-***	C19-C20, D7-D8	47606-***	H16
40214-***	D22	41294-***	C20, D8	47609-***	H17-H18
40223-00S	D22	41295-***	C19-C20, D7-D8, X9	47611-***	H11, H17
40226-00S	D22	41296-***	C19, D7	47612-***	H6, H8, H13-H14
40238-***	D22	41297-***	C19-C20, D7-D8	47613-***	H20
40244-***	D22	41600-00I	A24	47615-NYL	H20
40249-***	D22	41620-00I	A24	47615-PTT	A36
40253-***	D22	41638-***	D18	47616-DSF	H17-H18
40257-***	D22	41641-***	D17	47617-***	C26
40258-***	D22	41642-***	D17	47689-00B	H17
40259-***	D22	41643-***	D17	47689-0QP	A14
40278-***	D20	41644-***	D17	47690-***	H19
40539-***	D22	41646-***	D17	47693-***	H19
40644-***	D18	41647-***	C14	476TL-T12	H15
40649-***	D18	41648-***	C14	476TM-***	H15
40659-***	D18	41649-***	C19, D7	47FTH-***	H10
40681-***	D18	41650-***	D20	48211-***	C24
40682-***	D18	41652-***	D20	48212-***	H12
40734-***	C14	41658-***	D18	48605-***	H9
40735-***	C15	41880-***	E22	48900-***	E19
40830-***	C15	41900-***	C12	49005-***	E16
40831-***	C15	41910-***	C11-C13	49006-AMB	E16
40832-***	C14	41920-***	C13	49012-***	A20
40833-***	C14	41A10-HCM	A23	49013-***	A20
40834-***	C14	41AB2-***	A22	49014-***	A20
40835-***	C14	41AB6-***	A21	49018-***	A20
40837-***	C14	41AW1-***	A22	49103-IDC	A23
40839-***	C14	41AW2-***	A22	49104-***	A23
40951-***	C26	41D10-HCM	A23	49105-IDC	A23
40952-***	C26	41D1R-HCM	A23	491RU-***	E14
40981-***	D18	41D6A-1F4	A21	49200-00M	A24
40982-***	D18	41DBR-***	A22	49222-***	D12
40985-***	C16	41DR2-***	A22	49223-BA*	D11
40988-000	A37	41DR6-***	A21	49223-CB*	D11
40989-ACT	H20	41DW1-***	A22	49251-***	E17
40989-CPT	A37, H20	41DW2-100	A22	49252-***	E15
41010-SPW	E19	41LBL-***	A21, A23, A38	49253-***	E15
41020-SPR	E19	41MB2-***	E22	49254-***	E15, E16
41030-SMJ	D12	41NB2-***	A22	49255-***	A14, A17, F5
41054-IDD	D20	41NB6-1F4	A21	49256-***	A16

