LEVITON
VOICE & DATA DIVISION

Structured Cabling Systems

T-700

Multimedia solutions for copper and fiber connectivity.

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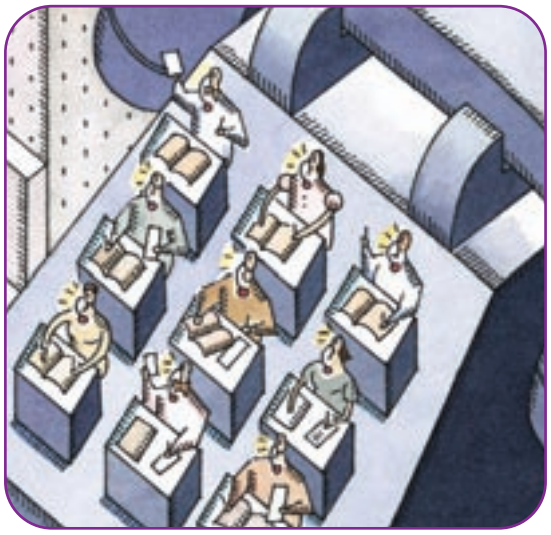


Applications Engineers

Leviton technical experts are available during business hours to answer your product questions. Call Leviton's Applications Engineering Department at: 1-800-824-3005 for helpful advice and technical support.

800.824.3005

Sales Support

Leviton offers a wide array of printed support materials such as Line Cards, Product Brochures and our Wiring Strategies Guide. Call our Sales Support Department at: 1-800-922-6229 for info.

800.922.6229

Certified Cabling System Program

CCS is a strong, synergized program to coordinate, controls and assures quality for all aspects of your cabling system, including design, installation, testing and maintenance by the most highly qualified installers in the industry. Leviton guarantees any system installed by a CCS installer to operate reliably and trouble-free for the life of the building.

Lifetime Warranty

Leviton produces the highest quality products available and backs them with one of the strongest warranties in the industry. Our Lifetime Warranty on parts and performance provides you with the assurance that your Leviton CCS installed system will support not only all current, but also any future application developed for TIA-568-B. It covers all Leviton CCS products against defects in material and workmanship for as long as they are installed in your certified cabling system. And Leviton's "Full System Certification" covers your entire system—Fiber or Copper—from horizontal solutions to the backbone. Future adds, moves and changes will never put your system at risk because Leviton Certified Installers will perform system maintenance for the life of your system.

Certified Installer Training

CCS Program Installers are carefully selected, trained and annually re-certified to ensure you the highest quality system installation and maintenance. They are your resource for network design, product selection, installation, testing and support. *For the name of a Certified Installer in your area, please call us at 1-800-922-6229.*

Learning Center

Visit Leviton's on-line Learning Center for the latest in tips, tricks and techniques. It's your personal tech support specialist—24 hours a day, 7 days a week.

- **FAQ's - Frequently Asked Questions**
- **Application Notes**
- **Technical Support E-mail**
- **Instruction Sheets & Training Animations**
- **Do/Don't Guide**
- **'Wiring Strategies' Installation Guide**

Plus: Presentations, wiring diagrams, and other data on products, industry topics, glossary, and links.

Spec/Design Tools On-Line

An entire website area devoted to providing the information contractors, specifiers, designers and architects need when specifying or designing structured cabling systems.

- **Component drawings to download and import directly into network design programs.**
- **Spec sheets to reference and include with design/build documents and bid submittals.**
- **Boilerplate product specification text to place into system spec documents.**

International Support

Leviton Voice & Data's International Sales and Marketing Department supports a worldwide market that includes 47 countries in Asia, Australia, Central America, Europe, North America and South America, and is growing daily. Call for information about our international CCS program and unique international product solutions.

Hablamas Español.
1-425-486-2222

Graphics Library

Download Leviton Voice & Data product images and logos to use in your publications. A site especially for distributors and contractors who need fast, easy access to product photos for promotions and training.

Images can be used to create:

- **Catalogs**
- **Presentations**
- **Direct mail**
- **Training materials**
- **Brochures**
- **Newsletters**
- **Ads**
- **Web sites**

Get the latest images for any subject:

- **Commercial structured cabling**
- **Fiber optic products**
- **Home and office multimedia**
- **New products**
- **Logos**

Choose from a range of formats and platforms:

- **Web-ready JPGs**
- **High resolution TIFFs or EPSs**
- **PC and Macintosh compatible**

www.levitonvoicedata.com

LEVITON®
VOICE & DATA DIVISION

QUICK REFERENCE GUIDE

The following terms and logos are used throughout this catalog to help users quickly identify special product features. For a more general listing of telecom terms and concepts, please see the Glossary in the back of this catalog, page X29.

eXtreme® 6+

Leviton's Category 6 solution. Includes connectors, patch cords and QuickPort patch panels. Exceeds TIA specifications for channel, link and component-rated Category 6 systems.

GigaMax™ 5e

Leviton's Category 5e Channel and Component solution. Includes connectors, patch cords and universal panels. Exceeds TIA specifications for channel- and component-rated Category 5e systems.

Category 5

Leviton's Category 5 solution for fast reliable voice and data applications from frame to workstation. Includes connectors, patch cords and universal panels. Exceeds TIA specifications for channel and category-rated Category 5 systems.

Opt-X™

The Opt-X Fiber System incorporates a wide range of fiber optic components, including adapters, mounting plates, connectors, enclosures, cable assemblies, tools, consumables and workstation products. The Thread-Lock and Spectro-Link (MT-RJ) systems are part of the Opt-X system.

Spectro-Link™

Spectro-Link is our innovative system of MT-RJ connectors, patch cords, adapters and tools. High-density, field-configurable and craft-friendly.

Thread-Lock®

Thread-Lock offers fiber optic solutions in ST®, FC and SC styles, including connectors, patch cords, adapters and tools. Reusable connectors make field-installation simple and cost-effective.

Versa-Cleave™

The Versa-Cleave tool is your award-winning solution for cleaving fiber perfectly every time.

Versi-Duct™

Leviton's versatile horizontal and vertical slotted duct system for fiber and copper cable organization and management. A high-quality system with a variety of solution-based accessories.

QuickPort®

Leviton's extensive line of snap-in modules allows complete field-configurability for the installer. Leviton QuickPort housings, such as wallplates, MOS housings and modular furniture faceplates can be configured with a custom combination of QuickPort modules which easily snap in or out of ports.

Decora®

The original Decora QuickPort module receptive wallplate is designed to match Decora electrical outlets manufactured by Leviton.

Lifetime Performance Warranty

Leviton Voice & Data Division offers a Lifetime Performance Warranty when approved components are installed by a Leviton Certified Installer through the Certified Cabling System (CCS) program.

TIA Guidelines

The TIA, or Telecommunications Industries Association, (formerly referred to as the TIA/EIA) is the industry regulatory body which define industry standards, such as the following:

TIA-568-B:	Commercial Building Telecommunications Cabling Standard
TIA-569-B:	Commercial Building Standards for Telecommunications Pathways & Spaces
TIA-570:	Residential and Light Commercial Wiring Standard
TIA-606:	Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
TIA-607:	Telecommunications Bonding and Grounding Standard

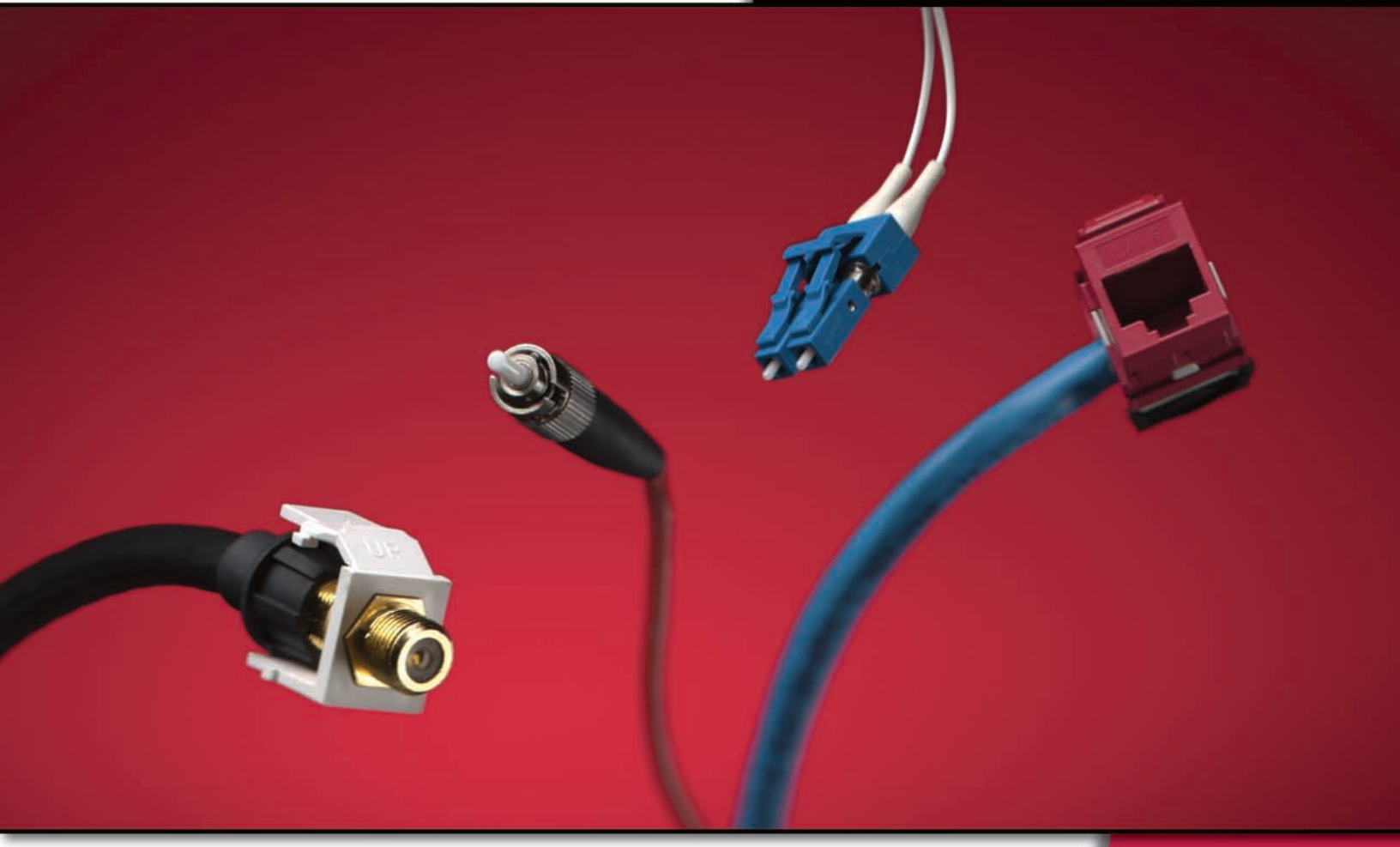
Tech Note, Features, Styles

These icons are found throughout this catalog to indicate additional information about a given product. They point out unique features and configurations, or direct you to the support section where you might find diagrams or other technical notes to help you in understanding, choosing or using Leviton products.

FEATURES
TECH NOTE
STYLES

Section A

Connectors



LEVITON
VOICE & DATA DIVISION

Connectors

All Leviton copper and fiber QuickPort connectors are designed to fit into any QuickPort style housing, including wallplates, multimedia outlets, surface mount housings, modular furniture, patch panels and mounting plates. This means you can bring optical fiber, UTP copper, speaker wire and coaxial cable together in one housing, with easy adds, moves and changes. Check out the following pages for Leviton's complete selection of high-quality, high performance copper, fiber and audio/video connectors.

Related Products

QUICKPORT DECORA MULTIMEDIA INSERTS

Add QuickPort compatibility to any Decora Wallplate *(Page B4)*.

QUICKPORT FLUSH-MOUNT WALLPLATES

Single- or dual-gang, standard and midsize wallplates in nylon, urea or stainless steel *(Page B6)*.

MULTIMEDIA OUTLET SYSTEM (MOS)

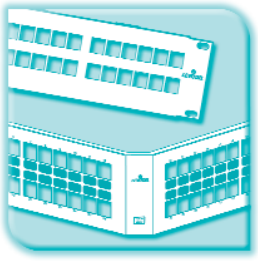
Flexible wallplate system ideal for networks with high volume adds, moves and changes *(Page B8)*.

FIBER OPTIC TOOL KITS

Fiber tool kits for SC, ST, FC, MT-RJ and LC, mechanical or epoxy connectors *(Page F4)*.

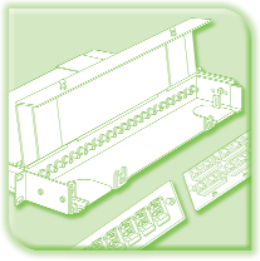
110-STYLE PUNCHDOWN TOOL

For punching down and trimming UTP Copper connectors *(Page F8)*.



QUICKPORT FIELD-CONFIGURABLE PATCH PANELS

Configure your own QuickPort patch panel *(Page C7)*.

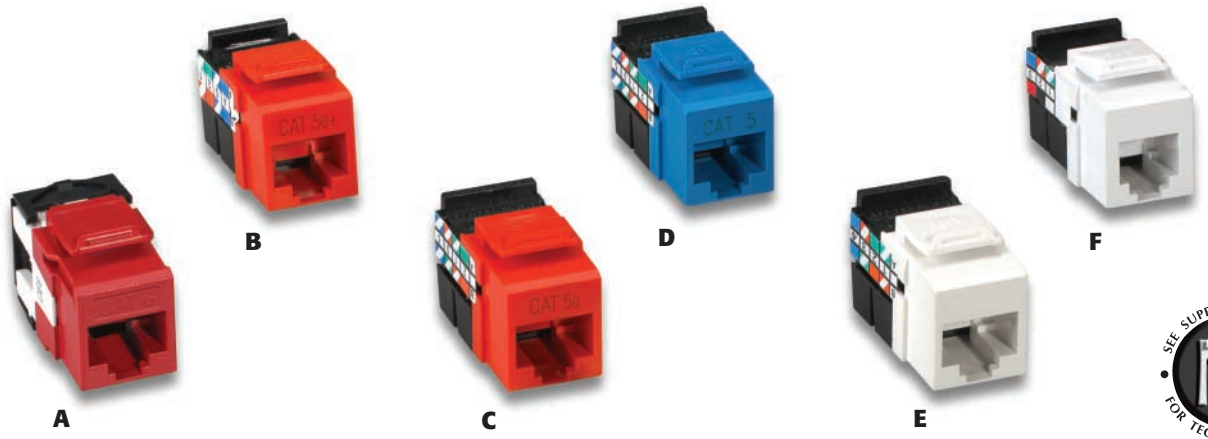


FIBER OPTIC MOUNTING PLATES AND ENCLOSURES

Feature-loaded, low cost enclosures for fiber or mixed media *(Page D3)*.

DIAGRAMS & INSTRUCTIONS

In our appendix, find step-by-step termination instructions, as well as dimensional diagrams for copper, fiber and multimedia connectors *(Section X)*.



QUICKPORT® SNAP-IN CONNECTORS FOR UTP COPPER CABLE

[A-F] The cornerstone of our superior copper structured cabling systems—eXtreme 6+, GigaMax 5e+, GigaMax 5e, Category 5 and Category 3 snap-in connectors feature dual-color-coded wiring labels with both T568A and T568B wiring patterns, for dual flexibility in a single connector, plus fast, accurate termination of station wiring.

Voice Grade Connectors are available in 6 or 8-conductor USOC styles. eXtreme Category 6+ connectors feature standard QuickPort compatibility, and a rear termination field for easy termination while installed in a wallplate or field-configurable panel. Connectors are available in 13 colors for matching or color-coding.

All modules meet or exceed industry standards. All category-rated connectors are fully compliant with published TIA-568-B requirements. All other QuickPort connectors and modules are UL certified and are fully compliant with NEC® Article 800.

Use a Leviton Field-Termination Coaster to quickly and easily punch down wires on any Leviton Category or Multimedia Connector. For more information, call Sales Support at 1-800-922-6229.

QuickPort Snap-in Connectors		
	Category 6 Connectors	**Part Number**
[A]	8-conductor eXtreme 6+ connector	61110-R*6
	Category 5e & 5e+ Connectors	
[B]	8-conductor GigaMax 5e channel-rated connector	5G108-R*5
[C]	8-conductor GigaMax 5e+ component-rated connector	5G109-R*5
	Category 5 Connectors	
[D]	8-conductor Category 5 connector	41108-R*5
	8-conductor Category 5 connector, keyed	41108-K*5
	Category 3 Connectors	
[E]	8-conductor connector	41108-R*3
	Voice Grade Connectors	
[F]	6-conductor USOC connector	41106-R*6
	8-conductor USOC connector	41108-R*8

***=Colors:** Choose from any of the colors to the right.*
***Materials:** All module bodies are fire-retardant plastic rated UL 94V-0. Connector spring contacts are the highest quality phosphor bronze, plated with 50 microinches of gold over 100 microinches of nickel for lowest contact resistance, maximum life.*

Color choices:

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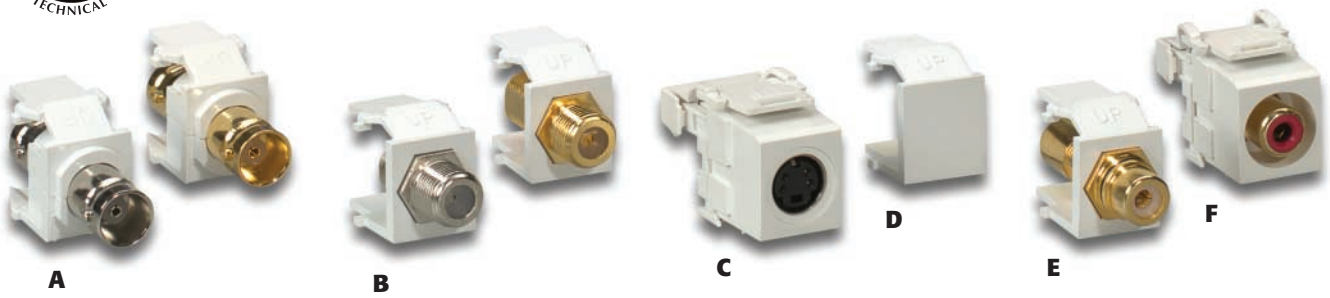


QUICKPORT® SNAP-IN ADAPTERS & CONNECTORS FOR AUDIO/VIDEO

Mix & match QuickPort Snap-In Adapters and Connectors for Audio/Video with other QuickPort connectors to create a customized multimedia center in any single- or dual-gang wallplate. Inserts require no soldering, and connections can be made with standard industry tools.

[A] BNC QuickPort Adapter: One gold-plated female-to-female connector per unit pack. Twist-on front and rear connections using BNC plugs. Applications: high-end video, home theater, CCTV, LAN. Cable: shielded video & data cable.

[B] F-Type QuickPort Adapter: One nickel or gold-plated female-to-female connector per unit pack. Screw-on front and rear connections. Applications: TV, VCR, DVD, satellite, home theater. Cable: coaxial cable terminated with "F" plugs.

[C] S-Video Connector: Run high quality S-Video over standard UTP wire. Features a standard flush-mount S-Video connector on the front and simple, field-terminable 110 punchdowns on the rear. Applications: audio/video, conference rooms, classrooms, computers, projectors. Cable: UTP Category 5, 5e or 6 cable.

[D] Blank Inserts: Cover up unused QuickPort housing openings.

[E] RCA Adapters: One black, yellow or red striped color-coded module per unit pack. Front and rear connections use RCA plugs. Applications: audio/video, home theatre. Cable: shielded audio/video cable with terminated RCA plugs.

[F] RCA-110 Connector: Run high quality audio and video over standard UTP wire. Features a standard RCA connector on the front and field-terminable 110 punchdowns on the rear. Applications: audio/video, VCR, DVD, computers and gaming consoles. Cable: UTP Category 5, 5e or 6 cable.

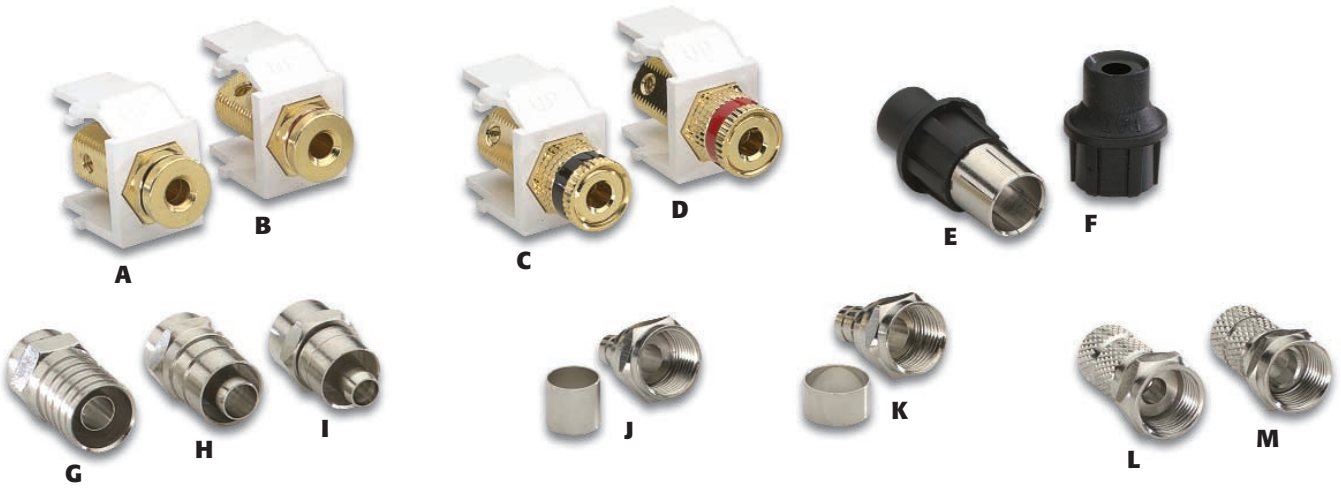
All modules meet or exceed industry standards. All QuickPort connectors and modules are UL certified, fully compliant with NEC® Article 800, and meet FCC Part 68.

Part numbers shown are for individual polybag packages in standard cartons. Some carded and contractor packs also available. Call customer service at 1-800-722-2082.

For product specifications and recommendations, please visit our web resource at www.levitonvoicedata.com/specdesign.

QuickPort® Snap-In Modules						
[A-F]	Audio/Video Adapters Ⓤ	Ivory	White	Almond	Black	Grey
[A]	BNC Adapter, nickel-plated	41084-BIF	41084-BWF	41084-BAF	41084-BEF	41084-BGF
	BNC Adapter, gold-plated	40832-BI	40832-BW	40832-BA	--	--
[B]	F-type Adapter, nickel-plated	41084-FIF	41084-FWF	41084-FAF	41084-FEF	41084-FGF
	F-type Adapter, gold-plated	40831-BI	40831-BW	40831-BA	--	--
[C]	S-Video module, 110 termination	40734-SVI	40734-SVW	40734-SVA	40734-SVE	40734-SVG
[D]	Blank Insert (pack of 10)	41084-BIB	41084-BWB	41084-BAB	41084-BEB	41084-BGB
[E]	RCA Speaker Jack, gold-plated w/black stripe	40830-BIE	40830-BWE	40830-BAE	--	--
	RCA Speaker Jack, gold-plated w/red stripe	40830-BIR	40830-BWR	40830-BAR	--	--
	RCA Speaker Jack, gold-plated w/yellow stripe	40830-BIY	40830-BWY	40830-BAY	--	--
[F]	RCA-110 Connector	40735-R*I	40735-R*W	40735-R*A	40735-R*E	40735-R*G

***= RCA-110 Connector Inner Barrel Color:** Orange(O), Red(R), White(W), Yellow(Y)*
***Materials:** All module bodies are fire-retardant plastic rated UL 94V-0.*
Part numbers shown are for individual polybag packages in standard cartons. Some carded and contractor packs also available. Call customer service at 1-800-722-2082.



QUICKPORT® SNAP-IN ADAPTERS & CONNECTORS FOR AUDIO

[A, B] Banana Jack Adapters: One black striped or one red striped color-coded module per unit pack. Screw-on rear-side connections. Front-side connections use standard banana plugs. Applications: speaker connections. Cable: speaker wire terminated with banana plugs.

[C, D] Binding Post Adapters: One black striped or one red striped color-coded module per unit pack. Screw-on rear-side connections. Optional front-side connections—either screw-on or push-in—for banana plugs, speaker tip, spade tip, or bare wire. Applications: audio speaker connections. Cable: speaker wire.

All modules meet or exceed industry standards. All QuickPort connectors and modules are UL certified, fully compliant with NEC® Article 800, and meet FCC Part 68.

Part numbers shown are for individual polybag packages in standard cartons. Some carded and contractor packs also available. Call customer service at 1-800-722-2082.

NOTE: RCA connectors (page A4) are also suitable for Video applications.

QuickPort® Snap-In Modules			
[A-D] Audio Adapters ®	**Ivory**	**White**	**Almond**
[A] Banana Jack Adapter, gold-plated w/black stripe	40837-BIE	40837-BWE	40837-BAE
[B] Banana Jack Adapter, gold-plated w/red stripe	40837-BIR	40837-BWR	40837-BAR
[C] Binding Post Adapter w/black stripe	40833-BIE	40833-BWE	40833-BAE
[D] Binding Post Adapter w/red stripe	40833-BIR	40833-BWR	40833-BAR

Materials: *All module bodies are fire-retardant plastic rated UL 94V-0.*
Part numbers shown are for individual polybag packages in standard cartons. Some carded and contractor packs also available. Call customer service at 1-800-722-2082.

PUSH-ON, TWIST-ON & CRIMP-ON F-CONNECTORS

[E, F] Push-On F-Connectors: Quick, cost-effective 75 Ohm coaxial cable terminations. Require no crimping tools. Quick and Universal versions accommodate RG-59, RG-6, and RG-6 Quad coax diameters.

[G-K] 1-Piece and 2-Piece Crimp-On F-Connectors: Terminates 75 Ohm coaxial cable with a crimp-on male F-Connector. 2-piece version with separate crimp ring, or one-piece version with crimp ring attached. Both RG-59 and RG-6 versions available. Crimping tool required.

[L, M] Twist-On F-Connectors: Twist-on male F-Connector for 75 Ohm coaxial cable. No crimping required. RG-59 and RG-6 versions.

Push-on, Crimp-on and Twist-on F-Connectors		
Description		**Part Number**
[E]	Universal F-Connector (bag of 100 with installation tool)	40985-HPC
[F]	Quick F-Connector (bag of 20 with installation tool)	40985-HPM
[G]	One-piece Crimp-on for RG-6 quad shield (bag of 100)	40985-Q6
[H]	One-piece Crimp-on for RG-59 (bag of 100)	40985-1P9
[I]	One-piece Crimp-on for RG-6 (bag of 100)	40985-1P6
[J]	Two-piece Crimp-on for RG-59 (bag of 100)	40985-2P9
[K]	Two-piece Crimp-on for RG-6 (bag of 100)	40985-2P6
[L]	Twist-On Connector for RG-59 (bag of 100)	40985-TW9
[M]	Twist-On Connector for RG-6 (bag of 100)	40985-TW6

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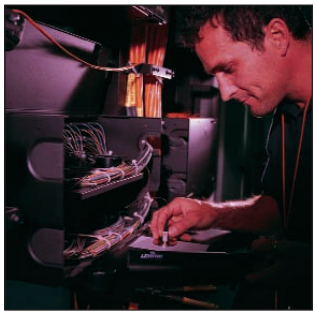


For a complete listing of Fiber Optic Tools, see the Tools section, Pages F4-F6.

FIBER OPTIC CONNECTORS & ADAPTERS

Thread-Lock® Reusable Fiber Connectors, Multimode and Singlemode

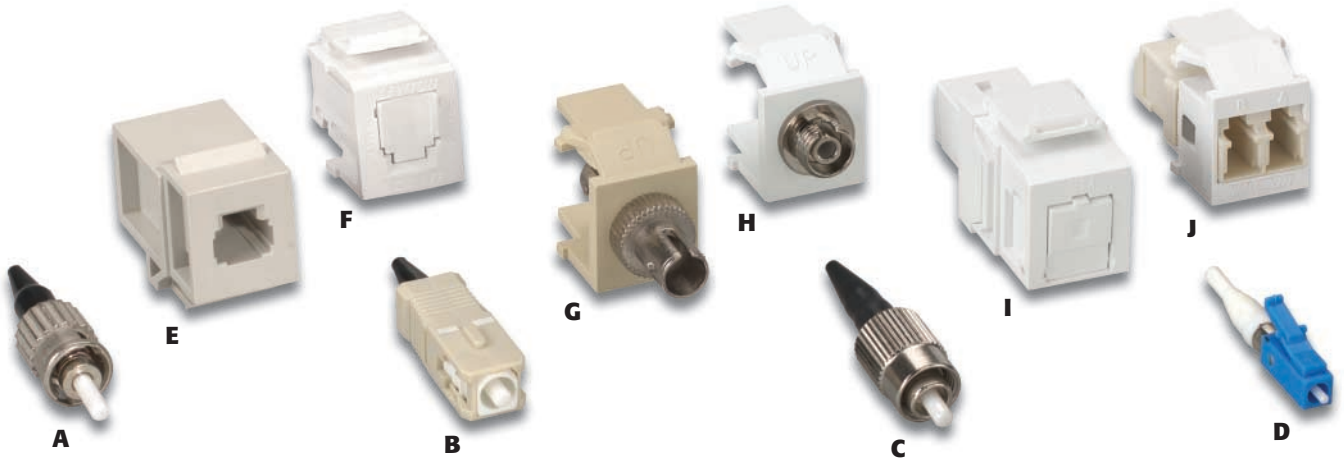
[A-C] Got two minutes? Award-winning Thread-Lock Connectors, available in SC, FC and ST® styles, are reusable, field-terminable fiber optic connectors with a simple, craft-friendly installation. Use at the frame or workstation. No heat, epoxy or proprietary tools required. Feature silicone snap-on build-up sleeves for easy installation. Available in versions for use with 62.5/125 and 50/125 multimode or singlemode fiber cable. Each box of 50 connectors includes one tightening tool.

Thread-Lock Fiber Connectors			
Description		**Singlemode**	**Multimode**
[A]	SC Thread-Lock Connector	49884-SSC (blue)	49884-MSC (beige)
[B]	FC Thread-Lock Connector	49883-SFC	49883-MFC
[C]	ST Thread-Lock Connector	49882-SST	49882-MST

Spectro-Link™ MT-RJ Fiber Connectors, Multimode

[D-E] Leviton offers two styles of dual-polarity, field-configurable MT-RJ connectors. Spectro-Link Workstation connectors offer innovative push-button fiber termination, and plug directly into our MOS adapters (see page B5). Spectro-Link Frame-Station connectors use a cam technology to lock the fiber into a terminated position for use in frame or, with adapters, in the workstation. Both feature a pre-polished ribbon fiber ferrule that eliminates polishing. Fiber can be tested and reterminated before crimping.

Spectro-Link MT-RJ Connectors		
Description		**Part Number**
[D]	Spectro-Link High-Density MT-RJ Frame-Station Connector, multimode, 62.5 µm	49888-6SF
	Spectro-Link High-Density MT-RJ Frame-Station Connector, multimode, 50.0 µm	49888-5SF
[E]	Spectro-Link High-Density MT-RJ Workstation Connector, multimode, 62.5 µm	49888-6SW
	Spectro-Link High-Density MT-RJ Workstation Connector, multimode, 50.0 µm	49888-5SW



FAST-CURE FIBER ADHESIVE CONNECTORS

ST®, FC, SC and LC Connectors

[A-D] Leviton Fast Cure adhesive connectors, available in ST, SC, FC, and LC styles, are reliable, cost-effective fiber optic connectors with quick, adhesive termination. Feature precision pre-radiused zirconia ferrules, high cable retention crimp, and patented non-optical disconnect spacer design. Available in multimode or singlemode versions.

Fast-Cure Adhesive Connectors			
Description		**Singlemode**	**Multimode**
[A]	ST Fast Cure Connector	49990-SST	49990-MST
[B]	SC Fast Cure Connector	49990-SSC	49990-MSC
[C]	FC Fast Cure Connector	49990-SFC	49990-MFC
[D]	LC Fast Cure Connector with 3mm boot	49990-SL2	49990-ML2
	LC Fast Cure Connector with .9mm boot	49990-SDL	49990-MDL

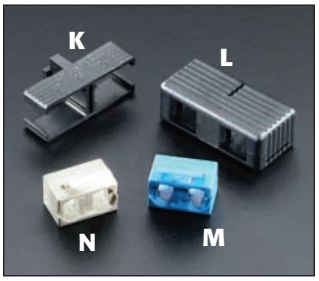
Leviton QuickPort fiber adapters fit into any Leviton QuickPort wallplate or housing, providing a high-density fiber-to-the-workstation solution, see Section B for workstation options.

QUICKPORT FIBER ADAPTERS & ACCESSORIES

[E-J] Leviton offers QuickPort adapters to bring Thread-Lock and Fast-Cure fiber to any QuickPort wallplate or housing. FC, SC, ST, LC and MT-RJ adapters, in various colors.

Fiber Adapters		
Description		**Part Number**
[E]	Spectro-Link Keystone Adapter for Frame-Station Connector, dual-polarity	49889-KMA
[F]	Spectro-Link QuickPort Frame-Station Adapter, for Frame-Station Connector	49889-QF*
[G]	ST QuickPort Fiber Optic Adapter, SM/MM, Phos. Bronze Sleeve	41084-S*P
	ST QuickPort Fiber Optic Adapter, SM/MM, Zirconia Sleeve	41084-S*Z
[H]	Simplex FC QuickPort Fiber Optic Adapter, SM/MM, Phos. Bronze Sleeve	41084-F*P
	Simplex FC QuickPort Fiber Optic Adapter, SM/MM, Zirconia Sleeve	41084-F*Z
[I]	QuickPort Multimode Simplex SC Adapter Module, Phos Bronze	41085-M*C
	QuickPort Singlemode Simplex SC Adapter Module, Zirconia Ceramic	41085-S*C
[J]	QuickPort Duplex LC Adapter, SM/MM, Phos. Bronze Sleeve	41085-ML*
	QuickPort Duplex LC Adapter, SM/MM, Zirconia Ceramic Sleeve	41085-SL*

***=Colors:** White(W), Ivory(I), Grey(G), Black(E)*



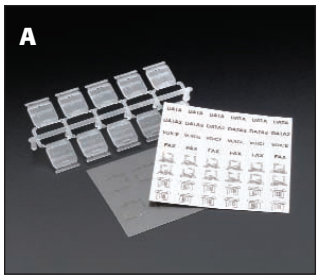
Duplex Clips		
[K]	SC Duplex Clip for Thread-Lock Connector, black (bag of 25)	49884-DPC
[L]	SC Duplex Clip for Fast-Cure Connector, black (bag of 25)	49886-DSC
[M]	LC Duplex Clip for Fast-Cure Connector, blue (bag of 25)	49886-DLS
[N]	LC Duplex Clip for Fast-Cure Connector, beige (bag of 25)	49886-DLM

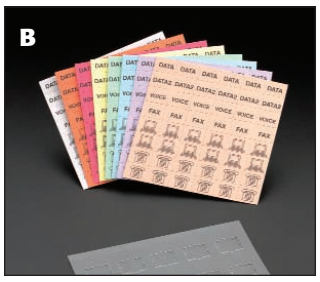
Sleeves for Thread-Lock Connectors		
[O]	Silicon Build-up Sleeve Kit, includes one of each type of BUS (bag of 10)	49885-SBS

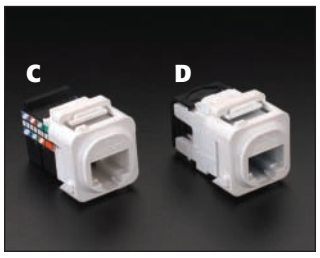
Field-installable hinged shutter protects connectors against dust and debris.

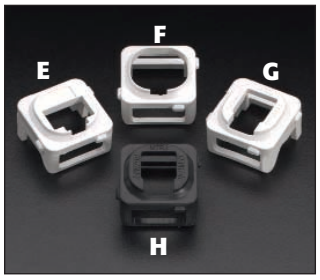
Shutters fit on Category 6, Category 5e, Category 5, Category 3 and Voice Grade 8-position connectors.

Pre-printed labels, available in accessory kits, include text (Data, Data2, Voice and Fax) and icons (Computer and Telephone) for residential and commercial applications.









QUICKPORT® SHUTTERS & ICONS

Leviton's field-installable QuickPort Shutters protect connectors from dust and debris with a unique, one-piece hinged door. Suitable for commercial and residential applications. Shutters feature labels and recessed windows, and they fit on Leviton Category 6, 5e, 5, 3 and Voice Grade connectors, when used in a QuickPort wallplate or housing. Optional label kits are available. NOTE: SHUTTERS DO NOT WORK WITH CONNECTOR INTERFACE BEZELS.

QuickPort Shutter & Icons		
Description		**Part Number**
[A]	QuickPort Shutter Kit w/Leviton logo and miscellaneous icons	51084-ICN
	Accessory Kit w/pre-printed icons on white paper	51084-XLB
[B]	Color Label Kit w/pre-printed icons on colored paper*	51084-CLB

***Color Label Kit includes:** brown, green, orange, red, blue, grey, yellow and purple.*

CONNECTOR INTERFACE BEZELS

Adapt a variety of connector styles to Clipsal and HPM wallplates with this series of snap-on bezels. 8-Pin Connector Interface Bezels are suitable for any Category 5, 5e and 6 Connectors. MT-RJ Connector Interface Bezels work with Spectro-Link Frame-Station Adapters. Multimedia Connector Interface Bezels can be used with QuickPort BNC, RCA, S-Video, Banana Jack, F-Connectors, Binding Posts, FC & ST Connectors. NOTE: BEZELS DO NOT ACCOMMODATE QUICKPORT SHUTTERS.

Connector Bezels		
Description		**Part Number**
[C]	8-Pin Connector Interface Bezel and GigaMax 5e connector (w/Leviton logo)	5G109-A*5
[D]	8-Pin Connector Interface Bezel and eXtreme 6+ connector (w/Leviton logo)	61110-A*6
[E]	8-Pin Connector Interface Bezel, white	BEZEL-WHT
[F]	Multimedia Connector Interface Bezel, white	BEZEL-MBW
[G]	MT-RJ Connector Interface Bezel, white	BEZEL-MTW
[H]	MT-RJ Connector Interface Bezel, black	BEZEL-MTE

Color choices for connector and bezel:

*White(**W**)* *Grey(**G**)* *Black(**E**)* *Orange(**O**)* *Blue(**L**)* *Crimson Red(**C**)* *Yellow(**Y**)* *Green(**V**)*

Section B

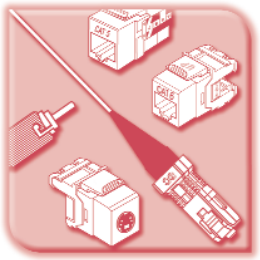
Wallplates & Housings

LEVITON®
VOICE & DATA DIVISION

Wallplates & Housings

Leviton offers a wide range of wallplate and housing solutions, from standard flush-mount plates with Quickport openings, to the modular MOS system, surface mount housings, modular furniture and preconfigured voice grade telephone wall jacks. Check out the following pages for Leviton's complete selection of workstation solutions for voice/data/audio and video connectors.

Related Products



QUICKPORT UTP COPPER CONNECTORS

High performance Category 6, 5e, 5 and 3 connectors, in 13 colors, as well as Voice Grade, and a selection of accessories *(Page A3)*.

QUICKPORT AUDIO/VIDEO MODULES

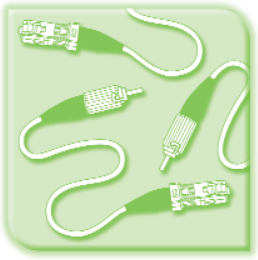
Connectors and adapters for audio and video over coaxial cable, speaker wire and UTP copper *(Page A4)*.

FIBER OPTIC CONNECTORS AND QUICKPORT ADAPTERS

Innovative, craft-friendly ST, SC, FC, MT-RJ and LC connectors, in mechanical or epoxy styles. Plus adapters to fit them to any QuickPort housing *(Page A6)*.

COPPER PATCH CORDS

Category 6, 5e and 5 patch cords, available in seven colors *(Page F4)*.

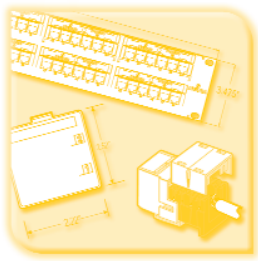


FIBER OPTIC CABLE ASSEMBLIES

Expanded line of low-cost, high-quality standard, hybrid and pigtail assemblies *(Page D8)*.

WORKSTATION CABLE MANAGEMENT

Re-usable Hook and Loop solutions to protect cables and keep work areas neat *(Page E8)*.



DIAGRAMS & INSTRUCTIONS

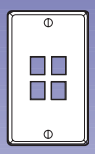
In our appendix, find step-by-step termination instructions, as well as dimensional diagrams for wallplates and housings *(Section X)*.

QUICKPORT® FLUSH MOUNT WALLPLATES & INSERTS

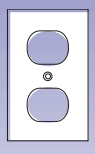
Leviton offers one of the largest selections of field-configurable, flush mount wallplates and inserts available on today's market. They provide the adaptability and performance required in a voice/data wiring interface in a sleek low-profile wallplate.

Choose from a full range of materials and styles, including: nylon, urea and stainless steel; standard and midsize; single- and dual-gang; and Decora® designer styling. All Leviton flush mount devices fit standard NEMA openings for easy installation on new or existing wallboxes.

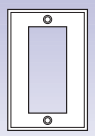
STYLES



QUICKPORT
Wallplates with standard-sized openings designed to accommodate QuickPort connectors or adapters.

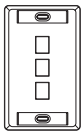


FLUSH MOUNT
Wallplates designed to fit smoothly against a wall, with a minimum profile.

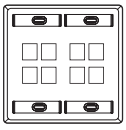


DECORA
Wallplates with standard-sized openings designed to accommodate Decora Inserts.

DECORA INSERT
Standard, Decora-sized inserts designed to adapt high and low voltage applications to a single wallplate profile.

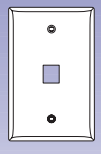


SINGLE-GANG
The standard wallplate width of 2.75″W X 4.53″H.

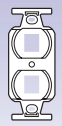


DUAL-GANG
The standard double wallplate width of 4.625″W X 4.53″H.

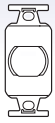
WALL JACK
A wallplate preconfigured with some kind of connector or adapter.



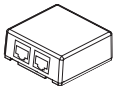
MIDSIZE
A wider (3.12″W X 4.87″H) single-gang wallplate designed to disguise flaws in drywall or provide a designer silhouette.



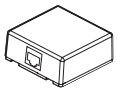
TYPE 106 (DUPLEX)
The Standard NEMA-style form, with two openings, which is most common among electrical outlets.



TYPE 105 (SINGLE)
The Standard NEMA-style form with one opening––less common than the Type 106.



TYPE 104 (DUPLEX)
A NEMA-style of surface-mount box, with two outlets or openings, common for use with telephone jacks on walls or along baseboards.



TYPE 103 (SINGLE)
Identical to the type 104 box, but featuring only one outlet.

For Decora-style S-Video and Telephone Wall Jack Inserts, see page B14-15.

QuickPort® Decora® Multimedia Inserts

[A] Combine voice, data, audio and video in one compact, attractive Decora wallplate. QuickPort Decora Wallplate Inserts offer designer style to match Leviton Decora electrical switches and outlets, with the capacity and flexibility to support high-tech communications for boardrooms or workstations. QuickPort snap-in modules fit neatly into a single gang Decora wallplate and can be combined with Decora electrical devices (with a barrier box) in a multi-gang wallplate. Simply snap in the QuickPort connectors of your choice to customize multimedia options. Compatible with all standard Decora wallplates and Decora Plus snap-on wallplates with hidden mounting screws (order plates separately, page B16) and standard NEMA openings. UL Listed and CSA Certified.

QuickPort Decora Multimedia Inserts						
Description	**Ivory**	**White**	**Grey**	**Black**	**Almond**	**Brown**
2-Port Insert	41642-I	41642-W	41642-GY	41642-E	41642-A	41642-B
3-Port Insert	41643-I	41643-W	41643-GY	41643-E	41643-A	41643-B
4-Port Insert	41644-I	41644-W	41644-GY	41644-E	41644-A	41644-B
6-Port Insert	41646-I	41646-W	41646-GY	41646-E	41646-A	41646-B

2-Port Insert/Connector Kits	Ivory	White
2-Port Insert w/two 6-conductor connectors	41666-I	41666-W
2-Port Insert w/two 8-conductor connectors	41688-I	41688-W

Note: *Order QuickPort snap-in modules on page A3-A7. Configured versions also meet FCC Part 68.*

Decora Wallplates			
Description	**Urea**	**Nylon**	**Decora Plus Snap-on**
Single-Gang Decora Wallplate	80401-*	80401-N*	80301-*
Dual-Gang Decora Wallplate	80409-*	80409-N*	80309-*
Three-Gang Decora Wallplate	80411-*	80401-N*	80311-*
Four-Gang Decora Wallplate	80412-*	80401-N*	80312-*

****= Colors:*** *(I)Ivory, (W)White, (A)Almond, (E)Black, (GY)Grey, (R)Red, no additional suffix indicates Brown*
Note: *Additional Decora wall jack ordering information can be found on page B14-B15.*

QUICKPORT SINGLE- & DUAL-GANG WALLPLATES

QuickPort® Single-Gang Multi-Port Wallplates with or without Designation Windows

[A,B] Single-gang flush mount wallplates offer field-configurable flexibility in an attractive single-piece housing. Fully compatible with all QuickPort Snap-in Modules including connectors or blank fillers. Use different color QuickPort modules for port identification, or type or hand-write labels for designation windows. All windows are field-label compatible, and cover the wallplate security screw. UL Listed, CSA Certified, and are listed in compliance with NEC Article 800.

QuickPort Single-Gang Wallplates						
Description	**Ivory**	**White**	**Grey**	**Black**	**Almond**	**Brown**
6-Port Wallplate	41080-6IP	41080-6WP	41080-6GP	41080-6EP	41080-6AP	41080-6BP
4-Port Wallplate	41080-4IP	41080-4WP	41080-4GP	41080-4EP	41080-4AP	41080-4BP
3-Port Wallplate	41080-3IP	41080-3WP	41080-3GP	41080-3EP	41080-3AP	41080-3BP
2-Port Wallplate	41080-2IP	41080-2WP	41080-2GP	41080-2EP	41080-2AP	41080-2BP
1-Port Wallplate	41080-1IP	41080-1WP	41080-1GP	41080-1EP	41080-1AP	41080-1BP

QuickPort Single-Gang Wallplates w/ Designation ID Windows					
Description	**ID Windows**	**Ivory**	**White**	**Grey**	**Black**
6-Port Wallplate	2	42080-6IS	42080-6WS	42080-6GS	42080-6ES
4-Port Wallplate	2	42080-4IS	42080-4WS	42080-4GS	42080-4ES
3-Port Wallplate	2	42080-3IS	42080-3WS	42080-3GS	42080-3ES
2-Port Wallplate	2	42080-2IS	42080-2WS	42080-2GS	42080-2ES
1-Port Wallplate	1	42080-1IS	42080-1WS	42080-1GS	42080-1ES

Note: *Housings are sold empty. Snap-in Connectors must be ordered separately. (See page A3-A7.)*

QuickPort® Dual-Gang Multi-Port Wallplates with Designation Windows

[C] Dual-gang flush mount wallplates with designation windows are designed in a single-piece housing and a wide choice of port counts for maximum density. Field configure with any combination of QuickPort Snap-in Modules. Use different color QuickPort modules for port identificaion, or type or hand-write labels for designation windows. All windows are field-label compatible, and cover the wallplate security screw. QuickPort wallplates are UL Listed, CSA Certified, and are listed in compliance with NEC Article 800.

