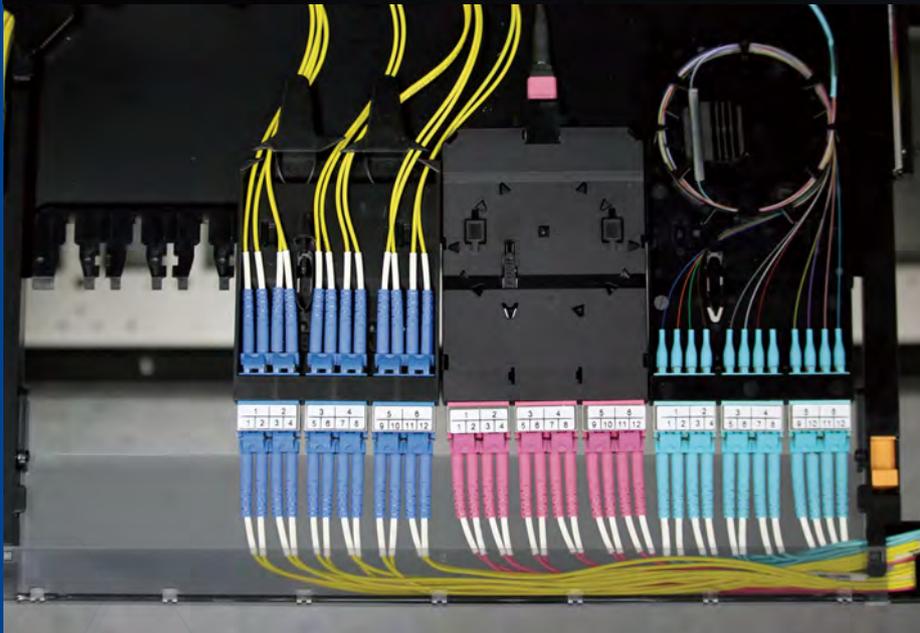




APAC Enterprise Cabling Solution Master Catalog



Our End-to-End Expertise
Your End-to-End Solution

DCX



Highest per-square-foot fiber density while
maximizing signal integrity and usability

Faster.
Easier.
Better.

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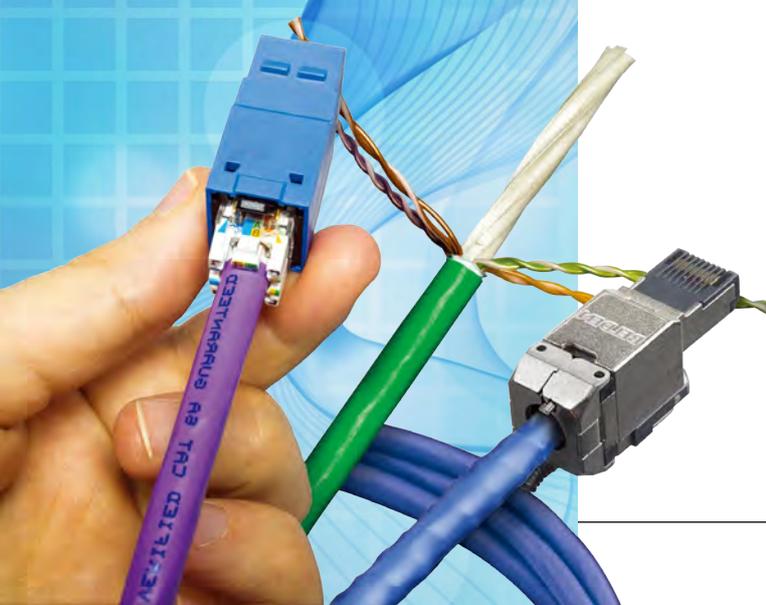
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Copper Solution

Belden has end-to-end copper cabling systems to address your current networking challenges while providing bandwidth and scalability for the needs of the future.

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Faster.
Easier.
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Belden Copper Systems Provide Reliable, End-to-End Networking Performance

Cabling is the core foundation of every network — its ability to provide high-performance, reliable transmission is essential for carrying out day-to-day business operations. From critical data center links that connect network switches and servers, to horizontal and backbone links that deliver voice, data and video for networking, communications, audio visual, security and building management applications, Belden has end-to-end copper cabling systems to address your current networking challenges while providing bandwidth and scalability for the needs of the future.



LEED documents are available for several products. See specific product pages for LEED document retrieval instructions.

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Three different level
of Belden Copper
Systems are offered
to meet customers's
Specific needs

Representing Networking Leadership at Every Turn

Belden Category 5E System

For networks requiring only basic performance, the Belden Category 5E System is the best performing Category 5E system available exceeds all requirements for Category 5E performance.

Ideal for budget-conscious and short-term investments, the Belden Category 5E System is robust enough to support a variety of basic business applications in standard environments, including basic PoE.

Belden Category 6 System

From transmitting large volumes of data throughout the LAN and data center, to today's advanced applications like Voice over IP (VoIP), video over IP, Power over Ethernet (PoE) Plus and IP-based security and building management systems, Belden Category 6 System supports a variety of environments and applications. With a wide range of components and accessories, enhanced crosstalk and impedance performance, combined with a compact size, makes end-to-end Belden Category 6 System the most cost-effective solution for high-traffic and high bit-rate applications throughout the LAN environment.

Belden Category 6A System

The Belden Category 6A System Category 6A System is an end-to-end copper system designed with dynamic enabling technologies to support the most demanding current and future high-end applications with performance beyond the ANSI/TIA Category 6A standard. The Belden Category 6A System Category 6A System is an ideal long-term investment that will outlast several equipment and application upgrades. Combined with a host of patch panels, assemblies, connectors and accessories, as well as a pre-terminated system, the Category 6A System is the ideal solution for any current and future data center or horizontal cabling system.

The following is a recap of each of the three Belden Copper Systems.

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Belden Unshielded Systems-Performance and Component Selection Matrix

Performance Standard	Category 6A	Category 6	Category 5E
Available Bandwidth	625 MHz	250 MHz	100 MHz
Cable Selection	Category 6A Series	Category 6 Series	Category 5E Series
Connectivity Selection	10GX REVConnect Wall-Mount System	GigaBIX Cross-Connect	BIX and 110 Cross-Connect
	Category 6A Patch Panels Category 6A Modular Jacks Category 6A Modular Cords Category 6A Modular Coupler	Category 6+ Patch Panels Category 6+ Modular Jacks Category 6+ Modular Cords Category 6+ Modular Coupler	Category 5E Patch Panels Category 5E Modular Jacks Category 5E Modular Cords
	REVConnect, KeyConnect Patch Panels MediaFlex, KeyConnect, Interface <i>(Configurable with appropriate modules)</i>		

Belden Shielded Systems – Performance and Component Selection Matrix

Performance Standard	Category 6A	Category 6	Category 5E
Available Bandwidth	625 MHz	250 MHz	100 MHz
Cable Selection	Category 6A Shielded Series	Category 6 Shielded Series	Category 5E Shielded Series
Connectivity Selection	Category 6A Shielded Modular Jacks Category 6A Shielded Modular Cords	Category 6 Shielded Modular Jacks Category 6 Shielded Modular Cords	Category 5E Shielded Modular Jacks Category 5E Shielded Modular Cords
	REVConnect, KeyConnect Shielded Patch Panels MediaFlex Faceplates, KeyConnect Faceplates and Adapters <i>(Configurable with appropriate modules)</i>		

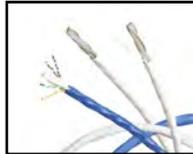
REVConnect Modules are compatible with KeyConnect footprints

Top-quality Flagship Innovations Provide the Ultimate Value

Backed by years of field-proven telecommunications experience, Belden Copper System components include several innovative technologies designed to ensure cost-effective, easy deployment and maximum performance and reliability, while meeting current and future needs for capacity and scalability. These products are designed with the same focus on quality and performance found in Belden's complete product line.

Belden Bonded-Pair Cables

Available for each Copper System, Belden Bonded-Pair Cables feature a patented design that bonds the individual conductors along their longitudinal axis for extremely uniform spacing that maintains pair geometry and consistent electrical performance. With higher pulling tensions and tighter bend radius, Belden Bonded-Pair Cables are better suited to withstand the rigors of real-world installations and accommodate high-density data center applications that experience a great deal of cable bending in and around patch panels. Because Belden Bonded-Pair Cables avoid gaps along the twisted pairs, they provide improved return loss and balance performance that makes them less susceptible to electromagnetic and radio frequency interference (EMI/RFI) in noisy environments. This innovative Belden technology is ideal for high frequency 10 Gigabit and broadband video applications, as well as any mission-critical situation where dropped signals are not an option.



Pre-Terminated Cabling Systems

Ideal for data centers where time, reliability and performance are critical, Belden Pre-Terminated Cabling Systems are easy to configure, easy to order and easy to install. With



an intuitive plug-and-play action, built-in reliability that virtually eliminates testing, and simple reusable components, Belden's Pre-Terminated Cabling Systems provide superior performance, save significant time and money and offer energy and waste savings. At the heart of these systems are two core components — pre-terminated cable assemblies and RJ45 modular couplers. The pre-terminated cable assemblies are a 6-cable bundle terminated with smaller footprint RJ45 plugs that provide easy pulling, routing, cable management and connection. Compatible with Belden's full line of KeyConnect modular patch panels, the RJ45 modular couplers are RJ45-to-RJ45 inline couplers designed to meet the performance requirements of a single plug-jack connection while offering the inherent simplicity of a true plug-and-play solution. The Belden Pre-Terminated Cabling Systems are available in unshielded and shielded Category 6A Pre-Terminated Cabling Systems for 10 Gigabit applications and Pre-terminated Cabling Solution for Category 6 performance.

There's a Belden Copper System that's right for you

Faster.
Easier.
Better.

REVConnect Modularity

Our REVConnect modules feature the same footprint as our existing KeyConnect line, allowing them to be used with our existing line of patch panels, faceplates, adapters and boxes.



REVConnect jacks are available in 10GX, CAT6+, and CAT5E, shielded and unshielded, to suit any network performance level.

Each modular component of the REVConnect and KeyConnect series fits together seamlessly to accommodate any application—from the data center to the workstation. Designed with superior



signal transmission performance, REVConnect and KeyConnect Modules can be easily inserted and removed from any keystone-style opening, providing design flexibility, reduced installation time and the ability to reconfigure as needs change for data centers and telecommunications rooms, modular KeyConnect Patch Panels can be preloaded or configured using any REVConnect or KeyConnect Modules for any level of density, including a 48-port/1U configuration. The modules can also be used with front-loading Belden MediaFlex Outlets for mixing and matching with Multimedia Modules. REVConnect and KeyConnect components come in a variety of colors and styles, including more than 19 colors of jacks, stainless steel faceplates, single gang and double gang configurations, and boxes equipped with protective shutters.

Start designing your own **Copper System** by selecting from the products featured on the following pages.

Best Design and Installation Partners

Well positioned as a leading single-source provider, Belden's global network of top-quality distribution and fully-trained installation partners provide comprehensive local and global support from design, delivery and installation to post installation support. Belden recruits and qualifies our authored Certified System Vendors (CSVs) network. Only the best design and installation partners as Belden invests heavily in evaluating, training and qualifying our partners so they have the knowledge and expertise necessary to ensure that the design and installation of each Belden system is optimized for the required standards, technology environment and lifespan of the network.