INDEX | Part Number Index

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
49257-***	A20, A38	59265-5DC	E14	5RB5H-*UN	B13
49258-TWB	E15	5C000-RPL	B28	5RCMP-KIT	B13, B16, B28, B31
4925C-***	E15	5CMTL-RPL	B28	5RCMP-KT2	B13, B16, B28, B31
49260-***	E17	5D000-***	B28	5RCMR-KIT	B13, B16, B28, B31
49261-BKT	E17	5D460-***	A27-A28	5REAR-023	B13, B28
49262-HR1	E17	5D560-***	A27-A28	5RKIT-OM3	F5
49265-***	E14	5ESJK-***	A32	5RKIT-OS2	F5
49280-***	A19, B22	5EUJK-***	A32	5S460-***	A27-A28
492RU-***	E14	5F100-***	B24, H13	5T000-00T	B39-B40
49300-SM*	E15	5FUHD-***	B14	5W110-00N	B21
49400-FHB	E17	5G108-***	A34	5W120-00N	B21
4940L-***	E14	5G110-***	A33	5W170-00N	B21
49553-***	H20	5G240-***	A23	5W310-00N	B21
49560-TTS	A37	5G270-***	A14	5W320-00N	B21
49561-SSP	A37	5G34A-***	A23	5W370-00N	B21
49562-TSK	A37	5G34B-***	A23	5W597-U48	A17
49605-30W	H9	5G460-***	A27-A28	5W710-00N	B21
49660-00P	H20	5G596-***	A13, A17	5W720-00N	B21
49800-***	B65, B70, B72	5G597-***	A16	5W770-00N	B21
4980L-***	E14	5HHOM-***	H13	6110G-R*6	A33
49886-***	A36, B63, B71-B72	5L000-KAL	B28	61110-***	A33
49887-***	B65	5L000-L0K	H6, H8, B21, B28	61SJK-***	A32
49910-***	D12	5L2LL-A03M	B56	61UJK-***	A32
49990-***	B63	5L2LL-B03M	B56	6210G-***	A27-A28
49991-***	B62	5L4JJ-B03M	B56	62240-***	A21
4999K-***	B64	5L8MM-A03M	B56	6234B-***	A21
4M089-1*M	C19, D7	5L8MM-B03M	B56	62460-***	A27-A28
4MKIT-F24	F5	5LDLC-***	B58	62DCL-***	B58
4MSYS-BKT	F5	5LDCL-***	B58	62DCT-***	B58
4MSYS-IDH	F5	5LDSC-***	B58	62DLC-***	B58
4MSYS-IDM	F5	5LPLC-KIT	B59	62DSC-***	B58
4S089-***	D10	5LPLC-M03	B59	62DST-***	B58
4S115-75E	E18	5LPSC-KIT	B59	62PLC-KIT	B59
4S255-***	A14	5LPSC-M03	B59	62PLC-M03	B59
4S256-***	A16	5LPST-M03	B59	62PSC-KIT	B59
4W006-AMB	E16	5PCBR-*BT	B28	62PSC-M03	B59
4W254-***	E15, E16	5R100-14R	B28	62PST-KIT	B59
4W256-***	A17	5R1RU-023	B28	62PST-M03	B59
50DCL-***	B58	5R1UD-S**	B13	69104-IDC	A21
50DLC-***	B58	5R1UE-OPX	B20	6910G-***	A14
50DSC-***	B58	5R1UH-S03	F5, B18	69270-***	A14
50DST-***	B58	5R1UH-S08	B16	69585-IDL	A20, A38
50PLC-KIT	B59	5R1UL-CMT	B28	69586-***	A13, A17
50PLC-M03	B59	5R1UL-F03	B20	69587-***	A16
50PSC-KIT	B59	5R1UM-S08	B16	6A586-U**	A13
50PSC-M03	B59	5R1UM-*03	B19	6A587-***	A16
50PST-KIT	B59	5R1UR-TRY	B16	6AS10-***	A27-A28
50PST-M03	B59	5R2UH-S06	F5, B18	6ASJK-***	A32
51084-***	A38	5R2UH-S16	B16	6AUJK-***	A32
542LL-A03M	B56	5R2UL-CMT	B28	6AZ10-***	A27-A28
542LL-B03M	B56	5R2UL-F06	B20	6D460-***	A27-A28
548MM-A03M	B56	5R2UM-S16	B16	6D560-***	A27-A28
548MM-B03M	B56	5R2UM-*06	B19	6H460-***	A27-A28
54DLC-M**	B58	5R2UR-TRY	B16	6S560-***	A27-A28
54DCL-M**	B58	5R3UE-OPX	B20	6W587-U48	A17
54PLC-KIT	B59	5R3UL-F12	B20	6Z460-***	A27-A28
54PLC-M03	B59	5R3UM-***	B19	78003-000	D21
5500-***	G7	5R4UH-S12	B18	78016-000	D21
5505-190	G7	5R4UM-***	B19	78804-000	D21