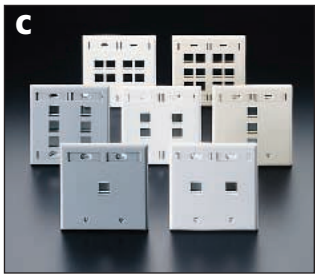
QuickPort Dual-Gang Wallplates With Designation ID Window					
Description	**No. of ID Windows**	**Ivory**	**White**	**Grey**	**Black**
12-Port Wallplate	4	42080-12I	42080-12W	42080-12G	42080-12E
8-Port Wallplate	4	42080-8IP	42080-8WP	42080-8GP	42080-8EP
6-Port Wallplate	4	42080-6IP	42080-6WP	42080-6GP	42080-6EP
4-Port Wallplate	4	42080-4IP	42080-4WP	42080-4GP	42080-4EP
3-Port Wallplate	2	42080-3IP	42080-3WP	42080-3GP	42080-3EP
2-Port Wallplate	2	42080-2IP	42080-2WP	42080-2GP	42080-2EP
1-Port Wallplate	2	42080-1IP	42080-1WP	42080-1GP	42080-1EP

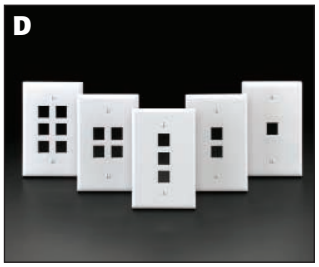
Note: *Housings are sold empty. Snap-in Connectors must be ordered separately. (See page A3-A7.)*

Midsize QuickPort® Wallplates

[D] Midsize wallplates provide QuickPort modularity with .375" more coverage than standard wallplates. Expanded silhouette provides designer look and easily hides irregular drywall cuts or flaws around outlets. The 4.875" x 3.125" plate is .375" wider and taller, and matches Leviton's Midsize Wallplates for electrical devices and lighting controls. .25" depth ensures a clean fit with various devices. Crafted from durable, smooth-finish nylon, wallplates fit a single-gang electrical box. UL listed and CSA certified.

QuickPort Midsize Single-Gang Wallplates, Nylon				
Description	**Ivory**	**White**	**Almond**	**Brown**
6-Port Midsize QuickPort Wallplate, Nylon	41091-6IN	41091-6WN	41091-6AN	41091-6BN
4-Port Midsize QuickPort Wallplate, Nylon	41091-4IN	41091-4WN	41091-4AN	41091-4BN
3-Port Midsize QuickPort Wallplate, Nylon	41091-3IN	41091-3WN	41091-3AN	41091-3BN
2-Port Midsize QuickPort Wallplate, Nylon	41091-2IN	41091-2WN	41091-2AN	41091-2BN
1-Port Midsize QuickPort Wallplate, Nylon	41091-1IN	41091-1WN	41091-1AN	41091-1BN





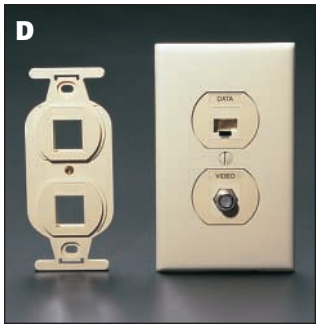
Professional-looking port identification is fast and simple with pre-printed labels, sold on page B20. These labels can be used on all Leviton workstation products.

A

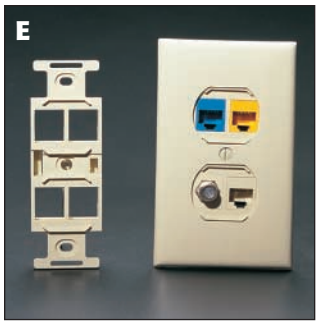
B

C

D



E



F

NOTE: Wallplate included with each QuickPort Floor Jack Insert.

QUICKPORT STAINLESS STEEL WALLPLATES

QuickPort® Stainless Steel Single-Gang and Dual-Gang Wallplates

[A-B] Leviton's single-gang and dual-gang QuickPort® Stainless Steel Wallplates provide elegant designer styling, and accept any QuickPort snap-in copper/fiber connector or adapter. Ideal in environments that demand a more durable, sanitary, easy-to-clean solution. Use different color QuickPort modules for port identification. Fit standard NEMA electrical boxes. cULus Listed, meet FCC Part 68, and are listed in compliance with TIA/EIA-568-B.

QuickPort Stainless Steel Wallplates							
Description	**1-Port**	**2-Port**	**3-Port**	**4-Port**	**6-Port**	**8-Port**	**12-Port**
Single-Gang	43080-1S1	43080-1S2	43080-1S3	43080-1S4	43080-1S6	--	--
Dual-Gang	--	43080-2S2	--	43080-2S4	43080-2S6	43080-2S8	43080-S12

Note: *Housings are sold empty. Snap-in Connectors must be ordered separately. (See page A3-A7.)*

QuickPort® Stainless Steel Wallphone Wallplates

[C] Bring Stainless Steel elegance to your wallphone. Easily mount any standard wallphone on this sturdy, standard-sized wallplate with durable rivets. Single port accepts any Leviton QuickPort Connector. Recessed design fits cleanly with slide-rail mechanisms.

QuickPort Stainless Steel Wallplates	
Description	**Part Number**
Stainless Steel Wallphone Wallplate, recessed	4108W-1SP
Stainless Steel Wallphone Wallplate	4108W-0SP

Note: *Leviton also offers Voice-Grade Wall Phone Jacks. (See page B15.)*

QUICKPORT WALLPLATE INSERTS

QuickPort® Duplex/Quad 106 Insert

[D, E] The QuickPort Duplex and Quad 106 Units are ideal for applications where two or four individual modular ports are desired, within the standard '106/NEMA-style' outline that prevails among electrical outlets. Accepts all QuickPort Snap-in Modules and fits standard NEMA wallboxes and most floor boxes and monuments. A recess above each module port on the Duplex 106 Unit accommodates Leviton Designation Labels (page B20) or hand-written port ID. Uses standard duplex wallplates (sold separately, page B12). UL & CSA listed and NEC Article 800 compliant

QuickPort Duplex 106 Insert				
Description	**Ivory**	**White**	**Grey**	**Black**
QuickPort Duplex 106 Insert only	41087-2IP	41087-2WP	41087-2GP	41087-2EP
QuickPort Quad 106 Insert only	41087-QIP	41087-QWP	41087-QGP	41087-QEP

Note: *Inserts are sold empty. Snap-in Connectors must be ordered separately. (See page A3-A7.)*
Note: *Floor monuments shown for illustration only, and are not part of the Leviton product line.*

QuickPort® Floor Jack Insert

[F] Rugged and fully field-configurable, this device provides point-of-use connectivity for a broad range of applications where convenience or building requirements dictate the use of a floor-mounted communications outlet. Each floorplate is made of .06" thick solid brass to hold up under heavy furniture or foot traffic. When not in use, a flush-fitting brass screw cap keeps internal components free from dirt and dust.

The two individual ports are configured easily with any combination of QuickPort Snap-in Modules. QuickPort floor jacks will fit standard metal boxes 3" x 2", 3" x 2 1/8" and larger.

QuickPort Duplex Floor Jack Insert w/ Brass Plate & Screw Cap	
Description	**Part Number**
Insert with one F-connector, one blank module, and brass plate w/cap	41650-F
Insert with one 6-conductor connector, one blank module, and brass plate w/cap	41650-6
Insert with one blank module and brass plate w/cap	41652
Insert with two 6-conductor jacks and brass plate w/cap	41652-6
Insert with one 6-conductor connector, one F-connector, and brass plate w/cap	41652-6F

QuickPort® furniture faceplates come in many styles to fit all major modular furniture brands.

Steelcase 9000® Series

Herman Miller Ethospace® Baseline series (shown with 49900-SE4 and Herman Miller's "Reducer" G1189A)

Haworth® Panels

QUICKPORT® MODULAR FURNITURE FACEPLATES

Bring a simple snap-in installation, attractive streamlined appearance and easy identification to your modular furniture environments. QuickPort Modular Furniture Faceplates accept all QuickPort Snap-In Modules—supporting virtually any application—and snap easily and snugly into standard modular furniture. Features faceplate windows with clear plastic covers that allow easy insertion of ID labels. Labor-saving QuickPort jack design and tool-less plate installation simplifies installations, adds, moves and changes, and allows access to the connectors without removing the furniture channel cover. Available in 2- and 4-port versions, and in four colors: ivory, white, grey and black. cULus Listed and CSA Certified.

Standard Modular Furniture Faceplates with ID Windows

Description	Part #	Herman Miller	Steelcase	Haworth	HON	Others
2-Port	49910-S*2	✔	✔	✔	✔	✔
4-Port (w/1 blank)	49910-S*4	✔	✔	✔	✔	✔
4-Port Extended-depth† (w/1 blank)	49910-E*4	✔	✔	✔	✔	✔

Note: Standard modular furniture faceplates above fit openings of approximately 1 $^{3}/_{8}$" x 2 $^{5}/_{8}$".

†4-port extended plate provides 1/2" added depth (3/4" total) for installation into shallow raceway channels, e.g., some powered channels.
✔ Compatible when used with Herman Miller G1189A Reducer available from Herman Miller dealers.

Herman Miller Modular Furniture Faceplates

Description	Part #	Herman Miller	Steelcase	Haworth	HON	Others
2-Port HM Faceplate	49910-H*2	✔	––	––	––	––
4-Port HM Faceplate (with 1 Blank)	49910-H*4	✔	––	––	––	––

Note: Herman Miller faceplates above fit openings of approximately 1.88" x 2.98".

†Fits most Herman Miller furniture including Action Office I, II, III and Ethospace Baseline. To ensure compatibility with specific models call Applications Engineering.
***=Color choices:** Ivory (I), White (W), Grey (G), Black (E)*
***Materials:** High-impact fire-retardant plastic rated UL 94V-0.*

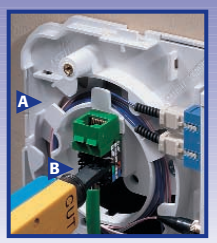
QUICKPORT® MULTIMEDIA OUTLET SYSTEM (MOS)

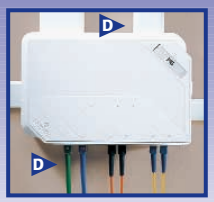
The innovative QuickPort Multimedia Outlet System is designed to provide the highest level of application and installation flexibility for fiber optic and twisted-pair connectivity. It consists of a surface mount box and single- and dual-gang wallplates, which accept QuickPort simplex snap-in modules, plus a variety of duplex fiber optic bulkhead modules.

The MOS line is distinguished from other QuickPort housings by several features: front-load installation capability so that changes can be made without dismantling the entire device; duplex modules and fiber coupling types for SC, ST, MT-RJ and other applications; the addition of S-video and RCA adapters for high-definition audio/video; and design elements for enhanced routing, storage and bend radius protection of fiber and copper cabling. See individual product descriptions for more features.

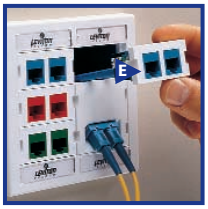
For product specifications and recommendations, please visit our web resource at www.levitonvoicedata.com/specdesign.

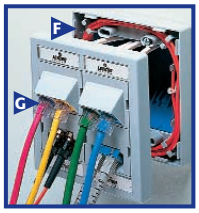
FEATURES





- **A** Multiple connector termination stations provide stabilized punchdown support.
- **B** Leviton's exclusive dual rings store the fiber loop and provide multiple straight paths to each port.
- **C** Single latch cover with security option restricts access if desired.
- **D** Multi-directional mounting and raceway access allow complete installation flexibility.





- **E** Front-loading inserts simplify configuration, while strong latches keep them in place during use.
- **F** Fiber storage/spacer ring fits between wallbox/mud ring and MOS dual-gang plate for fiber loop storage and management.
- **G** 45° angled jack insert optimizes bend radius compliance of cable exiting QuickPort® snap-in connectors.
- **H** Load up to 12 devices in a dual-gang wallplate.

QuickPort® Multimedia Outlet System (MOS)

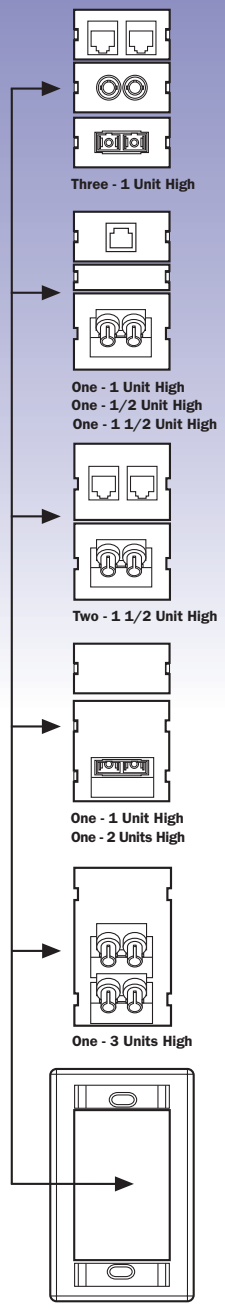
MOS Surface Mount Box and Wallplates	Part Number
6-Port Surface Mount Box	41296-MM*
Single-Gang Wallplate	41290-SM*
Dual-Gang Wallplate	41290-DM*
Fiber Storage/Spacer Ring	41290-DR*

MOS Inserts for Surface Mount Boxes and Wallplates	Part Number
2-Port QuickPort Adapter, flush, (1 unit high)	41291-2Q*
1-Port QuickPort Adapter, flush, (1 unit high)	41291-1M*
1 S-video Insert Module, (1 unit high)	41291-1V*
1 RCA Insert Module, 2-port, screw terminal (1 unit high)	41291-1R*
1 RCA Insert Module, 3-port, female-to-female adapters (1 unit high)	41292-3R*
1 HD-15 Insert Module, female-to-female (1 unit high)	41293-HD*
1 Duplex ST® Coupling, (1 unit high) (phos. bronze sleeve)	41291-2T*
1 Duplex ST® Coupling, (1 unit high) (zirconia ceramic sleeve)	41291-ZT*
1 Duplex FC Coupling (1 unit high) (phos. bronze sleeve)	41291-PF*
1 Duplex FC Coupling (1 unit high) (zirconia ceramic sleeve)	41291-ZF*
1 Duplex SC Coupling (1 unit high) (phos. bronze sleeve)	41291-PC*
1 Duplex SC Coupling (1 unit high) (zirconia ceramic sleeve)	41291-2C*
Blank Module (1 unit high)	41291-1B*

MOS Inserts for use with MOS Wallplates	Part Number
2-Port QuickPort Adapter, 45˚ exit (1.5 units high)	41294-2Q*
Blank Module (0.5 unit high)	41295-5B*
Blank Module (1.5 units high)	41294-2B*
Blank Module (2 units high)	41292-2B*
1 Duplex ST® Coupling 45˚ exit, SM/MM (1.5 units high) (phos. bronze sleeve)	41294-2T*
1 Duplex ST® Coupling 45˚ exit, SM/MM (1.5 units high) (zirconia ceramic sleeve)	41294-ZT*
1 Duplex FC Coupling 45˚ exit, SM/MM (1.5 units high) (phos. bronze sleeve)	41294-PF*
1 Duplex FC Coupling 45˚ exit, SM/MM (1.5 units high) (zirconia ceramic sleeve)	41294-ZF*
1 Duplex SC® Coupling 45˚ exit, SM/MM (1.5 units high) (phos. bronze sleeve)	41294-PC*
1 Duplex SC® Coupling 45˚ exit, SM/MM (1.5 units high) (zirconia ceramic sleeve)	41294-2C*
1 Duplex ST® Coupling 45˚ exit, SM/MM (2 units high) (phos. bronze sleeve)	41292-2T*
1 Duplex ST® Coupling 45˚ exit, SM/MM (2 units high) (zirconia ceramic sleeve)	41292-ZT*
1 Duplex FC Coupling 45˚ exit, SM/MM (2 units high) (phos. bronze sleeve)	41292-PF*
1 Duplex FC Coupling 45˚ exit, SM/MM (2 units high) (zirconia ceramic sleeve)	41292-ZF*
2 Duplex SC® Coupling 45˚ exit, SM/MM (2 units high) (phos. bronze sleeve)	41292-PC*
2 Duplex SC® Coupling 45˚ exit, SM/MM (2 units high) (zirconia ceramic sleeve)	41292-2C*
2 Duplex ST® Coupling 45˚ exit, SM/MM (3 units high) (phos. bronze sleeve)	41293-4T*
2 Duplex ST® Coupling 45˚ exit, SM/MM (3 units high) (zirconia ceramic sleeve)	41293-ZT*
2 Duplex FC Coupling 45˚ exit, SM/MM (3 units high) (phos. bronze sleeve)	41293-PF*
2 Duplex FC Coupling 45˚ exit, SM/MM (3 units high) (zirconia ceramic sleeve)	41293-ZF*
2 Duplex SC® Coupling 45˚ exit, SM/MM (3 units high) (phos. bronze sleeve)	41293-PC*
2 Duplex SC® Coupling 45˚ exit, SM/MM (3 units high) (zirconia ceramic sleeve)	41293-4C*

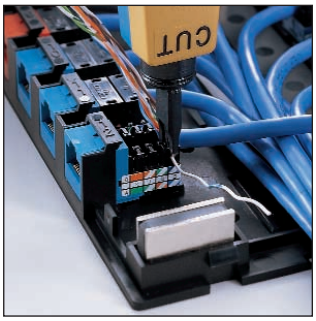
STYLES

Configurations for MOS Wallplates



=Colors:
Ivory (I)
White (W)
Grey (G)
Black (E)

Materials:
High-impact, fire-retardant, plastic rated UL 94V-0.



In-port connector termination stations provide stability during punchdown.

A 4-, 6- and 12-port housing feature raceway knockouts on all non-ported sides which are compatible with major raceway brands.

B 4-, 6- and 12-port surface-mount housings are compatible with Leviton's modular furniture mounting brackets and magnets (see page B20).

C Port identification areas reside next to numbered ports.

D Designation window accepts hand-written indications, field-printed labeling systems or Leviton pre-printed port ID labels (see page B20).

For large installations, silkscreen the cover with words, numbers, icons or company logos. Call Applications Engineering for advice on artwork and minimum quantity requirements.

QUICKPORT® SURFACE MOUNT HOUSINGS

Leviton's surface mount housings offer fast, economical installation and field configuration for applications where it may not be practical to add a wallbox, such as modular furniture environments or retrofit situations. As with all QuickPort field-configurable products, you configure the housing to your specific needs using Snap-In Modules—easily rearranged if applications change. These housings can be adapted for mounting on all types of surfaces, including walls and furniture with tape or screws (both included); modular furniture with a modular furniture bracket (page B20); or to metal surfaces with magnets (page B20).

QUICKPORT® 1, 2-, 4-, 6- & 12-PORT SURFACE MOUNT HOUSINGS

[A-E] Leviton has a surface mount housing to suit your need. 1-, 2-, 4-, 6- and 12-Port housings are easily field configured with QuickPort Snap-in Modules (sold separately, page A3-A7). The 2-port version comes with a blank filler to cover and protect one unused opening. The 4- and 6-port housings are sized to completely cover a single-gang NEMA wallbox opening, while the 12-port fits over a single- or dual-gang NEMA box opening. Housings contain knockouts to accommodate raceway and cable entry, with built-in strain relief to assure undisturbed connections, and easy cover latches allow for easy adds, moves and changes.

All housings can be mounted with screws or adhesive mounting tape (both provided), or with magnets or modular furniture brackets (sold separately on page B20). Identify ports and stations by using ample space next to each port or the designation window. All housings are UL Listed and compliant with NEC Article 800.

QuickPort® Surface Mount Housings	
Description	**Part Number**
[A] 1-Port Surface Mount Housing	41089-1*P
[B] 2-Port Surface Mount Housing (includes 1 blank module)	41089-2*P
[C] 4-Port Surface Mount Housing	41089-4*P
[D] 6-Port Surface Mount Housing	41089-6*P
[E] 12-Port Surface Mount Housing	41089-12*

***=Color choices:** Ivory(I), White(W), Grey(G), Black(E)*
***Materials:** High-impact fire-retardant plastic rated UL 94V-0.*
***Note:** Snap-In Modules must be ordered separately. (See page A3-A7)*
Leviton also offers Pre-configured Voice-Grade Surface Mount Jacks. (See page B18)

STANDARD WALLPLATES

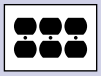
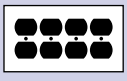
The wallplates on these two pages are those most commonly used in communications wiring installations, and in particular with the QuickPort® Quad 106®, Duplex 106, and QuickPort Decora® Multimedia Inserts.

These wallplates are selected from an inventory of thousands in many sizes, colors and materials. If the wallplate solution you need is not included on these pages, it may exist in our complete wallplate catalog—call Leviton Customer Service at 1(800) 323-8920.

Single Receptacle

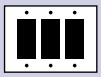
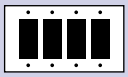
Materials:		Urea	Nylon	Metal	
Description	Color	Part Number	Part Number	Type	Part Number
	Ivory	86004	80704-I	Aluminum	83004
	Black	—	80704-E	Brass	81004
One Gang Plate	Grey	87004	80704-GY	302 S/S	84004-40
(1 Single, 1.406" Opening)	Red	—	80704-R		
	White	88004	80704-W		

Duplex Receptacle

Materials:		Urea	Nylon	Metal	
Description	Color	Part #	Part #	Type	Part Number
	Ivory	86003	80703-I	Aluminum	83003
	Black	—	80703-E	Brass	81003
	Grey	87003	80703-GY	430 S/S	84003
Single-Gang Plate	Red	—	80703-R	302 S/S	84003-40
(1 Duplex)	White	88004	80703-W		
	Brown	85003	80703		
	Ivory	86016	80716-I	Aluminum	83016
	Black	—	80716-E	Brass	81016
	Grey	87016	80716-GY	430 S/S	84016
Dual-Gang Plate	Red	—	80716-R	302 S/S	84016-40
(2 Duplex)	White	88016	80716-W		
	Brown	85016	80716		
	Ivory	86030	—	Aluminum	Call for Info.
	Black	—	—	Brass	Call for Info.
	Grey	—	—	430 S/S	—
Three Gang Plate	Red	—	—	302 S/S	84030-40
(2 Duplex)	White	88030	—		
	Brown	85030	—		
	Ivory	86041	—	Aluminum	Call for Info.
	Black	—	—	Brass	Call for Info.
	Grey	—	—	430 S/S	84041
Four Gang Plate	Red	—	—	302 S/S	—
(4 Duplex)	White	88041	—		
	Brown	85041	—		

**Call for wallplate information: 1 (800) 323-8920*

Decora/GFCI Fits all Decora Devices and GFCIs

Materials:		Urea	Nylon	Decora Plus®	Metal	
Description	**Color**	**Part #**	**Part #**	**Snap-On**	**Type**	**Part #**
 **Single-Gang Plate** *(1 Decora)*	Ivory	80401-I	80401-NI	80301-I	Aluminum	83401
	Black	80401-E	–	80301-E	Brass	81401
	Grey	80401-GY	80401-NGY	80301-GY	Polish. Brass	81401-PB
	Red	–	80401-NR	80301-R	302 S/S°	84401-40
	White	80401-W	80401-NW	80301-W	430 S/S°	–
	Brown	80401	80401-N	80301		
	Almond	80401-A	–	80301-A		
 **Dual-Gang Plate** *(2 Decora)*	Ivory	80409-I	80409-NI	80309-I	Aluminum	83409
	Black	80409-E	–	80309-E	Brass	81409
	Grey	80409-GY	80409-NGY	80309-GY	Polish. Brass	81409-PB
	Red	–	80409-NR	80309-R	302 S/S°	84409-40
	White	80409-W	80409-NW	80309-W	430 S/S°	–
	Brown	80409	80409-N	80309		
	Almond	80409-A	–	80309-A		
 **Three Gang Plate** *(3 Decora)*	Ivory	80411-I	80411-NI	80311-I	Aluminum	83411
	Black	80411-E	–	80311-E	Brass	81411
	Grey	80411-GY	80401-NGY	80311-GY	Polish. Brass	81411-PB
	Red	–	80401-NR	80311-R	302 S/S°	84411-40
	White	80411-W	80401-NW	80311-W	430 S/S°	–
	Brown	80411	80401-N	80311		
	Almond	80411-A	–	80311-A		
 **Four Gang Plate** *(4 Decora)*	Ivory	80412-I	80412-NI	80312-I	Aluminum	–
	Black	80412-E	–	80312-E	Brass	–
	Grey	80412-GY	–	80312-GY	430 S/S°	–
	Red	80412-R	–	80312-R	302 S/S°	84412-40
	White	80412-W	80401-NW	80312-W		
	Brown	80412	–	80312		
	Almond	80412-A	–	80312-A		

Standard Combinations, Blank Plates, Split Plates

Materials:		Urea	Nylon	Metal	
Description	**Color**	**Part #**	**Part #**	**Type**	**Part #**
 **Dual-Gang Plate** *(1 Duplex, 1 Decora/GFCI)*	Ivory	80455-I	–	Aluminum	–
	Black	–	–	Brass	–
	White	80455-W	–	430 S/S°	–
	Brown	80455	–	302 S/S°	84455-40
	Almond	80455-A	–	–	–
 **Dual-Gang Plate** *(1 Duplex, 1 Blank, Box Mount)*	Ivory	86008	N138-I	–	–
	White	88008	N138-W	–	–
	Brown	85008	–	–	–
 **Single-Gang Blank** *(1 Duplex, 1 Blank, Box Mount)*	Ivory	86014	80714-I	Aluminum	–
	White	88014	80714-W	Brass	–
	Grey	87014	80714-GY	302 S/S°	84014-40
 **Dual-Gang Blank** *(2 -Gang, 2 Blanks, Box Mount)*	Ivory	86025	80725-I	–	–
	White	88025	80725-W	–	–
	Grey	87025	80725-GY	–	–

Split Plate (.406 round hole)

	Ivory	–	N751-I	302 S/S	S751-N
	White	–	N751-W	–	–

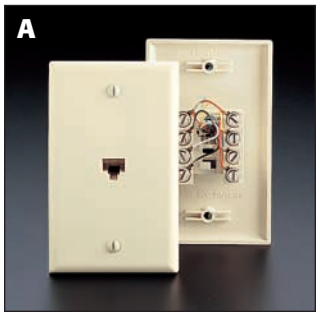
**Call for weather resistant covers, midsized wallplates, and oversized wallplates: 1(800) 323-8920*

° 302 S/S = non-magnetic, 430 S/S = magnetic

FEATURES

You can count on Leviton wallplates for quality and durability:

- Listed by Underwriters Laboratories, Inc.
- Certified by Canadian Standards Association.
- Meet current Federal Specifications as tested to UL 514.
- Conforms to NEMA and ANSI Standards.
- Non-combustible.
- Easily cleaned.
- Supplied with metal mounting screws matched to plate color.
- Individually wrapped, with mounting screws enclosed in an internal envelope to prevent scratching the plate.
- Configurations available in standard, mid-way, oversize, and extra deep dimensions.
- Premium Industrial Specification Grade and Commercial Specification Grade 10-Year Warranty where applicable.



STANDARD TELEPHONE/VIDEO WALL JACKS

Type 625B4 Modular Wall Jack

[A] Includes jack, plate, and mounting hardware. Fits standard NEMA wallboxes. Screw terminals. UL Listed and CSA Certified.

Type 625B4 Modular Wall Jack - Smooth Finish							
	Standard Plate				Midsize Plate		
Description	Brown	Ivory	White	Almond	Brown	Ivory	White
6-Position, 4-Conductor	40249†	40249-I†	40249-W†	40249-A	40549	40549-I	40549-W
6-Position, 6-Conductor	–	40238-I†	40238-W†	–	–	40538-I	40538-W
8-Position, 8-Conductor	–	40280-I	40280-W	–	–	40580-I	40580-W

Type 625B4 Modular Wall Jack - Smooth Finish, alternative construction (not shown)					
Description	Ivory	White	Grey	Almond	Brown
6-Position, 4-Conductor	4625B-44I	4625B-44W	4625B-44G	4625B-44A	4625B-44
6-Position, 6-Conductor	4625B-46I	4625B-46W	4625B-46G	–	–
8-Position, 8-Conductor	4625B-48I	4625B-48W	–	–	–

Note: *Robertson/Slot Drive screws available for 4625B series, call customer service for ordering information.*
† These products are UL Listed only.

Type 625D F-Connector Wallplates

[B] F-Connector wallplates have one or two F-Connectors. Wallplates have a smooth finish. UL Listed and CSA certified.

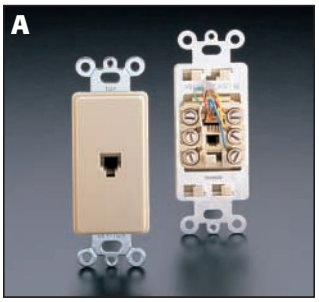
F-Connector Wallplate			
Description	Ivory	White	Almond
[B] Flush-Mount Single F-Connector	80781-I	80781-W	80781-A
Flush-Mount Duplex F-Connector	80782-I	80782-W	80782-A

Type 625D Combination Wall Jacks and F-Connector Wallplates

[C] The Type 625D jacks include one modular jack (with screw terminals) for voice, and one F-connector for cable TV or other video applications u sing RG6 or RG59 coax. UL Listed and CSA Certified.

Type 625D Combination Wall Jacks and F-Connector Wallplates				
Description	Ivory	White	Grey	Almond
6-Position, 4-Conductor and F-Connector	40259-I	40259-W	40259-G	40259-A
6-Position, 6-Conductor and F-Connector	40258-I	40258-W		

DECORA TELEPHONE WALL JACK INSERTS



Decora Modular Single or Duplex Wall Jack Inserts

[A] These single or duplex flush-mount voice-grade connectors fit in Leviton's popular Decora line of devices. Screw terminals. Includes matching Decora wallplate.

Decora Modular Wall Jack		
Description	**Ivory**	**White**
Decora Single Modular Wall Jack, 6-position 4-conductor	40949-ID	40949-WD
Decora Duplex Modular Wall Jack, 6-position 4-conductor	40944-ID	40944-WD

Type 625 Decora Modular Wall Jacks

[B] Single flush mount jack for use with Decora or Decora Plus wallplates. Mount in standard or multi-gang electrical box. Screw terminals. UL Listed and CSA Certified.

Type 625 Decora Modular Wall Jack						
Description	**Ivory**	**White**	**Grey**	**Brown**	**Almond**	**Black**
6-position 4-conductor	40649-I	40649-W	40649-GY	40649	40649-A	40649-E
6-position 6-conductor	40638-I	40638-W	40638-GY	40638	--	--
8-position 8-conductor	40680-I	40680-W	40680-GY	40680	--	--

Decora TV/Phone Combination Jack

[C] Combination jack with 4-Conductor modular jack for UTP telephone connections and F-Connector for video (coaxial cable) connections. Includes matching Decora wallplate.

Decora TV/Phone Combination Jack		
Description	**Ivory**	**White**
Decora TV/Phone Combination Jack, 6-position 4-conductor	40959-ID	40959-WD

MIDSIZE TELEPHONE WALL JACKS

Midsize Wall Jacks

[D] Midsize wall jacks provide a larger silhouette for a more designer look, and to easily hide irregular drywall cuts. Choose a voice grade connector for UTP cable or an F-connector (filled or empty) for coaxial cable. Crafted from durable, UV-resistant nylon.

QuickPort Midsize Wallplates	
Description	**Part Number**
Midsize Video Wallplate with F-Connector	40539-0M*
Midsize Video Wallplate without F-Connector (hexagonal opening only)	40539-HM*
Midsize Phone Wallplate with 6P4C Voice Grade Connector	40539-PM*

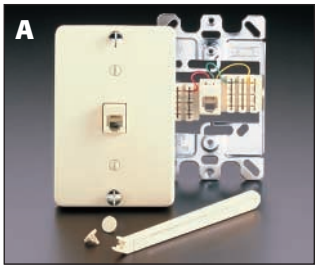
***= Color:** *(I)Ivory, (W)White, (A)Almond, (B)Brown*

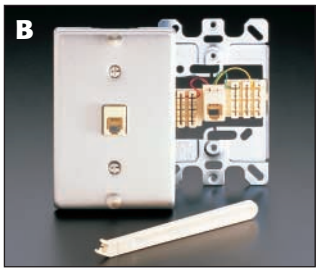
Type 625B3 Midsize Duplex Wall Jack

These smooth finish midsize units include 2 jacks, wallplate and mounting hardward. Wire to provide the same dialtone on both jacks or separate lines. Screw terminals. UL Listed & CSA Certified.

Type 625B3 Duplex Wall Jack		
Description	**Ivory**	**White**
Type 625B3 Duplex Wall Jack, 6-position 4-conductor, Midsize Plate	40544-I	40544-W
Type 625B3 Duplex Wall Jack, 6-position 6-conductor, Midsize Plate	40566-I	40566-W
Type 625B3 Duplex Wall Jack, 8-position 8-conductor, Midsize Plate	40588-I	40588-W

TELEPHONE WALL PHONE JACKS





Type 630A Quick-Connect Wall Phone Jack with Plastic Wallplate

[A] Features quick-connect terminals, screw-on wallplate, metal bracket, mounting lugs, and installation tool. Removable lugs and color-matched plastic inserts (included) permit conversion from wall phone jack to flush mount jack. UL Listed and CSA Certified.

Type 630A Quick-Connect Jack with Plastic Wallplate				
Description	**Ivory**	**White**	**Grey**	**Almond**
6-Position, 4-Conductor	40253-I	40253-W	40253-GY	40253-A
6-Position, 6-Conductor	40263-I	40263-W	—	—

Type 630A Quick-Connect Wall Phone Jack with Stainless Steel Wallplate

[B] Includes 4-or 6-conductor jack with screw terminals, stainless steel screw-on wallplate. mounting screws and installation tool.

Type 630A Quick-Connect Jack with Stainless Steel Wallplate	
Description	**Stainless Steel**
6-Position, 4-Conductor w/ QuickPort terminations	40223-S
6-Position, 6-Conductor w/ screw terminations	40226-S

Wall Phone Jack

[C] Single phone jack for standard wall phone. Four color-coded screw-down connections.

Wall Phone Jack			
Description	**Ivory**	**White**	**Almond**
Wall Phone Jack	40914-I	40914-W	40914-A

Stainless Steel Wall Phone Jack

[D] Stainless steel cover with quick-connect, punch-down wires. Four color-coded screw-down connections.

Stainless Steel Wall Phone jack	
Description	**Part Number**
Stainless Steel Wall Phone Jack, 6-position, 4-conductor	CO256-SS

Type 625B3 Duplex Wall Jack

[E] These smooth finish units include 2 jacks, wallplate and mounting hardward. Wire to provide the same dialtone on both jacks or separate lines. Screw terminals. UL Listed & CSA Certified.

Type 625B3 Duplex Wall Jack		
Description	**Ivory**	**White**
Type 625B3 Duplex Wall Jack, 6-position 4-conductor, Standard Plate*	40244-I	40244-W
Type 625B3 Duplex Wall Jack, 6-position 6-conductor, Standard Plate	40266-I	40266-W
Type 625B3 Duplex Wall Jack, 6-position 4-conductor, Midsize Plate	40544-I	40544-W

** **NOTE:** Part Number 40244 is also available in Almond (40244-A) and Brown (40244-B) versions.*

Type 630A Screw Terminal Wall Jack with Plastic Wallplate

[F] Features 4-conductor jack, screw terminals, screw-on wallplate and removable mounting lugs. can be converted to a flush-mount jack by replacing lugs with color-keyed plastic inserts (included). UL Listed and CSA Certified.

Type 630A Screw Terminal Jack with Plastic Wallplate		
Description	**Ivory**	**White**
6-position 4-conductor	40257-I	40257-W

Type 630A Screw Terminal Wall Jack with Snap-On Plastic Wallplate

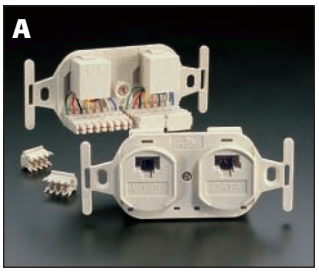
[G] Includes snap-on wallplate, mounting screws, and factory installed legs. UL Listed and CSA Certified.

Type 630A Screw Terminal Jack with Snap-on Plastic Wallplate			
Description	**Ivory**	**White**	**Almond**
6-position 4-conductor	40214-I	40214-W	40214-A
6-position 6-conductor	40216-I	40216-W	--

TELEPHONE WALL JACK INSERTS

Type 106 Duplex Flush Mount Modular Jack with 110-Type Termination

[A] The Type 106 duplex jack accommodates two voice and/or data terminals in the same jack location, using standard duplex electrical wallplates. Jack choices include 4-, 6-, and 8-conductor modular jacks for voice or data, with 8-conductor keyed versions typically used for data. Mounts easily in standard electrical boxes, most floor monuments, raceways, and many cellular or raised floor boxes without adapters. May be ganged for multiple-port applications. Installation is fast and easy with 110-type insulation displacement connectors for 22-26 AWG inside wiring. UL Listed, CSA Certified, and meets FCC Part 68 requirements.



Materials:
Flush Mount Modular Jacks

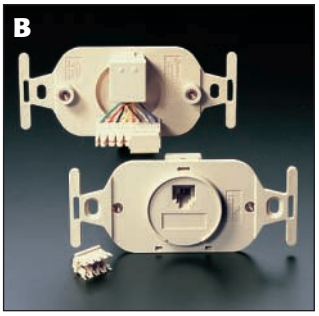
- *Housing: High-impact, fire-retardant plastic rated UL 94V0.*
- *Spring wire contacts: Phosphor bronze, plated with 50 microinches hard gold over 100 microinches nickel.*
- *Wire leads: PVC-insulated, tinned solid copper.*
- *Mounting screws: Combination Phillips/straight blade head.*

Type 106 Flush Mount Modular Jack					
Description	**Port Designations**		**Ivory**	**White**	**Grey**
Two 4-Conductor USOC Jacks	Line 1	Line 2	41364-IDI	41364-IDW	41364-IDG
Two 6-Conductor USOC Jacks	Line 1	Line 2	41366-IDI	41366-IDW	41366-IDG
One 6-Conductor USOC Jack and one 8-conductor T568B CAT 3 jack	Voice	Data	41365-IDI	–	–
Two 8-Conductor USOC Jacks	Line 1	Line 2	41368-IDI	–	–
Two 8-Conductor T568B CAT 3 Jacks	Line 1	Line 2	41367-IDI	41367-IDW	–
Two 8-Conductor T568B Jacks	Voice	Data	41361-IDI	–	–
One 8-Conductor T568B Jack, and one 8-conductor keyed T568B jack	Voice	Data	41360-IDI	–	–

Note: *Wallplate ordering information can be found on pages B12-B13.*

Type 105 Flush Mount Modular Jack with 110-Type Termination

[B] The 105 single-port flush mount jack fits a standard single opening (1.406" diameter) electrical wallplate. It is available in 4-, 6-, or 8-conductor configurations for voice and data, with the 8-conductor keyed version typically used for data. Mounts easily in standard single-, double-, or multigang electrical boxes, most floor monuments, and many cellular or raised floor boxes. Installs quickly using industry standard 110-type insulation displacement connectors for 22-26 AWG inside wiring. UL Listed, CSA Certified, and meets FCC Part 68 requirements.

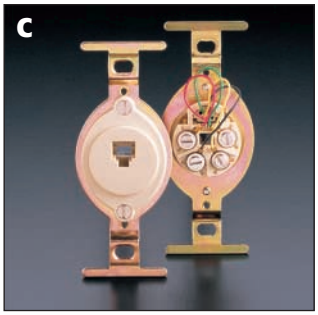


Type 105 Flush Mount Modular Jack				
Description	**Port Designation**	**Ivory**	**White**	**Grey**
One 6-Position, 4-Conductor Jack	–	41054-IDD	–	–
One 6-Position, 6-Conductor Jack	–	41056-IDD	41056-WDD	–
One 8-Position, 8-Conductor Jack, USOC	–	41058-IDD	–	–
One 8-Position, 8-Conductor Jack, T568B	–	41058-IDA	41058-WDA	41058-GDA

Note: *Wallplate ordering information can be found on pages B12 - B13.*

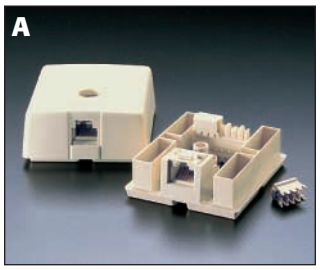
Type 625B Round Modular Jack Wallplate Insert

[C] A 4-conductor jack with Type 43A mounting bracket attached. Mounts in any standard electrical box. Slotted holes facilitate alignment. Can be used indoors or outdoors with corresponding Leviton wallplate. For use with 4-conductor modular line cord. Screw terminals. UL Listed & CSA Certified.



Type 625B Round Modular Jack Wallplate Insert & Wallplate	
Description	**Ivory**
Type 625B Round Modular Jack	40201-I
Round Modular Jack Wallplate, Ivory	86004

SURFACE MOUNT TELEPHONE JACKS

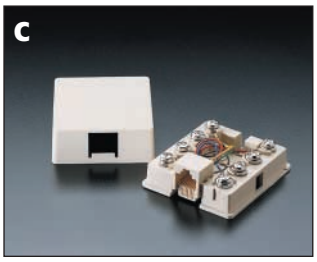


Materials:
103 Jacks

- *Housings: High-impact, fire-retardant plastic rated UL 94V0.*
- *Spring wire contacts: Phosphor bronze, plated with 50 microinches gold over 100 microinches nickel.*
- *110 clips: Solder-plated phosphor bronze.*

Materials:
104 Jacks

- *Housings: High-impact, fire-retardant plastic rated UL 94V0.*
- *Spring wire contacts: Phosphor bronze, plated with 50 microinches gold over 100 microinches nickel.*
- *110 clips: Solderplated phosphor bronze.*



Type 103 Surface Mount Modular Jack, 110-Type Termination

[A] The 103 single-port surface mount jack is available in 4-, 6-, or 8-conductor configurations for voice and data. Mounts using screws or doublesided tape (both included), or optional magnets (see page B20). UL Listed and CSA Certified.

Type 103 Single-Port Surface Mount Modular Jack

Description	Ivory	White
6-Position, 4-conductor Jack	41034-IDA	—
6-Position, 6-conductor Jack	41036-IDA	—
8-Position, 8-conductor USOC Jack	41038-IDA	—
8-Position, 8-conductor T568B Category 3 compliant Jack	41038-IDB	41038-WDB

Type 104 Duplex Surface Mount Modular Jack, 110-Type Termination

[B] The 104 Duplex Surface Mount Jack accommodates two voice and/or data ports. Available in 4-, 6-, or 8-conductor configurations for voice and data. Mounts easily using screws or doublesided tape (both included), or optional magnets (see page B20). UL Listed and CSA Certified.

Type 104 Duplex Surface Mount Modular Jack

Description	Port Designations		Ivory
Two 4-Conductor Jacks	Line 1	Line 2	41044-IDA
Two 6-Conductor Jacks	Line 1	Line 2	41046-IDA
One 6-Conductor Jack and one 8-conductor T568B Category 3 compliant jack	Voice	Data	41086-IDB
Two 8-Conductor USOC Jacks	Line 1	Line 2	41048-IDA
Two 8-Conductor T568B Category 3 compliant Jacks	Line 1	Line 2	41048-IDB
Two 8-Conductor T568B Category 3 compliant Jacks, one keyed and one non-keyed	Data	Data	41088-IDB

Type 625A2 Surface Mount Jack

[C] The compact design of this "biscuit block" jack offers improved appearance and space savings for surface-mount applications, and includes many features to facilitate installation. Unit comes with your choice of modular jacks prewired to combo-head screw terminals. High-reliability features include retainer comb to assure proper contact between jack and plug. Self-tapping screws and adhesive pad are included. UL Listed and CSA Certified.

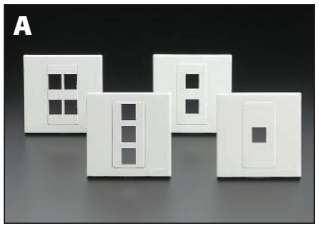
Type 625A2 Surface Mount Jack

Description	Ivory	White	Grey
6-Position 4-Conductor	4625A-24I	4625A-24W	--
6-Position 6-Conductor	4625A-26I	4625A-26W	--
8-Position 8-Conductor	40278-I	40278-W	40278-G

INTERNATIONAL WALLPLATES

United Kingdom-Style Standard QuickPort Wallplates

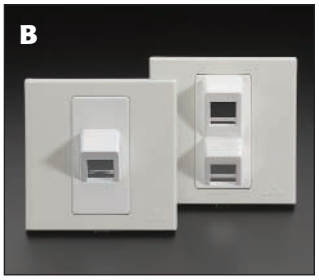
Manufactured specifically for our customers in Europe, these specially-sized snap-on wallplates feature hidden mounting screws and QuickPort mix-and-match versatility. Wallplate dimensions: (Dimensions: 3.386" x 3.386")



UK Style QuickPort Wallplates				
Depth	**1-Port**	**2-Port**	**3-port**	**4-Port**
[A] United Kingdom-Style Wallplates				
Standard Wallplate	WP186-01W	WP186-02W	WP186-03W	WP186-04W

United Kingdom-Style Angled QuickPort Wallplates

With a 38° angled jack to protect cable bend radius at the workstation, these European style wallplates are ideal for confined spaces such as behind desks or furniture. Larger dimension fits European wallplate standards. Wallplate dimensions: 3.386" x 3.386"



UK-Style Angled QuickPort Wallplates				
Depth	**1-Port**	**2-Port**	**3-port**	**4-Port**
[B] United Kingdom-Style Wallplates				
Wallplate with 38° Exit	WP286-01W	WP286-02W	--	--

United Kingdom Standard QuickPort Wallplates with Slider Cover

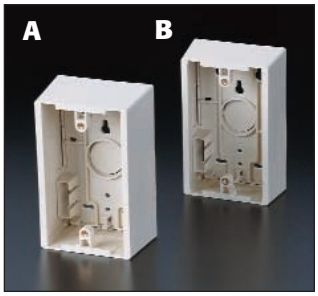
These European style wallplates feature special slider covers to protect against dirt and debris, and feature special Identification Windows to aid in workstation organization. QuickPort mix-and-match versatility lets you turn any wallplate into a multimedia center. Wallplate dimensions: 3.386" x 3.386".

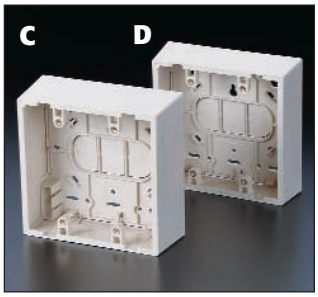
UK-Style Standard QuickPort Wallplates with Slider Cover				
Depth	**1-Port**	**2-Port**	**3-port**	**4-Port**
[C] United Kingdom-Style Wallplates				
Standard Wallplate with designation ID kit & slider cover	WP086-01W	WP086-02W	--	--

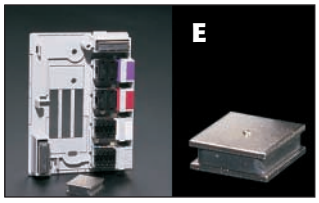
South American-Style Wallplates

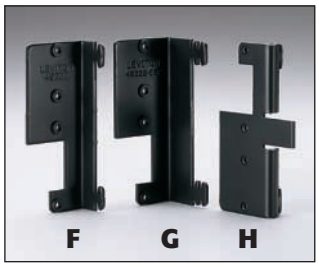
Designed for our customers in South America, these snap-on wallplates feature hidden mounting screws and QuickPort mix-and-match versatility. Wallplate dimensions: 2.736" x 4.709".

South America-Style QuickPort Wallplates				
Depth	**1-Port**	**2-Port**	**3-port**	**4-Port**
[D] South American-Style Wallplates				
Standard Wallplate	WP012-01W	WP012-02W	WP012-03W	WP012-04W









I

Actual Label Size 5/8" x 3/16"

DATA 1

VOICE 1	VOICE 1	VOICE	VOICE
VOICE 1	VOICE 1	DATA	DATA
VOICE 2	VOICE 2	FAX	FAX
VOICE 2	VOICE 2	PRINTER	PRINTER
VOICE 3	VOICE 3	SPARE	SPARE
VOICE 4	VOICE 4	1	1
DATA 1	DATA 1	1	1
DATA 1	DATA 1	2	2
DATA 2	DATA 2	2	2
DATA 2	DATA 2	1	1
DATA 3	DATA 3	1	1
DATA 3	DATA 3	2	2
DATA 4	DATA 4	2	2
DATA 4	DATA 4	3	3
PHONE	PHONE	4	4
PHONE	PHONE	5	5
PHONE	PHONE	6	6
10BASE-T	10BASE-T	A	A
10BASE-T	10BASE-T	B	B
E-NET	E-NET	C	C
E-NET	E-NET	D	D
MODEM	MODEM	E	E
LAN	LAN	F	F
VIDEO	VIDEO	LEVITON	

41080-LEB Shown

WORKSTATION ACCESSORIES

Single- and Dual-Gang Surface Mount Backboxes

These two-piece Surface Mount Backboxes snap snugly together to adapt Leviton flush mount products for surface mounting. Available in two sizes with knockouts on all sides for cable entry. Mounting options include screws and double-sided tape (installer-supplied); modular furniture brackets (F, G, H below) or magnet mounting (E below).