Best-in-Class Support and Warranties

All Belden Systems are backed by expert service and technical support and a commitment to delivering high-performance, reliable transmission solutions. Belden backs certified systems with two unique best-in-class warranties for complete peace of mind: a 10-Year Product Warranty. From the date of installation, the 25-Year Performance Warranty warrants the installed system will work as per the applicable standards requirements.

Contact Belden Today

For more information about the Belden Copper Systems, visit www.belden.com or send mail to
Australia.sales@belden.com
China.marketing@belden.com
India.sales@belden.com
sales.ROAP@belden.com

SECTION ONE

Category 6A System

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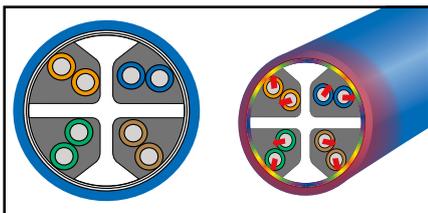
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The copper cabling system that does it all, the 10GX Category 6A System supports the most demanding current and future high-end applications with performance beyond the Category 6A standard. The system is comprised of 10GX System Cables (either 10GXS or 10GX), preloaded or modular 10GX Patch Panels, 10GX Modular Jacks and 10GX Modular Patch Cords. Together, these components form an end-to-end system that guarantees 625 MHz of usable bandwidth to support full implementation of 10GBASE-T applications and broadband video at 860 MHz. 10GX Systems are also designed with PoE in mind to supply up to 100W of power to various devices, such as sensors, POS systems and security cameras. A truly long-term investment, the 10GX System is designed to outlast several equipment and application upgrades.

The 10GX System is available in a 10GX Pre-Terminated System that features proven modular components with superior performance and intuitive plug-and-play installation for saving significant time and money. For cross-connect and interconnect system, the 10GX REVConnect Wall-Mount System is a high-performance, space-saving modular connection system. For harsher EMI environments, the 10GX Shielded System and the 10GX Shielded Pre-Terminated System provide a higher degree of noise immunity in a true end-to-end shielded system that maintains shielding integrity throughout the entire system.

10GX System is based on Belden's innovative enabling technologies.



EquiSpline™ Design and EquiBlock™ Barrier Effects

REVConnect technology, revolutionary connectivity that features insulation piercing contacts for a stable and reliable termination, superior electrical performance and high PoE support.

EquiSpline maintains structural integrity, which improves cable roundness and optimizes electrical performance.

EquiBlock Barrier Technology improves heat transfer and blocks noise coupling.

Bonded-Pair technology offers uniform spacing of conductors for exceptional structural stability and superior electrical performance.

Matrix IDC technology positions each IDC at a right angle to its adjacent IDC to cancel out alien crosstalk and provide stable, high performance in high-density environments.

X-Bar technology accurately positions each UTP pair prior to termination

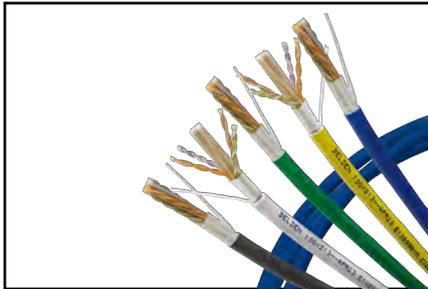
FlexPoint PCB technology positions the compensation circuitry in 10GX Modular Jacks directly at the plug's point of contact for better crosstalk performance.

Dual-Flex PCB technology in the RJ45 Coupler of 10GX Pre-Terminated Cabling Systems ensures an uninterrupted electrical path for enhanced reliability.

Faster.
Easier.
Better.

Category 6A, 10GXS Small-Diameter Cables

Nonbonded-Pair and Bonded-Pair



10GXS System Cable

The demand for 10G performance is growing. Emerging applications are poised to take advantage of higher 10G speeds and call for higher power delivered over the cable. With an effective diameter of just 0.265" for CMP and 0.273" for CMR, 10GXS Cables have proven performance that exceeds Category 6A requirements for 100 m channels. These cables are ideal for LANs and enterprise data centers that require high-density and high-bandwidth connections for current and emerging network applications.

Applications

- 10GBASE-T Ethernet
- 1000BASE-T, 2.5 Gb/s and 5 Gb/s Ethernet
- PoE PSE Type 1 (15W), PSE Type 2 (30W), PSE Type 3 (60W), PSE Type 4 (100W)
- Wi-Fi 6, Wi-Fi 5 (IEEE 802.11ac Wave 1 and Wave 2)
- Eliminates length de-rating up to 60°C for 10GBASE-T
- HDBaseT



Information about products contributing to LEED points is available at www.belden.com/leed



Shaded part numbers indicate LP-Certified by UL



ReelTuff Packaging is available for some part numbers. Get more information at www.belden.com/reeltuff

Category 6A, 10GXS Small-Diameter Cables

Description		Belden Part Number					
		Nonbonded-Pair			Bonded-Pair		
Color	Length	UnReel	Spool-in-Box	Spool	UnReel	Spool-in-Box	Spool
10GXS Small-Diameter Cables, UTP, 4-Pair, 23 AWG, Plenum-CMP							
Red	1000 ft (305 m)	10GXS13002U1000	10GXS13002A1000	10GXS13 0021000	10GXS33002U1000	10GXS33002A1000	10GXS33 0021000
Orange	1000 ft (305 m)	10GXS13003U1000	10GXS13003A1000	10GXS13 0031000	10GXS33003U1000	10GXS33003A1000	10GXS33 0031000
Yellow	1000 ft (305 m)	10GXS13004U1000	10GXS13004A1000	10GXS13 0041000	10GXS33004U1000	10GXS33004A1000	10GXS33 0041000
Green	1000 ft (305 m)	10GXS13005U1000	10GXS13005A1000	10GXS13 0051000	10GXS33005U1000	10GXS33005A1000	10GXS33 0051000
Blue	1000 ft (305 m)	10GXS13D15U1000	10GXS13D15A1000	10GXS13 D151000	10GXS33D15U1000	10GXS33D15A1000	10GXS33 D151000
Purple	1000 ft (305 m)	10GXS13007U1000	10GXS13007A1000	10GXS13 0071000	10GXS33007U1000	10GXS33007A1000	10GXS33 0071000
Gray	1000 ft (305 m)	10GXS13008U1000	10GXS13008A1000	10GXS13 0081000	10GXS33008U1000	10GXS33008A1000	10GXS33 0081000
White	1000 ft (305 m)	10GXS13009U1000	10GXS13009A1000	10GXS13 0091000	10GXS33009U1000	10GXS33009A1000	10GXS33 0091000
Black	1000 ft (305 m)	10GXS13010U1000	10GXS13010A1000	10GXS13 0101000	10GXS33010U1000	10GXS33010A1000	10GXS33 0101000
10GXS Small-Diameter Cables, UTP, 4-Pair, 23 AWG, Riser-CMR							
Red	1000 ft (305 m)	10GXS12002U1000	10GXS12002A1000	10GXS12 0021000	10GXS32002U1000	10GXS32002A1000	10GXS32 0021000
Orange	1000 ft (305 m)	10GXS12003U1000	10GXS12003A1000	10GXS12 0031000	10GXS32003U1000	10GXS32003A1000	10GXS32 0031000
Yellow	1000 ft (305 m)	10GXS12004U1000	10GXS12004A1000	10GXS12 0041000	10GXS32004U1000	10GXS32004A1000	10GXS32 0041000
Green	1000 ft (305 m)	10GXS12005U1000	10GXS12005A1000	10GXS12 0051000	10GXS32005U1000	10GXS32005A1000	10GXS32 0051000
Blue	1000 ft (305 m)	10GXS12006U1000	10GXS12006A1000	10GXS12 0061000	10GXS32006U1000	10GXS32006A1000	10GXS32 0061000
Purple	1000 ft (305 m)	10GXS12007U1000	10GXS12007A1000	10GXS12 0071000	10GXS32007U1000	10GXS32007A1000	10GXS32 0071000
Gray	1000 ft (305 m)	10GXS12008U1000	10GXS12008A1000	10GXS12 0081000	10GXS32008U1000	10GXS32008A1000	10GXS32 0081000
White	1000 ft (305 m)	10GXS12009U1000	10GXS12009A1000	10GXS12 0091000	10GXS32009U1000	10GXS32009A1000	10GXS32 0091000
Black	1000 ft (305 m)	10GXS12010U1000	10GXS12010A1000	10GXS12 0101000	10GXS32010U1000	10GXS32010A1000	10GXS32 0101000
10GXS Small-Diameter Cables, UTP, 4-Pair, 23 AWG, LSZH							
Blue	1000 ft (305 m)	*	*	10GXS24 0061000	*	*	*
Purple	1000 ft (305 m)	*	*	10GXS24 0071000	*	*	*
Gray	1000 ft (305 m)	*	*	10GXS24 0081000	*	*	*
White	1000 ft (305 m)	*	*	10GXS24 0091000	*	*	*

*Not available

Category 6A, 10GX Cables

Nonbonded-Pair and Bonded-Pair

10GX Cable delivers performance that goes beyond the ANSI/TIA-568.2-D Category 6A standard. When used as the horizontal cable within the Belden 10GX System, it provides 625 MHz of proven channel bandwidth and a data rate of 10G per second. This performance is made possible through the innovative RoundFlex™ design that reduces alien crosstalk by randomizing the distance between cables.

 Information about products contributing to LEED points is available at www.belden.com/leed

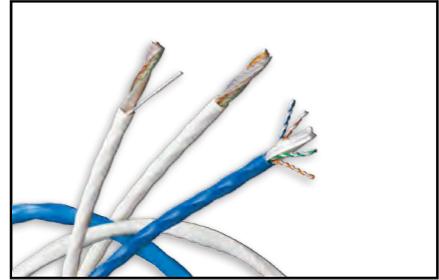
 ReelTuff Packaging is available for some part numbers. Get more information at www.belden.com/reeltuff

Applications

- 10GBASE-T Full Power Implementation (IEEE 802.3an)
- 10GBASE-T Low Power Implementation (Short Reach Mode) (IEEE 802.3an)
- 1000BASE-T Applications (IEEE 802.3ab)
- PoE PSE Type 1 (15W), PSE Type 2 (30W) PSE Type 3 (60W), PSE Type 4 (100W)



Shaded part numbers indicate LP-Certified by UL

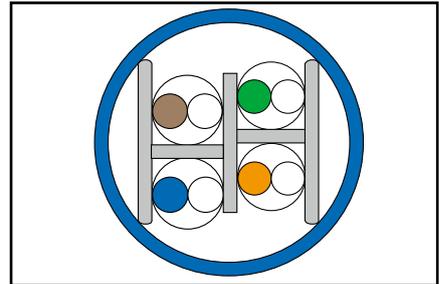


10GX System Cable

Category 6A, 10GX Cables

Description		Belden Part Number	
		Nonbonded-Pair	Bonded-Pair
Color	Length	Spool	Spool
10GX Cables, UTP, 4-Pair, 23 AWG, Plenum-CMP			
Red	1000 ft (305 m)	Available	Available
Orange	1000 ft (305 m)	Available	Available
Yellow	1000 ft (305 m)	10GX13 0041000	10GX33 0041000
Green	1000 ft (305 m)	10GX13 0051000	Available
Blue	1000 ft (305 m)	10GX13 D151000	10GX33 D151000
Purple	1000 ft (305 m)	10GX13 0071000	Available
Gray	1000 ft (305 m)	10GX13 0081000	10GX33 0081000
White	1000 ft (305 m)	10GX13 0091000	10GX33 0091000
Black	1000 ft (305 m)	10GX13 0101000	Available
Black	1500 ft (458 m)	10GX13 0101500	Available
Yellow	2500 ft (762 m)	10GX13 0042500	Available
Blue	2500 ft (762 m)	10GX13 D152500	Available
10GX Cables, UTP, 4-Pair, 23 AWG, Riser-CMR			
Red	1000 ft (305 m)	10GX12 0021000	Available
Orange	1000 ft (305 m)	10GX12 0031000	Available
Yellow	1000 ft (305 m)	10GX12 0041000	10GX32 0041000
Green	1000 ft (305 m)	10GX12 0051000	Available
Blue	1000 ft (305 m)	10GX12 0061000	10GX32 0061000
Purple	1000 ft (305 m)	10GX12 0071000	Available
Gray	1000 ft (305 m)	10GX12 0081000	10GX32 0081000
White	1000 ft (305 m)	10GX12 0091000	10GX32 0091000
Black	1000 ft (305 m)	10GX12 0101000	Available
Yellow	1500 ft (458 m)	10GX12 0041500	Available
White	1500 ft (458 m)	10GX12 0091500	Available
Black	1500 ft (458 m)	10GX12 0101500	Available
Blue	2500 ft (762 m)	10GX12 0062500	Available
10GX Cables, UTP, 4-Pair, 23 AWG, LSZH			
Blue	1000 ft (305 m)	10GX24 0061000	10GX44 0061000
Purple	1000 ft (305 m)	10GX24 0071000	10GX44 0071000
White	1000 ft (305 m)	10GX24 0091000	10GX44 0091000

Spool-in-Box is available upon request.