INDEX | Part Number Index

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
80301-***	D19	ARSPP-M**	B60	FM-*012CAC0+	B25
80309-***	D19	AWSPP-M**	B60	FM-*024CAC0*	B25
80401-***	D19	AYSPP-M**	B60	FM_*024CDC0B*	B26
80409-***	D19	BL000-00W	D15	FM_*024NCC0B*	B26
80414-***	D17	BL186-***	D15	FM_*024NDC0B*	B26
80503-***	D21	BLWP1-***	D15	FM_*048NDC0B*	B26
80504-***	D21	BWBC*_***	C28	FME2XHD	B46
80516-***	D21	BWD**_***	C28	FSHAT-F06	B39
80601-***	D19	BWE**_***	C28	FSHBF-P12	B39
80609-***	D19	BWI**_***	C28	FSHHS-P06	B39
80703-***	D21	BWR*_***	C28	FSHHS-P08	B39
80704-***	D21	BWWFA-000	C28	FSHMI-F06	B39
80716-***	D21	C0224-000	D12	FSHMR-F06	B39
80781-***	D22	C0225-0CP	D12	FSHRB-F06	B39
80782-***	D22	C1253-2CM	A15, E15-E16	FSHSL-F06	B39
84003-040	D21	C1255-H48	A15	FSSMI-025	B40
84004-040	D21	C1586-U48	A15	FSSMI-040	B40
84016-040	D21	C1686-U48	A15	FSSMR-025	B40
84401-040	D19	C5914-000	H20	FSSMR-040	B40
84409-040	D19	CPC12-STD	B35	FSSRB-Q40	B40
85003-000	D21	CPC24-STD	B35	FSSSD-040	B40
85004-000	D21	CPC48-STD	B35	FSSSD-060	B40
85016-000	D21	CPCSR-***	B40	FSSSL-040	B40
86003-000	D21	CPGRD-KIT	B40	FSSSL-060	B40
86004-000	D21	CPLOK-KIT	B40	FTH00-00W	H10
86016-000	D21	CPS12-STD	B35	ICONS-IC*	A32
87003-000	D21	CPS24-STD	B35	LF145-01W	A58
87016-000	D21	CPS48-STD	B35	LI137-***	D16
88003-000	D21	D6700-00E	D14	LI145-***	D16
88004-000	D21	D6701-00E	D14	LI150-***	D16
88016-000	D21	D6706-00E	D14	MH101-1D1	G4
89265-***	E13	D670K-***	D14	MH122-1C2	G4
8940L-***	E13	D6710-***	D14	MLCPB-*LG	F6
8980L-***	E13	D6720-***	D14	MRJPB-00*	F6
AB100-00*	A34	D6721-***	D14	MTPCN-EXD	B50, B51, B56
AB200-00*	A34	D675E-00E	D14	N3500-STD	B36
AB300-00*	A34	DP03U-STD	B34	N502H-STD	B36
AEAWS-C1W	C21	DP04U-STD	B34	N5300-STD	B36
AEB6-000	C21-C22	DP06U-STD	B34	OIP**_***	E3-E4
AEC65-000	C21	DPC6U-033	B34	P1020-12S	G6
AEC80-000	C21	DPC8U-STD	B34	P1021-12S	G6
AECCS-VCE	C23	DPC12-066	B34	P1022-12L	G6
AEHTK-000	C26	DPCMP-UNV	B40	P1023-12L	G6
AEI55-000	C23	DPGRD-KIT	B28, B40	P1024-12L	G6
AEI65-000	C21	DPLOK-KIT	B40	P1025-12L	G6
AEI80-000	C21	DPS3U-STD	B34	P1040-10S	G6
AEM65-000	C21	DPS4U-STD	B34	P1041-10S	G6
AEMRK-000	C26	DPS6U-STD	B34	P1042-10L	G6
AEPI6-KIT	C21	DUSTK-CAP	B64	P1043-10S	G6
AEPI8-KIT	C21	E2X**_***	A18-A31, B31-B32	P1044-10L	G6
AEPIS-KIT	C23	EN928-000	C28	P1045-10L	G6
AESPP-M**	B60	ETR TN-*SC	B60	P1046-10L	G6
AESUB-012	C23	ETR TN-*TL	B64, F6	P1047-10L	G6
APL12-***	B38	F3168-***	B10	P1070-10S	G6
APLW6-***	B38	FB106-***	B46	P1071-10S	G6
APLW8-***	B38	FB109-***	B46	P1072-10L	G6
APPLC-S03	B59	FB110-VST	B46	P1073-10S	G6
APPSC-S03	B59	FB112-***	B46	P1074-10L	G6
APSSC-***	B59	FM-*012BAC0*	B25	PCI65-KIT	C22