Single- and Dual-Gang Surface Mount Backboxes				
Depth	**Ivory**	**White**	**Grey**	**Black**
[A] Single-Gang 1.89" deep	42777-1IA	42777-1WA	42777-1GA	42777-1EA
[B] Single-Gang 1.45" deep	42777-1IB	42777-1WB	42777-1GB	42777-1EB
[C] Dual-Gang 1.89" deep	42777-2IA	42777-2WA	42777-2GA	42777-2EA
[D] Dual-Gang 1.45" deep	42777-2IB	42777-2WB	42777-2GB	42777-2EB

Magnets

Mount surface mount products on desks and other metal surfaces.

Magnets	
Description	**Part Number**
[E] Magnets (4 per pack) Use 1 Magnet for 2-port Surface Mount Housing. Use 2 Magnets for 4-, 6-, and 12-port Surface Mount Housings, Single & Dual-Gang Surface Mount Backboxes, 103 & 104 type Modular Jacks.	41030-SMJ

Modular Furniture Brackets

Use to install Leviton surface mount outlets (or flush mount devices with backbox) in many types of modular offices. Can also be used with Leviton backboxes and surface mount 4-, 6 and 12-port housings. Cold-rolled steel units snap securely into modular partitions. A cutout allows rear cable entry for a clean, uncluttered look and tangle-free installation. Available in black.

Modular Furniture Brackets	
Compatibility	**Part Number**
[F] For Steelcase 9000®, Haworth®, Knoll Morrison®, Allsteel® and Westinghouse®	49222-BLK
[G] For Herman Miller Ethospace® and Steelcase Avenir®	49222-ESP
[H] For Herman Miller Action Office®	49222-HAO

Pre-Printed Port Designation Labels

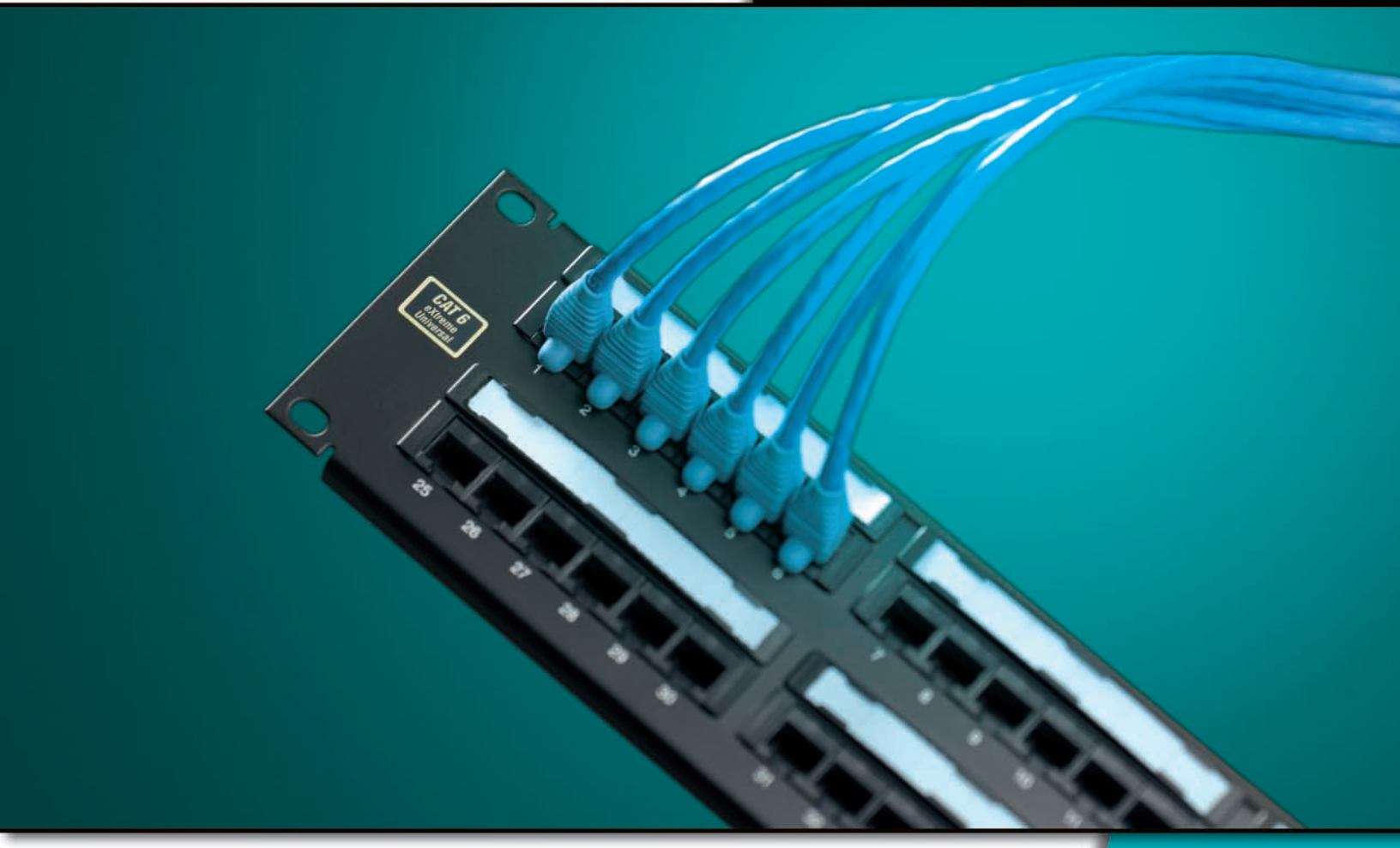
Identify ports on any QuickPort Housings with these attractive and versatile jack designation labels. Printed on clear self-adhesive backing. Commercial or residential labels available.

Port Designation Labels		
Description	**Black Ink**	**White Ink**
[I] Commercial Labels–10 sheets per kit, 94 labels per sheet	41080-LEB	41080-LWB
Residential Labels–10 sheets per kit, 94 labels per sheet	40740-BE	–

Note: *If uncommon designations, company logos, or permanent port ID are desired, inquire about our custom silkscreening.*

Section C

Copper Components



LEVITON®
VOICE & DATA DIVISION

Copper Components

Discover Leviton's broad variety of solutions for Copper distribution. Leviton offers high-performance Category 6, Category 5e and Category 5 Universal Patch Panels, pre-configured with craft-friendly 110 punchdowns, as well as a Category 6 Modular Panel, Voice Grade Panels, QuickPort field-configurable panels, and the unique Angled Panel, in 6+, 5e and QuickPort styles. Additionally, in this section find Patch Cords, accessories and an array of rack-mounted solutions for Surge and Power Quality.

Related Products

QUICKPORT UTP COPPER CONNECTORS

High performance Category 6, 5e, 5 and 3 connectors, in 13 colors, as well as Voice Grade, and a selection of accessories *(Page A3)*.

QUICKPORT AUDIO/VIDEO MODULES

Connectors and adapters for audio and video over coaxial cable, speaker wire and UTP copper *(Page A4)*.

FIBER OPTIC CONNECTORS AND QUICKPORT ADAPTERS

Innovative, craft-friendly ST, SC, FC, MT-RJ and LC connectors, in mechanical or epoxy styles. Plus adapters to fit them to any QuickPort housing *(Page A6)*.

QUICKPORT SHUTTERS & ICONS

Field-installable QuickPort Shutters with icons protect connectors from dust & debris, and feature labels and recessed windows for port identification *(Page A8)*.

VERSI-DUCT SLOTTED DUCT SYSTEM

Versatile vertical and horizontal rack cable management system with an array of innovative accessories *(Page E3)*.

SPACEMAKER

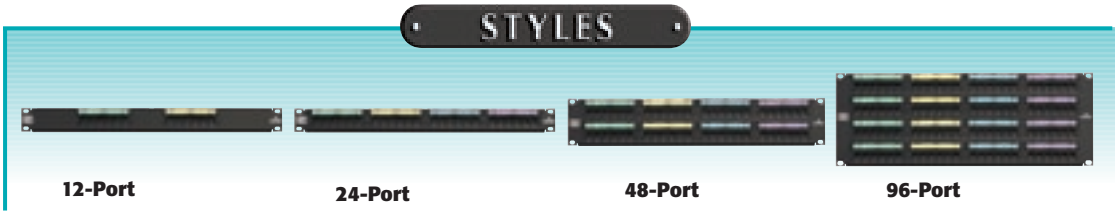
Front-side cable manager saves up to 80% installation labor time and uses up no rack space *(Page E5)*.

HOOK & LOOP CABLE MANAGEMENT

Re-usable Hook and Loop solutions to protect cables and keep work and closet areas neat *(Page E8)*.

DIAGRAMS & INSTRUCTIONS

In our appendix, find step-by-step termination instructions, as well as dimensional diagrams for panels and accessories *(Section X)*.



Cable management bar and stand-offs facilitate dressing and organizing the cable, and helps maintain optimum bend radii.

Universal printed circuit-board modules– with 110 connections and rear termination field for easy-field configurability– can be used for T568A, T568B or 25-pair wiring schemes.

Patch panel labeling kit features colored slide-in front port identification labels.

Reversible rear label slides easily into redesigned slot and shows color-coded diagrams for T568A, T568B and 25-pair wiring.

EXTREME™ 6+ UNIVERSAL PATCH PANELS

Craft-friendly eXtreme 6+ Universal Patch Panels exceed published Category 6 standards and feature patented Retention Force Technology™ for robust long-term performance and mechanical integrity.

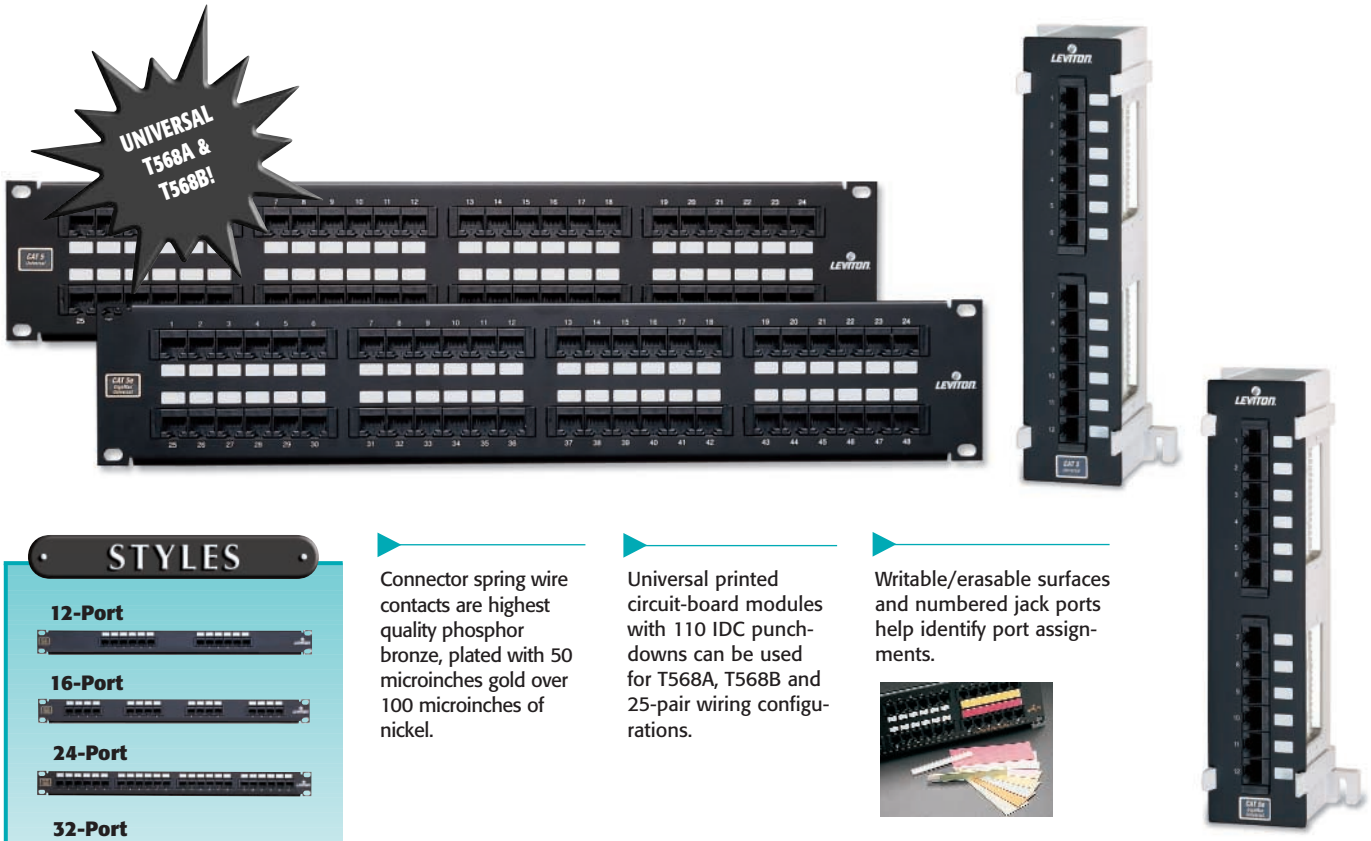
These 12-, 24-, 48 and 96-port panels (and 12-port patch block) come pre-configured with craft-friendly 110-style punchdowns on the rear and six-port RJ-45 front modules. Rear designation labels are reversible, with color-coded wiring diagrams for T568A or T568B configurations.

Additionally, 12-, 24-, 48- and 96 Port panels feature advanced cable management and grounding stand-offs, come with a cable management bar for proper bend radius protection, and accommodate top, bottom or side cable entry.

All eXtreme 6+ panels and blocks mount in standard 19" equipment racks, are cULus Listed, and fully comply with published Category 6 standards.

eXtreme 6+ Universal Patch Panels					
Description	**12-Port Patch Block**	**12-Port Panel**	**24-Port Panel**	**48-Port Panel**	**96-Port Panel**
High-density, Pre-Configured Patch Panel with wire management bar	69586-U89	69586-U12	69586-U24	69586-U48	69586-U96
Dimensions:	*10.0" H x 2.30" W*	*1.75" H x 19.0" W*	*1.75" H x 19.0" W*	*3.5" H x 19.0" W*	*7" H x 19.0" W*

Fax: 425.483.5270 ■ Int'l Fax: 425.485.9170 ■ Canada Fax: 800.563.1853 ■ www.levitonvoicedata.com



STYLES

12-Port

16-Port

24-Port

32-Port

48-Port

64-Port

96-Port

Connector spring wire contacts are highest quality phosphor bronze, plated with 50 microinches gold over 100 microinches of nickel.

Universal printed circuit-board modules with 110 IDC punch-downs can be used for T568A, T568B and 25-pair wiring configurations.

Writable/erasable surfaces and numbered jack ports help identify port assignments.

CATEGORY 5 & GIGAMAX™ 5e UNIVERSAL PATCH PANELS & PATCH BLOCKS

Universal Category 5 and GigaMax 5e Patch Panels and Patch Blocks come in a variety of port densities to meet the needs of high-speed data applications. Both the blocks and panels come pre-configured with 110-punchdowns on the back and either Category 5 or GigaMax 5e six-port modules, on the front. Ideal for enhanced applications, both versions can be used for T568A or T568B wiring configurations. The panels, available with 12 to 96 pre-configured ports, mount in standard 19" TIA equipment racks and accommodate top, bottom or side cable entry. For smaller, wall-mount installations, the 12-port patch blocks are an ideal low-profile solution.

GigaMax 5e panels are rated for both component and channel-level performance.

All panels and blocks are UL Listed and fully comply with with the latest published TIA guidelines.

Universal Category 5 Patch Panels

Description	12-Port	16-Port	24-Port	24-Port w/Bar	32-Port	48-Port	64-Port	96-Port
T568B/T568A	59484-U12	59484-U16	59484-U24	59484-24U	59484-U32	59484-U48	59484-U64	59484-U96
Dimensions:	*1.75" H x 19.0" W*	*1.75" H x 19.0" W*	*1.75" H x 19.0" W*	*1.75" H x 19.0" W* (Includes Wire Management Bar)	*3.5" H x 19.0" W*	*3.5" H x 19.0" W*	*7.0" H x 19.0" W*	*7.0" H x 19.0" W*

CATEGORY 5

Universal GigaMax 5e Patch Panels

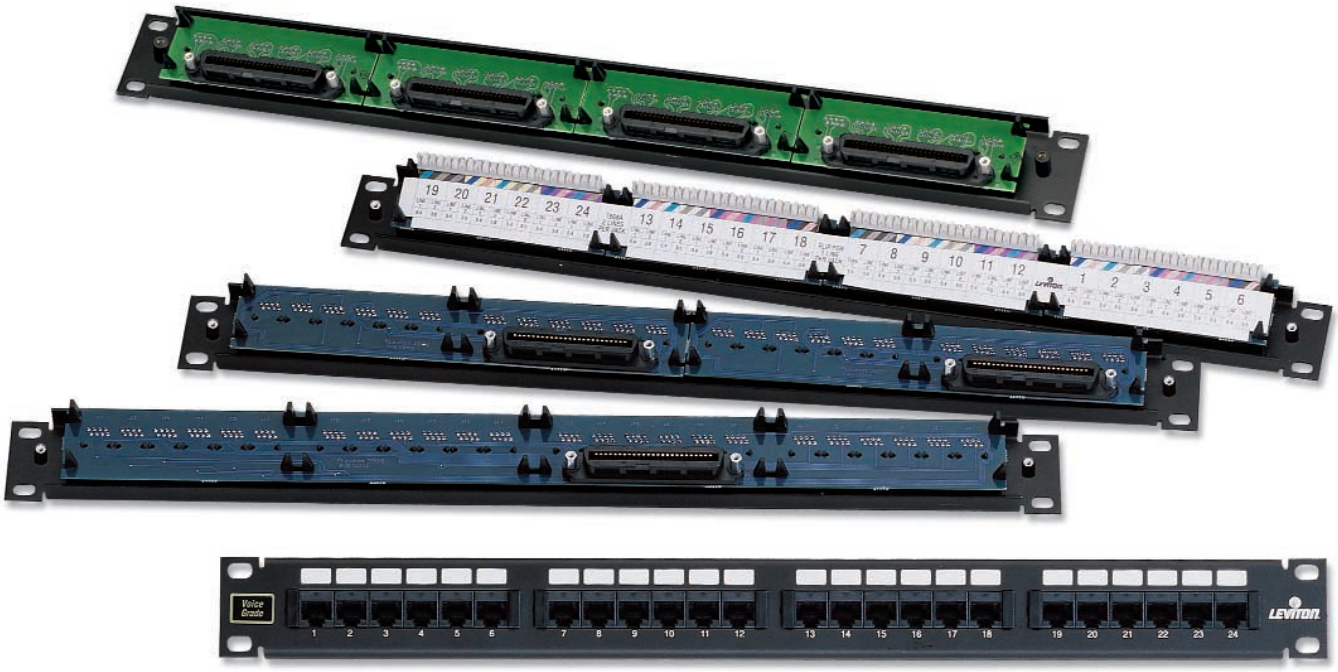
Description	12-Port	16-Port	24-Port	32-Port	48-Port	64-Port	96-Port
T568B/T568A	5G584-U12	5G584-U16	5G584-U24	5G584-U32	5G584-U48	5G584-U64	5G584-U96
Dimensions:	*1.75" H x 19.0" W*	*1.75" H x 19.0" W*	*1.75" H x 19.0" W*	*3.5" H x 19.0" W*	*3.5" H x 19.0" W*	*7.0" H x 19.0" W*	*7.0" H x 19.0" W*

GIGAMAX™

Universal Category 5 and GigaMax 5e Patch Blocks (include Mounting Bracket)

	12-Port Category 5	12-Port GigaMax 5e
T568B/T568A	59484-U89	5G584-U89
Dimensions:	*10.0" H x 2.375" W*	*10.0" H x 2.375" W*

Materials: *Panels and blocks are 16 gauge steel, black painted finish with white write-on areas silkscreened beside the connectors. Printed circuit boards and plastic components are fire-retardant materials rated UL 94V-O.*



Cable management bar available separately to facilitate dressing and organization of cable.

Printed circuit-board modules with 110 IDC-style punchdowns or industry standard RJ21X connector termination.

Writable/erasable and numbered surfaces help identify port assignments.

Connector spring wire contacts are highest quality phosphor bronze, plated with 50 microinches gold over 100 microinches of nickel.

STYLES

24-Port

48-Port

VOICE GRADE PATCH PANELS

Leviton's Voice Grade Patch Panels are the perfect solution for bringing voice to your cable rack. Pre-configured in 24- and 48-Port densities, and designed specifically for voice grade applications, these low-cost panels are available in pre-connectorized and 110-IDC versions.

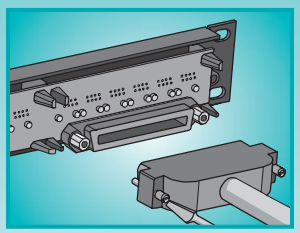
A unique rear label is provided for the 110-IDC style patch panels that delineates 1-pair, 2-pair and 4-pair termination, in addition to showing 25-pair color coded termination.

Voice Grade Patch Panels, 110-style		
Description	**24-Port**	**48-Port**
Voice 8P4C Jacks, 110 termination	49003-P24	49003-P48
Dimensions:	*1.75" H x 19.0" W*	*3.5" H x 19.0" W*
Cable Management Bar	49005-CMB	49005-CMB

Voice Grade Patch Panels, Pre-Connectorized		
Description	**24-Port**	**48-Port**
Voice 8P2C Jacks, 25-pair connector	49002-J24	49002-J48
Voice 8P4C Jacks, 25-pair connector	49004-J24	49004-J48
Voice 8P8C Jacks, 25-pair connector	49008-J24	49008-J48
Dimensions:	*1.75" H x 19.0" W*	*3.5" H x 19.0" W*
Cable Management Bar	49005-CMB	49005-CMB

FEATURES

Why Choose Voice Panels?



Leviton Voice Grade Patch Panels are ideal for bringing voice-grade applications to the telecommunications rack.

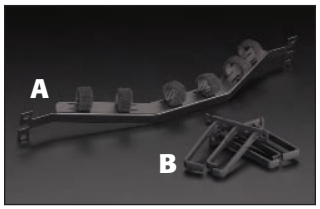
110-style or 25-pair panels provide all the easy, craft-friendly functionality of a modular patch panel without the higher expense normally associated with Category 5 or 5e data-grade solutions

EXTREME 6+, GIGAMAX 5E AND QUICKPORT ANGLED PATCH PANELS

Simplify cable management, ease patch cord access, and increase rack density with new high-density Angled Patch Panels from Leviton. Constructed in a 128° wedge-shaped silhouette, extending outward from any standard 19" rack. Modular panel available in GigaMax 5e or eXtreme 6+ versions, with 48 ports each. Field-configurable 48-port QuickPort version accommodates any style of QuickPort connector.

All loaded panels and blocks feature 110-style punchdowns and reversible rear designation labels with color-coded wiring diagrams for T568A, T568B and 25-pair configurations.

Additionally, Angled Panels feature an array of accessories for rack management, including: Horizontal Ring, 1RU and 2RU Angled Blank Panel inserts, Transitional Cover and Angled Cable Management Bar. All panels and blocks mount in standard 19" equipment racks and accommodate top, bottom or side cable entry. All panels and blocks are cULus Listed and fully comply with all applicable Category 5e or Category 6 standards.



Modular Angled Patch Panels

Description	Dimensions	Part Number
48-Port eXtreme 6+ Angled Patch Panel	3.5" x 19.0" x 4.8"	69587-U48
48-Port GigaMax 5e Angled Patch Panel	3.5" x 19.0" x 4.8"	5G586-U48
QuickPort 48-Port Angled Patch Panel, sold empty	3.5" x 19.0" x 4.8"	49256-H48

Angled Panel Accessories

Description		Part Number
[A]	Angled Cable Management Bar, rear (4 Hook and Loop fasteners included)	49006-AMB
[B]	Vertical Transition Ring (Horizontal Cable Ring), 2/box	49262-HR1
[C]	Front Blank Angled Panel, 2RU	49254-BA2
[D]	Front Blank Angled Panel, 1RU	49254-BA1
[E]	Transitional Cover	49254-BC1

Cable tie-down slots accommodate Hook and Loop Cable Management tie-wraps and plastic cable ties. Built-in cable management organizes cable and helps maintain optimum bend radii.

Exclusive Quick Termination Stations can be used to temporarily hold connectors for more convenient termination and cable dressing on 24- and 32-port standard QuickPort panels.

QuickPort panels accept all Leviton QuickPort snap-in connectors, modules and blanks. Use with Category 6, 5e or 5 connectors for outstanding performance.

Rugged dual-wall reinforced construction provides secure, flush mount module retention.

QUICKPORT® MULTIMEDIA PATCH PANELS & PATCH BLOCKS

Create a Category 5, 5e, 6 or multimedia panel instantly by matching Leviton Performance connectors with versatile QuickPort patch panels and patch blocks. Field-configure with any QuickPort Snap-in Modules for voice, data, audio and video, including: Category 5, GigaMax 5e, and eXtreme 6+ (sold separately), to configure the panel to your exact needs.

Configure patch blocks with up to 12 QuickPort modules. Patch panels range in port density from 24 to 48 ports. 24- and 32-port panels incorporate Leviton's exclusive 'Quick Termination Station', and a cable management tray. The high-density panels include a wire management bar. An 89D mounting bracket is sold separately for patch blocks.

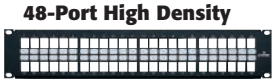
STYLES

[A]
24-Port

[B]
32-Port

[C]
24-Port High Density

[D]
48-Port High Density



QuickPort Multimedia Patch Panels with Cable Tray		
Description	**Dimensions**	**Part Number**
[A] 24-Port Patch Panel with Cable Tray (Order 1 Port identification kit)	(3.5" H x 19" W)	49255-Q24 49257-QID
[B] 32-Port Patch Panel with Cable Tray (Order 2 Port identification kits)	(3.5" H x 19" W)	49255-Q32 49257-QID
QuickPort High Density Multimedia Patch Panels with Wire Management Bar		
[C] High Density 24-Port Patch Panel w/Wire Management Bar (Order 1-Port identification kit)	(1.75" H x 19" W)	49255-H24 49257-I24
[D] High Density 48-Port Patch Panel w/Wire Management Bar. (Order 2-Port identification kits)	(3.5" H x 19" W)	49255-H48 49257-I24
QuickPort Multimedia Patch Blocks		
QuickPort 12-Port Patch Block,(mounting bracket sold separately)	(10" H x 2.375" W)	49255-Q89
QuickPort Patch Block mounting bracket, shown above (89D)		40089-00D
QuickPort 12-Port Multimedia Patch Block, (extra deep) (mounting bracket included)	(10" H x 2.375" W)	47689-QP

Note: The above QuickPort Multimedia Patch Panels and Blocks are sold empty.

EXTREME 6+ QUICKPORT® PATCH PANELS

These high-density, field-configurable QuickPort Category 6 Patch Panels come preloaded with black eXtreme 6+ connectors and are available in 24- and 48-port versions.

Panels come with a wire management bar. Connector rear-termination field ensures easy accessibility and accommodates T568A or T568B wiring configurations. cULus listed.

Materials: *Panels and blocks are 16 gauge steel, black painted finish with white write-on areas silkscreened beside the connectors. Printed circuit boards and plastic components are fire-retardant materials rated UL 94V-O.*

QuickPort Category 6 Patch Panels		
Description	**Dimensions**	**Part Number**
24-Port Patch Panel preloaded with eXtreme 6+ Connectors	(3.5" H x 19" W)	69270-U24
48-Port Patch Panel preloaded with eXtreme 6+ Connectors	(3.5" H x 19" W)	69270-U48

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RACK-MOUNT SURGE PROTECTIVE DEVICES

5500 Series 19-inch Rack-Mount Surge Protective Device

[A, B] Designed to mount on 19-inch racks, providing transient voltage surge suppression for rack-mounted electronic equipment. Offers 12 protected outlets (15A or 20A versions), 10 in the back of the unit, and 2 in the front. Advanced circuit design offers extremely tight clamping levels and exceptional noise attenuation. Choose between Normal or Common protection modes. Features on-off rocker switch, power protection and outlet polarity/ground status LED diagnostics, a resettable overload circuit breaker and 12-foot power supply cord. Unit will continue to provide power if protection is lost. Tested to ANSI/IEEE C62.41 standards. 330 Volts peak. UL Listed & CSA Certified

5500 Series Rack-Mount Surge Protective Device	
Description	**Part Number**
NEMA 5-15P Standard Blade Plug	
[A] 125V, 15A Surge Protective Device, with on/off switch (12 outlets)	5500-190
125V, 15A Surge Protective Device, without on/off switch (12 outlets)	5500-15N
125V, 20A Surge Protective Device, with on/off switch (12 outlets)	5500-192
[B] 125V, 20A Surge Protective Device, without on/off switch (12 outlets)	5500-20N
NEMA L5-15P Locking Plug	
125V, 15A Surge Protective Device, with on/off switch (12 outlets)	5500-15L
125V, 15A Surge Protective Device, without on/off switch (12 outlets)	5500-NL
125V, 20A Surge Protective Device, with on/off switch (12 outlets)	5500-20L
125V, 20A Surge Protective Device, without on/off switch (12 outlets)	5500-2NL

Lev-UPS™ Slim Uninterruptible Power Supply

[C] This slim low-profile 1RU Uninterruptible Power Supply is designed to mount on a standard 19-inch rack, provides mitigation for sags and swells in power quality without relying on transfer to back-up power. Provides AC (5 outlets) and data/communication line surge protection (1 parallel port and 2 RJ-45 outlets). Features a "Cold Start" mode that allows the UPS to be used as a short term emergency power source (25 minutes back up time). User-replaceable batteries. Dry-relay contact for remote signaling of basic functions. cULus Listed and FCC Compliant.

[C] Lev-UPS Slim Uninterruptible Power Supply	
Description	**Part Number**
Lev-UPS Slim Uninterruptible Power Supply	U0600-ARM

Lev-UPS™ On-Line Uninterruptible Power Supply

[D] The highest grade of power protection available. State-of-the-art double-conversion design makes this unit ideal for critical and power-sensitive applications. Provides AC (5 outlets) and data/communication line surge protection (1 parallel port and 2 RJ-45 outlets). Smooths power fluctuations and protects against spikes, surges, noise, extended over and under voltages, harmonics and frequency variations. Dual microprocessors ensure uninterrupted power to the load in the event of a UPS fault. LCD display and audible alarms indicate status. and parameters. Includes Lev-WARE power monitoring software. Features solid-state remote control & signaling and a "Cold Start" mode that allows the UPS to be used as a short term emergency power source. cULus Listed.

[D] Lev-UPS On-Line Uninterruptible Power Supply		
Description	**Tower Configuration**	**Rack Mount**
Lev-UPS Online UPS, 1000 VA capacity	U1000-ONL	U1000-ORM
Lev-UPS Online UPS, 2000 VA capacity	U2000-ONL	U2000-ORM
Lev-UPS Online UPS, 3000 VA capacity	U3000-ONL	U3000-ORM

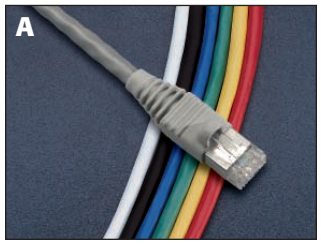
PERFORMANCE PATCH CORDS

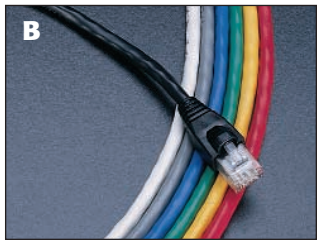
[A-C] Leviton's eXtreme™ 6+, GigaMax™ 5e and Category 5 patch cords meet or exceed industry standard specifications, and use compliant stranded wire as specified by the latest published TIA guidelines to ensure adequate 'flex life.' All have quality construction to maintain the integrity of signal transmission at the cross-connect, which is critical to the performance of the entire cabling system.

GigaMax 5e Patch Cords are suitable for Category 5e and 5e+ applications, and eXtreme 6+ Patch Cords are suitable for Category 6 applications. Both GigaMax and eXtreme Cords meet component specifications as outlined in the latest TIA guidelines.

Available in lengths of 3', 5', 7', 10', 15' and 20'. Offered in seven colors: white, red, yellow, green, blue, grey and black. GigaMax 5e cords feature black strain-relief boots, and eXtreme 6+ cords feature stranded cable and color-coordinated slimline boots. Category 5 cords have no strain-relief boot.

NOTE: Leviton Performance Patch Cords are required to qualify for the Leviton Lifetime Warranty on Certified installations.





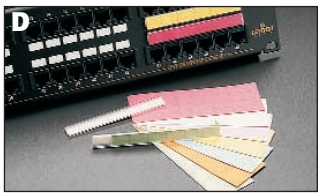
[A-C] Patch Cords	[A] eXtreme 6	[B] GigaMax 5e	[C] Category 5
Description			
3-foot length	62460-03*	5G455-03*	52455-03*
5-foot length	62460-05*	5G455-05*	52455-05*
7-foot length	62460-07*	5G455-07*	52455-07*
10-foot length	62460-10*	5G455-10*	52455-10*
15-foot length	62460-15*	5G455-15*	52455-15*
20-foot length	62460-20*	5G455-20*	52455-20*

***=Color choices:** White(W), Grey(S), Black(E), Blue(L), Red(R), Green(G), Yellow(Y)*

CAT 6 SLIMLINE BOOTS

RACK & PANEL ACCESSORIES

Patch Panel Port Identification Kits



[D] Patch Panel Port Identification Kits	
Description	**Part Number**
24-Port ID Kit (for 12-, 24-, 48- and 96-port panels, 24- & 48-port High-Density Panels) (two kits required for 48-port & four kits required for 96-port panels)	49257-I24
QuickPort 32-port ID kit (for 24- and 32-port panels)	49257-QID

Blank Panels

[E, F] Blank Panels (for standard 19" equipment racks)			
Description	**1RU**	**2RU**	**3RU**
[E] Front Blank Panel, Standard	49254-BP1	49254-BP2	49254-BP4
[F] Front Blank Panel, Angled	49254-BA1	49254-BA2	

Hinged Wall-Mount Brackets

[G] Hinged Wall-Mount Brackets			
Description	**2RU**	**3RU**	**4RU**
Hinged Wall-Mount Bracket	49251-W62	49251-W63	49251-W64

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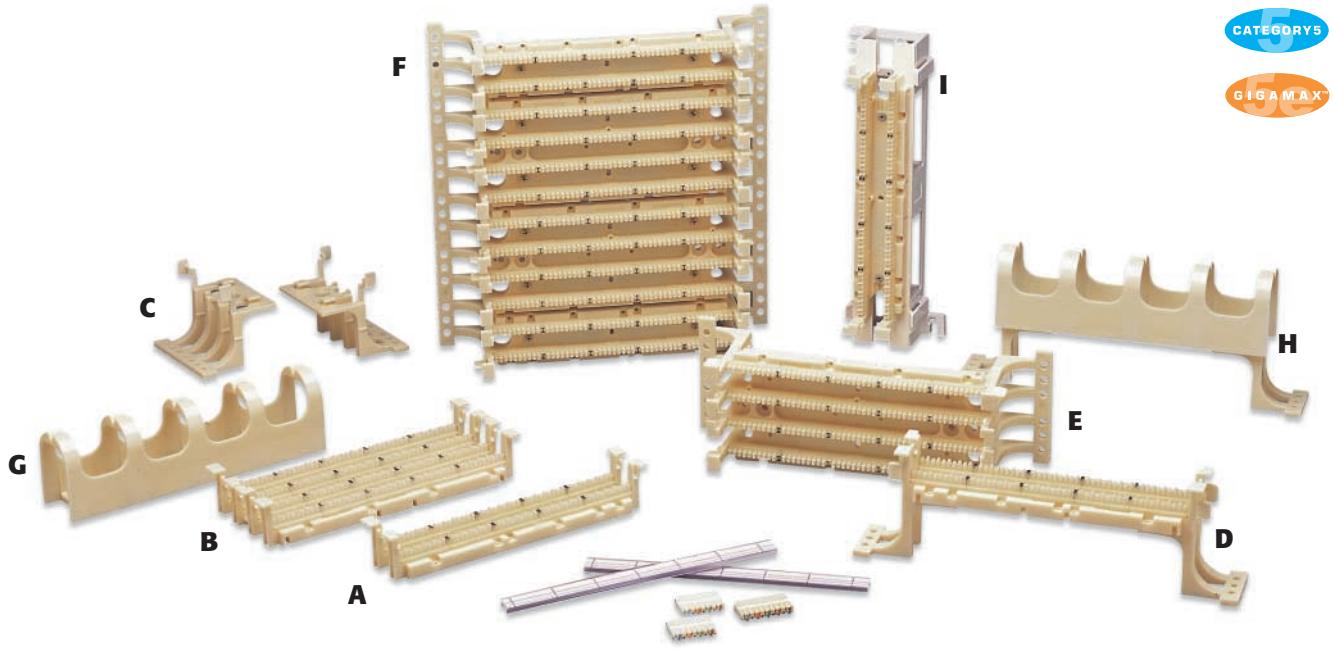


Materials:
Horizontal cord managers and 110 wiring bases feature sturdy single-piece construction of fire-retardant plastic rated UL 94V-0.

C-4 and C-5 connector blocks (sold separately or included in kitted versions) are fire-retardant UL 94V-0 plastic with solder-plated IDC's.

110 WIRING PRODUCTS

Wall-Mount 110 Wiring Products

Create compact, adaptable 110 termination fields for voice and data by mounting 110 wiring bases to the wall or a backboard. Bases come in 50-, 100- or 300-pair densities. The 50- and 100- pair bases may be ordered with or without standoff legs which provide more room behind the base for cable. All 300-pair bases include standoff legs, label strip holders and white paper labels. A 50-pair 89D bracket configuration is also available (89D bracket sold separately, C13).

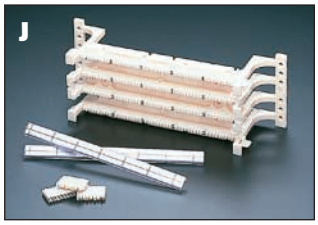
Complete kits are available for 100- and 300-pair wall-mount units and 89D wiring base, and include bases, C-4 & C-5 connecting blocks, label holders and white paper labels.

All components are UL Listed and exceed latest TIA-568-B standards and Category 5e transmission requirements. Verified by independent testing.

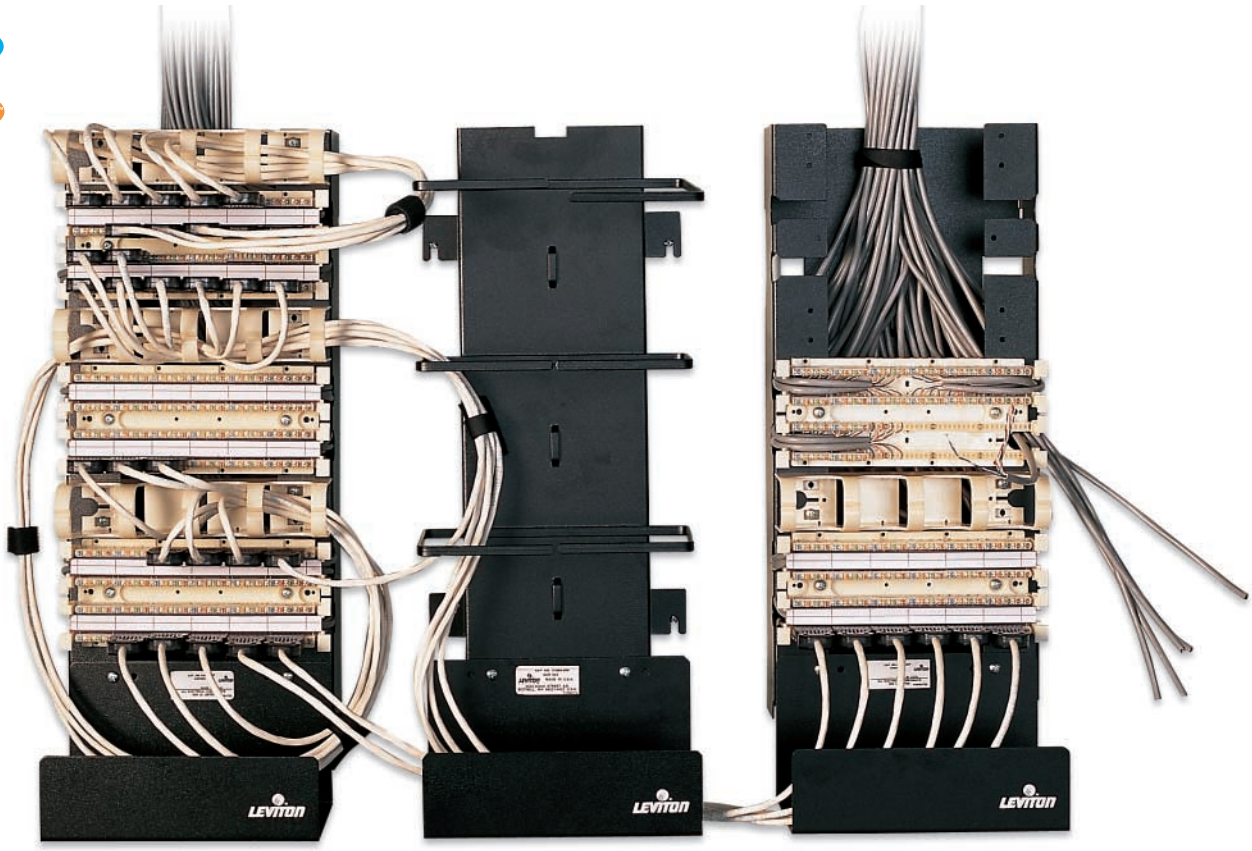
Wall-Mount 110 Products - Individual Components & Combinations Ⓤ		
Description		**Part Number**
[A]	50-pair Wall-Mount Wiring Base without legs	41DW1-50
	Legs only, 50-Pair Base (set of two) for 41DW1-50	410L2-50
[B]	100-pair Wall-Mount Wiring Base without legs	41DW2-100
[C]	Legs only, 100-Pair Base (set of two) for 41DW2-100	410L2-100
[D]	50-pair Wall-Mount Wiring base with legs	41AW1-50
[E]	100-Pair Wall-Mount Wiring Base with legs	41AW2-100
[F]	300-pair Wall-Mount Wiring Base with legs and white label strips/holders	41AW2-300
[G]	Horizontal Cord Manager without legs	41D10-HCM
[H]	Horizontal Cord Manager with legs	41A10-HCM
[I]	50-pair 89D Bracket compatible wiring base (89D bracket sold separately, part number 40089-D)	41DW1-589

Wall-Mount 110 Products - Kitted Versions		
Description		**Part Number**
[J]	100-pair Wall-Mount Wiring Base Kit with base, legs, label strip holders, white label strips, 20 C-4 connectors and 4 C-5 connectors.	41AB2-1FT
	300-pair Wall-Mount Wiring Base Kit with base, legs, label strip holders, white label strips, 60 C-4 connectors and 12 C-5 connectors.	41AB2-3FT
	50-pair 89D Bracket compatible wiring base kit with base, label strip holders, white label strips, 10 C-4 connectors and 2 C-5 connectors (89D Bracket sold separately, part number 40089-D).	41DB1-5FT

Category 6 110 Connector Block Kit	
Description	**Part Number**
Category 6 110 Connector Block Kit	41AB6-1FT



Kits available for 100- and 300-pair wiring bases (100-pair is shown below), and 50-pair 89D wiring base.

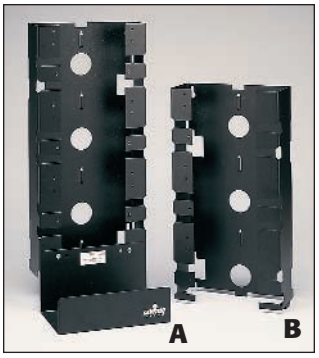


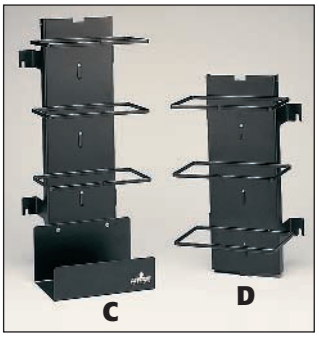
Wall-Mounting Frame Style 110 Wiring Products

For 110 wall-mount applications, mounting frames provide additional options for cord/cable management, access and density via a rear cable channel, side slots, horizontal cord managers and a bottom cable tray. Components are offered individually or in kits (see ordering information below for description of included parts).

Begin with the basic mounting frames and vertical cord managers. Each has a 300-pair capacity—room for three 100-pair wiring bases, with 100-pair horizontal cord managers in between. The capacity for each mounting frame or vertical manager may be increased to 600 or 900 pairs with the addition of up to two 300-pair extension units.

Frames, trays and vertical cord managers are composed of sturdy steel, painted black; wiring bases, connector blocks and horizontal cord managers are fire-retardant plastic rated UL 94V-0. Kits include screws for attaching wiring bases and cord managers to the mounting frame. All components are UL Listed and exceed Category 5e transmission requirements. Verified by independent testing.





Wall-Mounting Frame Style 110 Wiring Products		
Description		**Part Number**
[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 with three 100-pair bases; mounting frame; cable tray; C-4 and C-5 connector blocks; three horizontal cord managers; label strip holders and white label strips.	41MB2-3FT
	Extension Mounting Frame Kit with three 100-pair bases; mounting frame; C-4 and 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

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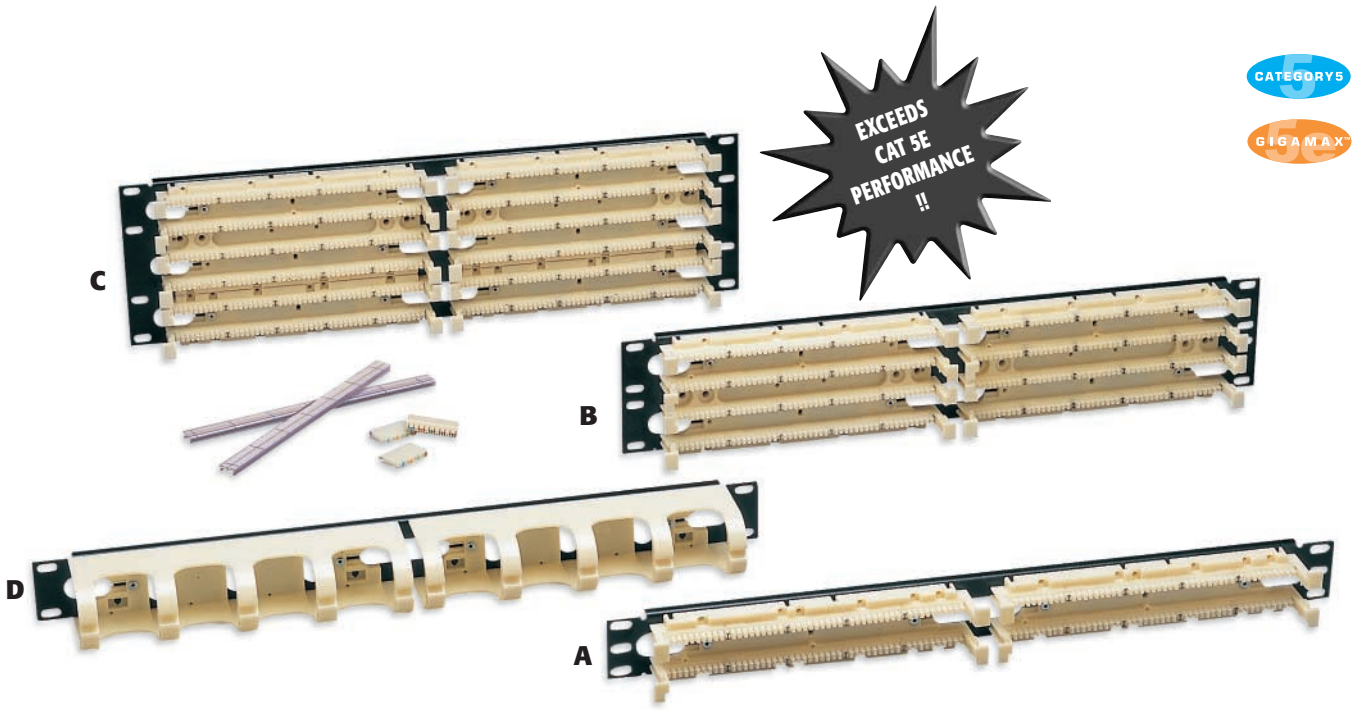


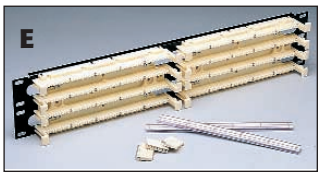
Rack-Mount 110 Wiring Products

Rack-Mount 110 Wiring Products attach to standard 19" wide racks to create compact, adaptable 110 termination fields for voice and data. Panels come in 100-, 200- or 300-pair densities and terminate 22-26 AWG solid copper wire. Cord management is provided by horizontal cord managers (sold separately).