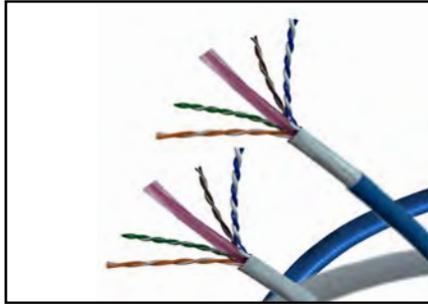


Innovative RoundFlex Design™

Faster.
Easier.
Better.

Category 6A, 10GA Cables

Nonbonded-Pair



10GA System Cable

10GA Cable delivers performance that goes beyond the ANSI/TIA-568.2-D Category 6A standard. Design features such as smaller size and greater flexibility make installation easier. When used as the horizontal cable within the Belden CAT 6A System, it provides data rate of 10G per second.

Applications

- 10GBASE-T Full Power Implementation (IEEE 802.3an)
- 10GBASE-T Low Power Implementation (Short Reach Mode) (IEEE 802.3an)
- 1000BASE-T Applications (IEEE 802.3ab)
- PoE PSE Type 1 (15W), PSE Type 2 (30W), PSE Type 3 (60W), PSE Type 4 (100W)

Category 6A, 10GA Cables

Description		Belden Part Number
		Nonbonded-Pair
Color	Length	Spool
10GA Cables, UTP, 4-Pair, 23 AWG, LSZH, IEC 60332-1		
Blue	1000 ft (305 m)	10GA24 006305M
Black	1000 ft (305 m)	10GA24 010305M
Gray	1000 ft (305 m)	10GA24 008305M
10GA Cables, UTP, 4-Pair, 23 AWG, LSZH, IEC 60332-3-22		
Blue	1000 ft (305 m)	10GA22 006305M
Black	1000 ft (305 m)	10GA22 010305M
Gray	1000 ft (305 m)	10GA22 008305M

Category 6A, Patch Panels

Preloaded and Modular

The Category 6A Patch Panel is a fully loaded patch panel designed to be used within the Category 6A System. The Category 6A Patch Panel features the revolutionary 10GX Connector, specifically designed to meet the difficult challenges of 10 Gb/s transmission. Category 6A Patch Panels are available in high-density options such as 24 ports in 1U or 48 ports in 2U, but the phenomenal ANEXT performance of the 10GX Connector has allowed Belden to also support an ultra high-density option offering the Category 6A Ultra High-Density Patch Panel supporting 48 ports in 1U. The unmatched Beyond 10G™ performance exceeds all parameters specified in the Category 6A standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee transmission performance up to 625 MHz.

KeyConnect Patch Panels are robust all-metal modular patch panels that provide a flexible, versatile and high-density termination solution for Data Center and Telecommunications Room

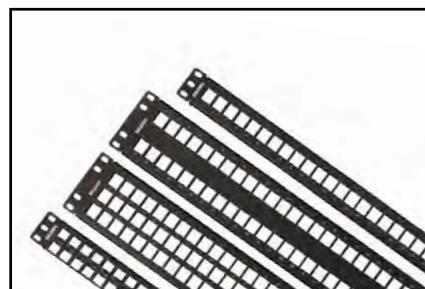
installations. The modular KeyConnect Patch Panels are available in 24-port/1U, 48-port/2U and 48-port/1U configurations.

The KeyConnect Patch Panel series also includes the unique AngleFlex Patch Panel available in 24-port/1U and 48-port/2U configurations. Patent-pending removable angled inserts provide intuitive left, right or bidirectional patch cord routing and more efficient switch connection. Angled inserts eliminate the need for horizontal cable management, for a 27% space savings per rack.

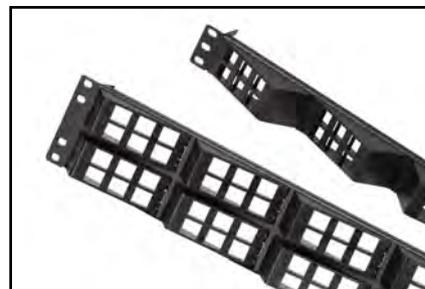
The KeyConnect and AngleFlex panels can be configured using Category 6A KeyConnect Modular Jacks or Multimedia Modules.



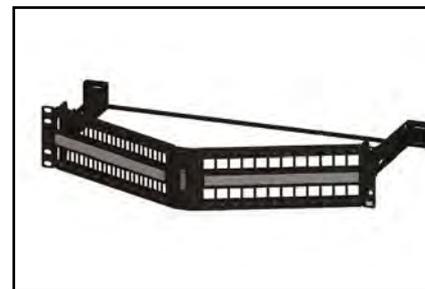
Category 6A Patch Panel (Preloaded)



Category 6A Patch Panel (Empty)



KeyConnect AngleFlex Patch Panel (Empty)



KeyConnect Angled Patch Panel, 48-port, 2U (Empty)



KeyConnect Universal Patch Panel with Shutter (Empty)

Category 6A Patch Panels

Description	Belden Part Number
Category 6A KeyConnect Patch Panels (Preloaded)	
Category 6A KeyConnect Patch Panel, 24-port, 1U, Titanium (Preloaded)	AX103254
Category 6A KeyConnect Patch Panel, 48-port, 2U, Titanium (Preloaded)	AX103256
Category 6A Ultra High-Density Patch Panel (Preloaded)	
Category 6A Ultra High-Density Patch Panel, 1U, 48-port, Titanium (Preloaded)	AX103264
Category 6A KeyConnect Angled Patch Panel (Preloaded)	
Category 6A KeyConnect Angled Patch Panel, 24-port, 1U, Black (Preloaded)	AX105363
Category 6A KeyConnect Angled Patch Panel, 48-port, 2U, Black (Preloaded)	AX105364
Category 6A KeyConnect Angled Patch Panel, 48-port, 1U, Black (Preloaded)	AX105365

KeyConnect Modular Patch Panels

Description	Belden Part Number
KeyConnect Modular Patch Panels (Empty)	
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Patch Panel, 24-port, 1U, Black (Empty)	AX106504-AP back support bar AX105931 must be used
KeyConnect Universal Patch Panel, 48-port, 2U, Black (Empty)	AX106505-AP back support bar AX105931 must be used
KeyConnect Modular Patch Panel, 48-port, 1U, Black (Empty)	AX103121
Back support bar	AX105931
KeyConnect AngleFlex Modular Patch Panels (Empty)	
KeyConnect AngleFlex Patch Panel, 24-port, 1U, Black (Empty)	AP103248 back support bar AX105931 must be used
KeyConnect AngleFlex Patch Panel, 48-port, 2U, Black (Empty)	AP103249 back support bar AX105931 must be used
KeyConnect Angled Modular Patch Panels (Empty)	
KeyConnect Angled Patch Panel, 24-port, 1U, Black (Empty)	AX104599
KeyConnect Angled Patch Panel, 48-port, 2U, Black (Empty)	AX104601
KeyConnect Angled Patch Panel, 48-port, 1U, Black (Empty)	AX104600

Faster.
Easier.
Better.

Category 6A, 10GX Connectors, Tools and Accessories

REVConnect, KeyConnect



REVConnect Jacks Available in 19 Colors



AX102281, 10GX KeyConnect Modular Jack



RVAFPUBK-S1, 10GX REVConnect Field-Mount UTP Plug



RVAFFPUBK18-S1, 10GX REVConnect FlexPlug

10GX Connectors are available in two termination styles: Belden's new REVConnect System and standard punchdown in KeyConnect. REVConnect and KeyConnect have a keystone footprint and are designed to be used with any KeyConnect Patch Panels and with KeyConnect or MediaFlex Workstation Outlets.

Benefits

- REVConnect: Safe connectivity for air-handling spaces
- REVConnect: Offers great versatility and labor savings
- Easy termination and network administration

Features

- REVConnect: Plenum rated - meets UL 2043 requirements
- REVConnect: Requires no pair separation; the best connector for Bonded-Pair and Nonbonded-Pair cable
- REVConnect: Terminates four pairs simultaneously with REVConnect Universal Termination Tool
- KeyConnect offer 10GX enabling technologies: Matrix IDC, X-Bar and FlexPoint PCB
- Meets and exceeds Category 6A component performance with guaranteed usable bandwidth up to 625 MHz

Category 6A, 10GX Modular Jacks

Description	Belden Part Number		
	REVConnect		Punchdown
Color	Single Pack	Bulk Pack (24 Connectors)	KeyConnect
Gray	RVAMJKUGY-S1	RVAMJKUGY-B24	AX102280
Almond	RVAMJKUAL-S1	RVAMJKUAL-B24	AX102281
Electric White	RVAMJKUEW-S1	RVAMJKUEW-B24	AX102282
Black	RVAMJKUBK-S1	RVAMJKUBK-B24	AX102283
Ivory	RVAMJKUIV-S1	RVAMJKUIV-B24	AX103073
Brown	RVAMJKUBR-S1	RVAMJKUBR-B24	AX104158
Red	RVAMJKURD-S1	RVAMJKURD-B24	AX104153
Orange	RVAMJKUOR-S1	RVAMJKUOR-B24	AX104152
Yellow	RVAMJKUYL-S1	RVAMJKUYL-B24	AX104154
Green	RVAMJKUGN-S1	RVAMJKUGN-B24	AX104155
Blue	RVAMJKUBL-S1	RVAMJKUBL-B24	AX104156
Purple	RVAMJKUPR-S1	RVAMJKUPR-B24	AX104157
TIA Brown	RVAMJKUTN-S1	RVAMJKUTN-B24	AX102290
TIA Red	RVAMJKUTR-S1	RVAMJKUTR-B24	AX102285
TIA Orange	RVAMJKUTO-S1	RVAMJKUTO-B24	AX102284
TIA Yellow	RVAMJKUTY-S1	RVAMJKUTY-B24	AX102286
TIA Green	RVAMJKUTG-S1	RVAMJKUTG-B24	AX102287
TIA Blue	RVAMJKUTB-S1	RVAMJKUTB-B24	AX102288
TIA Purple	RVAMJKUTP-S1	RVAMJKUTP-B24	AX102289