INDEX | Part Number Index

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
PCORD-***	G4	S8HCR-***	E8	T6XRB-40Q	B39-B40
PJ262-***	D19	S8HEL-***	E8	TCORD-010	G4
PLC**-003	B25	S8HTE-***	E8	TS901-000	C28
PPRTN-*LG	B64	S8JNR-***	E8	UPDCL-***	B59
PPRTN-*SC	B60	S8LRU-000	E11	UPDCT-***	B59
RE640-***	D9	S8MNT-KIT	E11	UPDLC-***	B59
REA00-00*	D9	S8RDR-***	E10	UPDSC-***	B59
REWM1-ST5	D9	S8RMK-000	E11	UPDST-***	B59
REWM2-ST5	D9	S8SUS-KIT	E11	UPPLC-KIT	B59
REWP1-***	D9	S8VEL-***	E8	UPPLC-S03	B59
REWP2-***	D9	S8VTE-***	E8	UPPSC-KIT	B59
REWP3-***	D9	SGAMP-000	C24	UPPSC-S03	B59
REWP4-***	D9	SGC65-***	C22	UPPST-S03	B59
RPL-*****PLC3	B44	SGI65-***	C22	VERPB-019	B44
S1LRU-000	E11	SGVCK-***	C24	W1000-***	E21
S1RMK-000	E11	SGVSM-00W	C24	Z1000-***	E20
S25RT-02M	E10	SGVST-00W	C24		
S2CUT-TOL	E12	SH081-1D1	G4		
S2DCT-***	E6	SH082-1C2	G4		
S2DMB-000	E11	SMH00-SMB	E11		
S2DRP-***	E9	SMTRE-***	E12		
S2END-***	E10	SPLMT-HKT	B27, B39		
S2FSL-INL	E9	SPLCS-***	B27		
S2HCR-***	E8	SPSCS-***	B27		
S2HEL-***	E8	SRAGD-SLT	E6		
S2HTE-***	E8	SRJ6*-***	A29		
S2JNR-SLT	E8	SRJET-00*	A29, F6		
S2TRM-TRM	E9	SRJPB-00*	A29		
S2VEL-***	E8	SSLOT-***	E12		
S2VTE-***	E8	SV161-1D1	G4		
S4ADP-***	E10	SWDCT-***	E6		
S4CUT-TOL	E12	SWDMB-000	E11		
S4DCT-***	E6	SWEND-CSL	E10		
S4DMB-000	E11	SWHCR-***	E8		
S4DRP-DRP	E9	SWHEL-***	E8		
S4END-***	E10	SWHTE-***	E8		
S4EXT-KIT	E11	SWJNR-***	E8		
S4FSL-***	E9	SWRDR-***	E10		
S4HCR-***	E8	SWRMK-000	E11		
S4HEL-***	E8	SWSUS-***	E11		
S4HTE-***	E8	SWVEL-***	E8		
S4JNR-***	E8	SWVTE-***	E8		
S4LRU-000	E11	T47BF-P06	B39-B40		
S4MNT-KIT	E11	T47HS-P06	B39-B40		
S4RDR-***	E10	T4LBF-P06	B39-B40		
S4RMK-000	E11	T4LBF-P12	B39-B40		
S4SUS-KIT	E11	T4LHS-F06	B39-B40		
S4TRM-TRM	E9	T4LHS-F12	B39-B40		
S4VEL-***	E8	T4LHS-P06	B39-B40		
S4VTE-***	E8	T4LHS-P12	B39-B40		
S50RT-***	E10	T5630-00W	C26		
S50ST-350	E10	T5LBF-P06	B39-B40		
S5STC-350	E10	T5LBF-P12	B39-B40		
S8ADP-***	E10	T5LHS-B12	B39-B40		
S8DCT-***	E6	T5LHS-F06	B39-B40		
S8DMB-000	E11	T5LHS-F12	B39-B40		
S8END-***	E10	T5LHS-P06	B39-B40		
S8EXT-KIT	E11	T5PLS-12F	B27		
S8FSL-***	E9	T5PLS-24F	B10, B27		

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