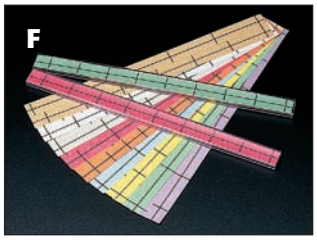
Kits for 100-, 200- and 300-pair rack-mount panels include the panel, C-4 and C-5 connecting blocks, label strip holders and white paper labels.

Horizontal cord managers and 110 wiring bases feature sturdy single-piece construction of fire-retardant plastic rated UL 94V-0. Wiring bases are attached to 19" wide steel rack-mount panels, painted black. Screws are included for mounting the panels onto 19" racks. C-4 and C-5 connector blocks are fire-retardant UL 94V-0 plastic with solder-plated IDC's.

All components are UL Listed, and exceed Category 5e transmission requirements. Verified by independent testing.



Individual Components ℗	
Description	**Part Number**
[A] 100-pair Rack-Mount Wiring Panel.	41DR2-100
[B] 200-pair Rack-Mount Wiring Panel.	41DR2-200
[C] 300-pair Rack-Mount Wiring Panel.	41DR2-300
[D] Rack-Mount Horizontal Cord Manager (for part numbers listed above and below).	41D1R-HCM
Rack-Mount Kitted Versions	
100-pair Rack-Mount Wiring Panel Kit with panel, label strip holders, white label strips, 20 C-4 connectors, and 4 C-5 connectors.	41DBR-1FT
[E] 200-pair Rack-Mount Wiring Panel Kit with panel, label strip holders, white label strips, 40 C-4 connectors, and 8 C-5 connectors.	41DBR-2FT
300-pair Rack-Mount Wiring Panel Kit with panel, label strip holders, white label strips, 60 C-4 connectors, and 12 C-5 connectors.	41DBR-3FT



110 Product Labeling Holders and Strips

[F] Identify 110-port assignments with these clear plastic label holders and slide-in label strips. The holders attach to all types of 110 wiring bases—wall, rack and wall-mounting frame styles. Strips come in your choice of one of nine colors, and are lined for 2-, 3-, 4- or 5-pair spacing.

[F] Product Labeling Kits	
Description	**Part Number**
Clear Label Holders (bag of 6)	41100-HLD
Label Strips lined for 2-, 3-, 4- or 5-pair spacing (bag of 6)(available in one of 9 colors).	41LBL-00*

***= Color choices:** Brown (B), White (W), Grey (G), Red (R), Orange (O), Blue (L), Yellow (Y), Green (V) and Purple (P)*

110 Connector Clips

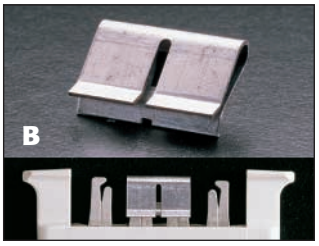
[A] These high-quality connector clips securely seat the wires on 110 wiring bases, providing a gas-tight IDC connection that maintains signal integrity for high performance applications. Available in three Category 5/5e pair-count sizes: C-3, C-4 and C-5. These blocks withstand 200 reterminations, and are made of fire-retardant plastic rated UL 94V-0 with solder-plated insulation displacement connectors.

CATEGORY 5 GIGAMAX™

[A] 110 Connector Clips Ⓤ	
Description	**Part Number**
C-3 Connector Clips (bag of 10)	49103-IDC
C-4 Connector Clips (bag of 10)	49104-IDC
C-4 Connector Clips (bag of 50)	49104-I50
C-5 Connector Clips (bag of 10)	49105-IDC

Bridging Clips

[B] Clips press onto the two center slots in any row of a Split M block (as shown at left). If outside cable pairs are terminated on left-hand clips and station equipment wire is terminated on right-hand clips, then connections may be made or eliminated easily just by inserting or removing the bridging clips. They can also be used on other products which use 66-clips. Made of tin-plated phosphor bronze alloy, these clips can be easily removed and reused for rewiring.



Bridging Clips	
Description	**Part Number**
[B] Bridging Clips (SA-I), bag of 50 only	40067-BC

Note: *Numbers in parenthesis refer to industry product designation.*

Wire Distribution Spool

[C] Facilitates routing and fanning of cable, cross-connections, and jumper wires to any connection apparatus. Mounts conveniently on backboard of distribution frame.

Wire Distribution Spool with Screw

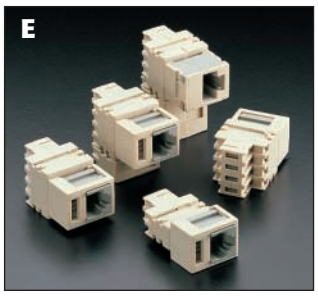
[D] Includes captive wood screw for quick backboard mounting.

Wire Distribution Spools	
Description	**Part Number**
[C] Wire Distribution Spool (20-A) 1-3/4" Dia. x 3" H	40054-DS
[D] Wire Distribution Spool with screw (20-B) 1-3/4" Dia. x 3" H	40054-DSS

Note: *Numbers in parenthesis refer to industry product designation.*

Modular Adapter

[E] Plugs into M blocks to convert 66-clip contacts to a modular jack for quick connection of equipment.

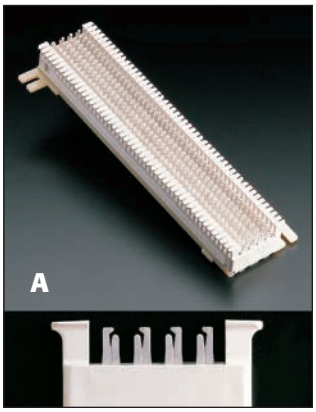


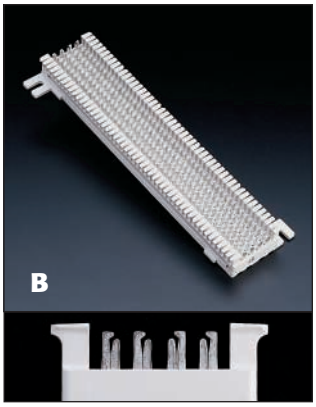
[E] Modular Adapter		
Description	**Part Number**	
2-Position Modular Adapter	40072-T2 (Tap™-2)	Converts two 66-clip contacts into a 6-position, 2-conductor modular jack
4-Position Modular Adapter	40072-T4 (Tap™-4)	Converts four contacts into a 6-position, 4-conductor modular jack
6-Position Modular Adapter	40072-T6 (Tap™-6)	Converts six contacts into a 6-position, 6-conductor modular jack
8-Position Modular Adapter, T568B wiring	40072-T8 (Tap™-8)	Converts eight contacts into an 8-position, 8-conductor non-keyed modular jack

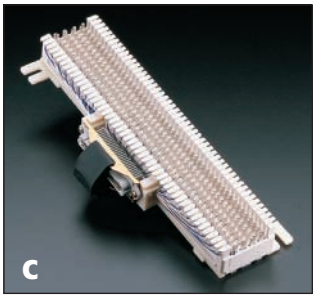
Note: *TAP is a trademark of The Siemon Company.*

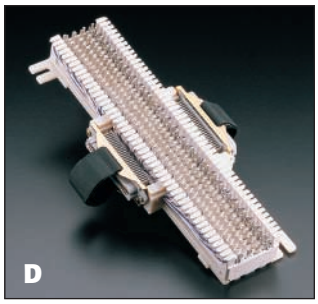
Materials:

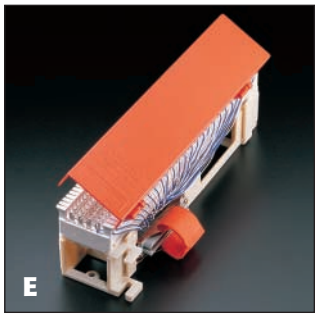
- *Housings: High-impact, fire-retardant plastic rated UL 94V-0.*
- *Spring wire contacts: Phosphor bronze plated with 50 microinches hard gold over 100 microinches nickel.*
- *Wire leads: PVC-insulated 26 AWG stranded copper.*











66-CLIP CONNECTING BLOCKS

These industry-standard blocks are used in equipment rooms to connect voice and data network wiring to customer premises equipment. They are also used in remote and intermediate wiring closets throughout larger installations as common connecting points for nearby equipment. Constructed of high-impact, fire-retardant molded thermoplastic, Leviton connecting blocks utilize phosphor bronze quick-connect insulation displacement 66-clips for ease of installation, and proven mechanical and electrical reliability.

The 66 blocks may be installed individually or in pairs in a cross-connect system to facilitate subsequent adds, moves, and changes. In a cross-connect system, jumper wires are used to make connections between blocks. Stations can then be disconnected and reassigned without disturbing station wire—simply by moving the jumpers. Bridging clips can sometimes be used on split 50 blocks in place of jumpers.

M Block: 25-Pair

[A] Contains 50 rows, each with a single clip having four slots as shown at left. Incoming cable pairs are connected by terminating the tip conductor on the leftmost slot of one row, and the ring conductor on the leftmost slot of the next lower row. The three remaining slots in each clip are available for cross-connects.

Split M Block: 50-Pair

[B] The split M block, like the 25-pair M block, contains 50 rows of clips, but instead of one 4-slot clip, each row contains two separate 2-slot clips. By terminating 25 incoming pairs on the slots of the left-hand clips and an additional 25 pairs on the slots of the right-hand clips, 50 cross-connects can be made. Alternatively, bridging clips may be used to connect the two adjacent sets of clips together. (See Page C9.)

M Block with Female Connector

[C] 50-pair M block with prewired, pretested 25-pair female connector on left side fanning strip to speed connection of incoming pairs.

M Block with Female and Male Connectors

[D] 50-pair M block with prewired, pretested 25-pair female connector on left and male connector on right for fastest installation. Simply plug in connectors and insert bridging clips to complete the connections.

Connectorized Demarc Block

[E] Designed for use at the demarcation point, this 50-pair M block includes mounting bracket and snap-on orange cover with designation strip. Prewired, pretested 25-pair female connector mounted on right side speeds connection of customer premise equipment to the network interface.

66 Clip Connecting Blocks Ⓤ		
Description		**Part Number**
[A]	M Block: 25-pair (66M1-25) 10" H x 3-5/16" W x 1-3/16" D	40066-M25
[B]	Split M Block: 50-pair (66M1-50) 10" H x 3-5/16" W x 1-3/16" D	40066-M50
[C]	M Block with female connector (66M1-50W) 10" H x 3-5/16" W x 1-3/16" D	40066-MW
[D]	M Block with female and male connectors (66M1-50W2) 10" H x 3-5/16" W x 1-3/16" D	40066-MW2
[E]	Connectorized Demarc Block (66M1-50R) 10" H x 3-13/32" W x 2-3/4" D	40066-MR

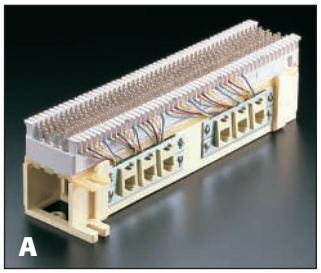
Note: *Numbers in parentheses refer to industry product designation.*

Prewired 66 Blocks

[A] The 66 M1-50 block and 89-D bracket come preassembled with designated jacks.

Prewired 66 Blocks Ⓛ	
Description	**Part Number**
12 6p4c Jacks	49114-QIA
12 6p6c Jacks	49112-QIA
12 8p8c Jacks, T568B	49111-QIA

Materials: *25-pair connector terminals: High-strength copper alloy, selectively gold plated over nickel in contact area. 25-pair connectors meet the requirements of FCC Part 68 for standard telecommunications interface (RJ21X).*



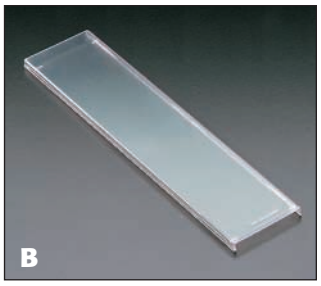
66-CLIP CONNECTING BLOCK ACCESSORIES

Snap-On Cover for M Blocks

[B] Snaps onto 25- and 50-pair M blocks to protect wiring from dust, dirt and incidental shorting. Transparent plastic permits viewing of wiring and pair assignments. Durable, fire-retardant thermoplastic.

Snap-On Cover for M Blocks	
Description	**Part Number**
[B] Snap-on Cover for M blocks (66MC-4) 9-15/16" H x 2-5/16" W x 5/16" D	40050-MCV

Note: *Number in parenthesis refers to industry product designation.*



Hinged Cover for Demarc Blocks

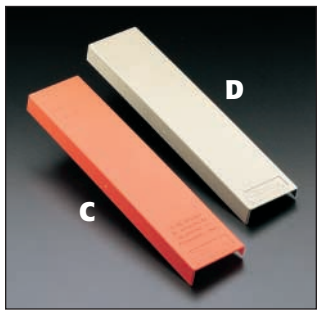
[C] Colored orange to identify the network demarcation point, this hinged cover snaps onto the right side fanning strip of 25- and 50-pair M blocks to protect wiring from dust, dirt and incidental shorting. Allows wires to be routed from both left and right sides. Designation strip included on inside for recording pair assignments.

Hinged Cover for M Blocks

[D] Snaps into the right side fanning strip of 25- and 50-pair M blocks. Protects wiring from dust, dirt, and incidental shorting. Allows wires to be routed from both left and right sides. Designation strip included on inside for recording pair assignments.

Hinged Covers for Demarc and M Blocks	
Description	**Part Number**
[C] Hinged Cover for demarc blocks: orange (66MC4LH-O) 10" H x 2-7/16" W x 3/4" D	40050-MH0
[D] Hinged Cover for M blocks: grey (66MC4LH-G) 10" H x 2-7/16" W x 3/4" D	40050-MHG

Note: *Numbers in parenthesis refer to industry product designation.*



Standoff Bracket for M Blocks

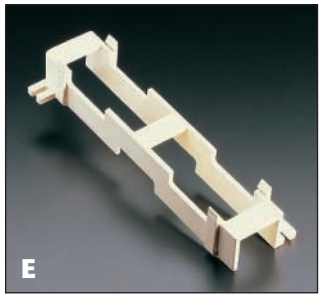
[E] Standard mounting bracket for use with all 25- and 50-pair M blocks.

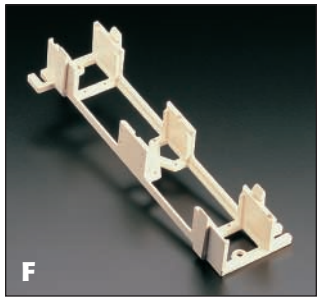
M-Block Bracket for Jack/Connector Mounting

[F] Standoff bracket for 25- and 50-pair M blocks, 89D 110 wiring bases (page C6), and QuickPort Patch Blocks (page C4). Bracket is open at top and bottom so that installers may mount bracket and lay cable, then install connecting block easily at a later date.

Standoff Bracket for M Blocks and M-Block Bracket for Jack/Connector Mounting Ⓛ	
Description	**Part Number**
[E] Standoff Bracket for M blocks (89-B) 10" H x 3-13/32" W x 1-1/2" D	40089-B
[F] M-block Bracket for jack/connector mounting (89-D) 10" H x 3-13/32" W x 1-1/2" D	40089-D

Note: *Numbers in parenthesis refer to industry product designation.*





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Materials:
Surface-Mount Mini Patch Panels

- *Housings: High-impact, fire-retardant plastic rated UL 94V-0.*
- *Connector terminals: High-strength copper alloy, selectively gold plated over nickel in contact area.*
- *Connectors meet the requirements of FCC Part 68 for standard telecommunications interface (RJ21X).*

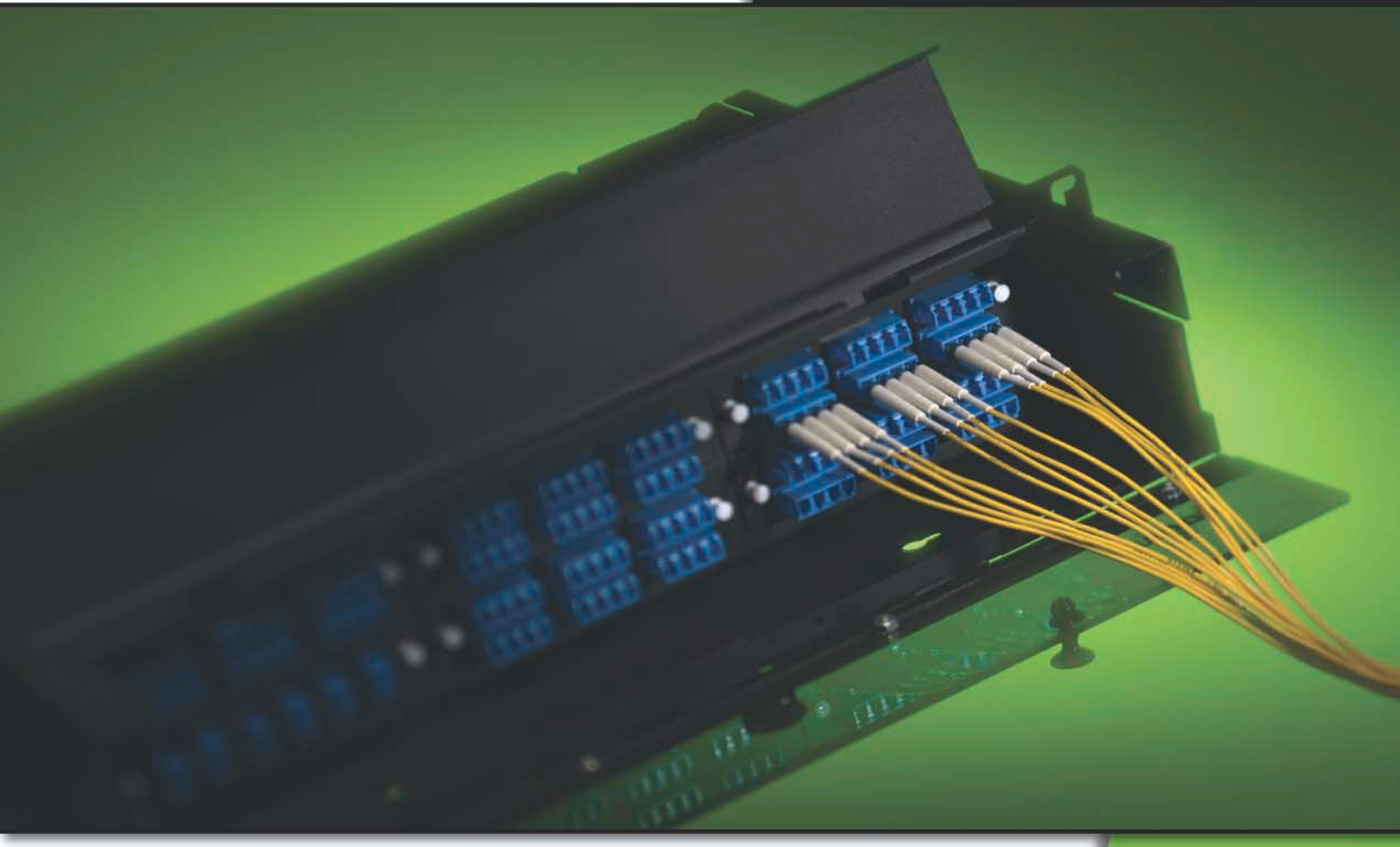
SURFACE-MOUNT MINI PATCH PANELS

For applications where space limitations or simple breakout patching does not justify the use of rack-mounted patch panels, Leviton offers a full-function Mini Patch Panel with modular jacks that can be mounted almost anywhere—even in cramped quarters. Combine two or more panels in-line and use patch cords to make and change connections. Leviton's modular jack design suits most voice and data applications.

Surface-Mount Mini Patch Panels		
Description		**Part Number**
[A]	25 6-position 2-conductor (RJ11) FCC Spec Jacks connected to a circuit board with one male 25-pair connector in surface-mount housing. Wired in standard T-R sequence (26-1, 27-2, 28-3, etc).	41600-I
[B]	25 6-position 4-conductor (RJ14) FCC Spec Jacks wired into two male 25-pair connectors in standard T-R sequence.	41610-I
[C]	25 6-position 2-conductor (RJ11) FCC Spec Jacks connected to a circuit board with two bridged 25-pair connectors (one male and one female) in standard T-R sequence for series connection.	41620-I

Section D

Fiber Components

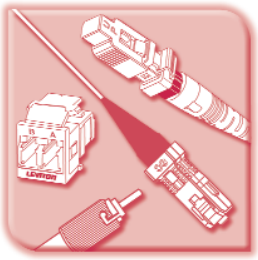


LEVITON®
VOICE & DATA DIVISION

Fiber Components

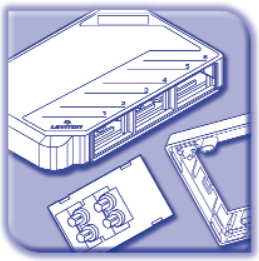
Move your data into the next dimension of networking. Leviton offers fiber solutions for all types of installations: ST®, SC, FC, MT-RJ, LC or any combination thereof. In this chapter find Wall-mount or Rack-mount Fiber Enclosures, a complete selection of Fiber Optic Mounting Plates to fit in them, an extensive line of Fiber Optic Cable Assemblies and Pigtails, and a variety of accessories and adapters.

Related Products



FIBER OPTIC CONNECTORS AND QUICKPORT ADAPTERS

Innovative, craft-friendly ST, SC, FC, MT-RJ and LC connectors, in mechanical or epoxy styles. Plus adapters to fit them to any QuickPort® housing *(Page A6)*.



MULTIMEDIA OUTLET SYSTEM (MOS)

Flexible wallplate system ideal for networks with high volume adds, moves and changes *(Page B8)*.

FIBER OPTIC TOOL KITS

Fiber tool kits for SC, ST, FC, MT-RJ and LC, mechanical or epoxy connectors *(Page F4)*.

VERSI-DUCT™ SLOTTED DUCT SYSTEM

Versatile vertical and horizontal rack cable management system with an array of innovative accessories *(Page E3)*.

HOOK & LOOP CABLE MANAGEMENT

Re-usable Hook and Loop solutions to protect cables and keep work and closet areas neat *(Page B8)*.

DIAGRAMS & INSTRUCTIONS

In our appendix, find step-by-step termination instructions for Thread-Lock, Spectro-LInk and Fast Cure Connector types *(Page X1)*.

DIMENSIONAL DIAGRAMS & GLOSSARY OF TERMS

Dimensional diagrams for fiberoptic connectors, panels and accessories, as well as a complete glossary of terms, are available in our appendix section *(Page X1)*.

FIBER OPTIC ENCLOSURES

FEATURES

- Flexible, trimmable, self-healing grommets at all cable ingress/egress points provide unequalled fit and dust resistance.
- Cable strain relief/tie-down features are abundant throughout each enclosure.
- Hardware and label kit included with each enclosure.
- Dual cable management rings simplify fiber loop installation, bend radius compliance, and future maintenance/additions for storage of 3 meters of 900 micron fiber per coupling.
- Vertical cable pass-throughs at both front and rear of enclosure are sized for 1.25" innerduct to allow patching between enclosures without exiting the enclosure.
- Completely removable doors provide unobstructed access to the enclosure interior.

FEATURES

Rack-mount doors fold down as a work tray or remove completely for more access to the enclosure.

Exclusive self-healing grommet material at all cable ingress/egress points eases cable in, keeps dust out.

Fiber storage rings are expandable and stackable to uniquely simplify installation or maintenance of multiple 3-meter fiber loops, and allow easy future additions—while preserving proper bend radius.

Slide rail option on 1.75", 3.5" & 5.25" high rack-mount enclosures allows easy installation and re-entry from front or back, regardless of equipment or enclosures above.

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LOW-PROFILE RACK-MOUNT FIBER OPTIC ENCLOSURES

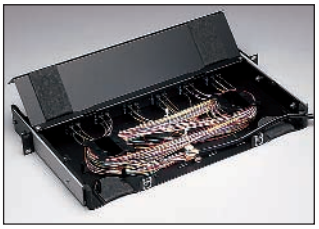
SEE FIBER DENSITY CHART, PAGE D9

A Completely removable top with tilt-up, removable front provides unobstructed access to the enclosure interior.

B Slide rail option allows easy installation and re-entry regardless of equipment or enclosures above.

C Mounting brackets are reversible for mid- or flush-mounting in 19" racks.

D High-density adapter bulkhead houses up to 24 ST® or 12 duplex SC adapters. Another version accepts two six-fiber mounting plates; configure with ST, FC, SC, LC and MT-RJ or add a QuickPort plate to create a multimedia enclosure.



Low-Profile Rack-Mount Enclosures (1RU) w/o Rails Ⓤ	
1.75"H x 19.0"W x 12.0"D	
Description	**Part Number**
24 Fiber ST Bulkhead w/6 adapters	5R030-0AB
24 Fiber SC Bulkhead w/3 duplex adapters	5R030-0HB
12-48 Fiber, empty (accepts 2 bulkheads, sold sep.)	5R130-00N
12 Fiber, loaded w/ST adapters	5R230-0AB
24 Fiber, loaded w/6 duplex SC adapters	5R230-0HB
24 Fiber, unloaded, punched for ST adapters	5R330-0AA
24 Fiber, unloaded, punched for duplex SC adapters	5R330-0HA
24 Fiber loaded w/ST adapters	5R330-0AB
24 Fiber loaded w/12 duplex SC adapters	5R330-0HB
Add-On Slide Rail Kit	
Slide Rail Kit for 0-24 or 0-72 fiber Rack-Mount enclosures only	5S100-SLM
Replacement Door	
24 Fiber Rack-Mount Metal Replacement Door	5D000-1RM

Low-Profile Rack-Mount Enclosure (1RU) w/Rails Ⓤ	
1.75" H x 19.0" W x 12.0" D	
Description	**Part Number**
24 Fiber ST Bulkhead w/6 adapters	5P030-0AB
24 Fiber SC Bulkhead w/3 duplex adapters	5P030-0HB
12-48 Fiber empty (accepts 2 bulkheads, sold sep.)	5P130-00N
12 Fiber loaded w/ST adapters	5P230-0AB
24 Fiber loaded w/6 duplex SC adapters	5P230-0HB
0-24 Fiber unloaded, punched for ST adapters	5P330-0AA
0-24 Fiber unloaded, punched for duplex SC adapters	5P330-0HA
24 Fiber loaded w/ST adapters	5P330-0AB
24 Fiber loaded w/12 duplex SC adapters	5P330-0HB

LOADED *= The enclosure's bulkhead contains the specified couplings.*
UNLOADED *= The enclosure includes a bulkhead which has openings for, but does not include, the specified couplings.*
EMPTY *= No bulkhead coupling plates are included.*

Note: *For mounting plates and accessories, see page D9.*

2RU UNIVERSAL FIBER OPTIC ENCLOSURE

SEE FIBER DENSITY CHART, PAGE D9

A Front and rear tilt-up lids that provide unobstructed access to adapters and mounting plates.

B Room for up to 6 Mounting Plates, housing a wide variety of SC, FC, ST, LC and MT-RJ adapters. See fiber density chart on page D9.

C Horizontal entry ports in the front and back and vertical entry ports in the rear offer egress/ ingress for distribution of patch cables.

D Metal or smoked polycarbonate doors. Metal doors are available with or without a lock.

Wall-mount or Rack-mount! Mid- or flush-mount the 2RU in any space on a standard 19" or 23" rack, or use the universal mounting brackets to flush mount on a wall.

Universal Fiber Optic Enclosures (2RU)	
Description	**Part Number**
2RU Enclosure with Metal Door and one lock/key	5R440-00N
2RU Enclosure with Metal Door (no lock)	5R430-00N
2RU Enclosure with Poly Door (no lock)	5R460-00N
Replacement Doors	
Description	**Part Number**
2RU Replacement Metal Door	5D000-2RM
2RU Replacement Poly Door	5D000-2RP
Accessories	
Description	**Part Number**
12 Splice Ditel Splice Kit	5T000-00T
3M Fibrlock™ Splice Holder	5T000-3MT
AT&T Rotary Splice Holder	5T000-ATT
Lock and Key	5L000-LOK
Slide mounts (kit)	5S100-SLM
Fiber rings, 2 per pack, 2.5" diameter	5R100-OFR

PLEASE NOTE: *All STOCK configurations of this rack-mount enclosure are sold 'empty,' or without any mounting plates installed. Capacity is dependent upon configuration of mounting plates as shown in note. Rack-mount enclosures DO include grounding/strain relief, grommets, labels, and the appropriate number of cable management rings.*

Note: *For mounting plates and accessories, see page D9.*

Wall mount or rack mount for maximum flexibility.

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RACK-MOUNT FIBER OPTIC ENCLOSURES

SEE FIBER DENSITY CHART, PAGE D9

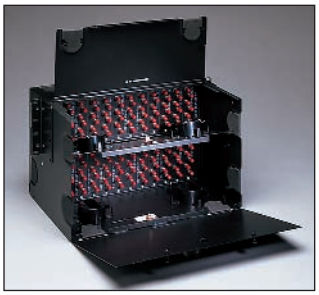
A Tilt-up rear door provides unobstructed access to the fiber loop.

B Reversible mounting brackets allow mounting on 19" or 23" industry standard equipment frames; move forward for flush mount positioning in NEMA enclosures.

C Front and rear doors drop down flat to act as a workshelf, or can be removed completely. Available in metal or smoked polycarbonate.

Includes 8 (3RU) or 16 (6RU) plastic blank mounting plates to inexpensively fill up any unused locations.

Houses up to 12 or 24 mounting plates for assorted fiber or multimedia applications. See chart on page D9.



Rack-Mount Enclosures, 3 Rack Units High (3RU) 5.25" H x 19.0" W x 12.0" D	
Description	**Part Number**
3RU, Empty with metal door, no lock	5R730-00N
3RU, Empty with metal door and one lock/key	5R740-00N
3RU, Empty with smoked polycarbonate door, no lock	5R760-00N
Rack-Mount Enclosures, 6 Rack Units High (6RU) 10.5" H x 19.0" W x 12.0" D	
Description	**Part Number**
6RU, Empty with metal door, no lock	5R930-00N
6RU, Empty with metal door and one lock/key	5R940-00N
6RU, Empty with smoked polycarbonate door, no lock	5R960-00N
Add-On Slide Rail Kit	
Slide rail kit for 3RU or 6RU fiber Rack-Mount enclosures only	5S100-SLM
Replacement Door	
3RU Rack-Mount replacement metal door	5D000-3RM
3RU Rack-Mount replacement smoked poly door	5D000-3RP
Add-on Lock and Key	
Add security to an existing door for this enclosure—simply remove the black plastic plug on the door front, and replace with lock mechanism. Lock and Key	5L000-LOK

PLEASE NOTE: *All STOCK configurations of this rack-mount enclosure are sold 'empty,' or without any mounting plates installed. Capacity is dependent upon configuration of mounting plates as shown in note. Rack-mount enclosures DO include grounding/strain relief, grommets, labels, 8 or 16 blank plastic mounting plates, and the appropriate number of cable management rings.*

Note: *For mounting plates and accessories, see page D9.*

WALL-MOUNT FIBER OPTIC ENCLOSURES

SEE FIBER DENSITY CHART, PAGE D9

A

Doors are L-shaped for maximum access to couplings through the open sidewall.
Door options:
- Split with single lock
- Split with two locks (custom option)
- Solid with single lock
- Solid without lock

B

Unique cable management ring is adjustable and stackable to simplify fiber loop installation, bend radius compliance, and future maintenance/additions. Stores 3 meters of 900 micron fiber per adapter.

C

Houses 2 (small), 4 (medium) or 12 mounting plates for assorted fiber or multi-media applications. See chart on page D9.

D

Sidewall cutout gives completely unobstructed access to the mounting plates when door is open (covered when door is closed).

Small Wall-Mount Enclosures 8.0" H x 13.0" W x 3.5" D	
Description	**Part Number**
Small, Empty with solid metal door, no lock, holds no splice trays	5W110-00N
Small, Empty with split metal door and one lock/key, holds no splice trays	5W120-00N
Small, Empty with solid metal door and lock/key, holds no splice trays	5W170-00N
Medium Wall-Mount Enclosures 14.0" H x 12.0" W x 5.25" D	
Medium, Empty with solid metal door, no lock, holds 6 splice trays	5W310-00N
Medium, Empty with split metal door and one lock/key, holds 6 splice trays	5W320-00N
Medium, Empty with solid metal door and one lock/key, holds 6 splice trays	5W370-00N
Large Wall-Mount Enclosure 17.0" H x 15.0" W x 5.25" D	
Description	**Part Number**
Large, Empty with solid metal door, no lock, holds 6 splice trays	5W710-00N
Large, Empty with split metal door and one lock/key, holds 6 splice trays	5W720-00N
Large, Empty with solid metal door and lock/key, holds 6 splice trays	5W770-00N
Add-on Lock and Key	
Add security to an existing metal enclosure door. Simply remove the black plastic plug on the door front, and replace with lock mechanism.	
Lock and Key	5L000-LOK

PLEASE NOTE: *All STOCK configurations of this wall-mount enclosure are sold 'empty,' or without any mounting plates installed. Capacity is dependent upon configuration of mounting plates shown on page D9. The wall-mount enclosures DO include grounding/strain relief, grommets, labels, and the appropriate number of cable management rings. Large Wall-Mount Enclosure includes 8 blank plastic mounting plates.*

Note: *For mounting plates and accessories, see page D9.*

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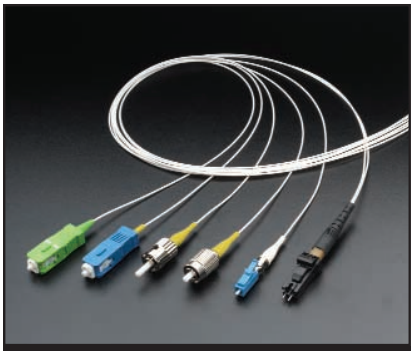
FIBER OPTIC CABLE ASSEMBLIES

Leviton now offers an expanded line of low cost, high quality fiber optic cable assemblies and pigtail connectors for frame and workstation. Strenuously tested for return and insertion loss, and held to strict internal quality standards, these cable assemblies are developed to exceed TIA 568-B.3 standards. The line includes standard & hybrid combinations of connectors, as well as a selection of pigtail fiber connectors in ST, SC, FC, LC and MT-RJ styles. We can even provide custom lengths and configurations for fiber runs, to your exact specifications—simply call customer service for more information. PLEASE NOTE: CUSTOM LENGTHS MAY REQUIRE A WAITING PERIOD. All cables are OFNR* rated and meet all applicable TIA/EIA and industry standards.

**OFNP-rated cables are available as a special order. See below.*

Multimode

Singlemode



Pigtail

	Connector Style	Density	PC Polish	SPC Polish	UPC Polish	APC Polish	50 micron	62.5 micron
• STANDARD •	MT-RJ to MT-RJ	Duplex	–	–	–	–	50DMJ-M**	62DMJ-M**
	ST to ST	Duplex	PCDST-S**	SPDST-S**	UPDST-S**	–	50DST-M**	62DST-M**
	ST to ST	Simplex	PCSST-S**	SPSST -S**	UPSST-S**	–	✎	✎
	SC to SC	Duplex	PCDSC-S**	SPDSC-S**	UPDSC-S**	APDSC-S**	50DSC-M**	62DSC-M**
	SC to SC	Simplex	PCSSC-S**	SPSSC-S**	UPSSC-S**	APSSC-S**	✎	✎
	FC to FC	Duplex	✎	✎	✎	✎	50DFC-M**	62DFC-M**
	FC to FC	Simplex	PCSFC-S**	SPSFC-S**	UPSFC-S**	APSFC-S**	✎	✎
	LC to LC	Duplex	PCDLC-S**	✎	✎	–	50DLC-M**	62DLC-M**
	LC to LC	Simplex	PCSLC-S**	SPSLC-S**	UPSLC-S**	–	✎	✎
• HYBRID •	MT-RJ to SC	Duplex	–	–	–	–	50DCM-M**	62DCM-M**
	MT-RJ to ST	Duplex	–	–	–	–	50DTM-M**	62DTM-M**
	ST to SC	Duplex	PCDCT-S**	SPDCT-S**	UPDCT-S**	–	50DCT-M**	62DCT-M**
	ST to SC	Simplex	PCSCT-S**	SPSCT-S**	UPSCT-S**	–	✎	✎
	ST to FC	Duplex	✎	✎	✎	–	50DTF-M**	62DTF-M**
	ST to FC	Simplex	PCSTF-S**	SPSTF-S**	UPSTF-S**	–	✎	✎
	SC to FC	Duplex	✎	✎	✎	✎	50DCF-M**	62DCF-M**
	SC to FC	Simplex	PCSCF-S**	SPSCF-S**	UPSCF-S**	APSCF-S**	✎	✎
	ST to LC	Duplex	PCDTL-S**	✎	✎	✎	50DTL-M**	62DTL-M**
	ST to LC	Simplex	PCSTL-S**	SPSTL-S**	UPSTL-S**	✎	✎	✎
	SC to LC	Duplex	PCDCL-S**	✎	✎	✎	50DCL-M**	62DCL-M**
	SC to LC	Simplex	PCSCL-S**	SPSCL-S**	UPSCL-S**	✎	✎	✎
	FC to LC	Simplex	PCSFL-S**	SPSFL-S**	UPSFL-S**	✎	✎	✎
• PIGTAIL •	MT-RJ	Duplex	–	–	–	–	50PMJ-M03	62PMJ-M03
	ST	Simplex	PCPST-S03	SPPST-S03	UPPST-S03	–	50PST-M03	62PST-M03
	SC	Simplex	PCPSC-S03	SPPSC-S03	UPPSC-S03	APPSC-S03	50PSC-M03	62PSC-M03
	FC	Simplex	PCPFC-S03	SPPFC-S03	UPPFC-S03	APPFC-S03	✎	✎
	LC	Simplex	PCPLC-S03	SPPLC-S03	UPPLC-S03	✎	50PLC-M03	62PLC-M03

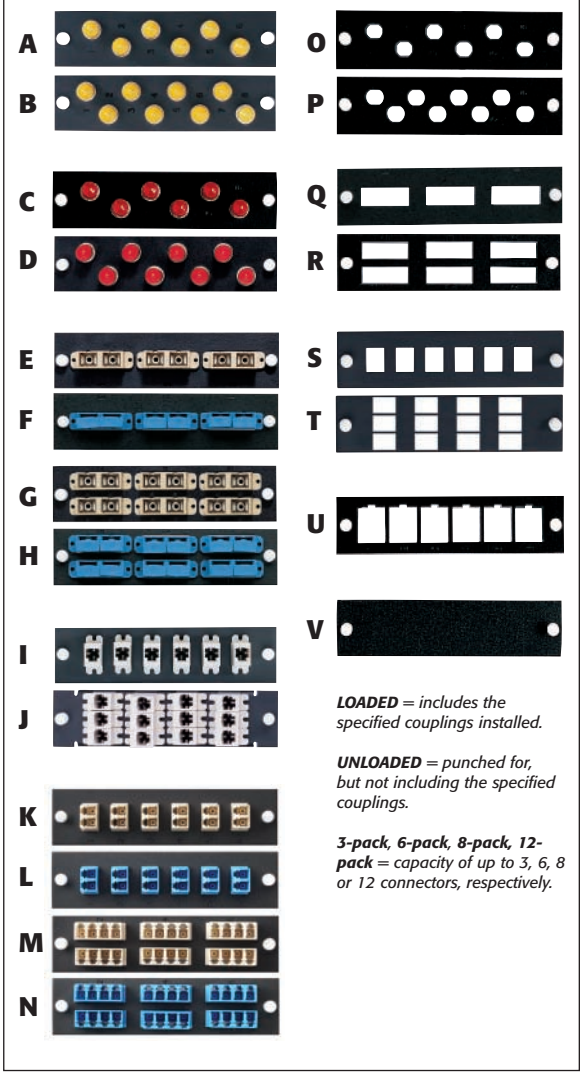
✎ **= Special Order -** Call Customer Service at 1-800-722-2082. **** = Length -** 1 meter **(01),** 2 meters **(02),** 3 meters **(03),** 5 meters **(05),** or 10 meters **(10)**. All Pigtail Assemblies come standard in 3 meter lengths. **Note:** To order custom lengths or configurations, please call Customer Service at 1-800-722-2082.

FIBER OPTIC ACCESSORIES

Loaded and Unloaded Fiber Mounting Plates

Loaded Fiber Mounting Plates - With pre-installed adapters		
	Description	**Part Number**
[A]	6-Pack ST, *phos. bronze sleeve*	5F100-1ST
	6-Pack ST, *zirconia ceramic sleeve*	5F100-6ZT
[B]	8-Pack ST, *phos. bronze sleeve*	5F100-8ST
	8-Pack ST, *zirconia ceramic sleeve*	5F100-8ZT
[C]	6-Pack FC, *phos. bronze sleeve*	5F100-6PF
	6-Pack FC, *zirconia ceramic sleeve*	5F100-6ZF
[D]	8-Pack FC, *phos. bronze sleeve*	5F100-8PF
	8-Pack FC, *zirconia ceramic sleeve*	5F100-8ZF
[E]	3-Pack Duplex SC *(beige), phos. bronze sleeve*	5F100-3BC
[F]	3-Pack Duplex SC *(blue), phos. bronze sleeve*	5F100-3SC
	3-Pack Duplex SC *(blue), zirconia ceramic sleeve*	5F100-3ZC
[G]	6-Pack Duplex SC *(beige), phos. bronze sleeve*	5F100-6BC
[H]	6-Pack Duplex SC *(blue), phos. bronze sleeve*	5F100-CSC
	6-Pack Duplex SC *(blue), zirconia ceramic sleeve*	5F100-6ZC
[I]	6-Pack MT-RJ *(beige), dual polarity multimode*	5F100-6MC
[J]	12-Pack MT-RJ *(beige), dual polarity multimode*	5F100-12M
[K]	6-Pack MM Duplex LC (12-fiber) *(beige), phos. bronze sleeve*	5F100-12P
[L]	6-Pack SM Duplex LC (12-fiber) *(blue), zirconia ceramic sleeve*	5F100-12Z
[M]	6-Pack MM Quad LC (24-fiber) *(beige), phos. bronze sleeve*	5F100-24P
[N]	6-Pack SM Quad LC (24-fiber) *(blue), zirconia ceramic sleeve*	5F100-24Z

Unloaded Prepunched Fiber Mounting Plates - Adapters not included		
	Description	**Part Number**
[O]	6-Pack ST/FC	5F100-0ST
[P]	8-Pack ST/FC	5F100-NST
[Q]	3-Pack Duplex SC/6-Pack Duplex LC (12-fiber)	5F100-3CE
[R]	6-Pack Duplex SC/6-Pack Quad LC (24-fiber)	5F100-0SC
[S]	6-Pack MT-RJ/6-Pack Duplex LC (12-fiber)	5F100-OMT
[T]	12-Pack MT-RJ	5F100-O12
[U]	6-Pack QuickPort Snap-In Connector	5F100-6QP
[V]	Blank, *metal*	5F100-BLK
	Blank, *plastic*	5F100-BPP



LOADED *= includes the specified couplings installed.*

UNLOADED *= punched for, but not including the specified couplings.*

3-pack, 6-pack, 8-pack, 12-pack *= capacity of up to 3, 6, 8 or 12 connectors, respectively.*

STYLES

• RACK MOUNT DENSITY •

Low Profile 1RU
Holds 1 Bulkhead w/or w/o 2 Mounting Plates
6-pack ST = up to 12 Fibers
8-pack ST = up to 16 Fibers
6-pack FC = up to 12 Fibers
8-pack FC = up to 16 Fibers
3-pack Duplex SC = up to 12 Fibers
6-pack SC = up to 24 Fibers
6-pack MT-RJ/DLC = up to 24 Fibers
12-pack MT-RJ/QLC = up to 48 Fibers

3RU
Holds up to 12 Mounting Plates
6-pack ST = up to 72 Fibers
8-pack ST = up to 96 Fibers
6-pack FC = up to 72 Fibers
8-pack FC = up to 96 Fibers
3-pack Duplex SC = up to 72 Fibers
6-pack SC = up to 144 Fibers
6-pack MT-RJ/DLC = up to 144 Fibers
12-pack MT-RJ/QLC = up to 288 Fibers

2RU
Holds up to 6 Mounting Plates
6-pack ST = up to 36 Fibers
8-pack ST = up to 48 Fibers
6-pack FC = up to 36 Fibers
8-pack FC = up to 48 Fibers
3-pack Duplex SC = up to 36 Fibers
6-pack SC = up to 72 Fibers
6-pack MT-RJ/DLC = up to 72 Fibers
12-pack MT-RJ/QLC = up to 144 Fibers

6RU
Holds up to 24 Mounting Plates
6-pack ST = up to 144 Fibers
8-pack ST = up to 192 Fibers
6-pack FC = up to 144 Fibers
8-pack FC = up to 192 Fibers
3-pack Duplex SC = up to 144 Fibers
6-pack SC = up to 288 Fibers
6-pack MT-RJ/DLC = up to 288 Fibers
12-pack MT-RJ/QLC = up to 576 Fibers

• WALL MOUNT DENSITY •

Small
Holds up to 2 Mounting Plates
6-pack ST = up to 12 Fibers
8-pack ST = up to 16 Fibers
6-pack FC = up to 12 Fibers
8-pack FC = up to 16 Fibers
3-pack Duplex SC = up to 12 Fibers
6-pack SC = up to 24 Fibers
6-pack MT-RJ/DLC = up to 24 Fibers
12-pack MT-RJ/QLC = up to 48 Fibers

Medium
Holds up to 4 Mounting Plates
6-pack ST = up to 24 Fibers
8-pack ST = up to 32 Fibers
6-pack FC = up to 24 Fibers
8-pack FC = up to 32 Fibers
3-pack Duplex SC = up to 24 Fibers
6-pack SC = up to 48 Fibers
6-pack MT-RJ/DLC = up to 48 Fibers
12-pack MT-RJ/QLC = up to 96 Fibers

Large
Holds up to 12 Mounting Plates
6-pack ST = up to 72 Fibers
8-pack ST = up to 96 Fibers
6-pack FC = up to 72 Fibers
8-pack FC = up to 96 Fibers
3-pack Duplex SC = up to 72 Fibers
6-pack SC = up to 144 Fibers
6-pack MT-RJ/DLC = up to 144 Fibers
12-pack MT-RJ/QLC = up to 288 Fibers

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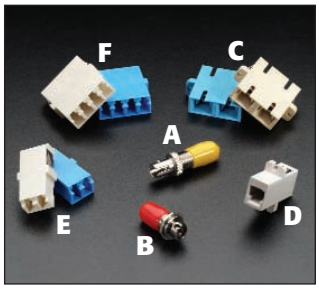
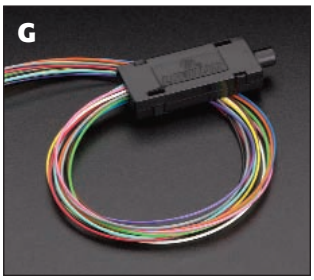


Fiber Adapters

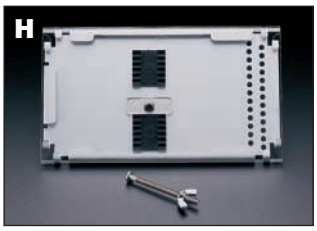
Fiber Adapters	
Description	**Part Number**
[A] ST® Adapter w/Phosphor Bronze Sleeve	49882-SAD
ST Adapter w/Zirconia Sleeve	49882-ZAD
[B] FC Adapter w/Phosphor Bronze Sleeve	49883-SAD
FC Adapter w/Zirconia Sleeve	49883-MAD
[C] SC Duplex Adapter (blue) w/Zirconia Sleeve	49884-SAD
SC Duplex Adapter (blue) w/Phosphor Bronze Sleeve	49884-MAD
SC Duplex Adapter (beige) w/Phosphor Bronze Sleeve	49884-BAD
[D] MT-RJ Adapter (beige)	49889-MAD
[E] Duplex LC Adapter (beige)	5F100-DLC
Duplex LC Adapter (blue)	5F100-DLZ
[F] Quad LC Adapter (beige)	5F100-QLC
Quad LC Adapter (blue)	5F100-QLZ



Fiber Optic Fan-Out Kit

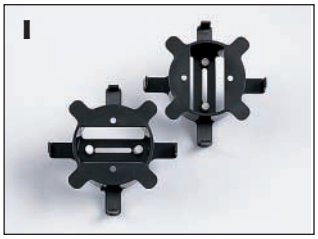
[G] Protect your bare fiber and prepare loose-tube cable for direct termination with these simple 6- or 12-fiber kits. Available in 24" or 36" lengths. Kits separate 250 µm fibers and route them into color-coded 900 µm buffer tubes. No proprietary tools required. Can be used with any manufacturers loose-tube cabling, and any industry standard connectors.