10GX REVConnect Plugs, Tools and Accessories

Description	Single Pack	Bulk Pack
10GX REVConnect Plugs		
10GX UTP REVConnect Plug, Black	RVAFPUBK-S1	RVAFPUBK-B24
10GX STP REVConnect Plug	RVAFPSME-S1	RVAFPSME-B24
10GX UTP REVConnect FlexPlug, Black	RVAFFPUBK18-S1	—
10GX UTP REVConnect FlexPlug, Electric White	RVAFFPUEW18-S1	—
REVConnect Termination Tool and Accessories		
Universal Termination Tool	RVUTT01	—
Tool Blade Replacement Set	RVUTB01	—
Tool Belt Clip	RVUTC01	—
Replacement Cable Prep Tool	RVUCT01	—
REVConnect Spare Cores		
Replacement Caps and Cable Managers, 50 in pack	—	RVUCOEW-B50

KeyConnect Replacement X-Bars

Description	Belden Part Number
Replacement X-Bars, bag of 24 pieces	PX103838R

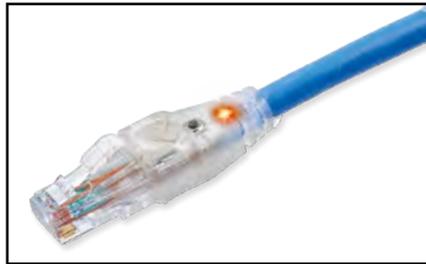
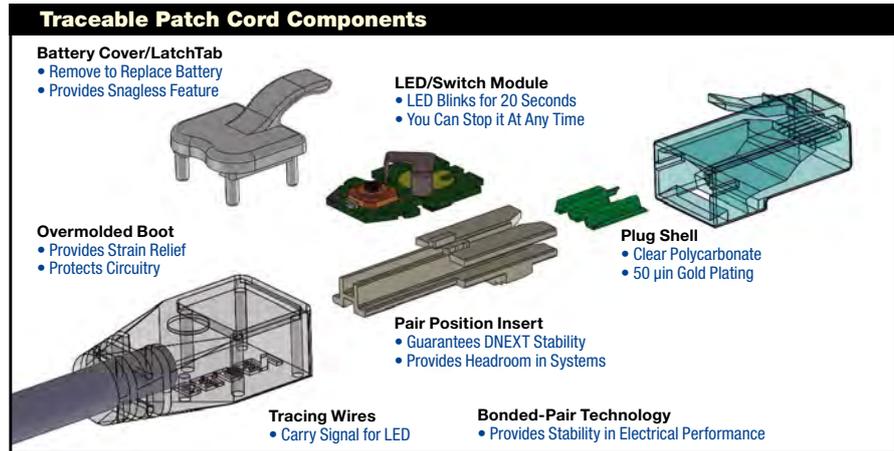
Category 6A, 10GX Traceable Patch Cords

Bonded-Pair

10GX Traceable Patch Cords feature a highly efficient, bright LED with a battery life expectancy of seven years, or 1,000 activations (battery is also replaceable). When activated, the LED blinks for 20 seconds and can be stopped at any time with a second press of the button. The LED and its tracing wires are integrated right into the patch cord, eliminating the need for a separate power source.

Features

- Bonded-Pair technology for extra robustness, performance and reliability
- Bar code tagging on each end of the cord is compatible with DCIM systems
- Low-profile plug boot supports ultra-high-density 48-port 1U patch panels
- 100% factory tested and certified



CAT 6A UTP Traceable Patch Cord

Category 6A, 10GX Traceable Patch Cords

Description	Belden Part Nuber					
	Bonded-Pair					
Length	Yellow	Green	Blue	Gray	White	Black
10GX Traceable Patch Cords, UTP, 4-Pair, 24 AWG Solid, T568A/B-T568A/B, Riser-CMR						
2 ft (0.6 m)	CAT1104002	CAT1105002	CAT1106002	CAT1108002	CAT1109002	CAT1100002
4 ft (1.2 m)	CAT1104004	CAT1105004	CAT1106004	CAT1108004	CAT1109004	CAT1100004
7 ft (2.1 m)	CAT1104007	CAT1105007	CAT1106007	CAT1108007	CAT1109007	CAT1100007
10 ft (3.0 m)	CAT1104010	CAT1105010	CAT1106010	CAT1108010	CAT1109010	CAT1100010
15 ft (4.6 m)	CAT1104015	CAT1105015	CAT1106015	CAT1108015	CAT1109015	CAT1100015
25 ft (7.6 m)	CAT1104025	CAT1105025	CAT1106025	CAT1108025	CAT1109025	CAT1100025
XXX ft	CAT1104XXX	CAT1105XXX	CAT1106XXX	CAT1108XXX	CAT1109XXX	CAT1100XXX

Use XXX to specify length in feet - 001-100 ft in increments of 1 ft, 105-295 ft in increments of 5 ft. For other configurations please refer to the configurator below.

Category 6A, Tailored 10GX Traceable Patch Cords

CA	T1	1	06	007
Performance	Cable	Termination	Colors	Length
CA Category 6A (10GX)	T1 Traceable, UTP, Bonded-Pair, 24 AWG Solid, CMR	1 T568A/B-T568A/B 4 Crossover T568A-T568B 5 Crossover IEEE 6 Rollover	01 Brown 02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Gray 09 White 00 Black	12 TIA Red 13 TIA Orange 14 TIA Yellow 15 TIA Green 16 TIA Blue 17 TIA Purple
				001 1 ft (0.3 m) 002 2 ft (0.6 m) 003 3 ft (0.9 m) 004 4 ft (1.2 m) 005 5 ft (1.5 m) XXX XXX ft

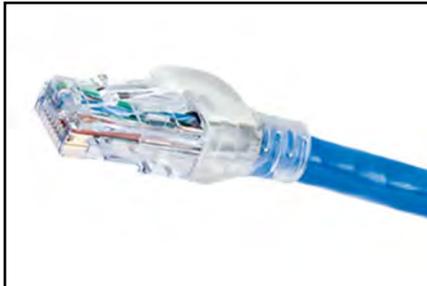
Notes:

Use XXX to specify length in feet 001-100 ft in increments of 1 ft, 105-295 ft in increments of 5 ft.

Example:

CAT1106007 - 10GX Traceable Patch Cord, UTP, Bonded-Pair, 24 AWG Solid, CMR, T568A/B-T568A/B, Blue, 7 ft (2.1 m)

Faster.
Easier.
Better.



CAT 6A UTP Assembled Modular Cords

Category 6A, UTP Modular Cords

Nonbonded-Pair Cords & Pigtails

Belden's 6A modular copper cords are designed to be used as part of Belden copper systems in data centers or telecommunications rooms, where they can provide patch panel or equipment connections, consolidation point connections, or telecommunications outlet or MUTOA connections. Their unmatched performance exceeds all parameters specified in the Category 6A standard and all performance characteristics have been set to guarantee transmission performance up to 625 MHz, when used along with 10GX cables and connectivity. Built with improved strain relief and a flexible boot for optimum protection in high-density installations, they feature a wrap-around label

on each cord for easier product identification and length sorting and new vibrant patch cord colors to match the Belden range of horizontal cables.

Category 6A, UTP, Overmolded Modular Cords

Description	Belden Part Number						
	Yellow	Green	Blue	Gray	White	Black	Red
4PR, 26AWG, CAT6A, UTP, PVC, Stranded Patch Cord							
0.5 m	CAP91040D5M	CAP91050D5M	CAP91060D5M	CAP91080D5M	CAP91090D5M	CAP91100D5M	CAP91020D5M
1 m	CAP9104001M	CAP9105001M	CAP9106001M	CAP9108001M	CAP9109001M	CAP9110001M	CAP9102001M
2 m	CAP9104002M	CAP9105002M	CAP9106002M	CAP9108002M	CAP9109002M	CAP9110002M	CAP9102002M
3 m	CAP9104003M	CAP9105003M	CAP9106003M	CAP9108003M	CAP9109003M	CAP9110003M	CAP9102003M
5 m	CAP9104005M	CAP9105005M	CAP9106005M	CAP9108005M	CAP9109005M	CAP9110005M	CAP9102005M
10 m	CAP9104010M	CAP9105010M	CAP9106010M	CAP9108010M	CAP9109010M	CAP9110010M	CAP9102010M
4PR, 26AWG, CAT6A, UTP, LSZH, Stranded Patch Cord							
0.5 m	CAP41040D5M	CAP41050D5M	CAP41060D5M	CAP41080D5M	CAP41090D5M	CAP41100D5M	CAP41020D5M
1 m	CAP4104001M	CAP4105001M	CAP4106001M	CAP4108001M	CAP4109001M	CAP4110001M	CAP4102001M
2 m	CAP4104002M	CAP4105002M	CAP4106002M	CAP4108002M	CAP4109002M	CAP4110002M	CAP4102002M
3 m	CAP4104003M	CAP4105003M	CAP4106003M	CAP4108003M	CAP4109003M	CAP4110003M	CAP4102003M
5 m	CAP4104005M	CAP4105005M	CAP4106005M	CAP4108005M	CAP4109005M	CAP4110005M	CAP4102005M
10 m	CAP4104010M	CAP4105010M	CAP4106010M	CAP4108010M	CAP4109010M	CAP4110010M	CAP4102010M

Category 6A, UTP, Assembled Modular Cords

4PR, 26AWG, CAT6A, UTP, LSZH, Stranded Patch Cord							
0.5 m	CA241040D5M	CA241050D5M	CA241060D5M	CA241080D5M	CA241090D5M	CA241000D5M	CA241020D5M
1 m	CA24104001M	CA24105001M	CA24106001M	CA24108001M	CA24109001M	CA24100001M	CA24102001M
2 m	CA24104002M	CA24105002M	CA24106002M	CA24108002M	CA24109002M	CA24100002M	CA24102002M
3 m	CA24104003M	CA24105003M	CA24106003M	CA24108003M	CA24109003M	CA24100003M	CA24102003M
5 m	CA24104005M	CA24105005M	CA24106005M	CA24108005M	CA24109005M	CA24100005M	CA24102005M
10 m	CA24104010M	CA24105010M	CA24106010M	CA24108010M	CA24109010M	CA24100010M	CA24102010M

Category 6A, Tailored pigtails

CA	P	9	2	06	001M
Performance	Shielding Type	Jacket Material	Termination	Colors	Length
CA Category 6A	P UTP	9 PVC 4 LSZH	2 TIA-A Pigtail 3 TIA-B Pigtail	02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Grey 09 White 10 Black	002 to 065F F Feet 001 to 020M M Meter

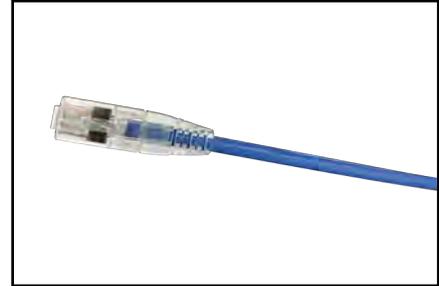
Category 6A, Small-Diameter Patch Cords

Nonbonded-Pair (28 AWG)

Small-Diameter Patch Cords offer a great solution for large data center cross-connects and server enclosures, as well as for enterprise networks installed in crowded telecom rooms. The 28 AWG stranded conductors provide standards-compliant performance when up to 20.7 ft (6.3 m) of patch cord is used in a standard 295 ft (90 m) channel.

Benefits

- Reduces congestion and allows tight bend radius and improve airflow
- Easier access for maintenance
- Improves overall network administration



CAT 6A UTP Small-Diameter Patch Cords

Category 6A, Small-Diameter Patch Cords

Description	Belden Part Number									
	Nonbonded-Pair									
Length	Brown	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
4PR, 28 AWG, CAT6A, UTP, LSZH, Stranded Small-Diameter Patch Cord										
0.5 m	CAD4Z1010D5M	CAD4Z1020D5M	CAD4Z1030D5M	CAD4Z1040D5M	CAD4Z1050D5M	CAD4Z1060D5M	CAD4Z1070D5M	CAD4Z1080D5M	CAD4Z1090D5M	CAD4Z1000D5M
1 m	CAD4Z101001M	CAD4Z102001M	CAD4Z103001M	CAD4Z104001M	CAD4Z105001M	CAD4Z106001M	CAD4Z107001M	CAD4Z108001M	CAD4Z109001M	CAD4Z100001M
2 m	CAD4Z101002M	CAD4Z102002M	CAD4Z103002M	CAD4Z104002M	CAD4Z105002M	CAD4Z106002M	CAD4Z107002M	CAD4Z108002M	CAD4Z109002M	CAD4Z100002M
3 m	CAD4Z101003M	CAD4Z102003M	CAD4Z103003M	CAD4Z104003M	CAD4Z105003M	CAD4Z106003M	CAD4Z107003M	CAD4Z108003M	CAD4Z109003M	CAD4Z100003M
5 m	CAD4Z101005M	CAD4Z102005M	CAD4Z103005M	CAD4Z104005M	CAD4Z105005M	CAD4Z106005M	CAD4Z107005M	CAD4Z108005M	CAD4Z109005M	CAD4Z100005M
10 m	CAD4Z101010M	CAD4Z102010M	CAD4Z103010M	CAD4Z104010M	CAD4Z105010M	CAD4Z106010M	CAD4Z107010M	CAD4Z108010M	CAD4Z109010M	CAD4Z100010M
1 ft	CAD4Z101001F	CAD4Z102001F	CAD4Z103001F	CAD4Z104001F	CAD4Z105001F	CAD4Z106001F	CAD4Z107001F	CAD4Z108001F	CAD4Z109001F	CAD4Z100001F

Category 6A, Tailored Small-Diameter Patch Cords

CA	D4Z	1	06	002M
Performance	Cable	Termination	Colors	Length
CA Category 6A	D4Z UTP, Nonbonded-Pair, 28 AWG Stranded, LSZH	1 T568A/B - T568A/B 2 T568A - OPEN 3 T568B - OPEN 4 Crossover T568A-T568B 5 Crossover IEEE 6 Rollover	01 Brown 02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Gray 09 White 00 Black	002 to 065F F Feet 001 to 020M M Meter

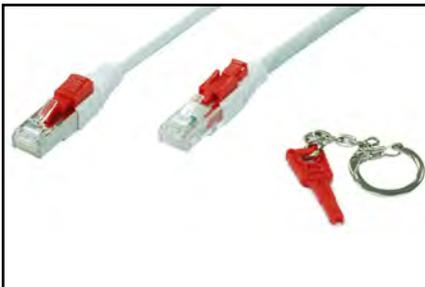
Example:

CAD4Z106001M - CAT6A Small - Diameter Patch Cord, UTP, LSZH, 28AWG Stranded, T568A/B-T568A/B, Blue, 1M

Faster.
Easier.
Better.

Category 6A, Lockable Patch Cords

Nonbonded-Pair



CAT 6A UTP Lockable Patch Cord

Belden's CLAPxxx series products constructed of UTP Cord terminated with enhanced performance modular plug on both ends. A latch is molded with connector boot which enhanced product physical security. All products can be delivered for different length and colors. The wiring scheme can be customized both for T568A and T568B

Benefits

- Reduces congestion and allows tight bend radius and improved airflow
- Easier access for maintenance
- Improves overall network administration

Category 6A, Lockable Patch Cords

Description	Belden Part Number								
	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
4PR 26AWG CAT6A UTP PVC Stranded Lockable Patch Cord									
2 ft (0.6 m)	CLAP9102002F	CLAP9103002F	CLAP9104002F	CLAP9105002F	CLAP9106002F	CLAP9107002F	CLAP9108002F	CLAP9109002F	CLAP9110002F
4 ft (1.2 m)	CLAP9102004F	CLAP9103004F	CLAP9104004F	CLAP9105004F	CLAP9106004F	CLAP9107004F	CLAP9108004F	CLAP9109004F	CLAP9110004F
7 ft (2.1 m)	CLAP9102007F	CLAP9103007F	CLAP9104007F	CLAP9105007F	CLAP9106007F	CLAP9107007F	CLAP9108007F	CLAP9109007F	CLAP9110007F
10 ft (3.0 m)	CLAP9102010F	CLAP9103010F	CLAP9104010F	CLAP9105010F	CLAP9106010F	CLAP9107010F	CLAP9108010F	CLAP9109010F	CLAP9110010F
15 ft (4.6 m)	CLAP9102015F	CLAP9103015F	CLAP9104015F	CLAP9105015F	CLAP9106015F	CLAP9107015F	CLAP9108015F	CLAP9109015F	CLAP9110015F
25 ft (7.6 m)	CLAP9102025F	CLAP9103025F	CLAP9104025F	CLAP9105025F	CLAP9106025F	CLAP9107025F	CLAP9108025F	CLAP9109025F	CLAP9110025F
4PR 26AWG CAT6A UTP LSZH Stranded Lockable Patch Cord									
2 ft (0.6 m)	CLAP4102002F	CLAP4103002F	CLAP4104002F	CLAP4105002F	CLAP4106002F	CLAP4107002F	CLAP4108002F	CLAP4109002F	CLAP4110002F
4 ft (1.2 m)	CLAP4102004F	CLAP4103004F	CLAP4104004F	CLAP4105004F	CLAP4106004F	CLAP4107004F	CLAP4108004F	CLAP4109004F	CLAP4110004F
7 ft (2.1 m)	CLAP4102007F	CLAP4103007F	CLAP4104007F	CLAP4105007F	CLAP4106007F	CLAP4107007F	CLAP4108007F	CLAP4109007F	CLAP4110007F
10 ft (3.0 m)	CLAP4102010F	CLAP4103010F	CLAP4104010F	CLAP4105010F	CLAP4106010F	CLAP4107010F	CLAP4108010F	CLAP4109010F	CLAP4110010F
15 ft (4.6 m)	CLAP4102015F	CLAP4103015F	CLAP4104015F	CLAP4105015F	CLAP4106015F	CLAP4107015F	CLAP4108015F	CLAP4109015F	CLAP4110015F
25 ft (7.6 m)	CLAP4102025F	CLAP4103025F	CLAP4104025F	CLAP4105025F	CLAP4106025F	CLAP4107025F	CLAP4108025F	CLAP4109025F	CLAP4110025F

*The key should be purchased separately (the PN for key is AP100010)

Category 6A, Tailored Lockable Patch Cords

CLA	P	9	1	06	004F
Performance	Shielding Type	Jacket Material	Termination	Colors	Length
CLA Category 6A	P UTP	9 PVC 4 LSZH	1 Cord (T568 B) 4 Cord (T568 A)	02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Grey 09 White 10 Black	002 to 065F F Feet 001 to 020M M Meter

10GX REVConnect Pre-Terminated Cabling System

Couplers and Cable Assemblies

The 10GX Pre-Terminated Cabling System guarantees Category 6A performance and headroom without tradeoffs or compromises on performance or reliability.

Proven modular components are the cornerstone of the system, including 10GX REVConnect Pre-Term Assemblies and 10GX REVConnect Couplers, Jacks and/or RJ45 Plugs. Bonded-Pair technology ensures that the cable assemblies

offer exceptional structural stability and unflinching electrical performance. The patented Dual-Flex design ensures controlled plug/jack mated connections on both sides of the coupler. This provides an uninterrupted electrical path for superior connector reliability and transmission performance.



10GX REVConnect Pre-Terminated Cable Assemblies

10GX REVConnect Preloaded Patch Panels

Description	Belden Part Number	
	White	Black
10GX Preloaded Patch Panels		
10GX REVConnect Patch Panel 24-port, 1U (Preloaded)	RVAPPF1U24WH	RVAPPF1U24BK
10GX REVConnect Patch Panel 48-port, 2U (Preloaded)	RVAPPF2U48WH	RVAPPF2U48BK
10GX REVConnect Angled Patch Panel 24-port, 1U (Preloaded)	RVAPPA1U24WH	RVAPPA1U24BK
10GX REVConnect Angled Patch Panel 48-port, 2U (Preloaded)	RVAPPA2U48WH	RVAPPA2U48BK



10GX REVConnect Coupler

Category 6A, 10GX RJ45 Couplers

Description	Belden Part Number
10GX REVConnect Coupler Black T568A/B (includes 1 core)	RVACPKUBK-S1
10GX REVConnect Coupler Black T568A/B Bulk Pack (includes 24 cores)	RVACPKUBK-B24

Category 6A, 10GX REVConnect Pre-Terminated Assemblies

C	B	06	A	U	C	T	R	B	006
Bundle Type	# of Cables	Category	Unshielded/ Shielded	Termination Type	Wiring Scheme	Fire Rating	Colors	Length	
B Braided Sleeve	01 1 Cable	6 Cat6	U UTP	C RC Core to Core	T T568A/B-T568A/B	R Riser	B Blue	006 6 ft (1.8 m)	
N* No Sleeve, Single Cable, Core to Core	06 6 Cables	A Cat6A		1 RC Core to RJ45 Plug	A T568A-OPEN	P Plenum	S Gray	007 7 ft (2.1 m)	
	08 8 Cables			3 RC Core to Open	B T568B-OPEN		W White	008 8 ft (2.4 m)	
	12 12 Cables						N Black	009 9 ft (2.7 m)	
								010 10 ft (3 m)	
								XXX XXX ft	

Notes:

Use **XXX** to specify length in feet 006-100 ft in increments of 1 ft, 105-295 ft in increments of 5 ft.

*Selection N is only available with **01**=1 Cable and **C**=Core to Core in length in feet 001-100 ft in increments of 1 ft, 105-295 ft in increments of 5 ft.

Example:

CB06AUCTRB006 – 10GX REVConnect Pre-Terminated Trunk, Braided Sleeve, 6 Cables, CAT6A, Unshielded, Core to Core, T568A/B, Riser, Blue Jacket, 6 ft

Faster.
Easier.
Better.

Category 6A, Pre-Terminated Cabling System

Cable Assemblies, Couplers, Patch Panels



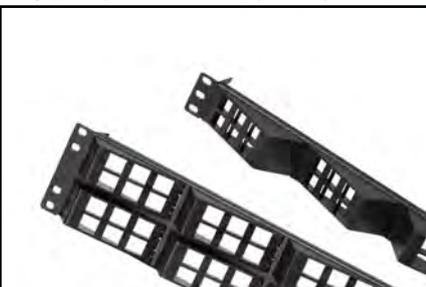
Category 6A Pre-Terminated Cable Assemblies



Category 6A KeyConnect RJ45 Coupler



Category 6A KeyConnect Patch Panels (Preloaded)



KeyConnect AngleFlex Patch Panels (Empty)



KeyConnect Universal Patch Panel with Shutter (Empty)

The Category 6A Pre-Terminated Cabling System delivers rapid deployment coupled with guaranteed Category 6A performance and headroom, without the need for tradeoffs or compromise in performance and reliability. Bringing a new level of ease and convenience to cabling system design, ordering and installation, the system allows users to deploy their high performance 10 Gigabit networks with optimal speed and efficiency.