Fiber Optic Fan-Out Kit	
Description	**Part Number**
[G] 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



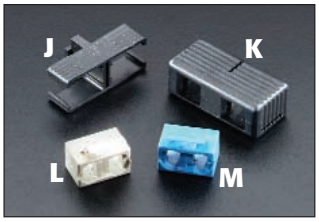
Splice Tray Kits

Splice Tray Kits	
Description	**Part Number**
[H] 12-splice Ditel™ Splice Tray Kit (Comes standard with Fusion/Heatshrink splice holders; Fibrlok™ Splice Holder is available below)	5T000-00T
Fibrlok™ Splice Holder	5T000-3MT
AT&T™ Rotary Splice Holder	5T000-ATT



Extra Cable Management Rings

Extra Cable Management Rings	
Description	**Part Number**
[I] Additional Fiber Cable Management Rings (package of 2)—Can be stacked on top of existing rings for additional cable storage or management.	5R100-0FR



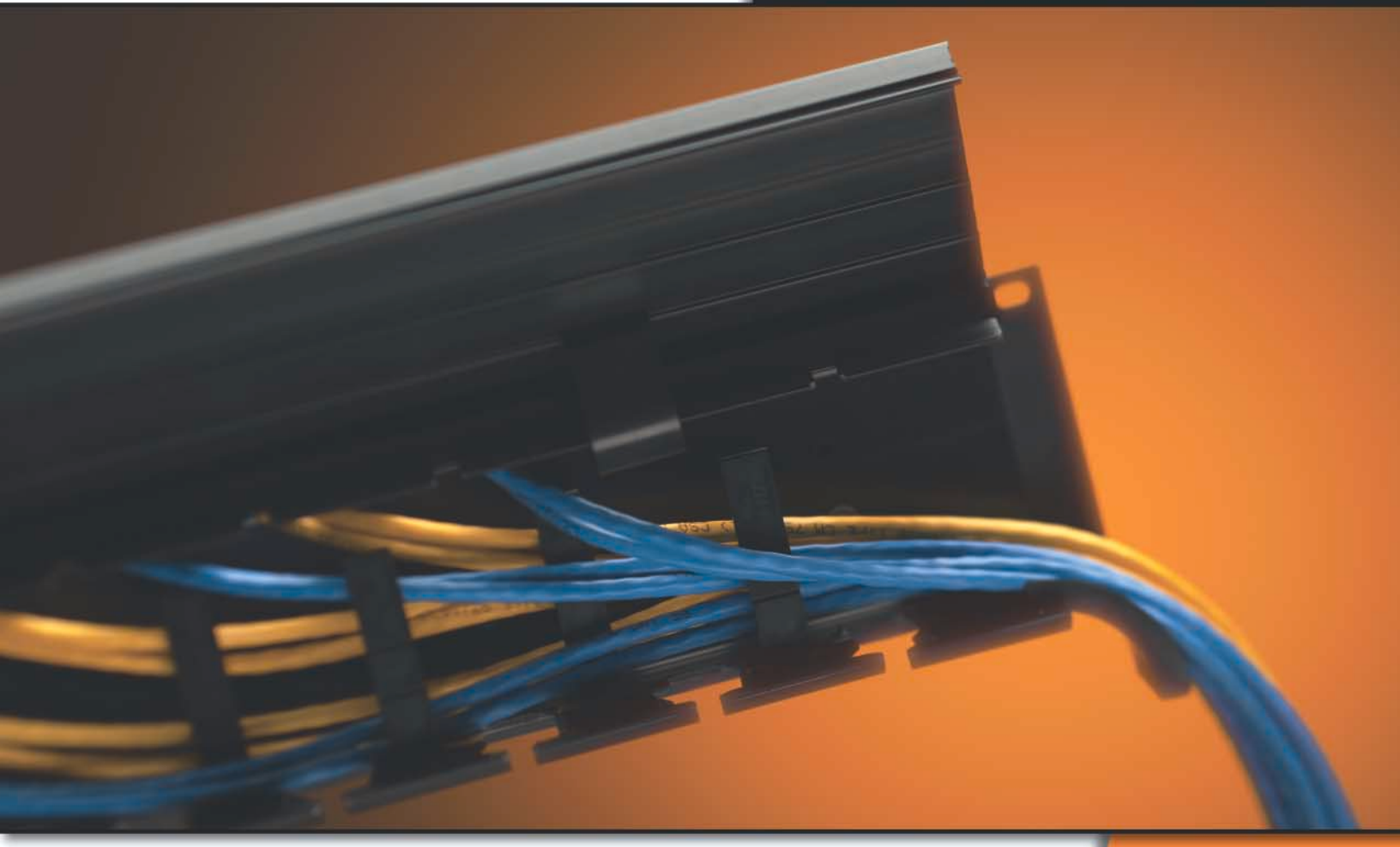
Duplex Clip

[J-M] The Duplex Clips allow you to keep two assembled connectors together to maintain "transmit/receive" fiber integrity.

Duplex Clips	
Description	**Part Number**
[J] Thread-Lock SC Duplex Clip, 25 clips per polybag	49884-DPC
[K] Fast-Cure SC Duplex Clip, (beige) 25 clips per polybag	49886-DSC
[L] Fast-Cure LC Duplex Clip, (beige) 25 clips per polybag	49886-DLM
[M] Fast-Cure LC Duplex Clip, (blue) 25 clips per polybag	49886-DLS

Section E

Cable Management



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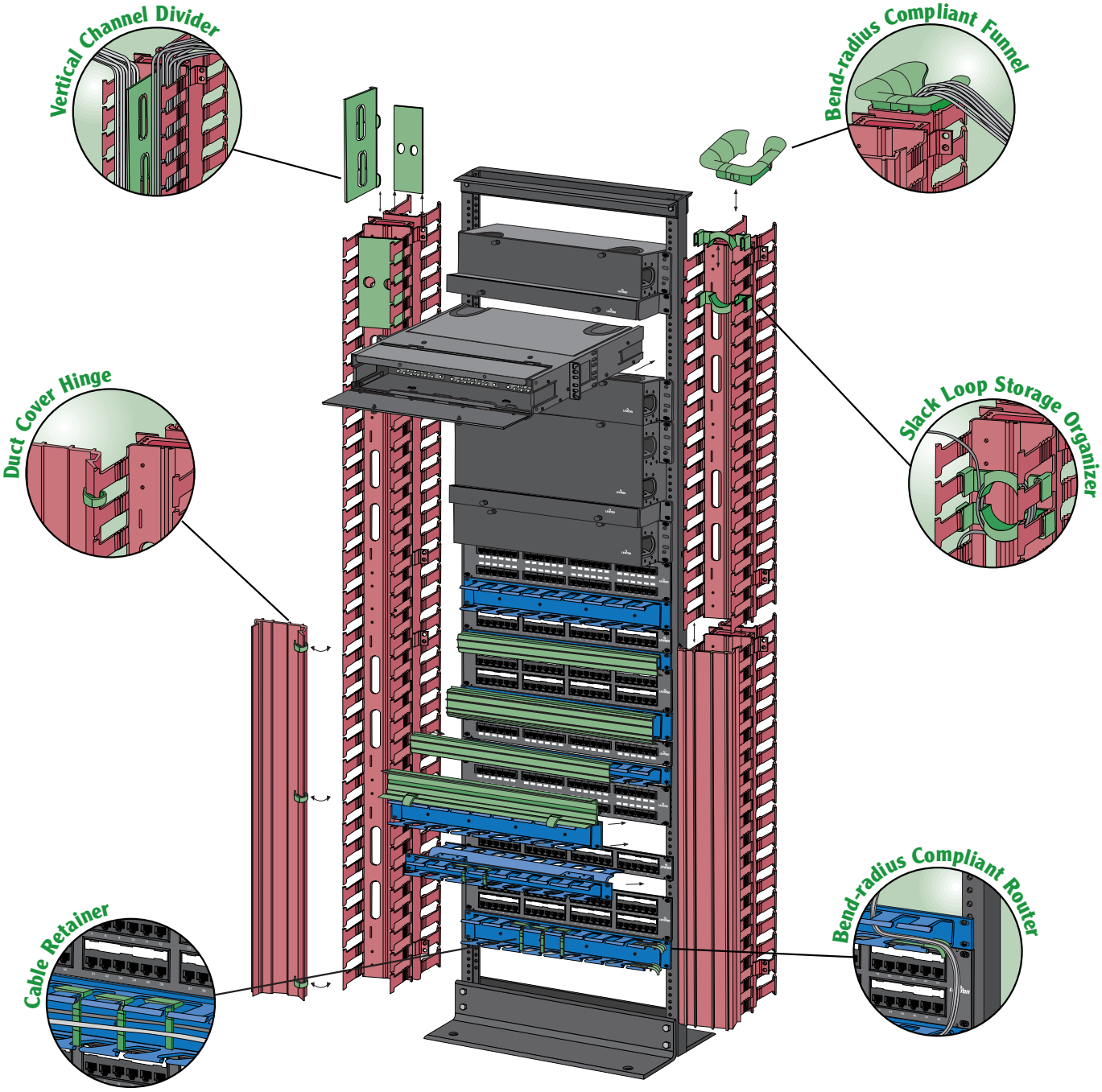


VERSI-DUCT™ SLOTTED DUCT

Route and protect fiber and copper cable with the Versi-Duct™ Slotted Duct System from Leviton. Designed to fit on any standard 19" equipment rack, this innovative slotted duct system uses a small number of accessories to achieve a wide range of cable management solutions.

- **Vertical Versi-Duct Components**
- **Horizontal Versi-Duct Components**
- **Versi-Duct Accessories**

VERSI-DUCT™ SLOTTED DUCT CABLE MANAGEMENT SYSTEM

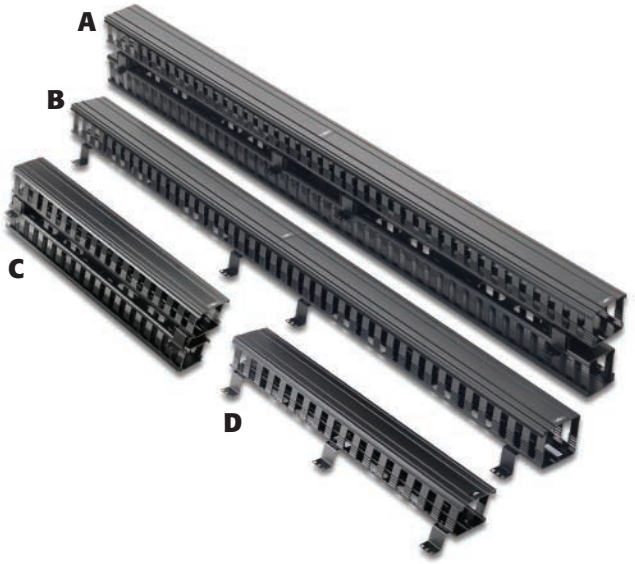
Leviton's unique Versi-Duct™ Slotted Duct System provides a versatile simple solution for fiber and copper cable organization and management. The horizontal duct is available in both one rack (1RU-1.75") or two-rack (2RU-3.5") unit sizes to accommodate both small and large cable systems. Vertical slotted ducts comes in a 35" half or 83" full rack height version. Both the horizontal and vertical slotted ducts come in Front Only or Front & Back configurations with cable-concealing covers and an assortment of accessories. Versi-Duct is the ideal system for efficient, adaptable rack and frame cable management.

FEATURES

- Versatile accessories solve a variety of cable management challenges
- Suitable for copper and fiber applications
- Slack loop control feature
- Helps maintain proper cable bend radii
- Offered in Front & Back and Front Only versions (for both vertical and horizontal ducts)
- Horizontal Duct offered in 1RU (1.75") and 2RU (3.50") sizes
- Horizontal Duct offered in 35" and 83" lengths
- Cable concealing covers with optional hinges

Versi-Duct™ Slotted Duct Cable Management System

Description		Part Number
[A]	Vertical Front & Rear Duct, 83" high (w/spacer)	49266-VFR
[B]	Vertical Front-only Duct, 83" high	49266-VFO
[C]	Vertical Front & Rear Duct, 35" high (w/spacer)	49275-VFR
[D]	Vertical Front-only Duct, 35" high	49265-VFO
[E]	Horizontal Front & Rear Duct, 2RU (w/spacer)	49275-HFR
[F]	Horizontal Front & Rear Duct, 1RU (w/spacer)	49274-HFR
[G]	Horizontal Front-only Duct, 2RU	49265-HFO
[H]	Horizontal Front-only Duct, 1RU	49264-HFO
[I]	Vertical Channel Divider	49265-DV1
[J]	Lateral Channel Divider (front)	49265-DV2
[K]	Lateral Channel Divider (rear)	49265-DV3
[L]	Slack Loop Storage Organizer, extended (2")	49265-SL2
[M]	Bend-radius Compliant Funnel, rear only	49265-FN4
[N]	Duct Cover Hinge	49265-HNG
[O]	Extended Cover, Front-only 2RU	49265-EX3
[P]	Extended Cover, Front-only 1RU	49265-EX1
[Q]	Slack Loop Storage Organizer	49265-SL1
[R]	Bend-radius Compliant Router	49265-CR1
[S]	Cable Retainer	49265-WR1
[T]	Mounting Bracket	49265-BRK



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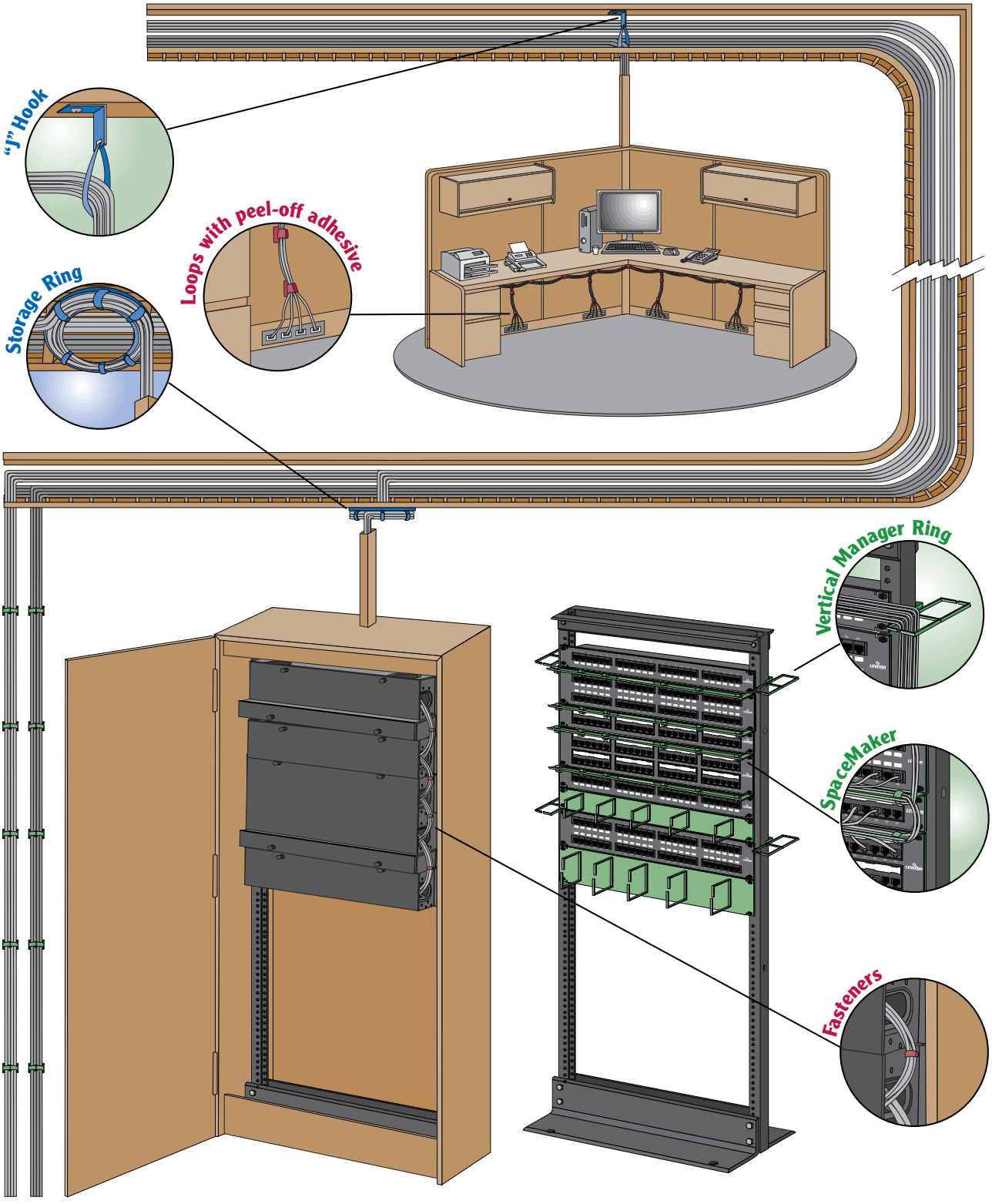


HOOK AND LOOP CABLE MGMT.

Leviton's line of re-usable Hook and Loop products manage cable from installation to application. Hook and Loop is a smart alternative to traditional cable management systems. Space-efficient and cost-effective for both new and retrofit jobs, it won't pinch cable and helps provide correct cable bend radius—thus ensuring a system's continual integrity, and protecting against signal loss or degradation.

- **General Purpose - Hook and Loop**
- **Pathways/Spaces - Hook and Loop**
- **Rack Wire Management**

RACK AND FRAME CABLE MANAGEMENT

Hook and Loop products provide an easy, sensible solution for any kind of rack. Because Hook and Loop material is 're-openable', new jobs and retrofits are hassle-free. And, cable integrity is never sacrificed because Hook and Loop Cable Management never pinches cables too tightly.

The SpaceMaker

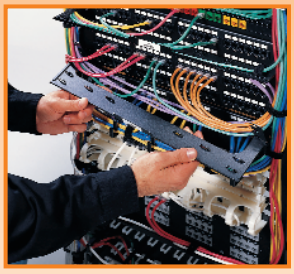
Saves up to 80% installation labor time and **REQUIRES NO RACK SPACE** to install. The SpaceMaker Cable Manager works well for both new installations or retrofits.

- Cables are supported in front of while maintaining port accessibility.
- The SpaceMaker can also be used to support cables in the back of the rack.
- Attached loops help manage cables without wasting rack space.
- Allows cable management of 24- to 96-ports.
- No need to move existing panels, because the SpaceMaker uses existing screws on patch panels or electronics; simply loosen screws, slide SpaceMaker in, then re-tighten screws.
- Knock-off mounting tabs fit all equipment by using standard rack screw-hole pattern.
- Multiple SpaceMakers can be mounted one on top of another and even upside-down.
- Made of 14-gauge steel.

SpaceMaker Cable Manager	
Description	**Part Number**
SpaceMaker Cable Manager	41188-SM1

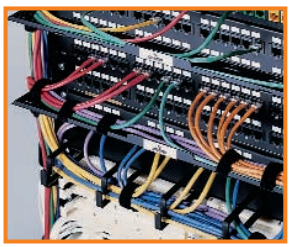
FEATURES

SpaceMaker Retrofit



The SpaceMaker installs easily over existing patch panels and takes up no rack space.

The attached Hook & Loop ties secure cables tightly, yet don't pinch cables.



The SpaceMaker allows unobstructed port access.

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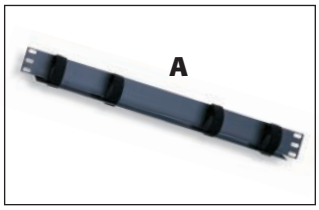
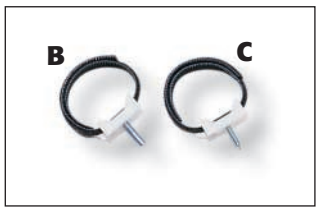


Recloseable Cable Bars

- Manages cables vertically and horizontally on relay racks and cabinets.
- 19" Metal-clad horizontal bar with attached loops (Hook and Loop-style) screws into rack to manage cables horizontally.

Recloseable Cable Bars	
Description	**Part Number**
[A] Metal Clad Horizontal Bar for 19" Racks	41150-019



Recloseable Saddle Ties

Two styles of loop, (both Hook and Loop material) secure with a screw to wood surfaces, relay racks or enclosures to manage cable. 10/32 metal rack screw or #8 wood screw versions available.

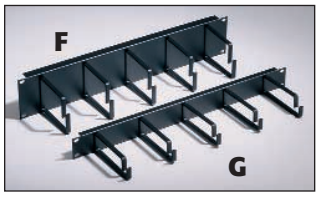
Recloseable Saddle Ties	
Description	**Part Number**
[B] Recloseable Saddle Tie with 10/32 metal rack screw (25 per pack)	41020-SPR
[C] Recloseable Saddle Tie with #8 wood screw (25 per pack)	41010-SPW

RACK CABLE MANAGEMENT

Angled Panel Cable Management Accessories

Suitable for Category 5e or 6 Angled Patch Panels, this array of accessories for rack management includes: Angled Cable Management Bar, Horizontal Ring, 1RU and 2RU Angled Blank Panel inserts, and Top Blank Panel with Cover.

Angled Panel Cable Management Accessories	
Description	**Part Number**
[D] Vertical Transition Ring (Horizontal Cable Ring), 2/box	49262-HRI
[E] Angled Cable Management Bar	49006-AMB

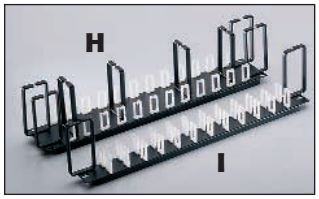


FIVE-RING MANAGERS

Standard Interbay Cord Manager

Reduces patch cord bundle congestion and tension stress. 3" x 4" rings provide support for high-capacity cord distribution. Low Profile Cord Manager incorporates five 1.5" x 4.0" horizontal rings within a single EIA unit height.

Five-Ring Managers	
Description	**Part Number**
[F] Standard Interbay Cord Manager (19" wide, 3.5" high)	49253-BCM
[G] Low Profile Cord Manager (19" wide, 1.75" high)	49253-LPM



CORD ORGANIZERS

One and Two-Position Organizer Panels

Two position Cord Organizer combines horizontal and vertical distribution rings with individual routing clips for patch cord organization between patch panels. One Position Cord Organizer is 1.75" high with vertical distribution rings and individual routing clips.

Cord Organizers	
Description	**Part Number**
[H] Two-Position Organizer Panel (19" wide, 3.5" high)	49252-P02
[I] One-Position Organizer Panel (19" wide, 1.75" high)	49252-P01

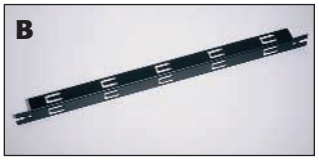
Combo Front/Rear Manager

Manage front and rear cables/cords in a 3.5" high standard rack space. Oversized front rings meet larger-capacity requirements for patch cords. Rear management maintains bend radius of cables routed from vertical channels. Retention rings and fixed anchor points for 'loose-fit' or tie-wrapped bundles

Combo Front/Rear Manager	
Description	**Part Number**
[A] Combo Front/Rear Manager (19.0" wide, 3.5" high)	49252-PCM

Tie Wrap Bar

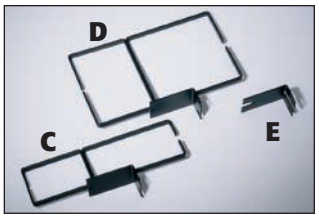
Mounts at the rear of standard EIA racks to support cable bundles and help maintain their bend radii near cable terminations. Fixed anchor points for 'loose-fit' tie wrapped cables.



Tie Wrap Bar	
Description	**Part Number**
[B] Tie Wrap Bar (19" wide, 1.0" high, 1.5" deep)	49258-TWB

Vertical Management Components

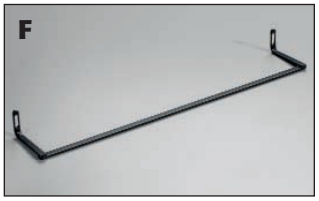
Flexible, customizable front and rear vertical management. 'Open ring' system can be changed as needed, for total customization and on-site adaptability. An optional tie bracket and divider panel can be added to provide cord and cable separation between racks.



Vertical Management System Tie Wrap Bar	
Description	**Part Number**
[C] 3" Vertical Manager Ring (4-pair cable capacity: 180 rear, 250 front)	49260-MR3
[D] 6" Vertical Manager Ring (4-pair cable capacity: 360 rear, 500 front)	49260-MR6
[E] Tie Bracket to secure vertical manager ring to adjacent rack	49261-BKT

Cable Management Bar

Mounts on standard 19" equipment rack to support cables on preconfigured and field-configurable Category 5, Category 5e, Category 6, QuickPort and Voice Grade Panels.



Tie Wrap Bar	
Description	**Part Number**
[F] Cable Management Bar	49005-CMB

GENERAL PURPOSE HOOK & LOOP CABLE MANAGEMENT

No job is too small or too large: for whatever your cable management needs, Leviton has a Hook and Loop product to keep your cable well under wraps. These innovative solutions are perfect for the messy cables that accumulate around the Workstation.

Recloseable Compression Strap

- This Recloseable Hook and Loop cable strap is the ideal solution for heavy vertical cable runs. Lined with non-slipping Vintex material, the Recloseable Compression Strap accommodates bundle circumference from 3" to 9".
- To securely mount to walls or ceilings, install Footman Loops on either side of cable bundle. Made of stainless steel.

Recloseable Compression Strap	
Description	**Part Number**
[G] Recloseable Compression Strap	45224-RCS

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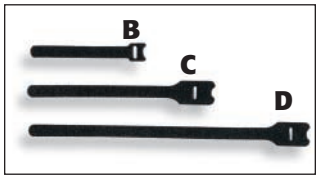
Recloseable "J"-Hook

This convenient Hook and Loop-style "J"-hook is height-adjustable to bypass ductwork and other construction obstacles in ceilings. Adjustable circumference opens up to 8" diameter.

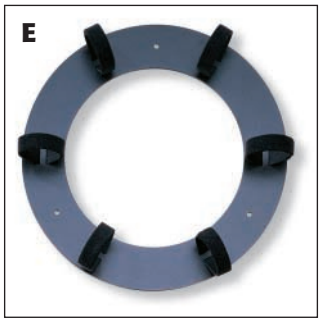
Recloseable "J"-Hook	
Description	**Part Number**
[A] Recloseable "J" Hook	46700-SLG



Recloseable Tie-Wraps

A Hook and Loop tie-wrap that easily reopens for moves, adds and changes, this general purpose Hook and Loop strap is available in 5", 8" and 12" lengths 0.50" width.

Recloseable Tie-Wraps	
Description	**Part Number**
[B] Tie Wrap, 5" Length (25 per pack)	43105-005
[C] Tie Wrap, 8" Length (25 per pack)	43108-008
[D] Tie Wrap, 12" Length (25 per pack)	43112-012

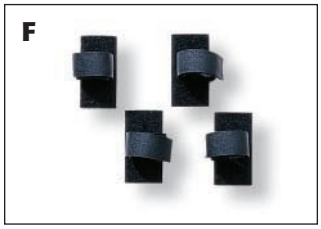


Recloseable Storage Rings

Ensure fiber optic cable bend radius with the Recloseable Storage Ring. Available in two sizes for inside or outside fiber cable management, both rings come complete with six sturdy Hook and Loop-style loops attached for proper cable management.

- The Outside Plant Ring is 24" in diameter and manages cable as it enters a premises. It is capable of storing excess cable for future use.
- The Inside Plant Ring is 11.75" in diameter and mounts neatly into a ceiling or wall to store extra fiber optic cable for future use.

Recloseable Storage Rings	
Description	**Part Number**
[E] Recloseable Storage Ring, Inside Plant (11.75" diameter)	48900-IFR
Recloseable Storage Ring, Outside Plant (24" diameter)	48900-OFR



Hook and Loop Workstation Cable Management

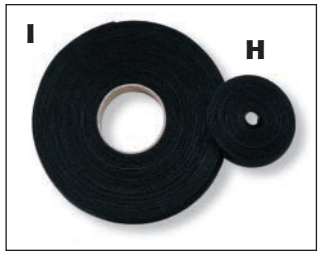
These Hook and Loop tie-wraps are ideal for workstation cable management. Hook and Loop material easily reopens for moves, adds and changes. Eliminate tangled wiring in the work area by managing power cords and equipment cords singly or bundled together. Convenient peel-off adhesive for easy mounting. 5.25" loop.

Hook and Loop Workstation Cable Management	
Description	**Part Number**
[F] Individual Loops with Peel-off Adhesive (25 per pack)	41225-SAP

Recloseable Orange Hook and Loop Fasteners

Similar to Recloseable Tie-Wraps, these sturdy loops also hold cable bundles up to 3" in diameter, but come in bright orange for use with fiber cables. Fasteners are 3/4" wide.

Recloseable Fastener	
Description	**Part Number**
[G] Recloseable Fasteners (orange) (10 per pack)	41030-0FT



Bulk Rolls of Hook and Loop Wrap

Available in 15 and 75 foot rolls, 1/2" wide, which can be custom cut for many uses, and features hook and loop material on both sides.

Bulk Hook and Loop Wrap	
Description	**Part Number**
[H] Bulk Hook and Loop Wrap, 15 Foot Roll	43115-015
[I] Bulk Hook and Loop Wrap, 75 Foot Roll	43115-075

Section F

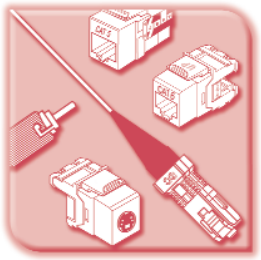
Tools & Accessories

LEVITON
VOICE & DATA DIVISION

Tools & Accessories

The right tool for the job. The difference between success and failure often comes down to the right tool. With this in mind, Leviton offers a wide variety of copper and fiber optic tools and tool kits, tailored to any application.

Related Products



QUICKPORT UTP COPPER CONNECTORS

High performance Category 6, 5e, 5 and 3 connectors, in 13 colors, as well as Voice Grade, and a selection of accessories *(Page A3)*.

QUICKPORT AUDIO/VIDEO MODULES

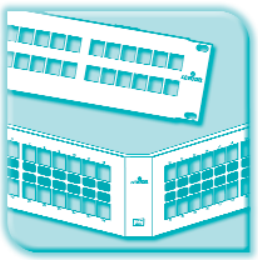
Connectors and adapters for audio and video over coaxial cable, speaker wire and UTP copper *(Page A4)*.

PUSH-ON, TWIST-ON & CRIMP-ON F-CONNECTORS

Create your own video connections with our variety of solutions for one or two-piece coaxial cable termination *(Page A5)*.

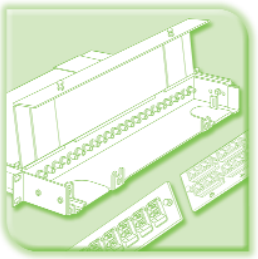
FIBER OPTIC CONNECTORS AND QUICKPORT ADAPTERS

Innovative, craft-friendly ST, SC, FC, MT-RJ and LC connectors, in mechanical or epoxy styles. Plus adapters to fit them to any QuickPort housing *(Page A6)*.



QUICKPORT FIELD-CONFIGURABLE PATCH PANELS

Configure your own QuickPort patch panel *(Page C7)*.



FIBER OPTIC MOUNTING PLATES AND ENCLOSURES

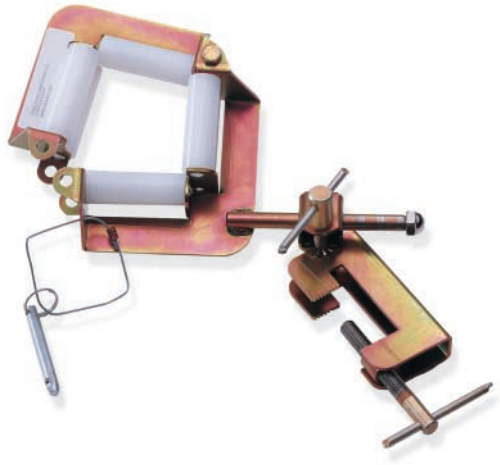
Feature-loaded, low cost enclosures for fiber or mixed media *(Page D3)*.

TERMINATION INSTRUCTIONS

In our appendix, find step-by-step termination instructions for fiber or copper connectors *(Section X)*.

CABLE JOE® CLAMP-ON CABLE ROUTER

[A] *The best solution available for pulling cables around corners.*

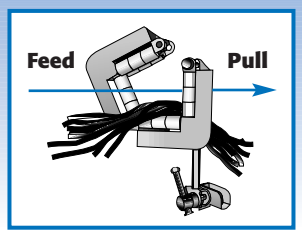


- Saves time and money by preventing cable damage, and allowing more effective use of installation personnel.
- Mounts onto any surface: trays, joists, or lag bolts to walls.
- Routes up to 20 cables at once–even around 90° angles.
- Made of heavy duty 12 gauge cold rolled steel with 6-roller design to pull cables smoothly and easily.
- Opens simply and closes securely with quick-release pin.

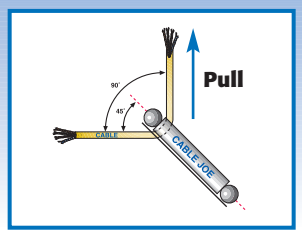
Cable Joe®	
Description	**Part Number**
[A] Cable Joe Clamp-on Cable Router	49001-JOE

FEATURES

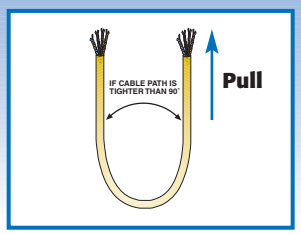
Position Cable Joe so that cables run at the widest angle possible. This will preserve cable bend radius.



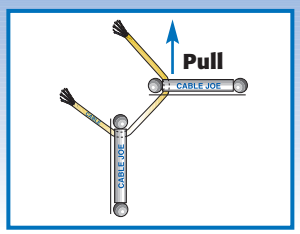
Clamp or screw to stable structure. Close and set latch before pulling cable.



When running cable around a 90˚ corner, place Cable Joe at an angle, so that cable runs smoothly through rollers.



If cable is being run around an angle that is tighter than 90˚...



...use two Cable Joes to relieve cable stress.

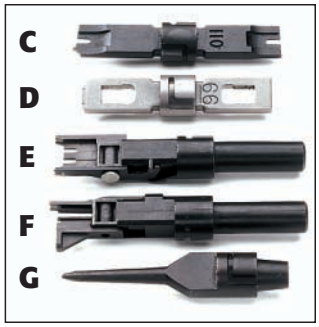
110 PUNCHDOWN TOOL

Wire Punchdown/Termination Tool

[B] A versatile punchdown/termination tool with changeable blades (sold separately) that enables installers to make reliable connections on a variety of wire termination blocks. Terminate/punch down wire with one simple push on the handle. An adjustable impact setting allows you to terminate wire with less effort than other impact tools. Handle can be fitted with several interchangeable custom blades to cover many termination types: 110 IDC, 66 IDC, Krone, BIX (Northern Telecom BIX system), and an awl (woodscrew starter punch). A spare blade can be kept in a storage chamber in the handle.

Punchdown Tool Blades

[C-G] These special application blades are for use with the Wire Punchdown Tool for terminating 22, 24 or 26 gauge wire. Krone and BIX blades feature scissor-action trimming.



D814 Wire Punchdown/Termination Tool and D814 Tool Blades	
Description	**Part Number**
[B] Wire Punchdown/Termination Tool	49553-814
[C] 110 IDC Blade	49553-110
[D] 66-IDC Blade	49553-66
[E] BIX® Blade	49553-BIX
[F] Krone® Blade	49553-KRN
[G] Awl (Woodscrew starter punch)	49553-AWL

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OPT-X™ FIBER CABLING SYSTEM

FIBER OPTIC TOOL KITS

Universal Fiber Optic Tool Kits

[A] Universally compatible (singlemode/multimode) and designed with the help of field technicians—Leviton's Universal Fiber Optic Tool Kits are designed for use with any Thread-Lock® connector: SC, ST, or FC. They come in their own lightweight case, complete with an inspection scope, tightening tools, buffer remover, polishing pad, safety glasses, scissors, jacket stripper, polishing fixture and music wire. The Standard Kit includes a sapphire scribe tool, while the Tool Kit Plus comes with Thread-Lock® Versa-Cleave™ cleave tool.

Fast Cure Fiber Optic Tool Kit

[B] Fast Cure Tool Kit is designed for use with any singlemode or multimode Fast-Cure adhesive connector: SC, ST, FC or LC. Comes in its own compact lightweight case, and includes an inspection scope, buffer remover, polishing pad, Standard 2.5mm and LC 1.25mm polishing fixture, LC scope adapter, fiber optic crimp tool, safety glasses, scissors, jacket stripper and music wire. Hardener/Primer Kit is sold separately.

Spectro-Link™ MT-RJ Fiber Optic Tool Kits

[C, D] Spectro-Link MT-RJ Fiber Optic Tool Kit comes in its own compact, lightweight case, complete with Buffer Removers (2), Jacket Strippers, Scissors, Music Wire, Safety Glasses, Gauge, Marking Pen, Opt-X™ 20/20 lenses, Lead-In Crimp Tool, Frame-Station Assembly Tool, Thread-Lock® Versa-Cleave™ Tool and 2 Spectro-Link adapters for the Versa-Cleave™ tool. Spectro-Link Accessory Kit adds MT-RJ capability to an existing kit.

Fiber Optic Tool Kits		
	Description	**Part Number**
[A]	Universal Fiber Optic Tool Kit Plus, shown above (includes Versa-Cleave™)	49800-UTP
	Universal Fiber Optic Tool Kit	49800-UTK
[B]	Fast-Cure Tool Kit	49800-FTK
[C]	Spectro-Link MT-RJ Fiber Optic Tool Kit, shown above	49800-SLT
[D]	Spectro-Link MT-RJ Fiber Optic Accessory Kit	49800-SLA

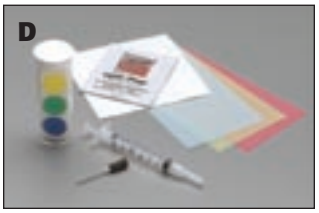
Universal Consumables Kits

[E, F, G] The Universal Consumables Kits contains everything you need to clean and polish connectors, such as polyester wipes, alcohol pads, music wire, and 12-, 3- and 0.3 micron lapping film. Fast-Cure kit adds needles and syringes, as well as hardener and primer. Hardener/Primer kit is also sold seperately.

Consumable Kits		
	Description	**Part Number**
[E]	Universal Consumables Kit	49800-CON
[F]	Fast Cure Consumables Kit	49800-FAC
[G]	Hardener/Primer Kit	49800-202

Individually Sold Fiber Optic Tools & Components

Individual Components	
Description	**Part Number**
[A] Universal Tools	
250 micron Buffer Remover	49886-BR2
Jacket Stripper	49886-STP
900 micron Buffer Remover	49886-BR9
Aramid Strand Scissors	49886-SIS
Marking Pen	49886-SMP
200x Inspection Scope	49886-FSP
100x Inspection Scope	49886-SCP
Safety Glasses	49886-GLS
Sapphire Scribe	49886-SCR
2.5mm Polishing Puck	49886-PUC
3" x 6" Polishing Pad	49886-PAD
Thread-Lock FC Tightening Tool	49883-FCT
Thread-Lock Combination SC/ST Tightening Tool	49886-CTT
Universal Tool-Kit Carrying Case	49886-CSC
[B] Spectro-Link Specific Tools	
Strip Length Gauge	49886-SLG
Frame-Station Connector Assembly Tool	49886-FIT
Workstation Connector Lead-in Crimp Tool	49886-SLC
Versa-Cleave Adapter for Spectro-Link MT-RJ Workstation Connectors	49886-VWA
Versa-Cleave Adapter for Spectro-Link MT-RJ Frame-Station Connectors	49886-VFA
Opt-X 20/20 Lenses	49886-OTT
Spectro-Link Carrying Case	49886-CST
Spectro-Link Accessory Kit Carrying Case	49886-CSA
[C] Fast-Cure Specific Tools	
Fiber Optic Crimp Tool with .128, .151, .178 hex die	49886-FCT
LC Scope Adapter	49886-LCS
1.25mm (LC) Polishing Puck	49886-LCP
Fast Cure Tool Kit Carrying Case	49886-FCC
[D] Consumables	
Music Wire	49886-WRE
Lint Free Dry Wipes 100/pack	49886-DWP
Alcohol Pads 100/pack	49886-APD
12- Micron Aluminum Oxide Lapping Film, 100/pack	49886-12F
3- Micron Aluminum Oxide Lapping Film, 100/pack	49886-03F
0.3 Micron Aluminum Oxide Lapping Film, 100/pack	49886-X3F
SC Duplex Clip (sold in increments of 25, bag of 25)	49884-DPC
Silicone BUS Kit (one of each type of BUS)	49885-SBS
Replacement Needles 25/pack	49886-FCN
Replacement Syringes 25/pack	49886-SYR



Tightening Tools

[E,F] Available in two styles, FC and Combination SC/ST, tightening tools help simplify Thread-Lock connectorization by providing a wider gripping area to make it easier to tighten the connector plug. The tightening tools also protect the exposed fiber during the tightening process. The Combination tightening tool has an SC-style end and an ST-style end, for greater convenience and flexibility.

Tightening Tools	
Description	**Part Number**
[E] ST/SC Combination Tightening Tool	49886-CTT
[F] FC Tightening Tool	49883-FCT

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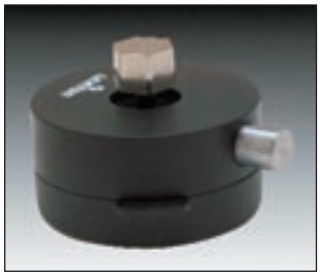
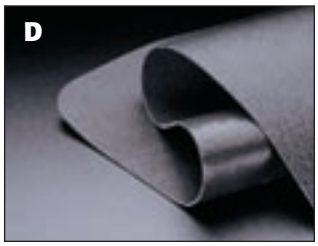
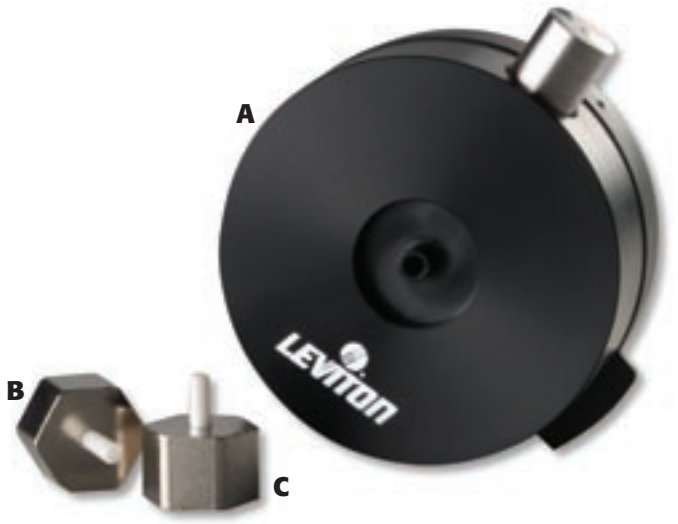
Comes with a nylon case and removable desbris cup.

The award-winning Thread-Lock Versa-Cleave, included in the Universal Fiber Optic Tool Kit Plus.



Thread-Lock Versa-Cleave and Adapters, included in the Spectro-Link MT-RJ Fiber Optic Tool Kit.





Thread-Lock® Versa-Cleave™ Tool

[A-C] Leviton's Thread-Lock Versa-Cleave tool features a diamond blade that cleaves fiber perfectly every time, eliminating the need for a complicated scribe and break procedure. The ergonomic stop-watch design fits comfortably in the hand, works with any style or brand of 2.5mm ferrule connector, and cleaves with a simple push of the button. Versa-Cleave also features a convenient integrated debris cup to catch and retain fiber debris until it can be safely disposed of. Two adapters, ordered separately, allow Versa-Cleave to cut to perfect lengths for Spectro-Link™ MT-RJ Workstation and Frame-Station connectors. Versa-Cleave can be ordered seperately, or as part of the Universal Tool Kit Plus.

Thread-Lock® Versa-Cleave™	
Description	**Part Number**
[A] Versa-Cleave Tool	49886-TVC
[B] Versa-Cleave Adapter for Spectro-Link MT-RJ Workstation Connector	49886-VWA
[C] Versa-Cleave Adapter for Spectro-Link MT-RJ Frame-Station Connector	49886-VFA

Safety Pad

[D] The pad features rubber material to provide a flexible, shatterproof, non-slip surface—sized perfectly for terminating Thread-Lock or Spectro-Link Fiber Optic Connectors.

Safety Pad	
Description	**Part Number**
[D] Safety Pad	49886-SPD

Inspection Scopes

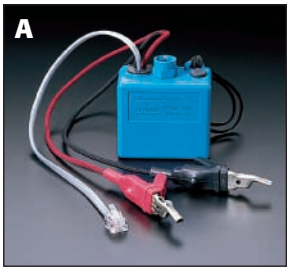
[E, F] Leviton's 100x and 200x Inspection Scopes allow techs to view multimode and singlemode end-face polishes safely, and reduce the chances of over-polishing (a side-effect of many coaxial inspection scopes). 200x Scope features oblique viewing technology, ergonomic grip, 200X magnification and full laser eye protection through wavelengths of 850-1550 nanometer. Both scopes feature rugged construction that stands up to jobsite abuse.

Inspection Scopes	
Description	**Part Number**
[E] 100x Inspection Scope	49886-SCP
[F] 200x Inspection Scope	49886-FSP

Tone Test Set

[A] Use the Leviton Tone Test Set in low voltage wire applications to test for continuity, check for shorts or opens, and provide talk battery for a communication line on a vacant pair. Connect toner across a wire pair and set to transmit either a continuous 1000 Hz or alternating 500/1000 Hz tone. Use with the Speaker Probe (below) to trace pairs and locate broken pairs/cables in walls.

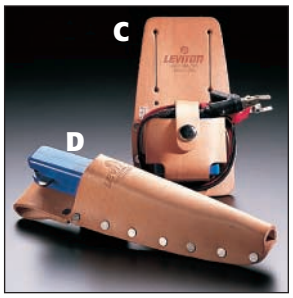
Also identifies Tip and Ring polarity, and line condition for CLEAR LINE with dial tone, BUSY LINE and RINGING LINE. Features "O" ring seals on the case, test leads for water resistance, support leash, tri-color, and nylon-braided tinsel wire test leads. Telco-standard, 6A-type alligator clips with piercing pins securely grip 66-clips, screw heads, screw bodies, and wire-wrapped or threaded terminals. A 6-position, 2-conductor plug lead is also provided for connection to modular jacks.



Inductive Speaker Probe

[B] The streamlined inductive speaker probe detects audible frequency tones quickly for accurate tracing and identification of wires, cables, and metallic circuits. Use with the tone test set (above) to trace and isolate pairs in virtually any type of wire application, without damage to the insulation. Identifies single wires or individual pairs in multiple-pair cables at terminals or closures; identifies station wiring or cables to specific equipment in closets or on distribution frames; and identifies the ends of drop wires. Probe can also be used to locate prewiring, or opens in wires, after wall covering is installed. Features both needlepoint and duckbill tips and a non-locking slide switch.

Tone Test Set, Inductive Speaker Probe – Individual Items and Combinations		
Description		**Part Number**
[A]	Tone Test Set (includes 9 volt battery)	49560-TTS
[B]	Inductive Speaker Probe only (includes 9 volt battery; one duckbill tip; and one needlepoint tip)	49561-SSP
[C]	Leather Belt Holster for tone test set	49560-LCC
[D]	Leather Belt Holster for inductive speaker probe	49561-LCC
	Spare duckbill and needlepoint tip set	49561-TIP
	Kit containing tone test set with belt holster, and inductive speaker probe with belt holster	49562-TSK
	Kit containing 5 tone test sets with belt holsters, and 5 inductive speaker probes with belt holsters	49562-KIT



Optional leather belt holsters.

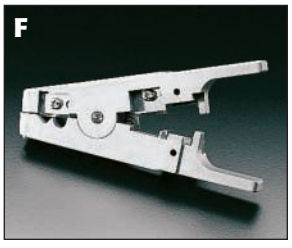
Crimping Tool for Coaxial Connectors

[E] For use in crimping coaxial connectors onto RG-59 or RG-6 cables. Rugged metal construction with cushioned handles. Carded package for display in merchandising racks.

Crimping Tool for Coaxial Connectors		
Description		**Part Number**
[E]	Crimping Tool for Coaxial Connectors	40988

UTP Stripping Tool

[F] Use this versatile tool to strip unshielded twisted pair (UTP) cable. Carded package for display in merchandising racks.



UTP Stripping Tool		
Description		**Part Number**
[F]	Stripping Tool	49660-C

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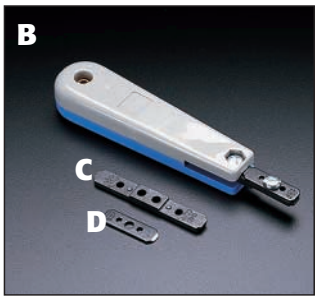
Craftsperson's Handset

[A] This handset is used by installers, repair technicians, and other authorized personnel for basic line testing and essential on-site temporary communications. Line-powered to provide either DTMF (Touch Tone) or dial pulse output. Features all standard 'buttset' line tests, including polarity check, line monitoring, and signaling.

Craftsperson's Handset	
Description	**Part Number**
[A] Craftsperson's Handset	49575-CTS



Termination Tool (66-BT)

[B] This 'pocket friendly' tool quickly punches down 20 through 26 gauge unstripped wire in devices using 66-clip terminals. It adjusts to accommodate variation in wire size and blade sharpness. Replaceable blades reverse to let you terminate and cut wire in a single stroke, or terminate without cutting.

Replacement Stem for Termination Tool (66-BT02)

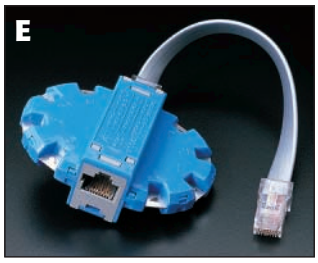
[C] The replaceable stem for the termination tool blade.

Replacement Blade for Termination Tool (66-BT01)

[D] This blade reverses so wires can be terminated and cut, or terminated without cutting. It also adjusts to accommodate variation in wire size or blade sharpness.

Termination Tool, Replacement Stem, and Replacement Blade	
Description	**Part Number**
[B] Termination Tool (66-BT)	46666-BT
[C] Replacement Stem for Termination Tool (66-BT02)	46666-BTS
[D] Replacement Blade for termination Tool (66-BT01)	46666-BTB

Note: Numbers in parentheses refer to industry product designation.



Modular Plug Breakout Adapter

[E] For testing any 6- or 8-position modular jack with the Tone Test Set or Craftsperson's Handset. Includes contacts to connect, via alligator clip leads, to any test apparatus or Lineman's Test Set. Can be used in series with any cable with a 6- or 8-conductor modular plug.

Modular Plug Breakout Adapter	
Description	**Part Number**
[E] Modular Plug Breakout Adapter	40070-MDP

Section X

Support

LEVITON
VOICE & DATA DIVISION

WIRE COLOR CODES & CONNECTOR 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 twenty-five pairs.

Typical Usage

Many key and PBX systems specify the RJ21X, or 'Amphenol-type' as the network interface device. Many of these systems also use the RJ21X as a connector for stations or telephone sets, wired from the KSU or PBX Main Distribution Frame.

NOTE: Sometimes an RJ11 or RJ14C can be installed in place of an RJ21X. While many smaller systems that require only a few lines may show the RJ21X as the 'official' connector required under registration, less complex connectors such as the RJ11 or RJ14C can often be specified (perhaps in multiples). If the system requires only a few lines but the RJ21X is specified on the registration label, under FCC Part 68 you may specify the RJ11C, RJ14C, RJ25C, or RJ61X instead.

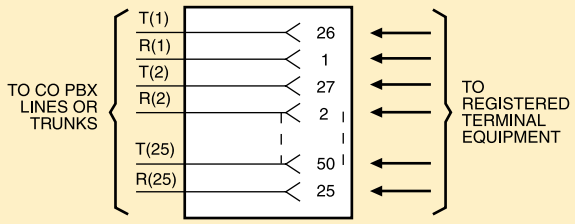
Many Leviton connectors can be used for the RJ21X configuration where 'intermixing' is permitted. Substitution of these special connectors is often both economical and practical. Contact Leviton Voice & Data Division Applications Engineering for information about versions to meet your requirements.

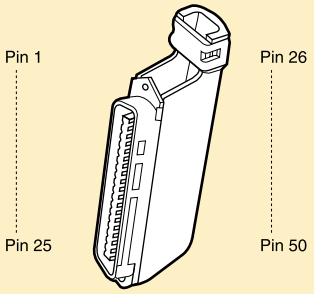
25-Pair Color Coding/ISDN Contact Assignments

RJ21X

WIRE COLOR				WIRE COLOR
Blue/ White	1 R		T 26	White/Blue
Orange/White	2 R	1	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	2	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	3	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	4	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	5	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	6	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

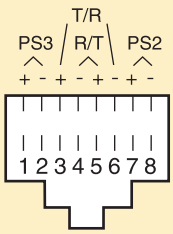




ISDN Assignment of Contact Numbers as specified by ISO Document 8877: 1987 (E)

Contact Assignments for Plugs and Jacks

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	+



ISDN

Note: *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.*

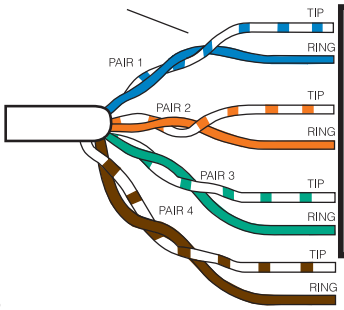
Wire Color Codes

Standard 4-Pair Wiring Color Codes		
PAIR 1	T	White/Blue
	R	Blue
PAIR 2	T	White/Orange
	R	Orange
PAIR 3	T	White/Green
	R	Green
PAIR 4	T	White/Brown
	R	Brown

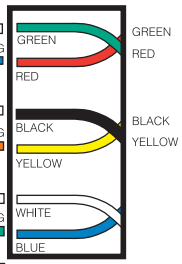
Note: For 6-wire jacks use pair 1, 2 and 3 color codes. For 4-wire jacks use pair 1 and 2 color codes.

Note: 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.

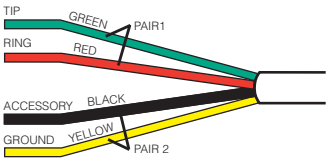
A. Band-Striped Twisted-Pair Wire



B. Solid-Color Twisted-Pair Wire



C. Quad Wire* (Solid-Color, Non-Twisted Wire)



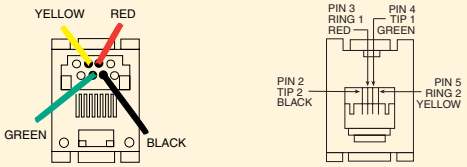
***CAUTION**
Quad wire is no longer acceptable for installation in multi-line environments. If encountered during a retrofit, quad wire should be replaced with 100Ω UTP. Connecting new quad to installed quad will only amplify existing problems and limitations associated with quad wire; leaving existing quad in place and connecting 100Ω UTP to it may also be ineffective, as the quad wire may negate the desired effect of the UTP.

Jack Pin Designations

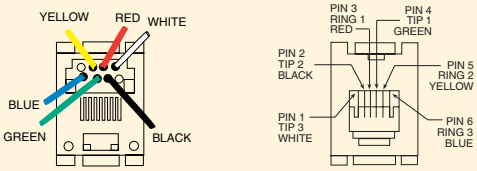
	Pin#	8P8C/8P8C Keyed	6P6C	MMJ	T568B	T568A
Jack Pin Designations	1	Blue	White	Orange	White/Orange	White/Green
	2	Orange	Black	Green	Orange	Green
	3	Black	Red	Red	White/Green	White/Orange
	4	Red	Green	Yellow	Blue	Blue
	5	Green	Yellow	Black	White/Blue	White/Blue
	6	Yellow	Blue	Brown	Green	Orange
	7	Brown	—	—	White/Brown	White/Brown
	8	White	—	—	Brown	Brown

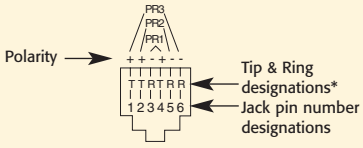
Note: For some cables, wires for jack pin numbers 2, 4, 6 and 8 may have a white stripe. This is equivalent to cables with solid wires for the same pin numbers.

6P4C

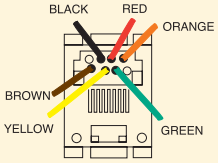


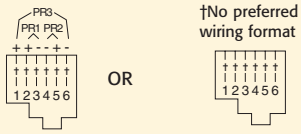
6P6C



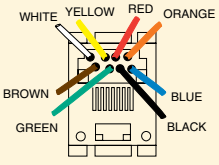


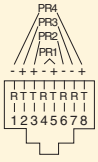
MMJ



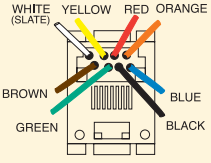


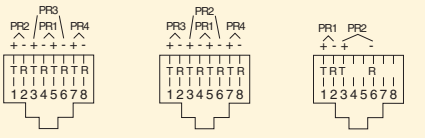
8P8C and 8P8C Keyed, USOC





8P8C and 8P8C KEYED; T568B, T568A, and 10Base-T





Note: *Some equipment standards may vary from the standards shown here.*

USOC CODES

This appendix contains descriptions of Universal Service Order Codes (USOC) for connecting telephone instruments and related equipment to telephone lines, 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.

A Note About USOC Number Suffixes

RJ (Registered Jack) numbers end with a letter that indicates the wiring or mounting method:

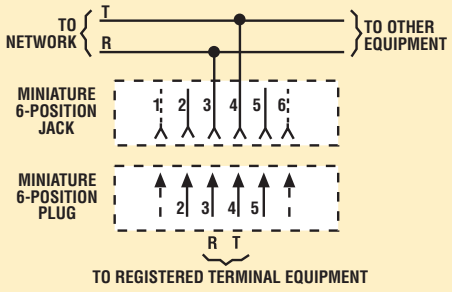
"C" identifies a surface or flush-mounted jack.

"W" identifies a wall-mounted jack.

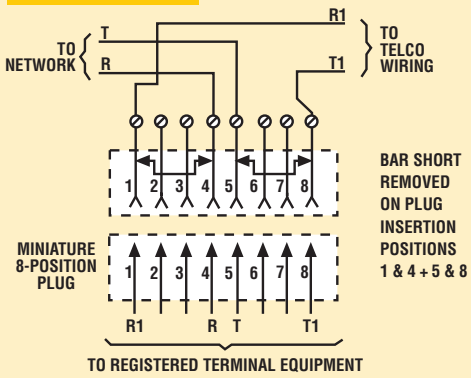
"X" identifies a complex multi-line or series type jack.

Note: *The telephone company will wire the lines in the sequence designated by the customer.*

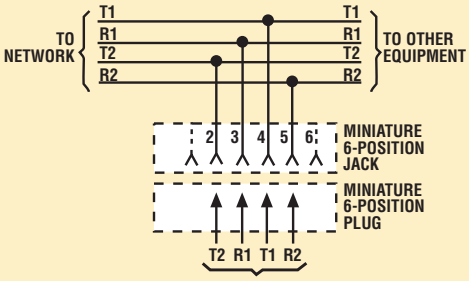
RJ11C/RJ11W



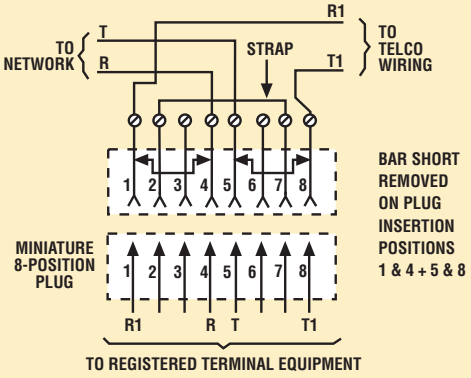
RJ31X



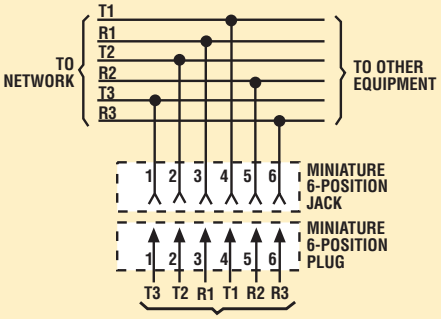
RJ14C/RJ14W



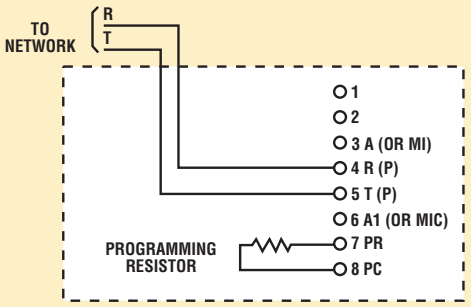
RJ38X



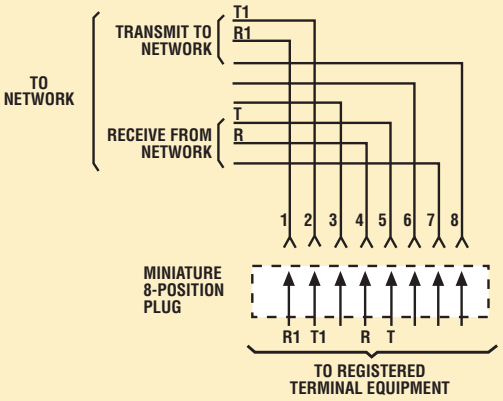
RJ125C



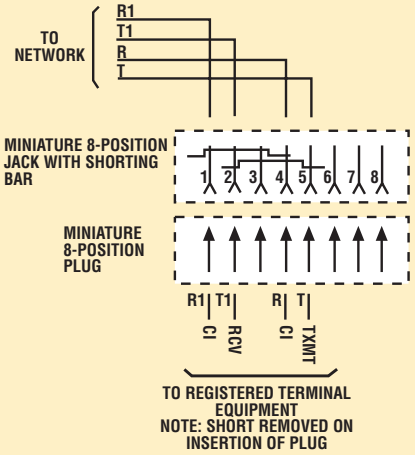
RJ45S



RJ48C

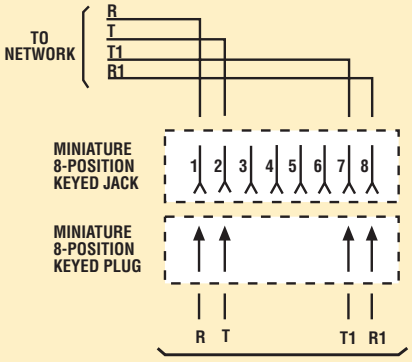


RJ48X

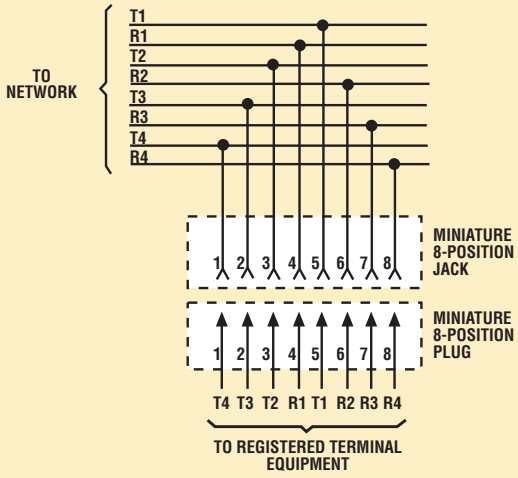


Note: *RJ48X drawing is provided for information purposes only. No Leviton products support the application.*

RJ48S



RJ61X



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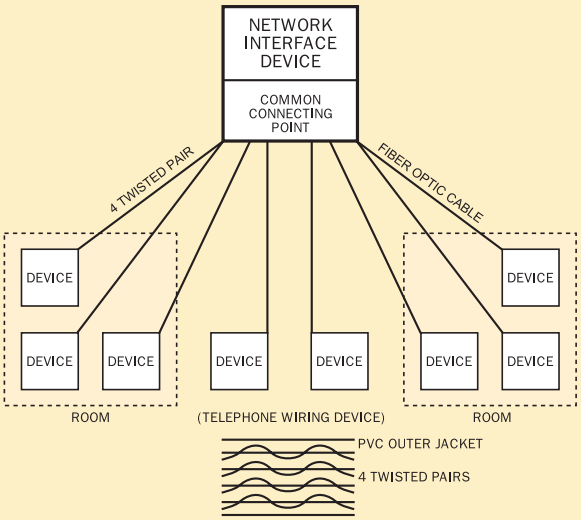
GENERAL INSTALLATION TIPS

TIA Preferred Wiring Method

The wiring method preferred by the Telecommunication Industry Association (TIA) is a star wiring method (see Figure below). Each individual workstation in a residential or commercial building is wired directly to the distribution device with four-pair twisted wire or fiber optic cable.



Star Topology

The star topology uses a hierarchical series of distribution frames. The backbone includes the main distribution frame (MDF) and the optional intermediate distribution frame (IDF). (See Figure top right.)

The first level, the MDF, links to other levels via the backbone cabling. The MDF may link to the third and final level, the telecommunications closet (TC) directly, or in large installations it may link to some TCs via an optional second level, the intermediate distribution frame (IDF). The TC terminates the backbone cable and cross-connects to the horizontal cabling. The horizontal cabling terminates in the work area at the workstation (WS).

GENERAL

Horizontal cabling is the cabling from the telecommunications closet to the work area. It includes the cross-connects in the telecommunications closet; horizontal cable; and the outlet at the work areas.

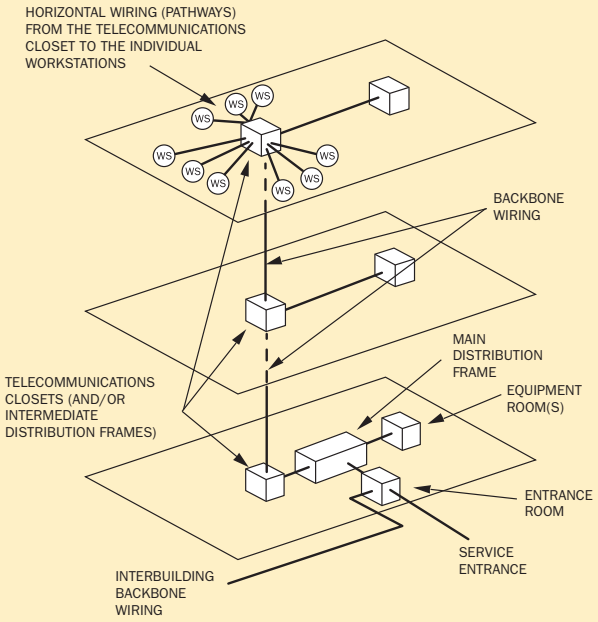
Commercial building horizontal cabling should be installed such that it will:

[a] Facilitate ongoing maintenance, relocations, and additions;

[b] Accommodate future equipment and service changes;

[c] Accommodate a diversity of user applications, including voice, data, LAN, switching, and other building services.

Typical Commercial Building Wiring Topology



Roughing-In Correctly

The following are general rules for running cable, whether residential, or commercial:

- **Always make a quick check for shorts, opens, and ground when the rough-in is completed.** Lightweight telephone wiring is much easier to damage than non-metallic cable. The jacket can be caught on sharp edges or nail points and inside conductors grounded, shorted, or broken. It will take just a few minutes to insure that no connections or splicing were forgotten and that no wiring was damaged as it was pulled in or secured during rough-in.
- **Do not splice wires on the cable runs.** Pull a new wire if things go wrong.
- **Do not exert more than 25 pounds of pulling tension on 4-pair cables.** Larger capacity cables should be pulled as per the manufacturer's directions.
- **Do not run cables in parallel with power wiring.** Consult industry standards for minimum separation of telecommunications cable from interference sources.
- Do not bend cable sharply or nick the protective sheath covering the insulated wires.
- **Maintain polarity** (i.e., carefully match wire colors) of the Tip (+) and Ring (-) pairs from the demarcation point to the outlets. Polarity reversal causes problems with some devices.
- **Maintain the access line number correlation with the pair number** (i.e., access line one goes to pair one, and so forth) when wiring connectors.

- **Use the two inner pairs of a housing for telecommunications.** Use the outer pairs of the connector for other purposes (if any) to provide compatibility with two-line telephones.
- **Use plastic non-metallic staples** to support wire, and leave the wire loose inside the staples—do not drive staples all the way in. Driving staples in tightly may crimp wire and damage the insulation or wire, impairing its ability to carry voice or data.
- **If conduit is installed, always leave a pull cord in to facilitate running new wire.**
- **Never run power in the same conduit with telecommunications cable.** Low-voltage monitor and control lines may share conduit with telecommunications.
- **Avoid undercarpet runs if possible,** as they are inherently more susceptible to damage, particularly in residences. If they must be installed, follow the manufacturer's directions carefully, and remember that only one transition from one type of cabling to another is standard in a single room. Avoid installing undercarpet runs in damp areas. Note that undercarpet power cables are not allowed in residential installations.
- **Where possible, use inner walls for runs to avoid conflict with firebreaks and insulation.** Inner-wall wiring also makes it a lot easier to replace wires if necessary, or to add wires. Nonetheless, wiring through external walls is not always avoidable, so installation handling should be the same as for electrical wire. Firestopping is also to be observed.
- **Do not run telecommunications wire parallel to power wiring without adequate separation, and do not share bore holes with power wires.**
- **Keep wire away from sources of heat,** like hot water pipes and heater ducts.
- **Avoid running external wires**—they are not desirable, both for appearance and safety reasons. Wires on the outside of a building may be allowed under local code for additions, but should be avoided for initial installations.
- **Leave 18 inches of spare wire at outlets and connection points** for connections and changes.
- **Firestopping, bonding, and grounding must be performed according to fire, building, and electrical codes that apply.**

Regardless of the installation type, proper wiring requires good planning and careful work to avoid damaging cables and to make good connections.

TELECOMMUNICATIONS OUTLETS

- **When installing outlet boxes on wooden studs, it is important to maintain proper separation of communications and power cables.** These two types of cables should not share drill holes or stud spaces. Desk telephone connectors should be located at the same distance from the floor as electrical outlets.
- **Each workstation should, at minimum, be served by either two 100Ω UTP cables,** or one 100Ω UTP cable and one cable of another type. Single or double outlets may be used.
- **Telecommunications outlets are usually placed at the same height as electrical outlets, and near an electrical outlet.**

The Importance of Pair Twisting:

The rate of twisting will range from four (4), to as many as 28 twists per foot on high speed data cable. The tighter the twist, the less likely it will be distorted during installation, and the greater the immunity from interference. While the specification for the rate of twist varies with the anticipated data rate carried by the installation, always untwist the least amount of cable necessary to make a connection.

- *Category 3 max. allowed untwisting = 3"*
- *Category 5 max. allowed untwisting =< 1/2"*
- *Category 5e max. allowed untwisting =< 1/2"*
- *Category 6 max. allowed untwisting =< 1/2"*

***Note:** TIA-568-A does not specify the maximum allowable untwisting for these connectors, they are suggested as the maximum distance for standard practice.*

GENERAL TIPS ON QUALITY INSTALLATIONS

- **Every connection degrades system performance, so use the minimum necessary.**
- **Better to provide excess capacity in terms of cable and outlets rather than not enough.** Later additions are costly and time consuming.
- **Wire to the highest anticipated data rate (speed) or greater—never less.**
- **Never install components of unknown/questionable origin or quality.** At the very best, the system will transmit signals to the level of its weakest component. Every element and connection is important.
- **Document all connections carefully, and keep installations neat and tidy.** This will save time and hassle when modifying or troubleshooting the system later.
- **Test everything.**

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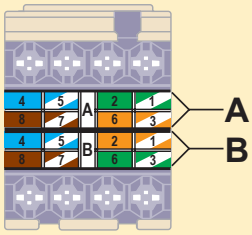
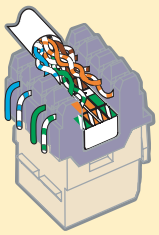
EXTREME 6+ CONNECTOR TERMINATION INSTRUCTIONS

1. Remove about 3″ of cable jacket and center spline (stiff wire separator inside Category 6 cable).
2. Determine which wiring scheme to use, T568A or T568B. Note the associated color codes and connector pin numbers on the label located between the IDC connector slots.

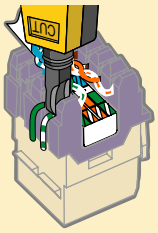


3. Leave the cable jacket within 1/8″ of the connector side, then route the wires for termination using the selected wiring scheme.

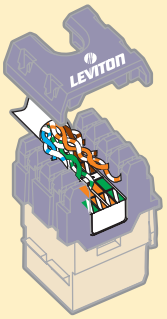


NOTE: If terminating Category 6 Connectors, route cable perpendicular to the IDC field. Ensure there is enough slack in the twisted pairs, and do not place the cable jacket into the termination field.

4. 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 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.



5. Place the dust cap over the terminated wires for secure connection.



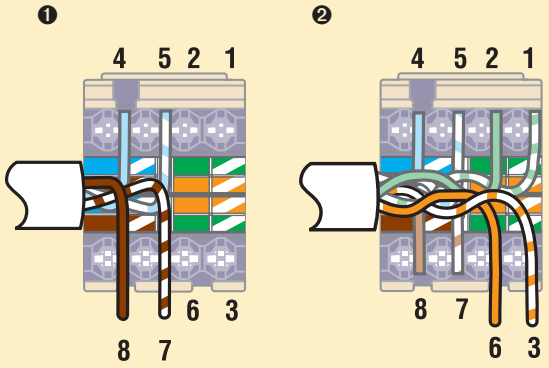
T568A & T568B Wiring Standards
IDC Color Assignments

IDC Position	Jack Pin Number	T568B Wire Colors	T568A Wire Colors
1	5	White/Blue	White/Blue
2	4	Blue	Blue
3	1	White/Orange	White/Green
4	2	Orange	Green
5	3	White/Green	White/Orange
6	6	Green	Orange
7	7	White/Brown	White/Brown
8	8	Brown	Brown

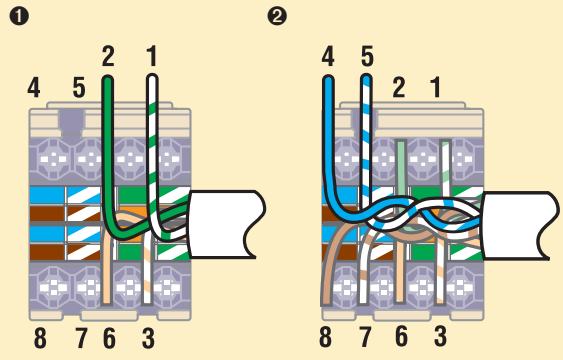
Note: *For some cables, wires for jack pin numbers 2, 4, 6 and 8 may have a white stripe. This is equivalent to cables with solid wires for the same pin numbers.*

eXtreme 6+ Wiring Scheme

Cable Entry from Left



Cable Entry from left



As noted above: Route and terminate one pair at a time to avoid cable damage.

eXtreme 6 Inside Wire Colors

Wiring Standard		
Pin#	T568A	T568B
5	White/Blue	White/Blue
4	Blue	Blue
3	White/Orange	White/Green
6	Orange	Green
1	White/Green	White/Orange
2	Green	Orange
7	White/Brown	White/Brown
8	Brown	Brown

Note: *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.*

T568A and T568B Wiring

What's the difference between T568A and T568B wiring?
T568A and T568B are the two wiring standards for an 8-position modular connector, permitted under the TIA-568-A wiring standards document. The only difference between T568A and T568B is that the orange and green wire pairs (pairs two and three) are interchanged.

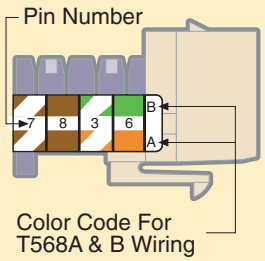
How to decide which wiring pattern to use:

1. Does the job specification call out a wiring pattern?
2. Does the customer/end user have a preference?
3. Have patch panels already been purchased for the job? If so, they will probably be either T568A or T568B. Jacks should be wired to the same pattern as the panels.
4. Are you adding on to existing wiring? If so, your new wiring should match existing wiring.

If none of the factors above apply, either T568A or T568B may be used. It is important to ensure that workstation connectors and patch panels are wired to the same pattern. T568B is commonly used in commercial installations, while T568A is prevalent in residential installations.

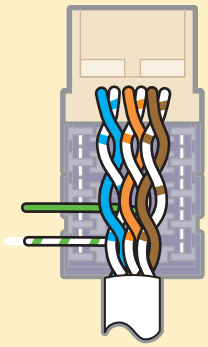
GIGAMAX 5E+ COMPONENT CONNECTOR TERMINATION

1. Remove about 2" of jacket from cable.
2. Determine the wiring scheme (T568A or T568B) and note the associated color codes on the label located on the sides of the connector. This label also includes connector pin numbers.

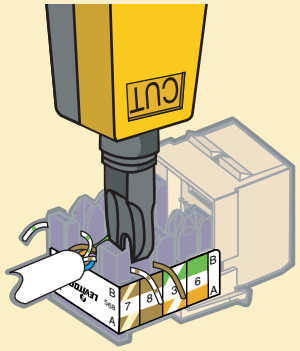


Note: *Maintain cable jacket as close to termination as possible*

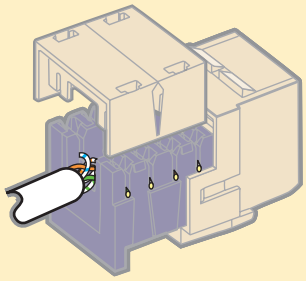
3. Route the wires for termination, as shown below. Terminate one pair at a time starting from rear of connector. Terminating each pair after placement will prevent crushing the inside pairs with the punchdown tool. Lay cable in so jacket touches rear of connector as shown.



4. Using a-110 style impact tool, seat the wires into the slots of the insulation displacement connectors. 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.



5. Place the cap over the terminated wires for secure connection and added strain relief.



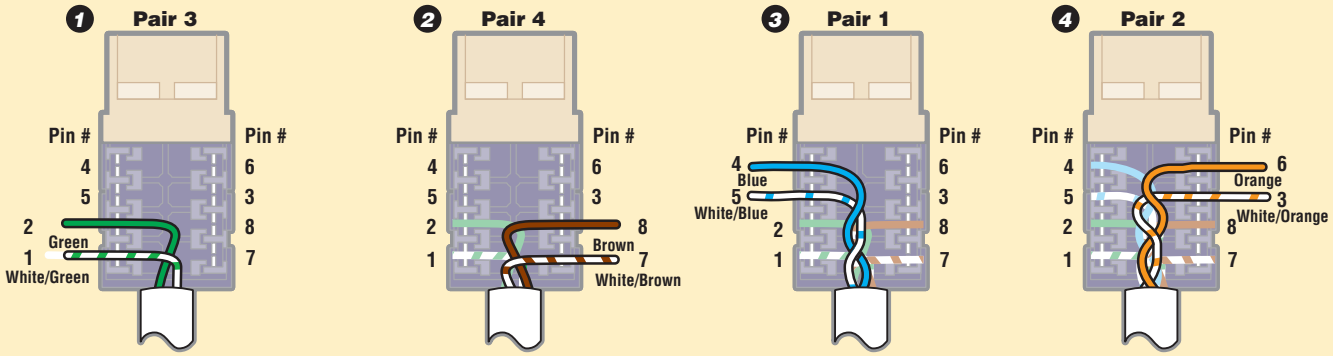
6. Insert connector assembly into platform or wallplate. Note the "UP" position of the connector.

Inside Wire Colors

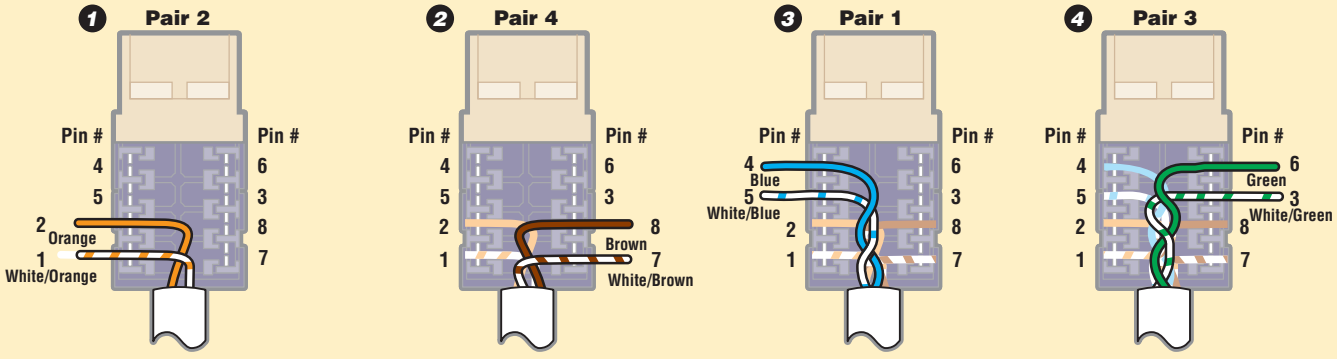
	Wiring Standard	
Pin#	**T568A**	**T568B**
1	White/Green	White/Orange
2	Green	Orange
3	White/Orange	White/Green
4	Blue	Blue
5	White/Blue	White/Blue
6	Orange	Green
7	White/Brown	White/Brown
8	Brown	Brown

Note: 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.

T568A Gigamax 5e+ Component-Level Connector Wiring Scheme



T568B Gigamax 5e+ Component-Level Connector Wiring Scheme



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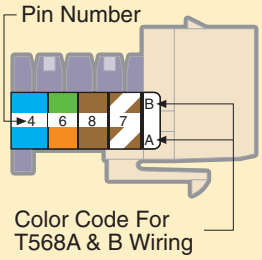
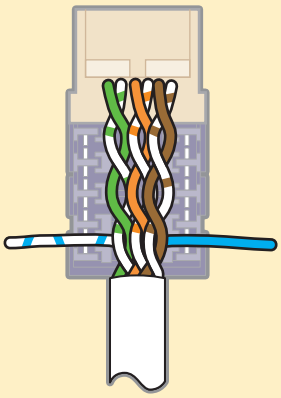
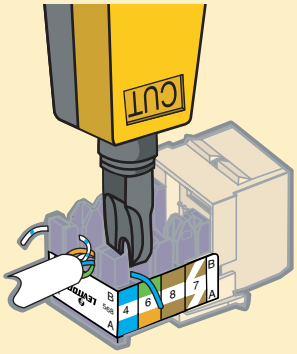
CATEGORY 5 & GIGAMAX 5E CHANNEL CONNECTOR TERMINATION

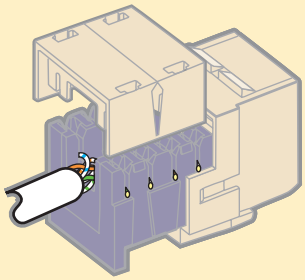
1. Remove a few inches of jacket from the cable, to expose the wires.
2. Determine which wiring scheme to use, T568A or T568B. Note the associated color codes and connector pin numbers on the label located on the sides of the connector.
3. Route the wires for termination, according to the chosen color code. **Terminate and trim one pair at a time, starting from the rear of the connector, in the order shown. Terminating each pair after placement will prevent crushing the inside pairs with the punchdown tool.**
4. Using a 110-style impact tool, seat the wires into the slots of the insulation displacement connectors. 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.
5. Place the dust cap over the terminated wires to ensure a secure connection and added strain relief.
6. Noting the 'UP' orientation of the connector, insert the terminated connector into the desired QuickPort housing.



***Note:** Maintain cable jacket as close to termination as possible*





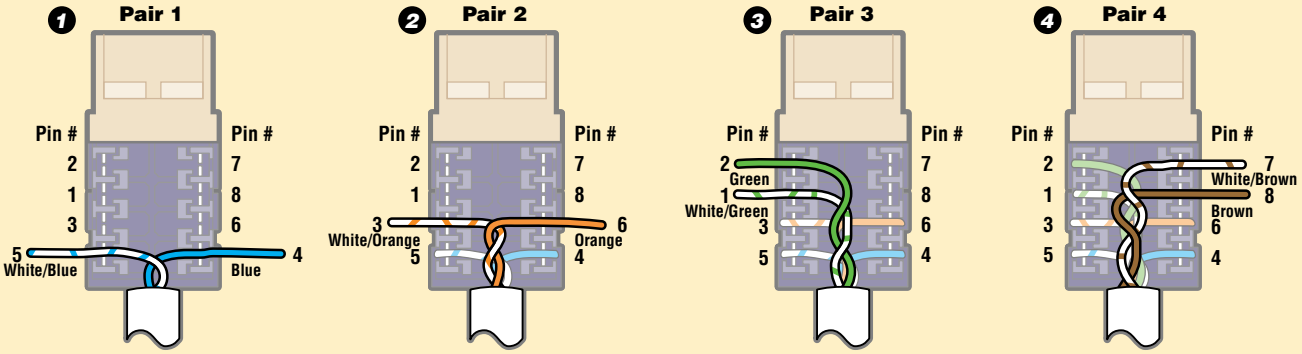


Note: For some cables, wires for jack pin numbers 2, 4, 6 and 8 may have a white stripe. This is equivalent to cables with solid wires for the same pin numbers.

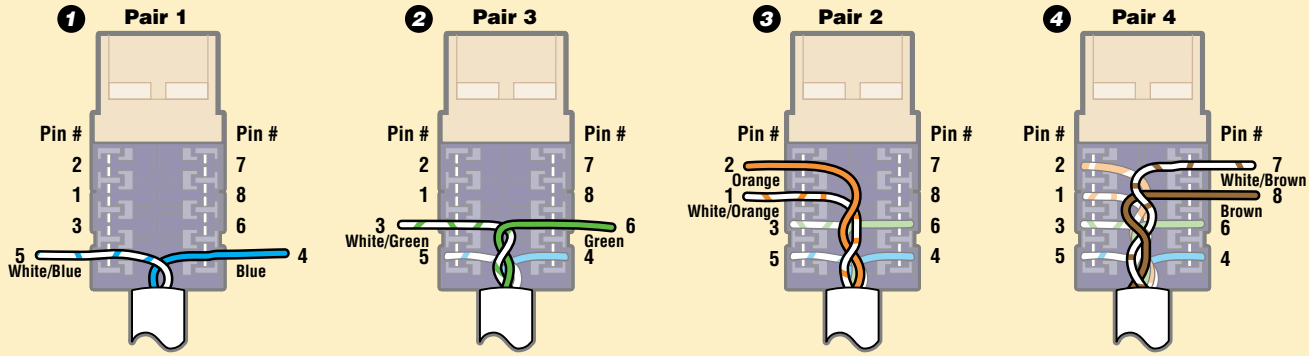
Inside Wire Colors

	Wiring Standard	
Pin#	T568A	T568B
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

T568A Category 5 and GigaMax 5e Channel Level Connector Wiring Scheme



T568B Category 5 and GigaMax 5e Channel Level Connector Wiring Scheme



THREAD-LOCK® ST® FIBER CONNECTOR TERMINATION: 900µm

Step One: Prepare

1. Place jacketed fiber protective boot on cable and slide back.

NOTE: To help avoid tool, buffer and fiber contamination, always clean with a 99% alcohol wipe, then with a lint-free wipe.

2. Remove 1 1/2" of jacket. Clean with an alcohol pad to remove any contaminants. Strip the 900µm buffer back 1", using 1/4" increments. Gently snap the shorter length 900µm Build-up Sleeve (BUS) onto fiber, butting it up against the jacket.
3. Trim aramid strands back even with the end of the buffer that surrounds the fiber (approximately 1/2"). Clean fiber with an alcohol pad and a lint-free wipe.
4. Distribute aramid strands evenly around the outer surface of the 900µm BUS. Fold the retention sleeve over the BUS and the distributed aramid strands. Align the BUS with threaded end of the retention sleeve. Leave 1/4" of buffered fiber exposed, then complete assembly and polishing process.

For Buffered Fiber

1. Place bare fiber protective boot on cable and slide back.

NOTE: To help avoid tool, buffer and fiber contamination, always clean with a 99% alcohol wipe, then with a lint-free wipe.

2. With indelible marker, mark the buffer 1" and 1 1/4" from the end of the 900µm tight buffer.
3. Using the red handled buffer remover, strip and remove buffer in 1/4" increments, until the fiber is stripped back to first mark on the buffer.
4. Clean exposed fiber with alcohol pad and wipe with lint-free wipe to remove any debris. When cleaning, pull on fiber gently, but with firm pressure, testing for damaged fiber.

IMPORTANT

These are guidelines and not meant to substitute for the instructions that come with the connectors. Please use those instructions for terminating this connector. Follow proper safety procedures.

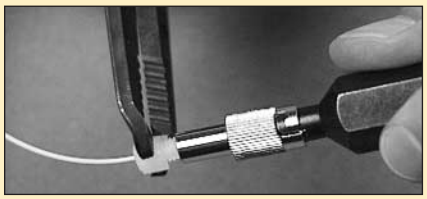
5. Line up the longer, 900µm BUS with the second mark from the end of the fiber. Then snap it into place.
6. Fold threaded retention sleeve over BUS even with the end, then complete assembly and polishing process.

250 µm Loose Tube Gel Filled Fiber

1. Remove all gel from fiber with industrial strength solvent such as "D-Gel™". Follow with a lint-free wipe, an alcohol pad, and another lint-free wipe.
2. Install a 900µm fan-out kit per manufacturer's instructions.
3. Gently rotate BUS down on tubing, then slide bare fiber into 250µm BUS and move BUS back until it securely fits over tubing.
4. Grasp the BUS firmly, and strip fiber coating back about 1". Leave 1/4" of 250µm coating exposed. Clean exposed fiber with alcohol pads.
5. Fold retention sleeve over BUS so it is even with the end, then complete assembly and polishing process.

Step 2: Assembly & Polishing

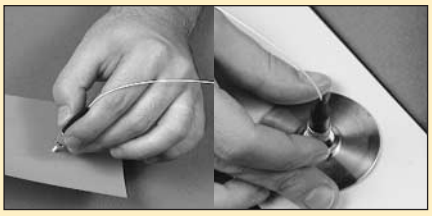
1. Insert connector into tightening tool and then while firmly holding the threaded sleeve together, insert fiber into connector housing. Rotate connector housing down over threaded sleeve. To rotate, use the tightening tool and grip the sleeve head with pliers. Rotate connector housing, not threaded sleeve. Trim away any exposed aramid strands.



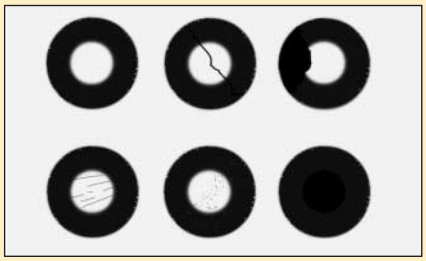
2. Tighten connector housing until flush with threaded sleeve head.
3. Cleave fiber using Leviton's Versa-Cleave or a scribing tool.

4. 12µm "AIR POLISH" FOR SINGLEMODE AND MULTIMODE FIBER - Begin by "Air Polishing" the connector with 12µm polishing film. Hold film at the edge with thumb and forefinger. Gently touch connector to film and rotate using 20 one-inch circles to remove fiber stub. The 12µm film is dark pink in color.

   3µm POLISH FOR SINGLEMODE AND MULTIMODE FIBER - Wipe the bottom surface of the polishing puck and the surface of the connector with an alcohol pad. Place 3µm film on the polishing pad, dull side up, and set polishing puck on the film. Gently insert the connector into the puck, and trace 15-20 figure 8's on the film, using very light pressure. Repeat the same procedure with the .3µm film. The 3µm film is yellow in color and the .3µm is light blue in color.



5. Slide protective boot over retention sleeve.
6. Inspect the fiber using the 200x inspection scope, ensuring the fiber is not scratched, cracked or broken. Gently drag fiber across lint-free wipe; it should not snag. If fiber snags, continue polishing.



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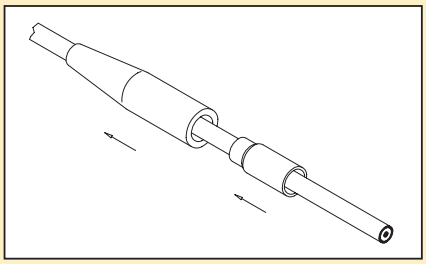
FAST-CURE™ FIBER CONNECTOR TERMINATION: 900µm

Step One: Prepare

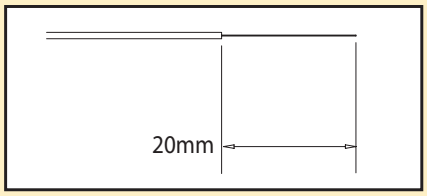
1. Slide the boot and the crimp tube onto the cable, with the small end inserted first.

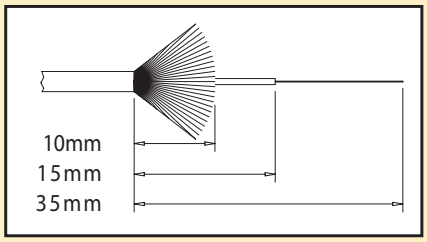
   For 3mm Jacketed Cable: Use the ribbed boot, provided.

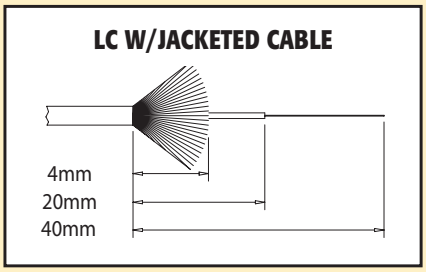
   For 900µm Buffered Cable: Use the smooth boot, provided.



2. Strip the jacket and/or buffer using the measurements provided in the chart below. Strip in increments of 1/4". If using jacketed cable, trim the aramid strands as indicated, below.
3. Clean exposed fiber with a 99% isopropyl alcohol pad followed by a lint-free wipe to remove any contaminants.







SC & FC Connector Types on 3mm Jacketed Cable ONLY:

4. Insert spacer over buffer and push all the way down, until it rests against the jacket.

Step Two: Assemble

All Connector and Fiber Types:

1. Remove the dust cap from the connector.
2. 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.

3. Insert the needle into the back of the connector, and squeeze the bottle gently, injecting the adhesive into the ferrule. 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.

NOTE: Avoid excessively filling connectors.

4. Dip cleaned fiber into the bottle of primer. Be sure to coat the entire length of exposed fiber with the primer.
5. Insert the fiber into the back of the connector, using continuous motion to prevent premature bonding. Primer will activate adhesive and begin the bonding process.
6. Hold the fiber in place for 10-20 seconds, and allow up to 3 minutes for the adhesive to bond.
7. 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.
8. For SC Connectors, ensure proper orientation of body by aligning connector housing.

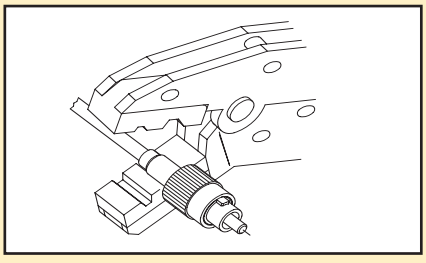
Additional Steps For 3mm Jacketed Cable ONLY:

9. Slide the crimp tube over the aramid strands and connector body. Then, using a crimp tool, first crimp the tube at the large end , then the small end.

   FC/ST/SC - large end: Use the .178" hex die.

   FC/ST/SC - small end: Use the .151" hex die.

   LC: Use the .128" hex die.



10. Slide the boot over the back of the connector.

Step Three: Cleave & Polish

All Connector and Fiber Types:

NOTE: The Thread-Lock Versa-Cleave tool is NOT recommended for cleaving Fast-Cure Connectors.

1. When the adhesive is cured (no longer wet), scribe the fiber where it meets the bead of adhesive at the end of the ferrule.
2. Gently pull away the fiber stub, and properly dispose of it.

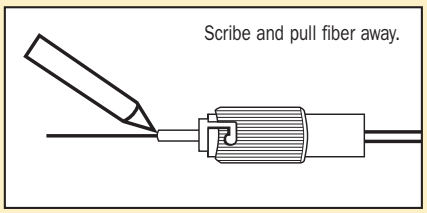
NOTE: Loose fiber debris can be dangerous. Be sure to properly dispose of fiber.

3. 12µm "AIR POLISH" - Begin by "Air Polishing" the connector with 12µm polishing film. Hold film at the edge with thumb and forefinger. Gently touch connector to film and rotate using 18-20 one-inch circles to remove fiber stub. Leviton's 12µm film is dark pink in color.