Proven modular components are the cornerstone of the system. These include the Category 6A Pre-Terminated Cable Assemblies and the Category 6A RJ45 Modular Couplers. These components rely on unique bling technologies: Belden's Bonded-Pair

technologies ensure that the cable assemblies boast exceptional structural stability and unfailing electrical performance; and the patent pending Dual-FleX design ensures controlled plug/jack mated connection on both sides of the coupler to provide an uninterrupted electrical path for superior connector reliability and transmission performance

With simple planning, easy ordering and rapid delivery, the Category 6A Pre-Terminated Cabling System can reduce installation time and labor costs by as much as 90 percent. In addition, this "green" system provides for plug and-play installation and component reusability, resulting in lower installed cost and less waste.

Category 6A, Cable Assemblies

Description	Belden Part Number	
	6-Cable	8-Cable
Category 6A Pre-Terminated Cable Assembly, Bonded-Pair, 4-Pair, 24 AWG Solid, T568A/B-T568A/B		
CMR, Black	CA21100xxxA06	CA21100xxxA08
CMR, Blue	CA21106xxxA06	CA21106xxxA08
CMR, White	CA21109xxxA06	CA21109xxxA08
CMP, Black	CA22100xxxA06	CA22100xxxA08
CMP, Blue	CA22106xxxA06	CA22106xxxA08
CMP, White	CA22109xxxA06	CA22109xxxA08

Use xxx to specify length in feet - 006-100 ft in increments of 1 ft - 105-295 ft in increments of 5 ft

KeyConnect Modular Patch Panels

Description	Belden Part Number
KeyConnect Modular Patch Panels (Empty)	
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Patch Panel, 24-port, 1U, Black (Empty)	AP106504-AP back support bar AX105931 must be used
KeyConnect Universal Patch Panel, 48-port, 2U, Black (Empty)	AP106505-AP back support bar AX105931 must be used
KeyConnect Modular Patch Panel, 48-port, 1U, Black (Empty)	AX103121
Back support bar	AX105931
KeyConnect AngleFlex Modular Patch Panels (Empty)	
KeyConnect AngleFlex Patch Panel, 24-port, 1U, Black (Empty)	AP103248 back support bar AX105931 must be used
KeyConnect AngleFlex Patch Panel, 48-port, 2U, Black (Empty)	AP103249 back support bar AX105931 must be used
KeyConnect Angled Modular Patch Panels (Empty)	
KeyConnect Angled Patch Panel, 24-port, 1U, Black (Empty)	AX104599
KeyConnect Angled Patch Panel, 48-port, 2U, Black (Empty)	AX104601
KeyConnect Angled Patch Panel, 48-port, 1U, Black (Empty)	AX104600

Category 6A KeyConnect RJ45 Coupler

Belden Part Number						
Orange	Red	Yellow	Green	Blue	White	Black
AX104015	AX104016	AX104017	AX104018	AX104019	AX104023	AX104024

10GX REVConnect Wall-Mount System

Connecting Components, Accessories, X-Connect Cables and Frames

The 10GX REVConnect Wall-Mount System is a very high-density, flexible cross-connect system that meets Category 6A performance when using 10GXS Cable terminated with REVConnect Cores as jumpers between user and equipment ports. As the basic component of the system, the REVConnect Coupler (core-to-core connector) is surrounded by cable dressing and patch cable

management accessories. When used in a “cut-to-length” fashion (10GXS Cable + cores), the 10GX REVConnect Wall-Mount System provides installed cost savings of up to 40% compared to other Category 6A wall-mount cross-connect systems, and reduces operating costs by over 45% by allowing higher termination density and eliminating patch cord slack management.

Category 6A, 10GX REVConnect Wall-Mount System

Description	Belden Part Number
Termination Kits	
10GX REVConnect Wall-Mount Termination Kit Coupler 96-Port (includes 100 cores)	RVAXCTK96CBK
10GX REVConnect Wall-Mount Termination Module Coupler 16-Port (includes 16 cores)	RVAXCTM16CBK
10GX REVConnect Wall-Mount Termination Kit Jack 96-Port (includes 100 cores)	RVAXCTK96JBK
10GX REVConnect Wall-Mount Termination Module Jack 16-Port (includes 16 cores)	RVAXCTM16JBK
Mounts	
REVConnect Wall-Mount Connectivity Mount 96-Port (empty)	RVUXCMT96E
REVConnect Wall-Mount Connectivity Module 16-Port (empty)	RVUXCCM16E
Cable Management Accessories	
REVConnect Wall-Mount Cable Dressing Module	RVUCADM
REVConnect Wall-Mount Patch Cable Management Channel	RVUPCMC
REVConnect Wall-Mount Horizontal Channel Kit	RVUHOCK
REVConnect Couplers	
10GX REVConnect Coupler Black T568A/B (includes 1 core)	RVACPKUBK-S1
10GX REVConnect Coupler Black T568A/B Bulk Pack (includes 25 cores)	RVACPKUBK-B24
10GX REVConnect Spare Cores, 50 in pack	RVUCOEW-B50
Cross-Connect Cables	
10GXS Small-Diameter Cables, UTP 4-Pair, 23 AWG, Riser-CMR, Nonbonded-Pair (various colors available)	10GXS12XXXA1000
10GXS Small-Diameter Cables, UTP 4-Pair, 23 AWG, Riser-CMR, Bonded-Pair (various colors available)	10GXS32XXXA1000

Use **XXX** to specify color of cable. See color selector below for available colors.

REVConnect Coupler Test Adapter	
REVConnect Coupler Test Adapter	RVUTA01

Color Selector	
002	Red
003	Orange
004	Yellow
005	Green
D15	Blue
007	Purple
008	Gray
009	White
010	Black



10GX REVConnect Wall-Mount Termination Kit Coupler 96-Port



10GX REVConnect Wall-Mount Termination Module Jack 16-Port



REVConnect Wall-Mount Patch Cable Management Channel



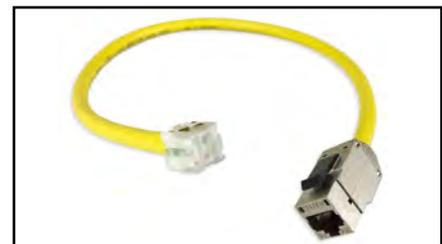
REVConnect Wall-Mount Cable Dressing Module



REVConnect Wall-Mount Horizontal Channel Kit

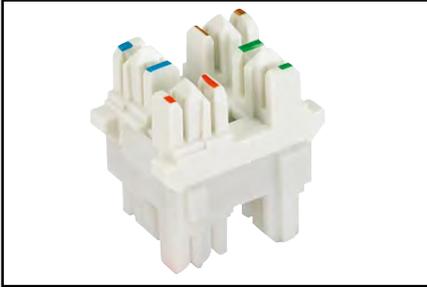


10GX REVConnect Coupler

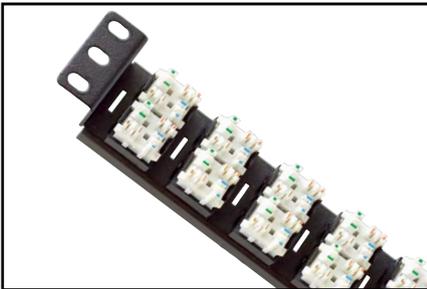


REVConnect Core Test Adapter

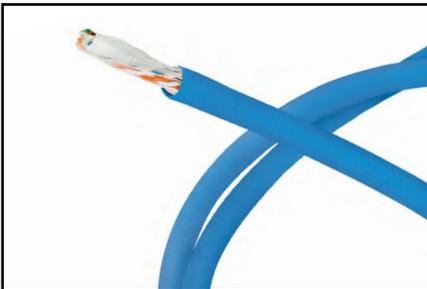
Faster.
Easier.
Better.



Category 6A IDC Connector



Category 6A IDC Patch Panel, shown with 10GX IDC Connectors



Category 6A IDC X-Connect Cable



Category 6A IDC Frame

Category 6A, IDC System

Connecting Components, Accessories, X-Connect Cable

The Belden Category 6A IDC System is a high performance, space-efficient modular connection system. The system meets the ANSI/TIA-568.2-D standards, plus it is uniquely engineered to deliver unmatched 10G performance-handling 10GBase-T data networking and multimedia applications with headroom to spare.

The Category 6A IDC System is extremely flexible in that it accommodates the configuration of large cross-connect systems and the configuration of interconnect systems within racks. Because of its modularity, the system also accommodates future moves, adds and changes (MACs) with ease.

Category 6A IDC System

Description	Belden Part Number
Category 6A IDC Patch Panel Components	
Category 6A IDC Patch Panel, 24-port, 1U, Black (Empty)	AX104138
Category 6A IDC Connector (24 units/pkg)	AX104139
Category 6A IDC Block Front (100 units/pkg)	AX102679
Category 6A IDC Block Rear (100 units/pkg)	AX102680
Category 6A IDC Accessories	
Category 6A IDC Test Adapter	AX104006
Category 6A IDC X-Connect Cable	
Category 6A IDC X-Connect Cable	10GX12xxx1000

Use xxx to specify color of cable.

Category 6A IDC Frame

Two Post Self Supporting Rack	BHHR194
6 in. Vertical Manager	BHVVH006
12 in. Vertical Manager	BHVVH012
Front-to-Back Trough Kit 42 in.	AX104225
Front-to-Back Trough Kit 38 in.	AX104225-S
Overhead Kit	AX104226

10GX Shielded Cables

Nonbonded-Pair and Bonded-Pair

The 10GX Shielded System provides 625 MHz of proven channel bandwidth and a data rate of 10G per second. With a thick, 100% coverage foil shield, your 10G of data is protected from harsh EMI environments.

Adding a shield to a high-performance Category 6A cable is not as easy as it seems. Any metallic shield changes the electrical performance of the cable; if the shield is not smooth, performance becomes unpredictable. Our design utilizes an inner and outer jacket to sandwich the foil into having a smooth surface. This eliminates adverse PSNEXT and RL effects seen with most other 10G cable products.