   3µm & .3µm "PAD POLISH" - Wipe the bottom surface of the polishing puck and the surface of the connector with a 99% alcohol wipe. Place 3µm film on the polishing pad, dull side up, and set polishing puck on the film. Gently insert the connector into the puck, and trace 15-20 figure 8's on the film, using very light pressure. Repeat the same procedure with the .3µm film. Leviton's 3µm is yellow and the .3µm film is light blue in color.

4. Inspect the fiber using the 200x inspection scope, ensuring the fiber is not scratched, cracked or broken. Remove any debris using a lint-free wipe.
5. Repeat the pad polishes if neccesary.

NOTE: When polishing LC connectors, use Leviton's 1.25mm Polishing Puck (PN# 49886-LCP).



IMPORTANT

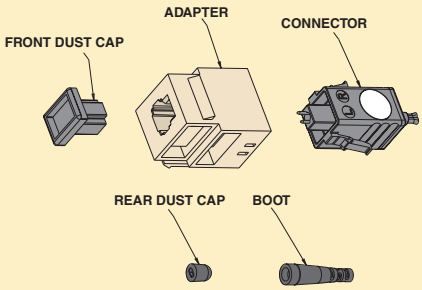
These are guidelines and not meant to substitute for the instructions that come with the connectors. Please use those instructions for terminating this connector. Follow proper safety procedures.

SPECTRO-LINK™ WORKSTATION CONNECTOR TERMINATION: 900µm

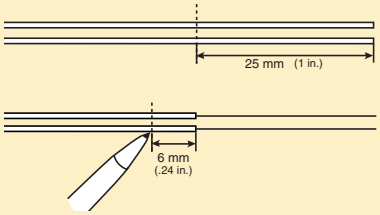
Fiber Preparation

For 900 µm Distribution Tight-buffered Fibers

1. Feed both fibers through the boot (small end first) and slide boot down until it is out of the way.



2. Measure and mark approximately 25 mm (1") from the end of each buffer fiber.



3. Using a buffer remover, strip away the 25 mm section of each buffer in small, 10 mm increments.

4. Using a permanent ink marker, precisely mark a line on each buffer 6 mm (.24") back from the stripped edge of the buffer. This will indicate when the field fibers come into contact with the pre-inserted fiber stubs.

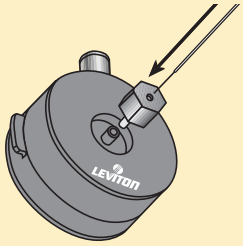
5. Clean both bare fibers with two passes of an alcohol pad. When cleaning, pull on the fibers with gentle but firm pressure. This will help identify potentially damaged fibers. Do not touch the bare fibers after cleaning them. Do not remove the 6 mm mark.

IMPORTANT

These are guidelines and not meant to substitute for the instructions that come with the connectors. Please use those instructions for terminating this connector. Follow proper safety procedures.

Connector Installation:

1. Insert the Versa-Cleave Workstation adapter into the Thread-Lock Versa-Cleave as shown.



2. Gently thread one of the stripped fibers into the top of the WS adapter, until it can go no further (or "bottoms out"). Do not force.

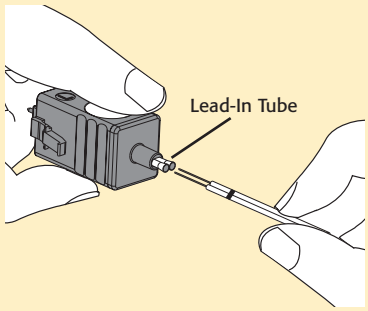
3. Gently press the button to cleave the fiber.

4. Remove the cleaved fiber and repeat the process with remaining fiber.

5. Align fibers with the lead-in tube of the connector. Ensure that the fibers are separate and oriented in such as way as will maintain the system polarity.

NOTE: Whenever the fibers are being inserted into or removed from the connector, the button on the connector must be pressed. Once the button is released, the fibers are locked in place. The fibers cannot be inserted or removed without the button being pressed.

6. Hold the connector with your thumb on the button and your forefinger beneath the connector body. Press and hold the button down while carefully inserting both cleaved fibers into the lead-in-tubes on the connector. The mark you made on the buffer will approach the mouth of the lead-in tubes. You will feel the fiber stop against the connector's fiber stub. Maintain slight inward pressure on the fibers, and remove pressure from the button. This will lock the fibers in place.

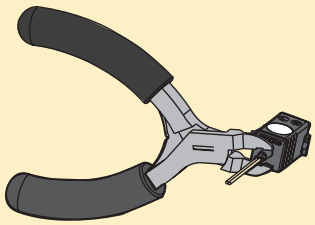


NOTE: Do not bend or angle fibers. Keep them separated and straight. Each fiber has a separate lead-in tube in the back of the connector. If the fiber ends are too close together, they may go in the same tube causing the fibers to bind.

NOTE: If you have stripped and cleaved the fibers to the correct length, the buffer mark will line up with the edge of the lead-in-tube. This is an indicator that the fibers are touching properly. If the mark does not line up, remove the connector and check for broken fiber. If the fiber has broken, re-strip and re-cleave the fiber and begin with a new connector.

7. You may now test the connector with a Visual Fault Locator System (VFL). If the fibers are not seated properly, the reddish back of the connector will glow. If the fiber is not seated correctly, reinstall the fibers.

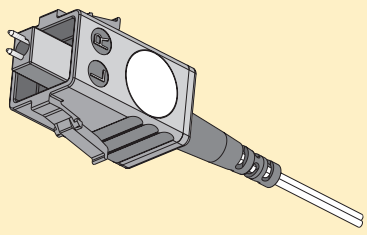
8. Using the Crimp Tool, crimp the brass crimp tubes. You should see a flat impression in the lead-in tubes, indicating a proper crimp.



9. Slide the boot over the crimp tubes until it reaches the back of the connector.

10. The connector is now ready for use, and can be installed into the keystone adapter. Use with a Leviton MT-RJ MOS adapter and faceplate. If the connector will not be installed immediately, replace the adapter and dust cover until the connector is ready to be installed.

NOTE: The Spectro-Link Workstation Connector is not intended for use in a QuickPort-Style Outlet. Use in a keystone-style MOS outlet only.



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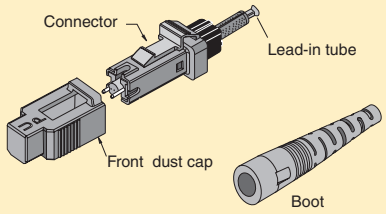
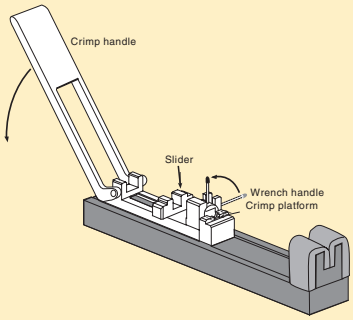
SPECTRO-LINK™ FRAME-STATION CONNECTOR TERMINATION: 900µm

Connector Preparation

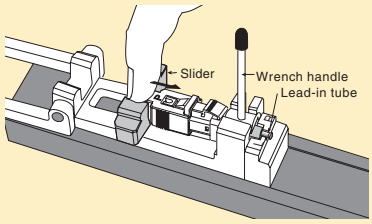
NOTE: This procedure REQUIRES the Leviton Frame-Station Connector Assembly Tool that comes in the Spectro-Link MT-RJ Tool Kit (see Page D9).



1. Flip the crimp handle of the Frame-Station Connector Assembly Tool open and rotate so that the wrench handle is in the "UP" position.



2. Remove and discard the cap from the rear of the connector.
3. Examine the connector to make sure it is in the open position. The connector is in the open position when the key on the cam is positioned 90° from the "UP" lettering on top of the dust cap.
4. Pull back the slider of the Connector Assembly Tool and insert the connector, oriented as shown, into the tool as far as it will go. The lead-in tube should rest on the crimp platform when the connector is fully seated. Do not force.



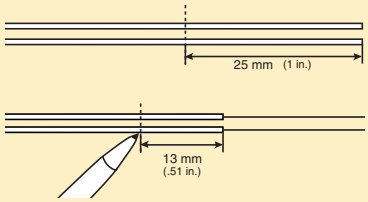
IMPORTANT

These are guidelines and not meant to substitute for the instructions that come with the connectors. Please use those instructions for terminating this connector. Follow proper safety procedures.

Fiber Preparation

For 900 µm Distribution Tight-buffered Fibers

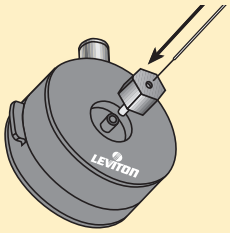
1. Feed both fibers through the boot (small end first) and slide boot down until it is out of the way.
2. Measure and mark approximately 25 mm (1") from the end of each buffer fiber.
3. Using a buffer remover, strip away the 25 mm section of each buffer in small, 10 mm increments.
4. Using a permanent ink marker, precisely mark a line on each buffer 13 mm (.51") back from the stripped edge of the buffer.



5. Clean both bare fibers with two passes of an alcohol pad. When cleaning, pull on the fibers with gentle but firm pressure. This will help identify potentially damaged fibers. Do not touch the bare fibers after cleaning them.

Connector Installation:

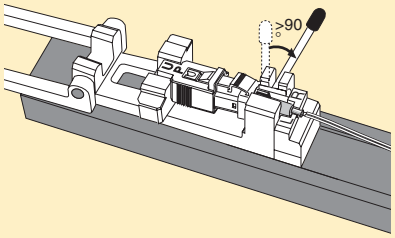
1. Insert the Versa-Cleave Frame-Station adapter into the Thread-Lock Versa-Cleave as shown.



2. Gently thread one of the stripped fibers into the top of the FS adapter, until it can go no further. Do not force.
3. Gently press the button to cleave.
4. Remove the cleaved fiber and repeat the process with remaining fiber.
5. Align fibers with the lead-in tube of the connector. Ensure that the fibers are separate and oriented in such a way as will maintain the system polarity.
6. Carefully insert both cleaved fibers into the lead-in tube until you feel them firmly stop against the connector's pre-inserted fiber stub. Be sure to guide fibers evenly, without bending or angling. If you feel resistance at the entry funnel, pull the fibers back out a short distance and re-insert.

NOTE: The buffer mark will line up with the edge of the lead-in-tube. This is an indicator that the fibers are touching properly.

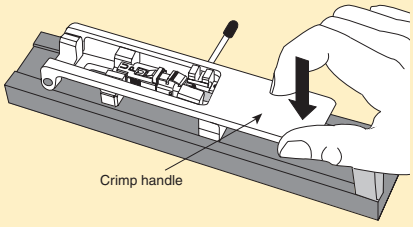
7. Rotate the wrench handle of the Connector Assembly Tool to the "DOWN" position, to cam the connector. The wrench must stay down––do not rotate it back upright.



8. The fiber is now held inside the connector by the cam.
9. You may now test the connector with a Visual Fault Locator System (VFL).

WARNING: Use a Leviton Frame-Station Connector Assembly Tool to crimp the fiber.

10. Flip the crimp handle back. You should see a flat impression in the crimp tube, indicating a proper crimp. Leave the wrench handle down. Remove the connector by lifting it and its fibers straight up and out of the tool. Do not pull the fibers or cable away from the crimped tube. Handle the connector only.



11. Slide the boot back up onto the connector until it reaches the cam.
12. The connector is now ready to use.

NOTE: The Spectro-Link Frame-Station Connector can be used at the workstation with the addition of a Spectro-Link QuickPort Adapter or Spectro-Link Keystone Adapter.

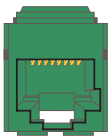
What is the difference between T568A and T568B wiring?

T568A and T568B are the two wiring standards for an 8-position modular connector, permitted under the TIA-568-A wiring standards document. The only difference between T568A and T568B is that the orange and green wire pairs (pairs two and three) are interchanged. For a wiring diagram, see page X10.

Keyed VS. Non-Keyed Connectors

NON-KEYED CONNECTOR

Modular non-keyed 8-position, 8-conductor connectors accept standard (non-keyed) 8-position patch cords.



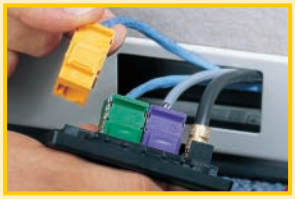
KEYED CONNECTOR

Modular keyed connectors accept both keyed and non-keyed 8-position patch cords.

QuickPort Modular Furniture Faceplates

QuickPort Modular Furniture Faceplates allow access to connectors without removal of the channel cover. Simply run cable through the modular furniture.

Next, punch down or terminate QuickPort connectors onto the cable. UTP QuickPort Connectors have color-coded wiring labels and easy termination/ punchdown to assure fast, accurate wiring.



Snap the connectors into the Modular Furniture Plate. For initial installation or later re-configuration, modules easily snap in and out of the plate.

And finally, snap the plate easily into your modular furniture. No tools are required to insert or remove the plate, and the furniture kickpanel does not have to be removed.

Singlemode vs. Multimode Fiber

Fiber optic cable and connectors come in two modes: multimode and singlemode. Here is a brief overview of the difference between them.

Multimode
Optical fiber which has a core size of either 50 micron or 62.5 micron. Can be used with either LED or LASER light sources to transmit many modes, or rays of light. Common in Local Area Networks.

Singlemode
Optical fiber which has a core size of 8.3-9.5 micron. Singlemode fiber is optimized for LASER light sources which transmit one mode, or path of light. Typical in long-haul networks and outside plant applications due to increased bandwidth.

Cable Testers - Manufacturer Listing

The following companies manufacture hand-held cable testers. This information is listed as a courtesy for your reference only and is not an endorsement nor a recommendation. You are advised to contact each company directly to request detailed information about each product. Some of these companies also sell their product through other companies under other product names; you are advised to ask which of these companies is the actual manufacturer of the tester.

Datacom Textron	Products
Datacom Textron 4455 Boeing Drive Rockford, Illinois 61109 USA phone: 800-435-0786 fax: 800-451-2632	**FIBERcat™ Test & Talk, FIBERcat™ Optical Loss Measuring System, LANcat® System 5 Cable Tester & Talk Set, LANcat® System 6 Cable Tester & Talk Set, LANcat® Performance Modules, LANcat® Installer, Report Manager™ Software**
http://www.datacom.textron.com/products/install.html	

Fluke Networks	Products
6920 Seaway Boulevard Everett, Washington 98203 USA Phone: 800 283 5853 Fax: 425 446 5019	**DSP-4000 Series Digital CableAnalyzer™, DSP Permanent Link Adapter, DSP-2000 Digital CableAnalyzer™, DSP-100 Digital CableMeter®, 620 LAN CableMeter®, DSP Fiber Test Adapters, DSP-FTK Fiber Optic Test Kit, Laser Source**
http://www.flukenetworks.com	

Agilent Technologies, Inc.	Products
753 Forest Street Marlborough, MA 01752 USA Telephone: 800 418 7111 Fax: 508 486 0600	**Wirescope 350, Wirescope 155**
http://www.agilent.com/comms/wirescope	

Microtest Inc.	Products
4747 North 22nd Street Phoenix, Arizona 85016 USA phone: 602 952 6400 Fax: 602 952 6401	**OMNIScanner2™, OMNIFiber™, OMNIScanner, OMNIScanner CertiFiber™, SimpliFiber™, PentaScanner®, MICROSCANNER™, MICROSCANNER Pro™**
http://www.microtest.com	

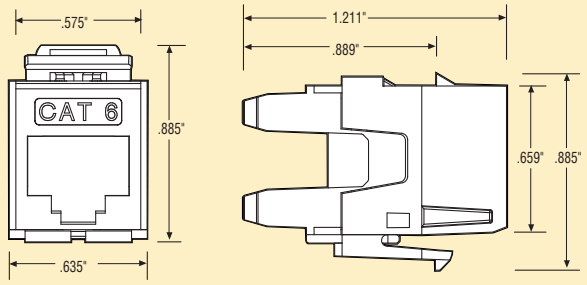
ACTERNA	Products
Ideal Industries Becker Place Sycamore, Illinois 60178 USA phone: 800 435 0705 fax: 800 533 4483	**LT 8000 Series, LANTEK 6, LANTEK 7**
http://www.idealindustries.com/dc/LANCableCertifiers.nsf	

DIMENSIONAL LINE ART

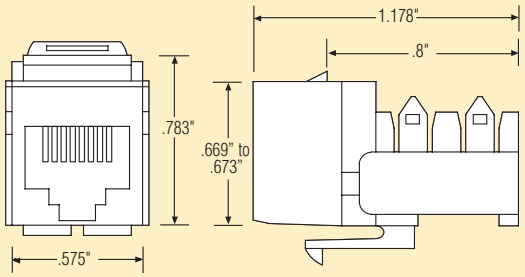
Note: Product drawings and dimensions are provided for your information, to help verify device compatibility with wallboxes or other intended device openings for installation. Line artworks are not shown at the same scale.

For complete up-to-date dimensional drawings and product specifications, visit our Spec/Design web resource at www.levitonvoicedata.com.

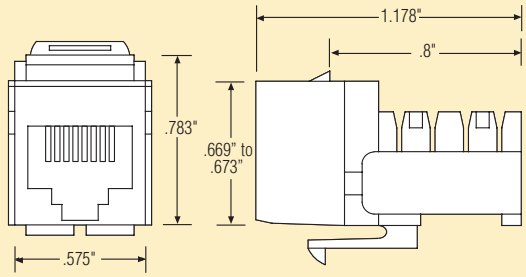
Quickport eXtreme 6+ Connector



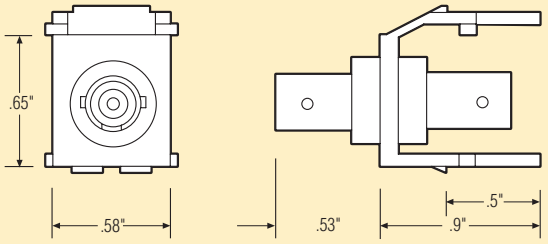
Quickport® Gigamax™ 5e, & GigaMax 5e+



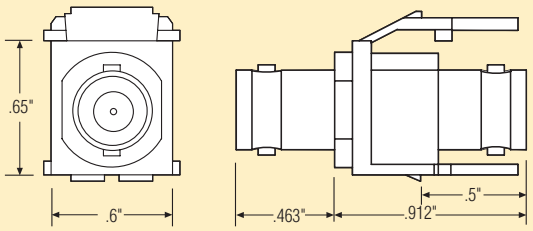
Quickport Category 5, Category 3 and Voice Grade Connectors



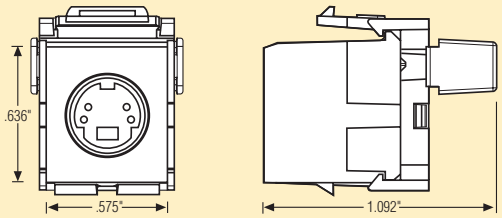
Quickport ST Module



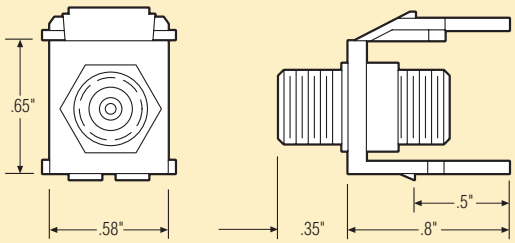
Quickport BNC Module



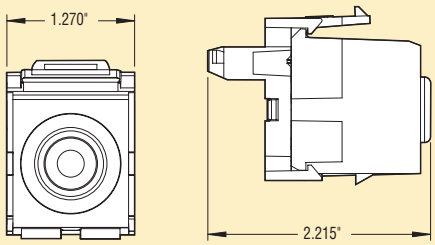
Quickport S-Video Module



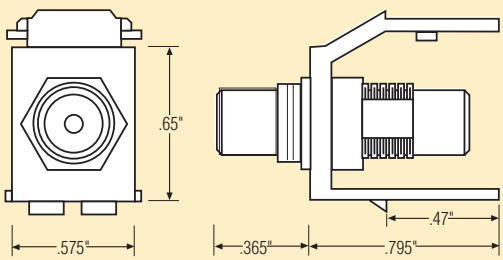
Quickport F-Type Bulkhead Module



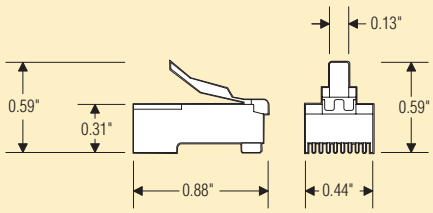
Quickport RCA-110 Connector



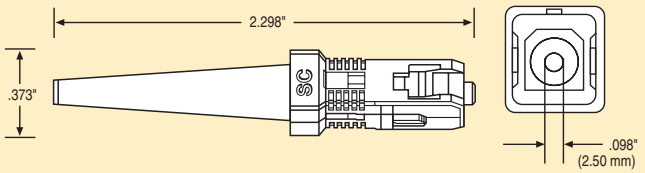
Quickport RCA Module



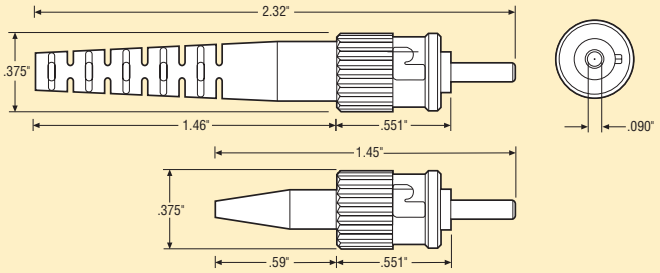
EZ-RJ45™ Connector



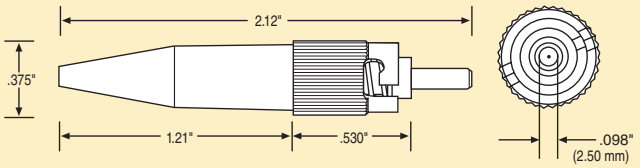
Thread-Lock™ SC Fiber Optic Connector



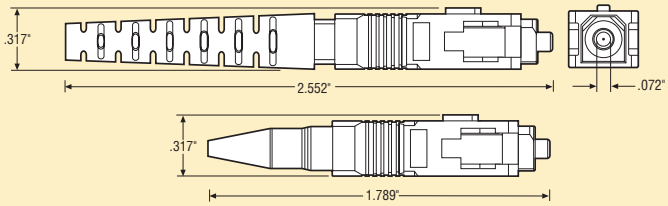
Fast Cure ST Connector



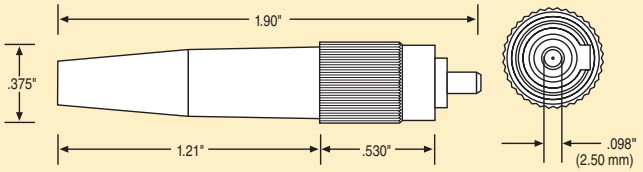
Thread-Lock ST® Fiber Optic Connector



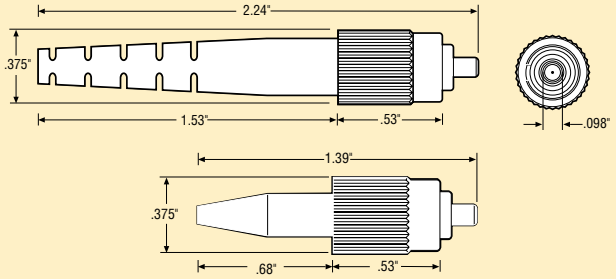
Fast Cure SC Connector



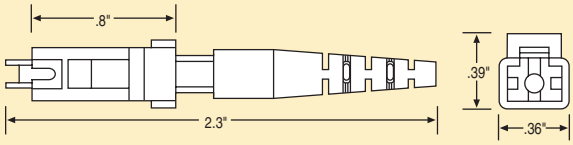
Thread-Lock FC Fiber Optic Connector



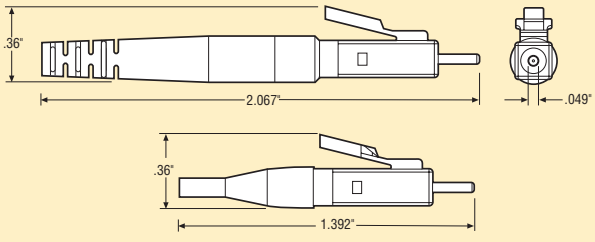
Fast Cure FC Connector



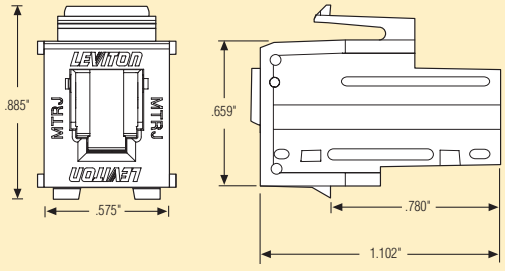
Spectro-Link™ Frame-Station MT-RJ Connector



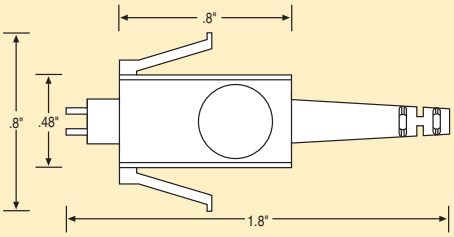
Fast Cure LC Connector

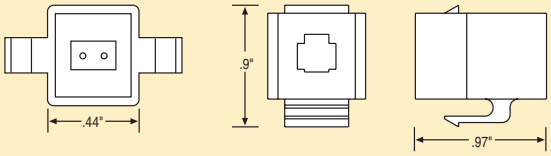


Spectro-Link QuickPort Frame-Station Adapter



Spectro-Link Workstation MT-RJ Connector





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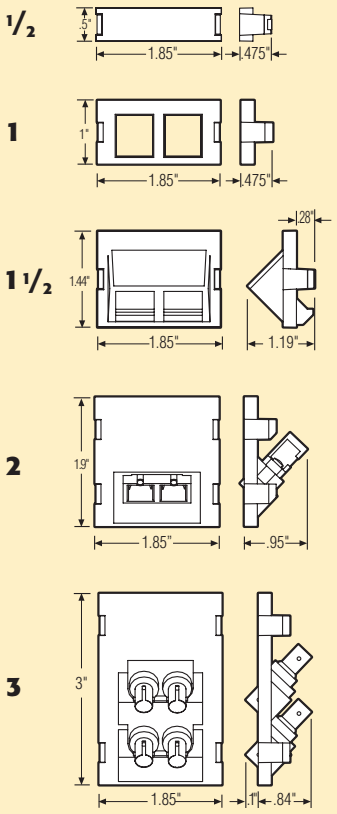
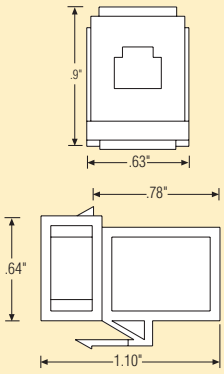
MULTIMEDIA OUTLET SYSTEM (MOS)

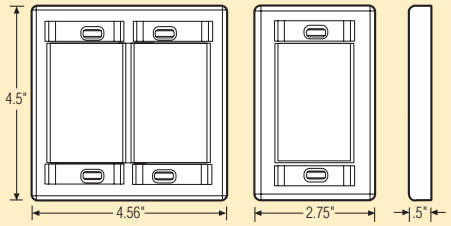
Quickport® MOS 1/2-, 1-, 1.5-, 2- and 3 Unit High Inserts



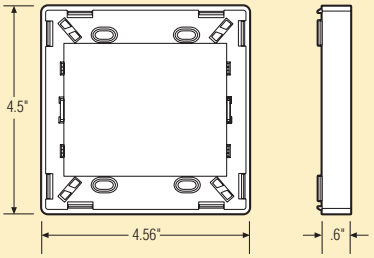
Spectro-Link™ Keystone Adapter *(Works with MT-RJ MOS Insert—NOT a QuickPort Adapter)*



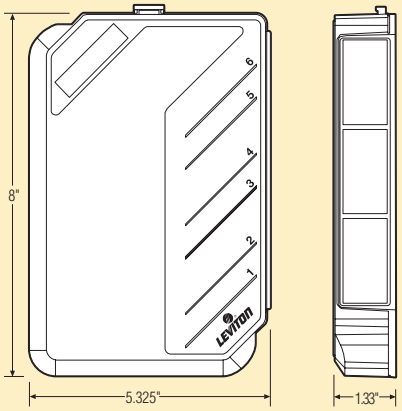
Quickport® MOS Wallplate



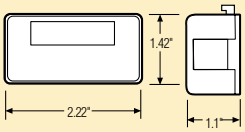
Quickport® MOS Storage/Spacer Ring



Quickport MOS Surface Mount Box

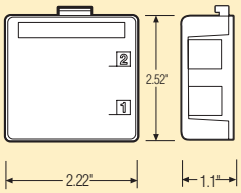


Quickport 1-Port Surface Mount Box

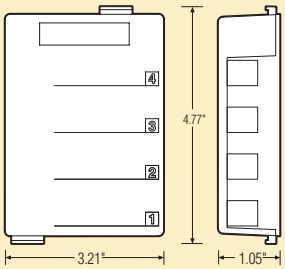


SURFACE MOUNT HOUSINGS

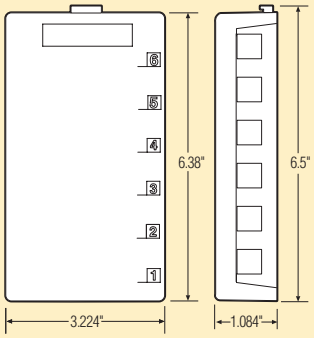
Quickport 2-Port Surface Mount Box



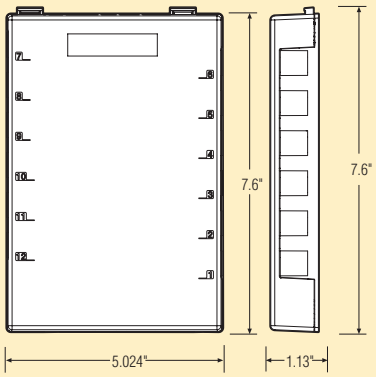
Quickport 4-Port Surface Mount Box



Quickport 6-Port Surface Mount Box

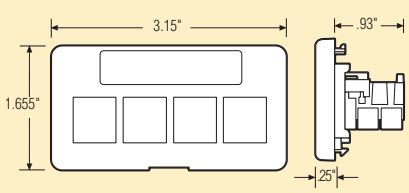


Quickport 12-Port Surface Mount Box

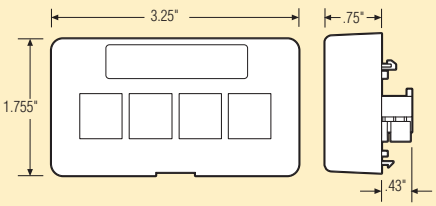


QUICKPORT MODULAR FURNITURE FACEPLATES

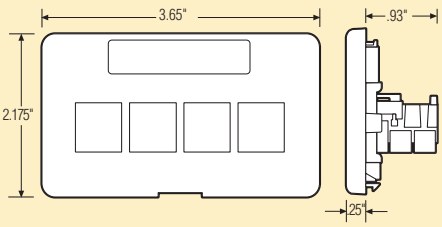
Standard Faceplate



Extended-Depth Faceplate

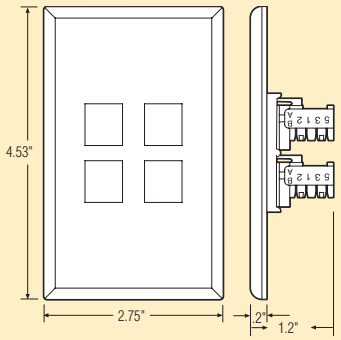


Herman Miller Faceplate



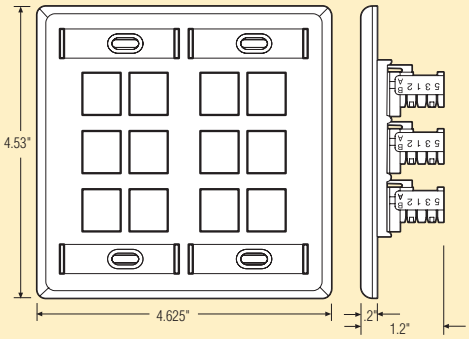
QUICKPORT® FLUSH MOUNT HOUSINGS AND WALLPLATES

Quickport 4-Port Single-Gang Wallplate



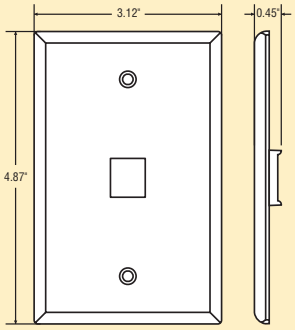
(Dimensions are the same for 1-, 2-, 3- and 6-port version.s)

Quickport 12-Port Dual-Gang Wallplate



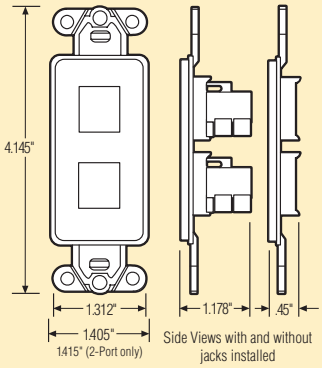
(Dimensions are the same for 1-, 2-, 3-, 6- and 8-port versions.)

Quickport Midsize Wallplate



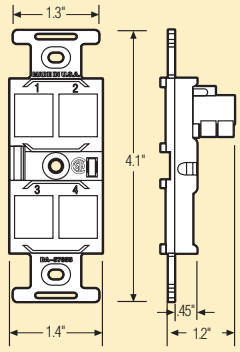
(Dimensions are the same for 1-, 2-, 3- and 6-port versions.)

Quickport Decora® Multimedia Wallplate Inserts, 2-, 3-, 4-, or 6-ports

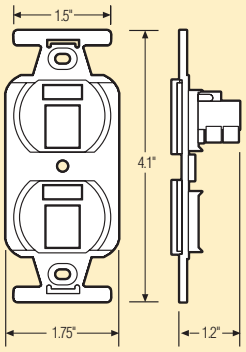


Side Views with and without jacks installed

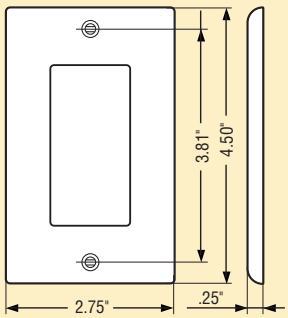
Quickport Quad 106

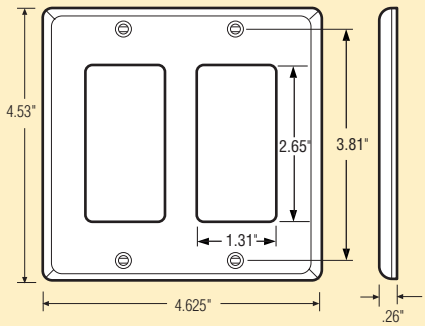


Quickport Duplex 106



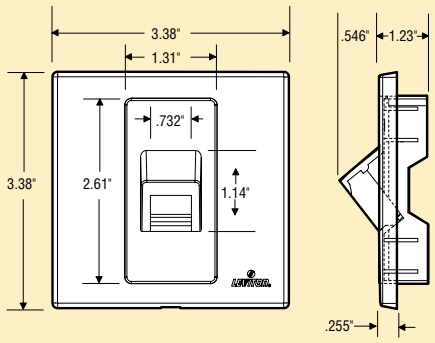
Decora Plus Single-Gang & Dual-Gang Snap-on Wallplates



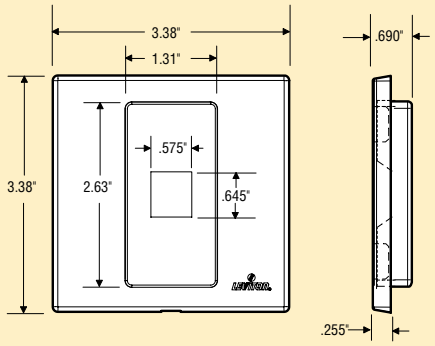


QUICKPORT INTERNATIONAL WALLPLATES

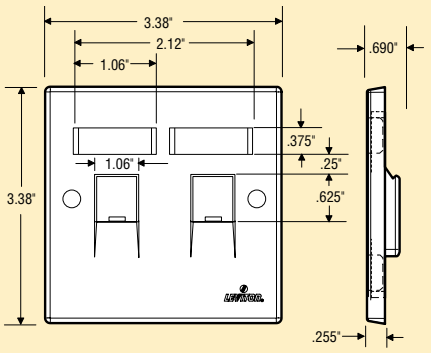
United Kingdom Wallplate w/38° Exit



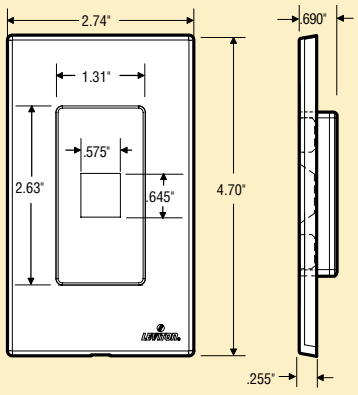
United Kingdom Standard Wallplate



United Kingdom Standard Wallplate w/Designation ID Kit & Slider Cover



South American Standard Wallplate



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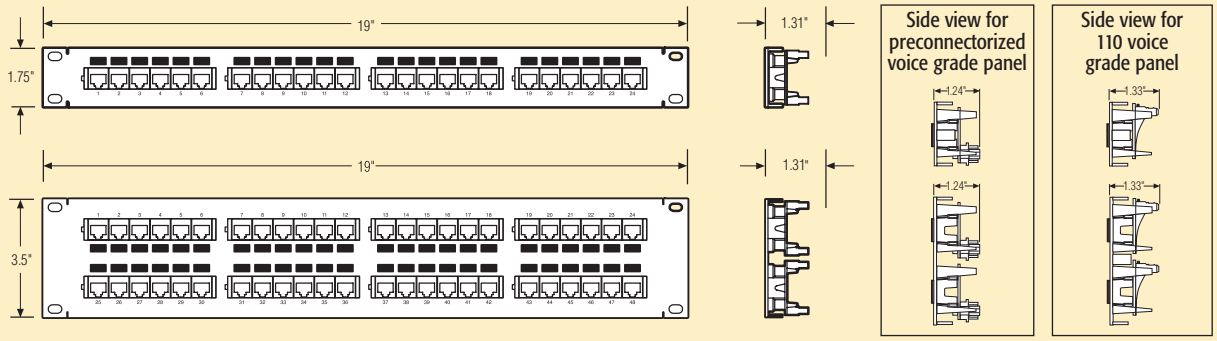
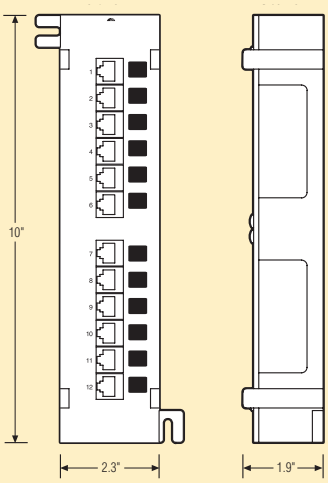
STANDARD AND UNIVERSAL PRE-CONFIGURED PATCH PANELS

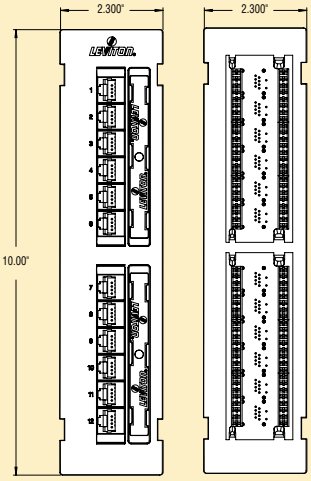
Category 5, GigaMax™ 5e, and Voice Grade 24- and 48-Port Panels



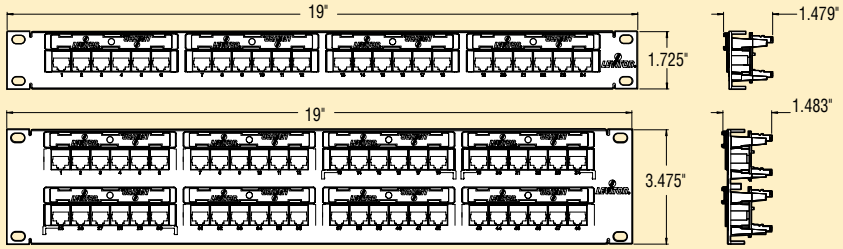
Category 5 and GigaMax 5e Patch Blocks



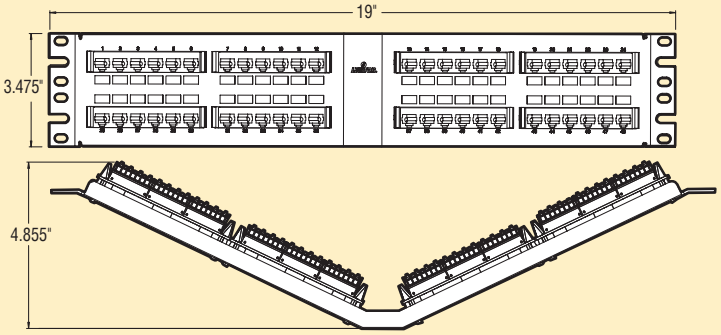
eXtreme™ 6+ Patch Block



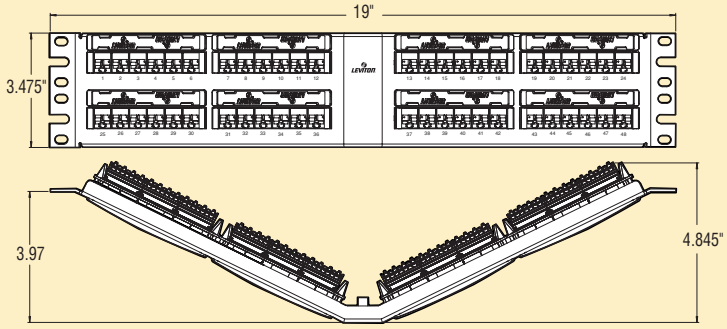
eXtreme 6+ 24- and 48-Port Universal Patch Panels



Universal GigaMax 5e 48-Port Angled Patch Panel

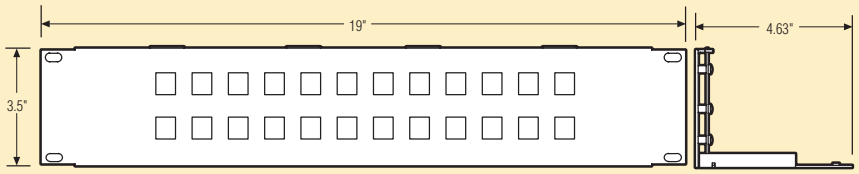


eXtreme 6+ 48-Port Angled Patch Panel

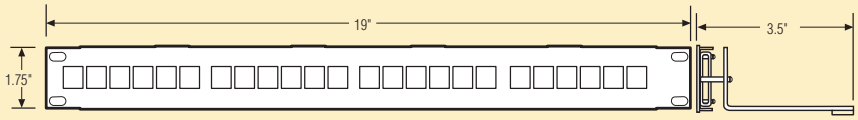


QUICKPORT® PATCH PANELS

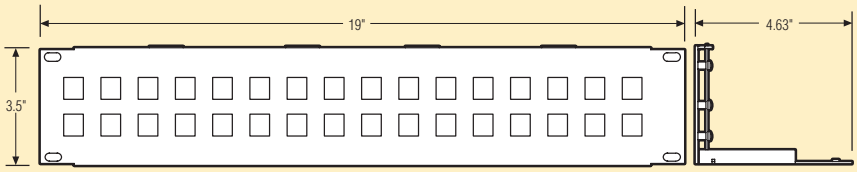
Quickport® 24-Port Panel



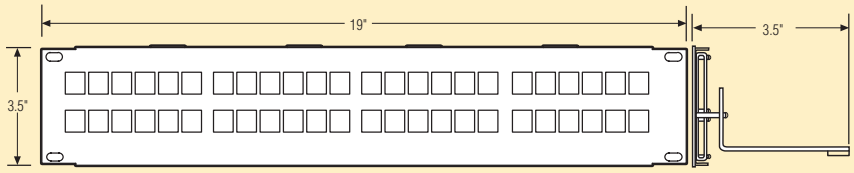
Quickport High Density 24-Port Panel



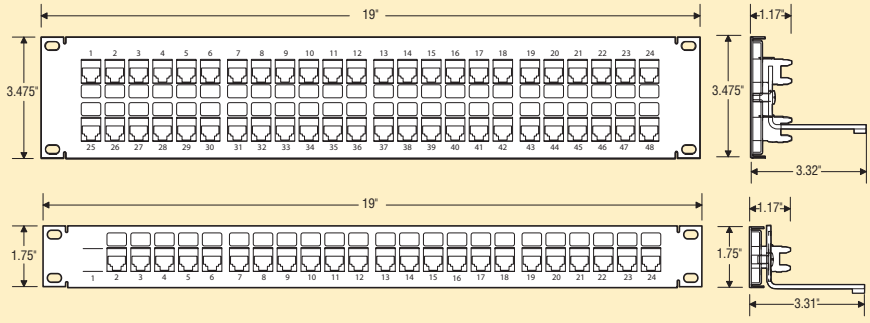
Quickport 32-Port Panel



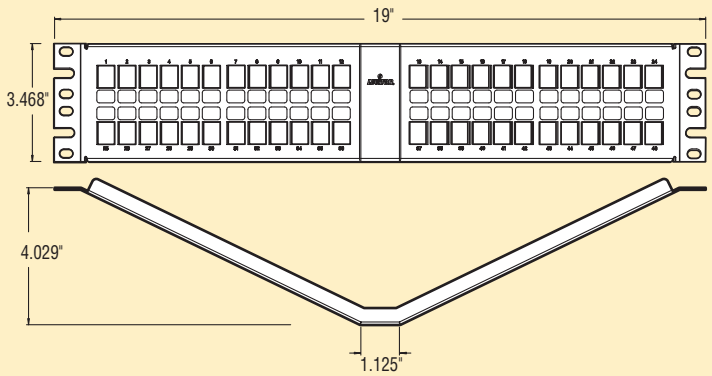
Quickport High Density 48-Port Panel



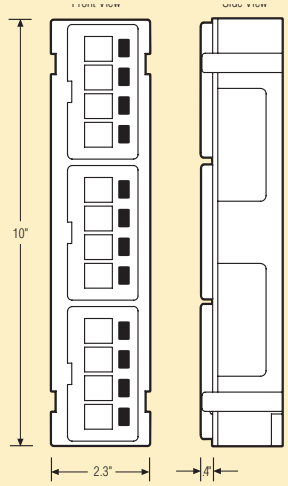
Quickport Category 6+ 24- and 48-Port Patch Panels



Quickport Field-Configurable 48-Port Angled Patch Panel



Quickport Patch Block



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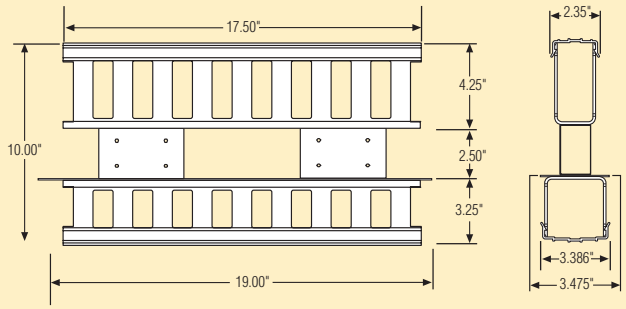
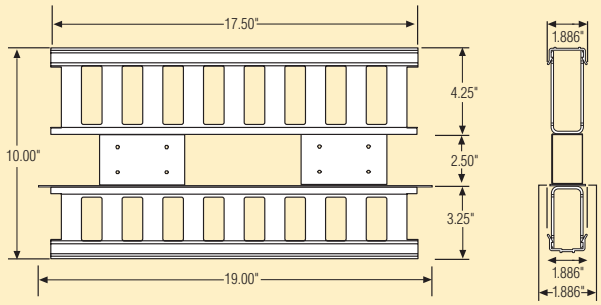
CABLE MANAGEMENT

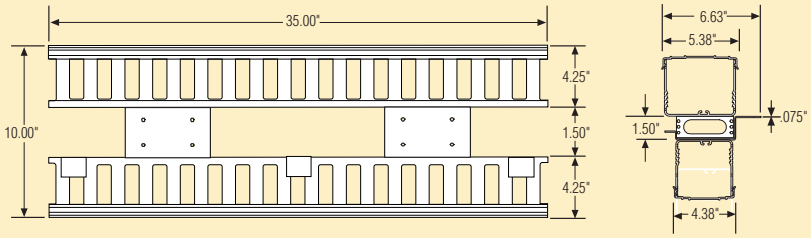
Horizontal Front and Rear Slotted Duct, 2RU