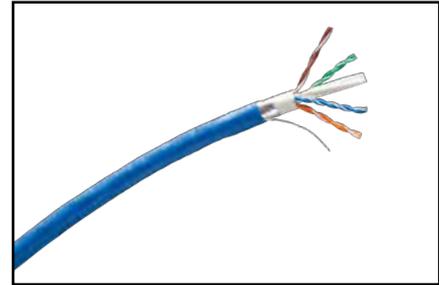
ReelTuff Packaging is available for some part numbers. Get more information at www.belden.com/reeltuff

Applications

- 10GBASE-T, and any other Ethernet application in high-noise environments (EMI)
- 10GBASE-T Full Power Implementation (IEEE 802.3an)
- 10GBASE-T Low Power Implementation (Short Reach Mode) (IEEE 802.3an)
- 1000BASE-T Applications (IEEE 802.3ab)
- PoE PSE Type 1 (15W), PSE Type 2 (30W), PSE Type 3 (60W), PSE Type 4 (100W)
- Broadband Video (CATV) and High Speed Internet (DOCSIS) over UTP up to 860 MHz



Shaded part numbers indicate LP-Certified by UL

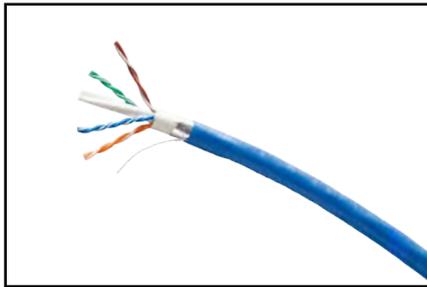


10GX Shielded Cable

Category 6A, 10GX Shielded Cables

Description		Belden Part Number	
		Nonbonded-Pair	Bonded-Pair
Color	Length	Spool	Spool
10GX Shielded Cables, F/UTP, 4-Pair, 23 AWG, Plenum-CMP			
Red	1000 ft (305 m)	Available	Available
Orange	1000 ft (305 m)	Available	Available
Yellow	1000 ft (305 m)	10GX53F 0041000	10GX63F 0041000
Green	1000 ft (305 m)	Available	Available
Blue	1000 ft (305 m)	10GX53F D151000	10GX63F D151000
Purple	1000 ft (305 m)	Available	Available
Gray	1000 ft (305 m)	10GX53F 0081000	10GX63F 0081000
White	1000 ft (305 m)	10GX53F 0091000	10GX63F 0091000
Black	1000 ft (305 m)	10GX53F 0101000	10GX63F 0101000
10GX Shielded Cables, F/UTP, 4-Pair, 23 AWG, Riser-CMR			
Red	1000 ft (305 m)	Available	Available
Orange	1000 ft (305 m)	Available	Available
Yellow	1000 ft (305 m)	10GX52F 0041000	10GX62F 0041000
Green	1000 ft (305 m)	Available	Available
Blue	1000 ft (305 m)	10GX52F 0061000	10GX62F 0061000
Purple	1000 ft (305 m)	Available	Available
Gray	1000 ft (305 m)	10GX52F 0081000	10GX62F 0081000
White	1000 ft (305 m)	10GX52F 0091000	10GX62F 0091000
Black	1000 ft (305 m)	10GX52F 0101000	10GX62F 0101000

Faster.
Easier.
Better.



10GX Shielded Cable

10GX Shielded Cables

Nonbonded-Pair

The 10GX Shielded System provides 625 MHz of proven channel bandwidth and a data rate of 10G per second. With a thick, 100% coverage foil shield, your 10G of data is protected from harsh EMI environments.

Adding a shield to a high-performance Category 6A cable is not as easy as it seems. Any metallic shield changes the electrical performance of the cable; if the shield is not smooth, performance becomes unpredictable. Our design utilizes an inner and outer jacket to sandwich the foil into having a smooth surface. This eliminates adverse PSNEXT and RL effects seen with most other 10G cable products.

Applications

- 10GBASE-T, and any other Ethernet application in high-noise environments (EMI)
- 10GBASE-T Full Power Implementation (IEEE 802.3an)
- 10GBASE-T Low Power Implementation (Short Reach Mode) (IEEE 802.3an)
- 1000BASE-T Applications (IEEE 802.3ab)
- PoE PSE Type 1 (15W), PSE Type 2 (30W) PSE Type 3 (60W), PSE Type 4 (100W)
- Broadband Video (CATV) and High Speed Internet (DOCSIS) over UTP up to 860 MHz

Category 6A, 10GX Shielded Cables

Description		Belden Part Number
Color	Length	Nonbonded-Pair Spool
10GX Cables, F/FTP, 4-Pair, 23 AWG, LSZH, Indoor IEC 60332-3-22		
Blue	1000 ft (305 m)	1685ANH.006305M
Gray	1000 ft (305 m)	1685ANH.008305M
Black	1000 ft (305 m)	1685ANH.010305M
10GX Cable, F/FTP, 4-Pair, 23 AWG, LSZH, Indoor CPR Dca		
Gray	3280 ft (1000 m)	1685ENH.001000M
Gray	1640 ft (500 m)	1685ENH.00500M
Gray	1968 ft (600 m)	1685ENH.00600M
Purple	3280 ft (1000 m)	1685ENH.031000M
Purple	1640 ft (500 m)	1685ENH.03500M
Yellow	1640 ft (500 m)	1685ENH.04500M
10GX Cable, S/FTP, 4-Pair, 23 AWG, LSZH, Indoor CPR Eca		
Blue	1640 ft (500 m)	10GXE02.06500M
Blue	1000 ft (305 m)	10GXE02.06305M
Gray	1640 ft (500 m)	10GXE02.08500M
Gray	1000 ft (305 m)	10GXE02.08305M
Orange	1640 ft (500m)	10GXE02.03500M
Purple	1640 ft (500m)	10GXE02.07500M
Purple	1000 ft (305 m)	10GXE02.07305M
White	1640 ft (500 m)	10GXE02.09500M
White	1000 ft (305 m)	10GXE02.09305M
10GX Cable, S/FTP, 4-Pair, 23 AWG, LSZH, Indoor CPR Eca		
Blue	1640 ft (500 m)	10GXE92.06500M
Blue	1000 ft (305 m)	10GXE92.06305M
Gray	1640 ft (500 m)	10GXE92.08500M
Gray	1000 ft (305 m)	10GXE92.08305M
Purple	1640 ft (500 m)	10GXE92.07500M
Purple	1000 ft (305 m)	10GXE92.07305M
White	1640 ft (500 m)	10GXE92.09500M
White	1000 ft (305 m)	10GXE92.09305M
CAT6A Cable, F/UTP, 4-Pair, 23 AWG, LSZH, IEC 60332-1		
Blue	1640 ft (500 m)	10GA25.006500M
Blue	1000 ft (305 m)	10GA25.006305M
Gray	1640 ft (500 m)	10GA25.008500M
Gray	1000 ft (305 m)	10GA25.008305M

10GX Shielded System

Patch Panels, Jacks, Plugs, Cords & Pigtails

10GX Shielded Patch Panels are robust, all-metal modular patch panels that provide a flexible, versatile and high-density termination solution for data center and teleco room installations. They come with a ground wire to guarantee shielding integrity (per ANSI/TIA-607-C) and cable management brackets for neat cable dressing. They can be configured using 10GX Shielded Modular Jacks available in REVConnect and KeyConnect styles.

The 10GX REVConnect module is a rugged, easy-to-install connector. Its termination features a universal core that accepts a jack or plug to support connections in a keystone outlet or direct connections into devices.

10GX Modular Patch Cords are designed around a patented plug management bar design that allows for very good control of internal plug NEXT. It offers excellent alien crosstalk performance while maintaining flexibility.



10GX Shielded Modular Patch Panel (Empty)



10GX Shielded REVConnect Modular Jack and Plug

Category 6A, 10GX Shielded Modular Patch Panels

Description	Belden Part Number
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Patch Panel, 24-port, 1U, Black (Empty)	AX106504-AP back support bar AX105931 must be used
KeyConnect Universal Patch Panel, 48-port, 2U, Black (Empty)	AX106505-AP back support bar AX105931 must be used
KeyConnect Shielded Angled Patch Panel, 24-port, 1U, Titanium (Empty)	AX104622
KeyConnect Shielded Angled Patch Panel, 48-port, 2U, Titanium (Empty)	AX104623
Back support bar	AX105931

Category 6A, 10GX Shielded Modular Jacks

Description	Belden Part Number
10GX Shielded KeyConnect Modular Jack, Metallic	AX104562
10GX Shielded REVConnect Modular Jack, Single Pack	RVAMJKSME-S1
10GX Shielded REVConnect Modular Jack, Bulk Pack	RVAMJKSME-B24

Category 6A, 10GX Shielded Modular Plugs

Description	Belden Part Number
10GX Shielded REVConnect Modular Plug, Single Pack	RVAFPSME-S1
10GX Shielded REVConnect Modular Plug, Bulk Pack	RVAFPSME-B24

Category 6A, Shielded Modular Patch Cords

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow
CAT6A Modular Patch Cords, STP, 4-Pair, 26 AWG, PVC, Molded Boots, T568A/B						
2 ft	CAC9106002F	CAC9109002F	CAC9108002F	CAC9105002F	CAC9102002F	CAC9104002F
3 ft	CAC9106003F	CAC9109003F	CAC9108003F	CAC9105003F	CAC9102003F	CAC9104003F
4 ft	CAC9106004F	CAC9109004F	CAC9108004F	CAC9105004F	CAC9102004F	CAC9104004F
x ft (1-65 ft)	CAC9106xxxF	CAC9109xxxF	CAC9108xxxF	CAC9105xxxF	CAC9102xxxF	CAC9104xxxF
1 m	CAC9106001M	CAC9109001M	CAC9108001M	CAC9105001M	CAC9102001M	CAC9104001M
2 m	CAC9106002M	CAC9109002M	CAC9108002M	CAC9105002M	CAC9102002M	CAC9104002M
3 m	CAC9106003M	CAC9109003M	CAC9108003M	CAC9105003M	CAC9102003M	CAC9104003M
xm (1-20 m)	CAC9106xxxM	CAC9109xxxM	CAC9108xxxM	CAC9105xxxM	CAC9102xxxM	CAC9104xxxM
CAT6A Modular Patch Cords, STP, 4-Pair, 26 AWG, LSZH, Molded Boots, T568A/B						
2 ft	CAC4106002F	CAC4109002F	CAC4108002F	CAC4105002F	CAC4102002F	CAC4104002F
3 ft	CAC4106003F	CAC4109003F	CAC4108003F	CAC4105003F	CAC4102003F	CAC4104003F
4 ft	CAC4106004F	CAC4109004F	CAC4108004F	CAC4105004F	CAC4102004F	CAC4104004F
x ft (1-65 ft)	CAC4106xxxF	CAC4109xxxF	CAC4108xxxF	CAC4105xxxF	CAC4102xxxF	CAC4104xxxF
1 m	CAC4106001M	CAC4109001M	CAC4108001M	CAC4105001M	CAC4102001M	CAC4104001M
2 m	CAC4106002M	CAC4109002M	CAC4108002M	CAC4105002M	CAC4102002M	CAC4104002M
3 m	CAC4106003M	CAC4109003M	CAC4108003M	CAC4105003M	CAC4102003M	CAC4104003M
x m (1-20 m)	CAC4106xxxM	CAC4109xxxM	CAC4108xxxM	CAC4105xxxM	CAC4102xxxM	CAC4104xxxM

*Shielded lockable patch cords are also available on request

Category 6A, Tailored Shielded Pigtails

Performance	Shielding Type	Jacket Material	Termination	Colors	Length
CA Category 6A	C Shielded	9 PVC 4 LSZH	2 TIA-A Pigtail 3 TIA-B Pigtail	02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Gray 09 White 10 Black	002F 002 to 065F F Feet 001M 001 to 020M M Meter

Faster.
Easier.
Better.