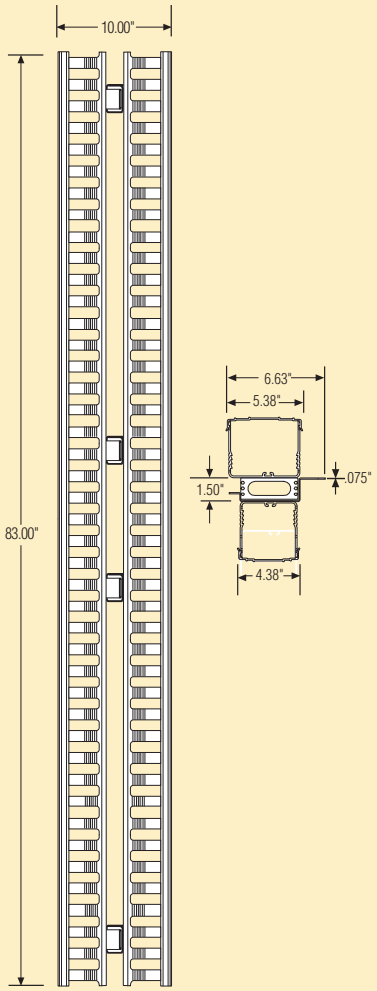
Horizontal Front and Rear Slotted Duct, 1RU



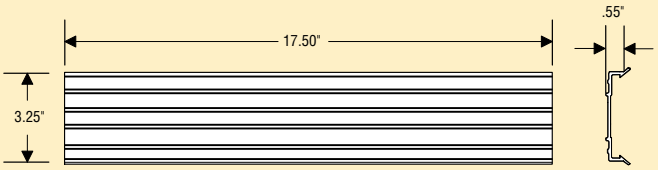
Vertical Front and Rear Slotted Duct



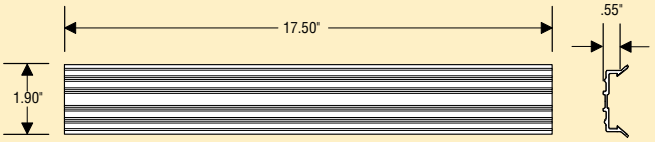
Vertical Front Only Slotted Duct



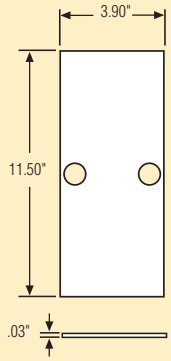
2RU Horizontal Front Only Extended Cover



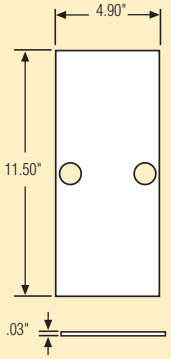
1RU Horizontal Front Only Extended Cover



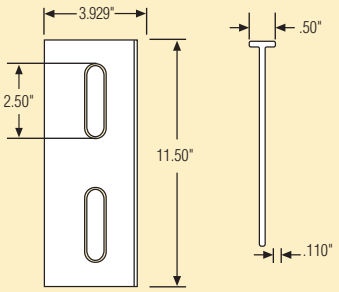
5" Front Lateral Channel Divider



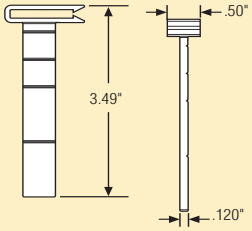
4" Rear Lateral Channel Divider



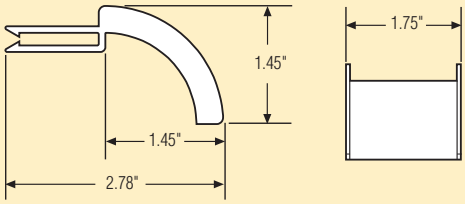
Vertical Channel Divider



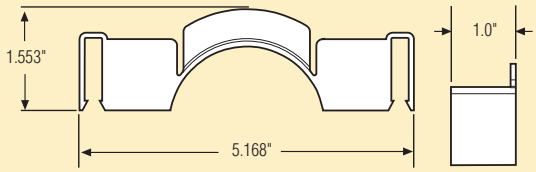
Cable Control Bracket



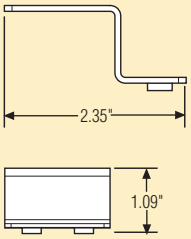
Bend-radius Compliant Router



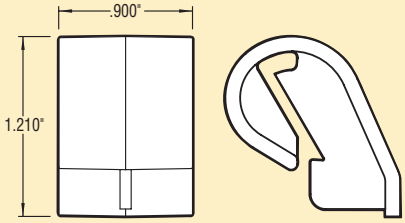
Copper/Fiber Slack Loop Organizer



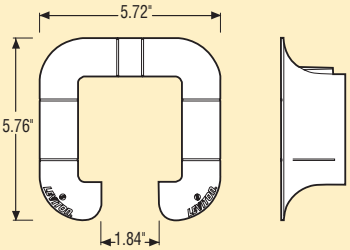
Mounting Bracket



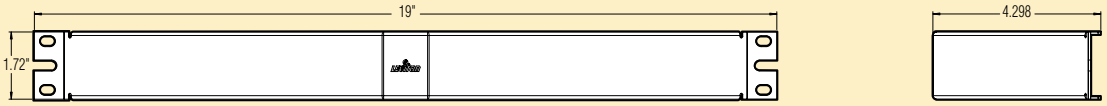
Duct Cover Hinge



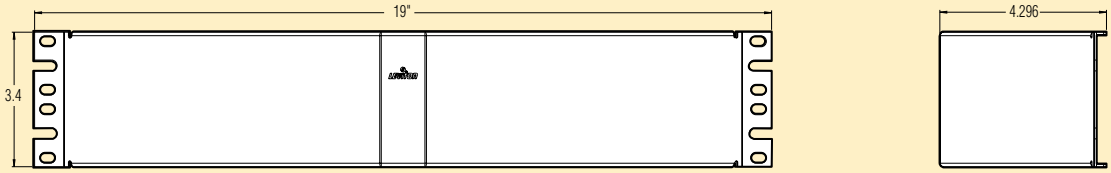
Bend-radius Compliant Funnel



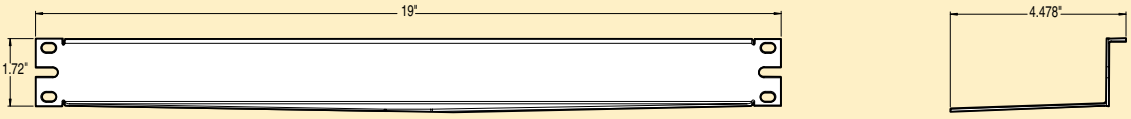
Front Blank Angled Panle (1.75"H)



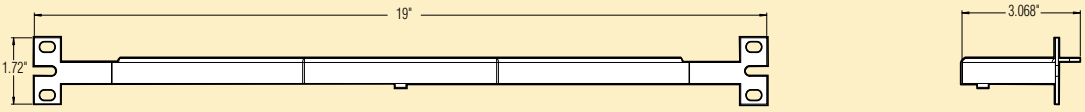
Front Blank Angled Panle (3.5"H)



Transitional Cover



Angled Cable Management Bar



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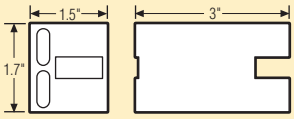
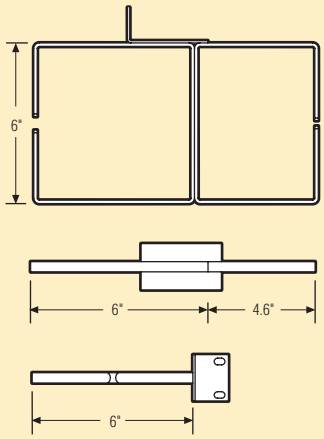
CABLE MANAGEMENT

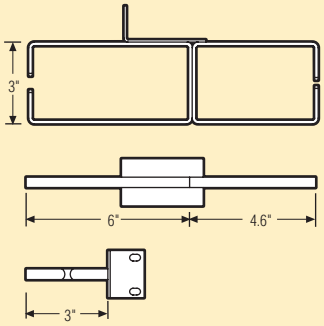
Tie Bracket



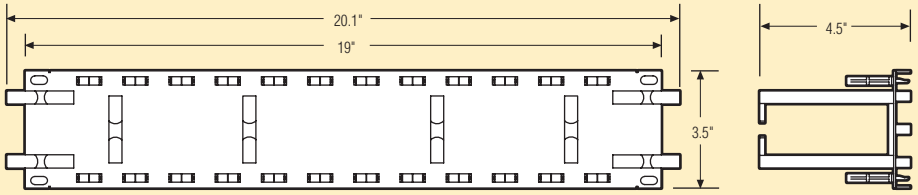
6" Vertical Manager Ring



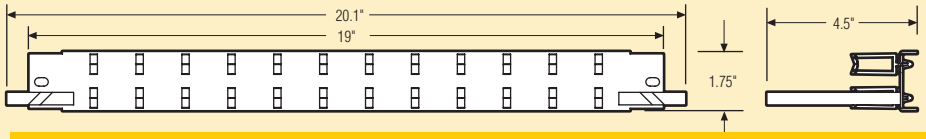
3" Vertical Manger Ring



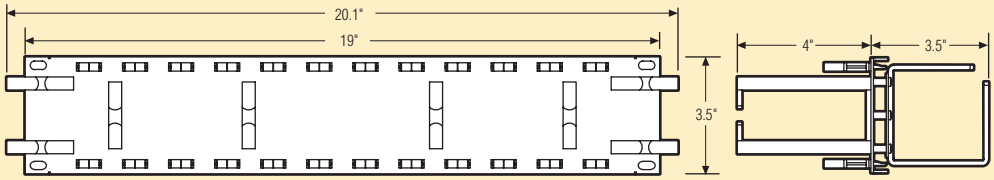
Two-Position Organizer Panel



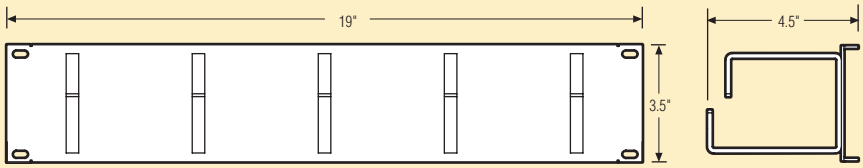
One-Position Organizer Panel



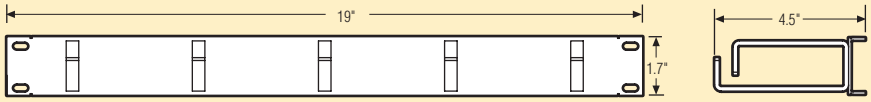
Combo Front/Rear/Manager



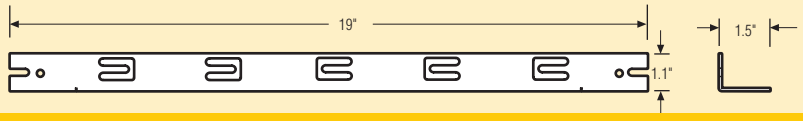
Standard Interbay Cord Manager



Low-Profile Cord Manager

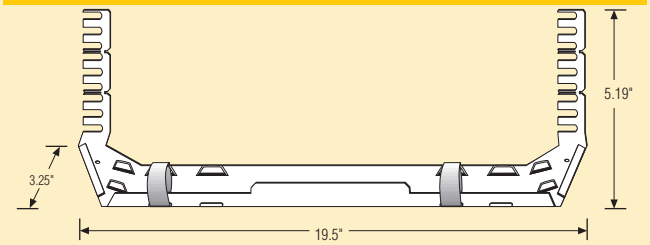


Support/Tie Wrap Bar

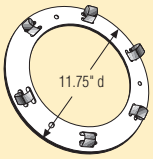


HOOK AND LOOP CABLE MANAGEMENT

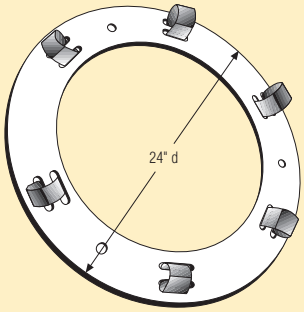
SpaceMaker® Cable Manager



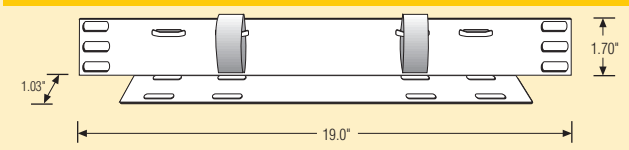
11.75" Recloseable Storage Ring



24" Recloseable Storage Ring

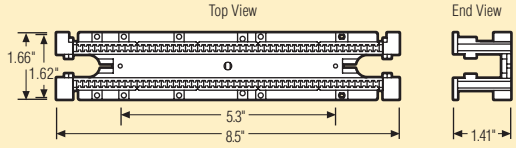


Recloseable Cable Bar

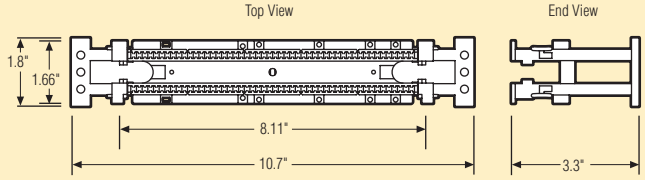


110 PRODUCTS

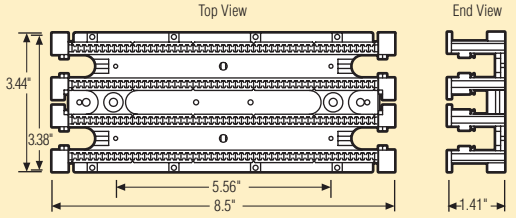
110 50-Pair Wiring Base



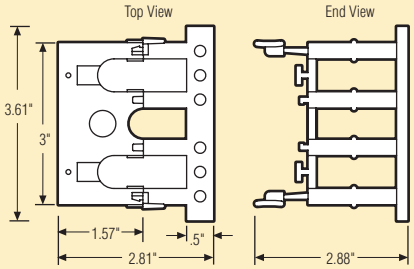
110 50-Pair Wiring Base with legs



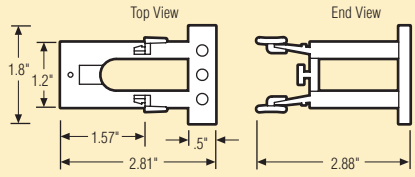
110 100-Pair Wiring Base



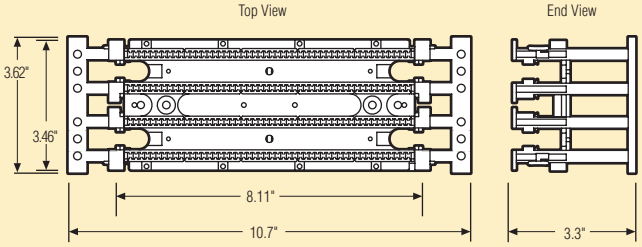
100-Pair Legs



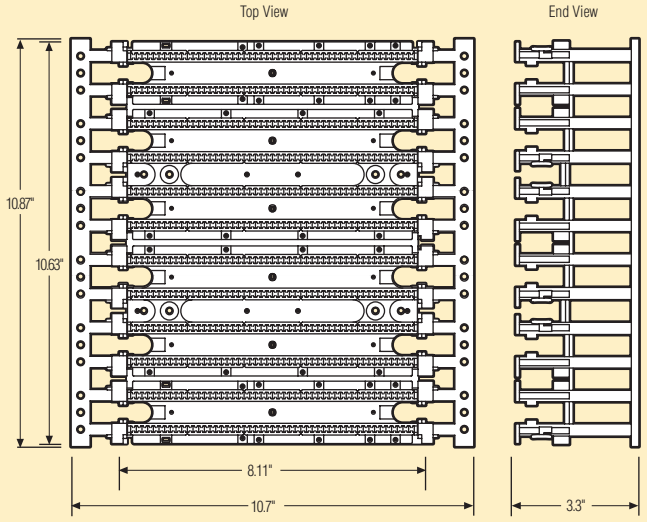
50-Pair Legs



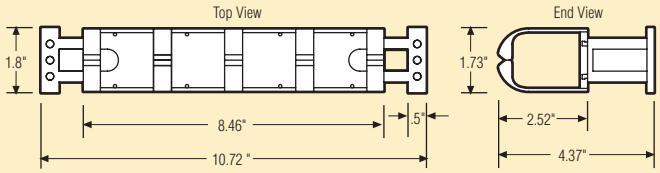
110 100-Pair Wiring Base with Legs



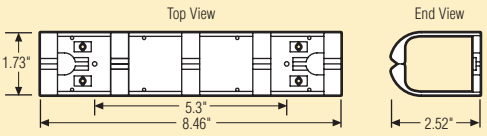
110 300-Pair Wiring Base with Legs



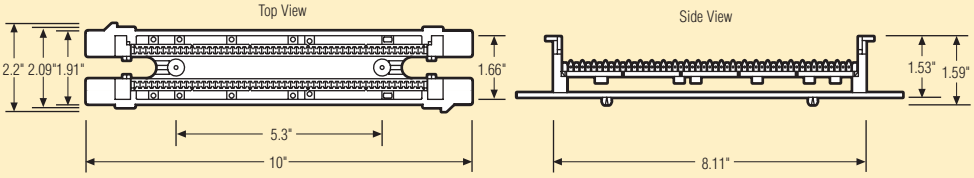
110 Horizontal Cord Manager with Legs



110 Horizontal Cord Manager without Legs



110 89D 50-Pair Wiring Base



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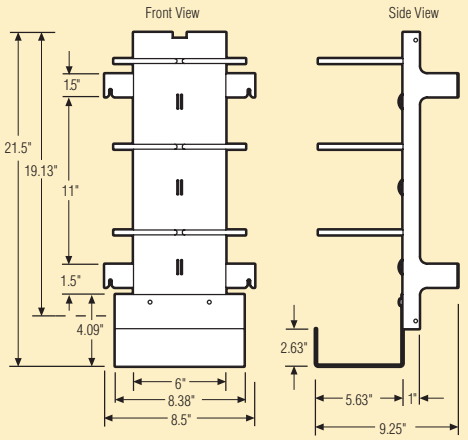
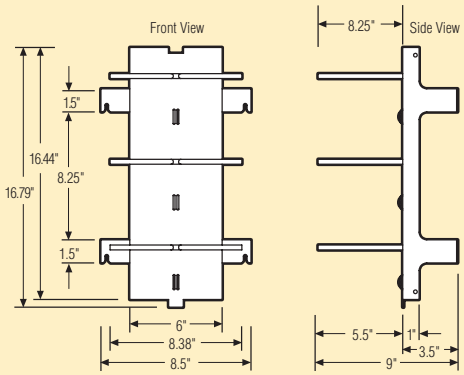
110 PRODUCTS

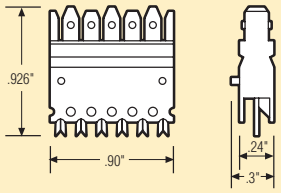
110 Vertical Cord Manager with Tray



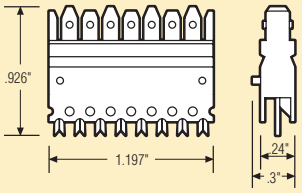
110 Vertical Cord Manager Extension



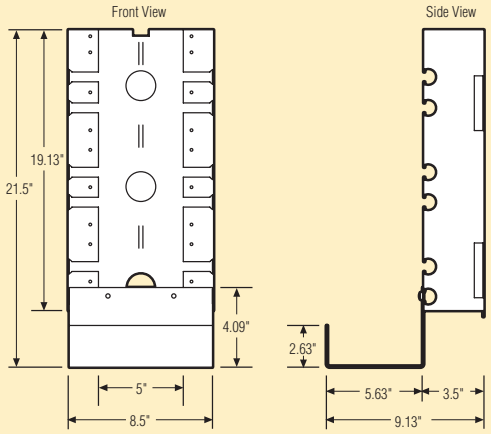
110 C-3 Connector Block



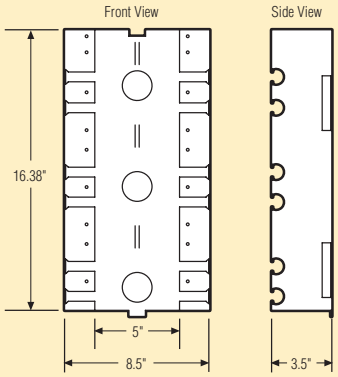
110 C-4 Connector Block



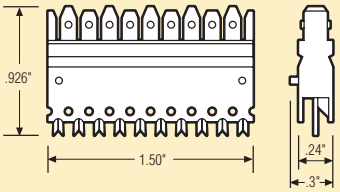
110 Tower



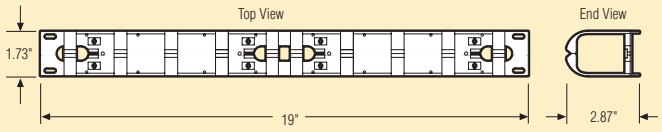
110 Tower Extension



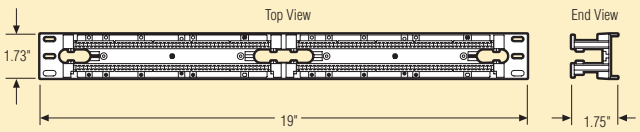
110 C-5 Connector Block



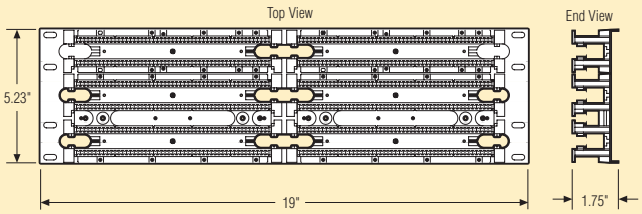
110 Rack Mount Horizontal Cord Manager



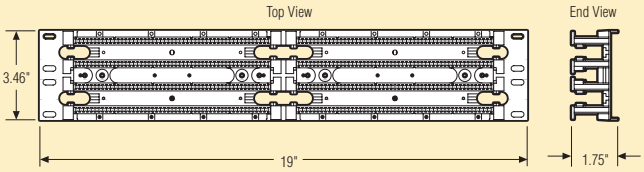
110 Rack Mount 100-Pair Wiring Base



110 Rack Mount 300-Pair Wiring Base

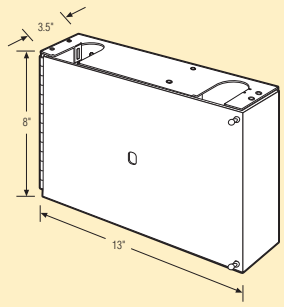


110 Rack Mount 200-Pair Wiring Base

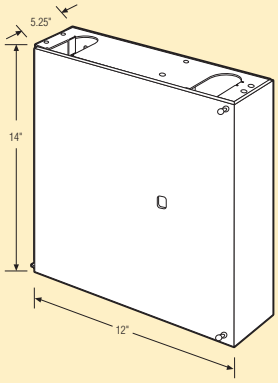


FIBER PRODUCTS

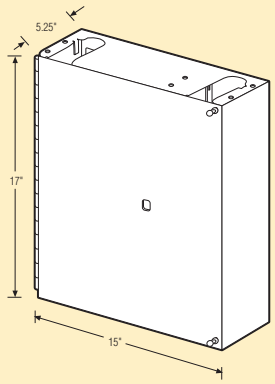
Small Wall-Mount Panel



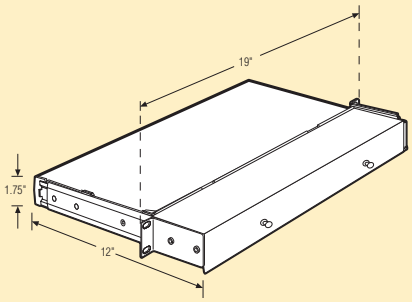
Medium Wall-Mount Panel



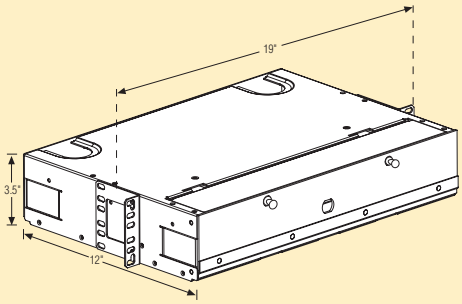
Large Wall-Mount Panel



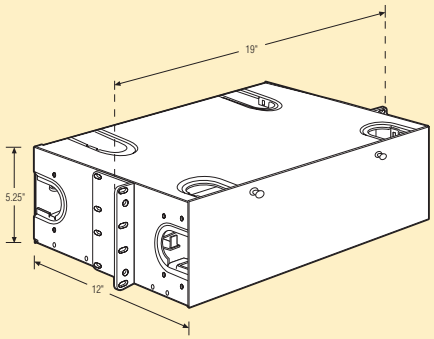
Low-Profile 1RU Rack-Mount Panel



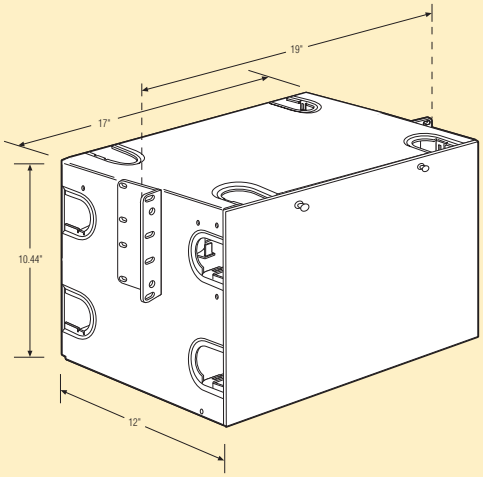
Universal 2RU Panel



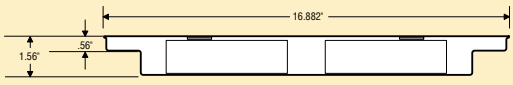
3RU Rack-Mount Panel



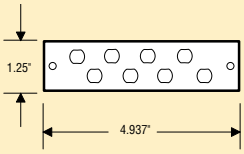
6RU Rack-Mount Panel



Two Six Pack Plate Bulkhead



Mounting Plate



Fiber Density Chart

Rack Mount Density

Low Profile 1RU
Holds 1 Bulkhead w/or w/o 2 Mounting Plates
6-pack ST = up to 12 Fibers
8-pack ST = up to 16 Fibers
6-pack FC = up to 12 Fibers
8-pack FC = up to 16 Fibers
3-pack Duplex SC = up to 12 Fibers
6-pack SC = up to 24 Fibers
6-pack MT-RJ/LC = up to 24 Fibers
12-pack MT-RJ/LC = up to 48 Fibers

2RU
Holds up to 6 Mounting Plates
6-pack ST = up to 36 Fibers
8-pack ST = up to 48 Fibers
6-pack FC = up to 36 Fibers
8-pack FC = up to 48 Fibers
3-pack Duplex SC = up to 36 Fibers
6-pack SC = up to 72 Fibers
6-pack MT-RJ/LC = up to 72 Fibers
12-pack MT-RJ/LC = up to 144 Fibers

3RU
Holds up to 12 Mounting Plates
6-pack ST = up to 72 Fibers
8-pack ST = up to 96 Fibers
6-pack FC = up to 72 Fibers
8-pack FC = up to 96 Fibers
3-pack Duplex SC = up to 72 Fibers
6-pack SC = up to 144 Fibers
6-pack MT-RJ/LC = up to 144 Fibers
12-pack MT-RJ/LC = up to 288 Fibers

6RU
Holds up to 24 Mounting Plates
6-pack ST = up to 144 Fibers
8-pack ST = up to 192 Fibers
6-pack FC = up to 144 Fibers
8-pack FC = up to 192 Fibers
3-pack Duplex SC = up to 144 Fibers
6-pack SC = up to 288 Fibers
6-pack MT-RJ/LC = up to 288 Fibers
12-pack MT-RJ/LC = up to 576 Fibers

Wall Mount Density

Small
Holds up to 2 Mounting Plates
6-pack ST = up to 12 Fibers
8-pack ST = up to 16 Fibers
6-pack FC = up to 12 Fibers
8-pack FC = up to 16 Fibers
3-pack Duplex SC = up to 12 Fibers
6-pack SC = up to 24 Fibers
6-pack MT-RJ/LC = up to 24 Fibers
12-pack MT-RJ/LC = up to 48 Fibers

Medium
Holds up to 4 Mounting Plates
6-pack ST = up to 24 Fibers
8-pack ST = up to 32 Fibers
6-pack FC = up to 24 Fibers
8-pack FC = up to 32 Fibers
3-pack Duplex SC = up to 24 Fibers
6-pack SC = up to 48 Fibers
6-pack MT-RJ/LC = up to 48 Fibers
12-pack MT-RJ/LC = up to 96 Fibers

Large
Holds up to 12 Mounting Plates
6-pack ST = up to 72 Fibers
8-pack ST = up to 96 Fibers
6-pack FC = up to 72 Fibers
8-pack FC = up to 96 Fibers
3-pack Duplex SC = up to 72 Fibers
6-pack SC = up to 144 Fibers
6-pack MT-RJ/LC = up to 144 Fibers
12-pack MT-RJ/LC = up to 288 Fibers

STANDARDS DOCUMENT INFORMATION SOURCES

American National Standards Institute (ANSI)
Sales Department
American National Standards Institute
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New York, NY 10036
(212) 642-4980
(212) 302-1286 (FAX)
www.ansi.org

American Society of Test Measurement (ASTM)
1916 Race Street
Philadelphia, PA 19103-1187
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(215) 977-9679 (FAX)

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www.bicsi.org

Canadian Standards Association
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Canada L4W 5N6
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www.csa.ca

Department of Communications (Canada)
See Canadian Standards Association

Exchange Carriers Standards Association
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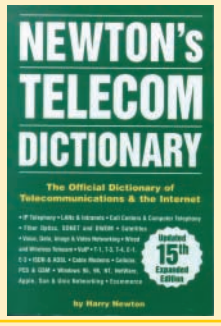
GLOSSARY



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A

ATM Asynchronous Transfer Mode. A very high-speed transmission technology, ATM features high bandwidth, low delay, packet-like switching and multiplexing. Utilizes fixed-size cells with header and information fields.

Amplitude The distance between high or low points of a waveform or signal. Also referred to as wave "height".

Attenuation Loss of volume during transmission, or decrease in the power of a signal, light beam, or light wave. Measured in decibels. Opposite of gain.

AWG American Wire Gauge. Standard measuring gauge for non-ferrous conductors (i.e., non-iron and non-steel). Gauge measures the diameter of a conductor (thickness of cable).

B

Backbone Wiring The physical/electrical interconnections between telecommunications closets and equipment rooms. Cross-connect hardware and cabling in the Main and Intermediate Cross-Connects are considered part of the backbone wiring.

Bandwidth The difference between the highest and the lowest frequencies of a transmission channel (path for information transmission). Identifies the amount of data that can be sent through a given channel. Measured in Hertz (Hz); higher bandwidth numbers mean higher data capacity.

Bend Radius (Fiber) Radius of curvature that a fiber can bend without breaking. Also see Cable Bend Radius.

BICSI (Building Industry Consulting Service International) BICSI is a non-profit professional association, for the promotion of telecom industry standards.

Bit Error Rate (BER) In digital applications, the percentage of bits received in error to the total number of bits received. Usually expressed as a number to the power of 10. For example 10 to the fifth power means that one in every 100,000 bits transmitted will be wrong.

Buffer Coating Protective material coating applied to fibers. Stated in microns.

Bus A network topology in which nodes are connected to a single cable with terminations at each end.

C

Cable Assembly A fixed length of cable with connectors installed on both ends. Sometimes called a Patch Cord, or Patch Cable.

Cable Bend Radius The amount of bend that can occur before a cable may sustain damage or increased attenuation.

Category 3 CAT3, A Category of Performance for inside wire and cable systems. Commonly used for voice applications and data to 10Mbps. Defined by FCC Part 68, ANSI/EIA/TIA-568, TIA TSB-36 and TIA TSB-40.

Category 5 CAT5, A Category of Performance for inside wire and cable systems. Used in support of voice and data applications requiring a carrier frequency of up to 100 MHz. Now the most common cabling being installed for LAN connectivity. Defined by FCC Part 68, EIA/TIA-568, TIA TSB-36 and TIA TSB-40.

Category 5e (Enhanced) CAT5e, A Category of Performance for inside wire and cable. Used in support of signalling rates of up to 100MHz over distances of up to 100 meters. Calls for tighter twists, electrical balancing between pairs and fewer cable anomalies. CAT5e is intended to support 100Base-T, ATM and Gigabit Ethernet.

Category 6 CAT6, A developing cable standard for Unshielded Twisted Pair (UTP) intended to support signaling rates up to 200 MHz. Applications will include 100Base-T, ATM and Gigabit Ethernet and wiring under development.

Category of Performance Cabling and cabling component standard adopted by the telecommunications industry.

Cladding The transparent material, usually glass, that surrounds the core of an optical fiber, causing any dispersed light to be reflected back into the central core, thereby helping to maintain signal strength over long distances.

Cleaving To cut the end of fiber at 90 degrees with as few rough edges as possible before a fiber termination.

CO Central Office. Telephone company facility where subscribers' lines are joined to switching equipment for connection to each other, locally and long distance. Sometimes the same as the overseas term "public exchange".

Coaxial Cable A cable composed of an insulated central conducting wire wrapped in another cylindrical conductor (the shield). The whole thing is usually wrapped in another insulating layer and an outer protective layer. A coaxial cable has great capacity to carry vast quantities of information. It is typically used in high-speed data and CATV applications.

Compliance A wiring device that meets all characteristics of a standard is said to be in compliance with that standard.

Conductor Any substance, usually a wire or cable, that can carry an electrical current.

Connecting Block Also called a terminal block, punch-down block, quick-connect block, or crossconnect block. A plastic block containing metal wiring terminals to establish connections from one group of wires to another. Usually each wire can be connected to several other wires in a bus or common arrangement. There are several types of connecting blocks: 66 clip, BIX, Krone, 110, etc. A connecting block has insulation displacement connections (IDCs), which means you don't have to remove insulation from around the wire conductor before you "punch it down" (terminate it).

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Connector A device that connects wires or fibers in cable to equipment or other wires or fibers. Wire and optical connectors most often join transmission media to equipment or cross connects. A connector at the end of a telephone cable or wire is used to join that cable to another cable with a mating connector or to some other telecommunications device. Note: Connectors are sometimes referred to as jacks, but though all jacks are connectors, not all connectors are jacks.

Crossconnect Distribution system equipment used to terminate and administer communication circuits. In a wire crossconnect, jumper wires or patch cords are used to make circuit connections. In an optical crossconnect, fiber patch cords are used. The crossconnect is located in an equipment room, riser closet, or satellite closet.

Crosstalk See Near-End Crosstalk.

D

Daisy Chain In telecommunications, a wiring method where each telephone jack in a building is wired in series from the previous jack. Daisy chain is NOT the preferred wiring method, since a break in the wiring would disable all jacks "downstream" from the break. See also Home Run.

dB (Decibel) A dB is a unit of measure of signal strength, usually the relation between a transmitted signal and a standard signal source. Every 3dB equals 50% of signal strength, so therefore a 6dB loss is a loss of 75% of total signal strength.

Demarcation Point The point of interconnection between telephone company terminal equipment and your building wiring. The protective apparatus or wiring at a subscriber's premises.

Device As distinguished from equipment. In telecommunications, a "device" is the physical interconnection outlet. Equipment (a computer, phone, fax machine, etc.) then plugs into the device. See also Equipment and Plug.

Drop Wire Outside wire pair(s) from the telco plant (cable), to a house or building for connection to a protector.

DTMF Acronym for Dual Tone, Multi-Frequency. See Tone Dial.

E

EIA Electronic Industries Alliance. A trade organization of manufacturers which set standards for use of its member companies. Many associations fall under the umbrella of EIA, though it has recently been absorbed by the TIA, or Telecommunications Industry Association. See www.eia.org or www.tiaonline.org.

Electromagnetic Interference (EMI) The interference in signal transmission or reception caused by the radiation of electrical and magnetic fields.

Equipment As distinguished from Device. Telecom equipment (computers, phones, faxes, etc.) plugs into telecommunications outlets or devices. See also Device.

Epoxy Connector A type of fiber optic connector that requires a chemical bond, or epoxy.

Ethernet A type of local area network used for connecting computers, printers, workstations, terminals, etc. within the same building. Ethernet is a physical link and data link protocol that operates over twisted pair wire and over coaxial cable at speeds up to 10Mbps. Ethernet LANs are being promoted by DEC, Intel and Xerox. Compare with Token Ring.

F

Ferrule A component of a fiber optic connection that holds a fiber in place and aids in its alignment.

Fiber Optics A technology in which light is used to transport information from one point to another. More specifically, fiber optics are thin filaments of glass through which light beams are transmitted over long distances carrying enormous amounts of data.

H

Headroom (also called Overhead or Margin) The number of decibels by which a system exceeds the minimum defined requirements. The benefit of headroom is that it reduces the bit error rate (BER), and provides a performance 'safety net' to help ensure that current and future high speed applications will run at peak accuracy, efficiency and throughput.

Home Run Telephone system wiring where the individual cables run from each telephone directly back to the central switching equipment. Home run cabling can be thought of as "star" cabling. Every cable radiates out from the central equipment. All PBXs and virtually all key systems work on home run cabling. Some local area networks work on home run wiring. See also Star Wiring, Daisy Chain.

Hub The point on a network where circuits are connected. Also, a switching node. In local area networks, a hub is the core of a star as in ARCNET, StarLAN, Ethernet, and Token Ring. Hub hardware can be either active or passive. Wiring hubs are useful for their centralized management capabilities and for their ability to isolate nodes from disruption.

Hybrid Connector A connector containing both optical fiber and electrical conductors.

I

Insertion Loss The difference in the amount of power received before and after something is inserted into the circuit. In optical fiber, insertion loss is the optical power loss due to all causes, usually expressed as decibel/kilometer.

Insulation Displacement Connection (IDC) A type of wire termination where wire is "punched down" into a metal holder which cuts into the insulation wire and makes contact with the conductor, causing the electrical connection to be made.

IDF Intermediate Distribution Frame. A metal rack designed to connect cables and located in an equipment room or closet. Consists of components that provide the connection between inter-building cabling and the intra-building cabling, i.e. between the Main Distribution Frame (MDF) and individual telephone wiring. There's usually a permanent, large cable running between the MDF and IDF. The changes in wiring are done at the IDF. This saves confusion in wiring.

IEEE 802.3 IEEE stands for the Institute of Electrical and Electronic Engineers, a publishing and standards-making body responsible for many standards used in LANs, including the 802 series. Ethernet and StarLan both follow the 802.3 standard. Typically they transmit at 10 megabits per second. This is the most common local area network specification.

Impedance The total opposition (i.e. resistance and reactance) a circuit offers to the flow of alternating current. It is measured in ohms, and the lower the ohmic value, the better the quality of the conductor.

Interconnect 1. A circuit administration point, other than a crossconnect or an information outlet, that provides capability for routing and rerouting circuits. It does not use patch cords or jumper wires, and typically is a jack-and-plug device used in smaller distribution arrangements or that connects circuits in large cables to those in smaller cables. 2. An Interconnect Company is one which sells, installs, and maintains telephone systems for end users, typically businesses.

ISDN Integrated Services Digital Network. According to AT&T, today's public switched phone network has many limitations; ISDN's vision is to overcome these deficiencies.

J

Jack A receptacle used in conjunction with a plug to make electrical contact between communication circuits. Jacks and their associated plugs are used in a variety for connecting hardware applications including cross connects, interconnects, information outlets, and equipment connections. Jacks are used to connect cords or lines to telephone systems. A jack is the female component of a plug/jack connector system, and may be standard, modified, or keyed.

Jacket Also Cable Jacket or Sheath. The outer covering applied over internal cable elements for protection.

L

LAN Local Area Network. A short distance network (typically within a building or campus) used to link together computers and peripheral devices (such as printers) under some form of standard control.

Loop 1. Typically a complete electrical circuit. 2. The loop is also the pair of wires that winds its way from the central office to the telephone set or system at the customer's office, home or factory (i.e., 'premises' in telephony terms).

M

Mbps Megabits Per Second. One million bits per second. (Different from MBps, or a million bytes per second.)

MDF Main Distribution Frame. A wiring arrangement which connects the telephone lines coming from outside on one side and the internal lines on the other. A main distribution frame may also carry protective devices as well as function as a central testing point.

MHz Megahertz. A unit of frequency denoting one million Hertz (i.e., 1,000,000 cycles per second).

Micron One thousandth of a millimeter, or one millionth of a meter. Can be used to specify the core diameter of fiber-optic network cable.

MMJ Modified Modular Jack. A six-wire modular jack with the locking tab shifted off to the right side. Used in the DEC wiring system.

Modular Equipment is said to be modular when it is made of "plug-in units" which can be added together to make the system larger, improve the capabilities, or expand its size.

MT-RJ A small form factor fiber optic connector that is defined by its high density footprint and RJ47 locking mechanism.

Multimode An optical fiber designed to allow light to carry multiple carrier signals, distinguished by frequency or phase, at the same time. (Contrasts with singlemode.)

N

Nanometer One billionth of a meter, abbreviated nm. The nanometer is a convenient unit for describing the wavelength of light.

Near-End Crosstalk (NEXT) Electrical noise coupled from one pair of wires to another within a multi-pair cable.

Network A network ties things together. Computer networks connect all types of computers and computer- related things—terminals, printers, modems, door entry sensors, temperature monitors, etc. The networks we're most familiar with are long distance ones, like telephones and trains. Local Area Networks (LANs) connect computer equipment within a building or campus.

O

Open (Fault) Means that the circuit is not complete or the cable/fiber is broken.

Outlet A telecommunications outlet is a single-piece cable termination assembly (typically on the floor or in the wall), containing one or more modular telecom jacks. Such jacks might be RJs, coaxial terminators, fiber optic couplers, etc. See also Device and Equipment.

P

Part 68 Requirements Specifications established by the FCC as the minimum acceptable protection communications equipment must provide the telephone network.

Patching A means of connecting circuits via cords and connectors that can be easily disconnected and reconnected at another point. May be accomplished by using modular cords connected between jack fields or by patch cord assemblies that plug onto connecting blocks.

PBX Private Branch Exchange. A small, privately-owned version of the phone company's larger telephone central switching office.

Performance Compare with Compliance. A device can exhibit performance characteristics without being compliant to an industry standard.

Plug A male component of a plug/jack connector system. In premises wiring, a plug provides the means for a user to connect communications equipment to the communications outlet.

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Polarity Which side of an electrical circuit is the positive? Which is the negative? Polarity is the term describing which is which.

POTS Plain Old Telephone Service. The basic service supplying standard single line telephones, telephone lines and access to the public switched network. Just receive and place calls. No added features like Call Waiting or Call Forwarding.

Power Sum A test method for four pair cable whereby the mathematical sum of pair-to-pair crosstalk from three pairs to one pair is measured.

Premises Telephony term for the space occupied by a customer or authorized/joint user in a building(s) on continuous or contiguous property (except railroad rights of way, etc.) not separated by a public road or highway.

Premises Wiring System The entire wiring system on the user's premises, especially the supporting wiring that connects the communications outlets to the network interface jack.

R

RBOC Regional Bell Operating Company. Seven RBOCs exist, each of which owns two or more Bell Operating Companies (BOCs). The RBOCs were carved out of the old AT&T/Bell System during the divestiture of the Bell operating companies from AT&T in 1984.

RCDD The RCDD (Registered Communications Distribution Designer) title is a professional rating granted by BICSI (the Building Industry Consulting Service International). RCDDs have demonstrated a superior level of knowledge of the telecommunications wiring industry and associated disciplines.

Return Loss A measure of the similarity of the impedance of a transmission line and the impedance at its terminations. It is a ratio, expressed in decibels, of the power of the outgoing signal to the power of the signal reflected back.

Ring As in Tip and Ring. One of the two wires needed to set up a telephone connection. See Tip.

RJ Registered Jack. RJs are telephone and data jacks/applications registered with the FCC. Numbers, like RJ-11, RJ-45, etc. are widely misused in the telecommunications industry. A much more precise way to identify a jack is to specify the number of positions (width of opening) and number of conductors. Example: "8-position, 8-conductor jack" or "6-position, 4-conductor jack".

S

Series Wiring See Daisy Chain.

Service Loop When a device is terminated to the wire in the communications outlet, a fair amount of "slack" should be left on the wire and wound in the box to accommodate future trimming when devices are changed out.

Singlemode A fiber that allows only a single mode of light to propagate. This eliminates the main limitation to bandwidth, modal dispersion.

Splice The joining of two or more cables together by connecting the conductors pair-to-pair.

Standards Agreed principles of protocol. Standards are set by committees working under various trade and international organizations.

Star Wiring/Star Topology See Home Run.

T

T1 A standard for digital transmission in North America. A digital transmission link with a capacity of 1.544 Mbps (1,544,000 bits per second.) T1 lines are used for connecting networks across remote distances. Bridges and routers are used to connect LANs over T1 networks.

Talk Battery The DC voltage supplied by the central office to the subscriber's loop, which allows voice conversation.

TCP/IP A set of protocols developed by the department of the defense to link dissimilar computers across many kinds of networks.

Telco An Americanism for TELephone COmpany.

Ten Base-T See 10Base-T at end of Glossary.

Terminate To connect a wire conductor to something, typically a piece of equipment.

TIA Telecommunications Industry Association. A trade organization of manufacturers which sets standards for use of its member companies. Formerly fell under the umbrella of EIA, (Electronic Industries Alliance). See www.tiaonline.org.

Tip 1. The first wire in a pair of wires. (The second wire is called the "Ring" wire.) 2. A conductor in a telephone cable pair which is usually connected to positive side of a battery at the telco. It is the telephone industry's equivalent of Ground in a normal electrical circuit. See Ring.

Tone Dial A push-button telephone dial that makes a different sound (in fact, a combination of two tones) for each number pushed. The technically correct name for tone dial is Dual Tone Multi Frequency, or DTMF.

Token Ring A ring topology for a local area network (LAN) in which a supervisory frame, or token, must be received by an attached terminal or workstation before that terminal or workstation can start transmitting. The workstation with the token then transmits and uses the entire bandwidth of whatever communications media the token ring network is using.

A token ring can be wired as a circle or a star, with the workstations wired to a central wiring center, or to multiple wiring centers. The most common wiring scheme is called a star-wired ring. Whatever the wiring, a token ring LAN always works logically as a circle, with the token passing around the circle from one workstation to another.

The advantage of token ring LANs is that media faults (broken cable) can be fixed easily, since it's easy to isolate the faults. Token rings are typically installed in centralized closets, with loops snaking to served workstations.

Topology As in network topology. The geometric physical or electrical configuration describing a local communication network; the shape or arrangement of a system. The most common topologies are the bus, ring and star.

TP-PMD Twisted Pair - Physical Media Dependent. Technology under review by the ANSI X3T9.5 working group that allows 100Mbps transmission over twisted-pair cable.

Twisted Pair Two insulated copper wires twisted around each other to reduce induction (thus interference) from one wire to the other. The twists, or lays, are varied in length to reduce the potential for signal interference between pairs. Several sets of twisted pair wires may be enclosed in a single cable. In cables greater than 25 pairs, the twisted pairs are grouped and bound together.

U

UL Underwriters Laboratories, a privately owned company that tests to make sure that products meet safety standards. UL also administers a program for the certification of Category-Rated Cable.

USOC Universal Service Order Code. An old Bell system term identifying a particular service or equipment offered under tariff.

UTP Unshielded Twisted Pair. See Twisted Pair.

W

Workstation The working area in a building required by one telecommunications user. Industry standards call for one voice drop and one data drop for each workstation. The voice drop is one 4-pair unshielded twisted pair (UTP). The data drop may be 100Ω 4-pair UTP, 150Ω 2-pair shielded twisted pair (STP), or optical fiber.

10BASE-T This is the IEEE standard that defines the requirement for sending information at 10Mbps on unshielded twisted-pair cabling, and defines various aspects of running Ethernet on this cabling.

100BASE-T This is the IEEE standard that defines the requirement for sending information at 100Mbps on unshielded twisted-pair cabling, and defines various aspects of running baseband Ethernet on this cabling.

1000BASE-T This is the proposed IEEE standard that defines the requirement for sending information at 1000Mbps on unshielded twisted-pair cabling, and defines various aspects of running baseband Ethernet on this cabling.

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