Category 6A Shielded Pre-Terminated Cabling System

Cable Assemblies, Couplers, Patch Panels, Cords



Category 6A Shielded Pre-Terminated Cable System



Category 6A Shielded KeyConnect RJ45 Coupler

The Category 6A Shielded Pre-Terminated Cabling System delivers rapid deployment coupled with guaranteed Category 6A performance and headroom, without the need for tradeoffs or compromise in performance and reliability. Bringing a new level of ease and convenience to cabling system design, ordering and installation, the system allows users to deploy their high-performance 10 Gigabit networks with optimal speed and efficiency. Proven modular components are the cornerstone of the system. These include the Category 6A Shielded Pre-Terminated Cable Assemblies and the Category 6A Shielded RJ45 Modular Couplers. These components rely on unique enabling technologies: Belden's Bonded-Pair

technologies ensure that the cable assemblies boast exceptional structural stability and unfailing electrical performance; and the patent-pending Dual-Flex design ensures controlled plug/jack mated connection on both sides of the coupler to provide an uninterrupted electrical path for superior connector reliability and transmission performance.

With simple planning, easy ordering and rapid delivery, the Category 6A Shielded Pre-Terminated Cabling System will drastically reduce installation time and labor cost. In addition, this "green" provides for plug-and-play installation and component reusability, resulting in lower cost and less waste.

Category 6A Shielded Pre-Terminated Cabling System

Description	Belden Part Number			
	Black	Blue	Gray	White
10GX Shielded Cable Assembly, Bonded Pair, 4-Pair, 23 AWG Solid, T568A/B-T568A/B, 6 Cables, CMR				
15 ft (4.6 m)	CAF1100015A06	CAF1106015A06	CAF1108015A06	CAF1109015A06
25 ft (7.6 m)	CAF1100025A06	CAF1106025A06	CAF1108025A06	CAF1109025A06
35 ft (10.6 m)	CAF1100035A06	CAF1106035A06	CAF1108035A06	CAF1109035A06
50 ft (15.2 m)	CAF1100050A06	CAF1106050A06	CAF1108050A06	CAF1109050A06
xxx	CAF1100xxxA06	CAF1106xxxA06	CAF1108xxxA06	CAF1109xxxA06
10GX Shielded Cable Assembly, Bonded Pair, 4-Pair, 23 AWG Solid, T568A/B-T568A/B, 6 Cables, CMP				
15 ft (4.6 m)	CAF2100015A06	CAF2106015A06	CAF2108015A06	CAF2109015A06
25 ft (7.6 m)	CAF2100025A06	CAF2106025A06	CAF2108025A06	CAF2109025A06
35 ft (10.6 m)	CAF2100035A06	CAF2106035A06	CAF2108035A06	CAF2109035A06
50 ft (15.2 m)	CAF2100050A06	CAF2106050A06	CAF2108050A06	CAF2109050A06
xxx	CAF2100xxxA06	CAF2106xxxA06	CAF2108xxxA06	CAF2109xxxA06

Use xxx to specify length in feet — 006-050 ft in increments of 1 ft, 055-295 ft in increments of 5 ft

Category 6A KeyConnect Shielded RJ45 Coupler

Description	Belden Part Number
10GX KeyConnect Shielded RJ45 Coupler	AX104501

KeyConnect Shielded Patch Panels

Description	Belden Part Number
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Patch Panel, 24-port, 1U, Black (Empty)	AX106504-AP back support bar AX105931 must be used
KeyConnect Universal Patch Panel, 48-port, 2U, Black (Empty)	AX106505-AP back support bar AX105931 must be used
KeyConnect Shielded Angled Patch Panel, 24-port, 1U, Titanium (Empty)	AX104622
KeyConnect Shielded Angled Patch Panel, 48-port, 2U, Titanium (Empty)	AX104623
Back support bar	AX105931

Color-Coded Icon Kit

Belden Part Number							
Red	Orange	Yellow	Green	Blue	Purple	White	Black
KeyConnect Color-coded Icon Kit for Shielded Jacks and Couplers							
AX104632-RD	AX104632-OR	AX104632-YE	AX104632-GN	AX104632-BL	AX104632-PR	AX104632-EW	AX104632-BK

SECTION TWO

Category 6 (CAT6+) Systems

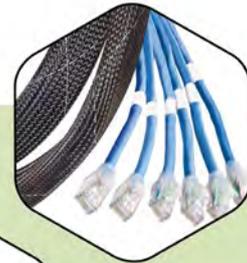


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Belden offers several beyond-standards Category 6 (CAT6+) copper systems to support a variety of price-performance ratios, applications, environments and operational lifespans: the 4800 System and 2400 System. Each Category 6 system is comprised of DataTwist Cable with various guaranteed bandwidth levels and application recommendations, preloaded and modular KeyConnect Patch Panels, CAT6+ Modular Jacks and CAT6+ Modular Patch Cords.

4800 System is the highest-performing Category 6 system available with guaranteed bandwidth to 300 MHz and exceptional signal power and signal-to-noise performance that exceeds ANSI/TIA Category 6 requirements.

2400 System offers a guaranteed bandwidth of 250 MHz to support enhanced, error-free Category 6 performance for reliable business applications and transactions.

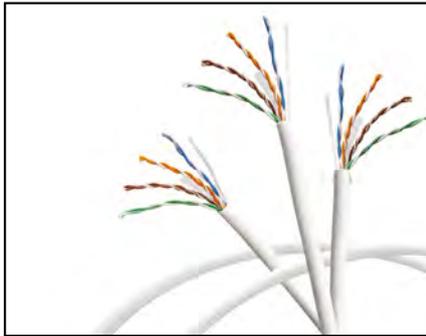
Belden's Pre-Terminated Cabling System features proven modular components and an intuitive plug-and-play installation that delivers rapid deployment and guaranteed Category 6 performance and headroom

Based on proven reliable BIX technology, the space-saving GigaBIX Category 6 Cross-Connect System offers easy installation and cable management for high-density applications

CAT6+ KeyConnect Modular Jacks feature patented Encapsulated Lead Frame technology that offers excellent long-term reliability as well as extremely stable transmission performance

With DataTwist 2400 Shielded Cables, Shielded Patch Panels and CAT6+ Shielded Modular Jacks and Cords, Belden also offers an end-to-end Category 6 shielded system that provides better noise immunity to improve data throughput in harsh EMI environments.

Faster.
Easier.
Better.



Category 6 Cable

CAT6+ Unshielded Cable

Nonbonded-Pair and Bonded-Pair

Belden offers several Category 6 performance levels including our highest performing 4800 and our 2400 Standards Compliant Plus system cable. Every level exceeds ANSI/TIA-568.2-D 's performance and are produced with Belden's superior quality. Our Bonded-Pair technology is an option which will give you peace of mind by making your installation as robust as possible. We also offer minimum compliant versions.

DataTwist 4800, part of the 4800 System, is a UTP cable engineered specifically to perform well beyond ANSI/TIA-568.2-D Category 6 requirements. All DataTwist 4800 Cables are designed to provide low insertion loss (low signal attenuation). This characteristic enables increased signal power over a higher range of frequencies. A strong signal translates into maximum headroom and more robust transmission for today's applications, as well as a capacity for tomorrow's networks. The higher signal power of DataTwist 4800 Cables also results in a higher PSACR. With this higher ratio,

4800 Cables provide fewer transmission errors and higher data rate capability.

DataTwist 2400 Cables consists of 4-pair UTP cables that exceed Category 6 requirements as per ANSI/TIA-568.2-D. When used as the horizontal cable in the 2400 System, the channel provides at least 250 MHz of bandwidth.

Applications

- 1000BASE-T Applications (IEEE 802.3ab)
- PoE PSE Type 1 (15W), PSE Type 2 (30W PSE Type 3 (60W), PSE Type 4 (100W)
- Broadband video (CATV) and high speed internet (DOCSIS) over UTP
- High temperature performance up to 50°C without length de-rating for 1000BASE-T and 100BASE-TX



Shaded part numbers indicate LP-Certified by UL

Category 6, CAT6+ Unshielded Cables

Belden Part Number	Color	Length
DataTwist 4800, Nonbonded-Pair, 4-Pair, 23 AWG, CMR		
4812 0061000	Blue	1000 ft (305 m)
4812 0081000	Gray	1000 ft (305 m)
DataTwist 4800, Nonbonded-Pair, 4-Pair, 23 AWG, CMP		
4813 D151000	Blue	1000 ft (305 m)
4813 0081000	Gray	1000 ft (305 m)
DataTwist 2400, Nonbonded-Pair, 4-Pair, 23 AWG, Riser-CMR		
2412 0061000	Blue	1000 ft (305 m)
2412 0081000	Gray	1000 ft (305 m)
DataTwist 2400, Nonbonded-Pair, 4-Pair, 23 AWG, Plenum-CMP		
2413 D151000	Blue	1000 ft (305 m)
2413 0081000	Gray	1000 ft (305 m)
Nonbonded-Pair, 4-Pair, 24 AWG, PVC, CM		
7814A 006A1000	Blue	1000 ft (305 m)
7814A 008A1000	Gray	1000 ft (305 m)
Nonbonded-Pair, 4-Pair, 24 AWG, PVC, CMR		
7814R 006A1000	Blue	1000 ft (305 m)
7814R 008A1000	Gray	1000 ft (305 m)
Nonbonded-Pair, 4-Pair, 24 AWG, LSZH, IEC 60332-1		
7814ANH 006A1000	Blue	1000 ft (305 m)
7814ANH 008A1000	Gray	1000 ft (305 m)
Nonbonded-Pair, 4-Pair, 23 AWG, PVC, UL CM		
7834A 0061000	Blue	1000 ft (305 m)
7834A 0081000	Gray	1000 ft (305 m)
Nonbonded-Pair, 4-Pair, 23 AWG, PVC, UL CMR		
7834R 0061000	Blue	1000 ft (305 m)
7834R 0081000	Gray	1000 ft (305 m)
Nonbonded-Pair, 4-Pair, 23 AWG, LSZH, IEC 60332-1		
7834ANH 0061000	Blue	1000 ft (305 m)
7834ANH 0081000	Gray	1000 ft (305 m)
Nonbonded-Pair, 4-Pair, 23 AWG, LSZH, IEC 60332-3-22		
7834ANC 006U1000	Blue	1000 ft (305 m)
7834ANC 008U1000	Gray	1000 ft (305 m)
Bonded-Pair, 4-Pair, 23 AWG, LSZH, IEC 60332-1		
7812ENH 006305M	Blue	1000 ft (305 m)
7812ENH 009305M	White	1000 ft (305 m)

Category 6, KeyConnect Patch Panels

Preloaded and Modular

The KeyConnect Patch Panel Series is a comprehensive line of robust all-metal, preloaded and modular patch panels. The series provides a flexible, versatile and high density termination solution for Data Center and Telecommunications Room installations. The preloaded KeyConnect Patch Panels are available in 24-port/1U and 48-port/2U configurations with CAT6+ KeyConnect Modular Jacks. The -SCM option has shorter cable management brackets. The modular KeyConnect Patch Panels are available in 24-port/1U, 48-port/1U and 48-port/2U configurations.

The KeyConnect Patch Panel series also includes the unique AngleFlex Patch Panel available in 24-port/1U and 48-port/2U

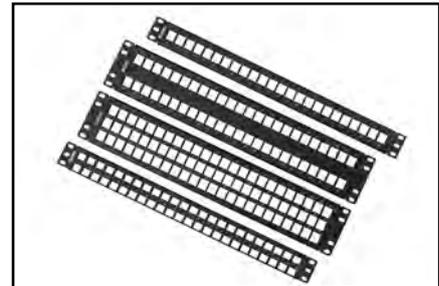
configured using CAT6+ KeyConnect Modular angled inserts provide intuitive left, right or bi directional patch cord routing and more efficient switch connection. Angled inserts eliminate the need for horizontal cable management, for a 27% space savings per rack.

The KeyConnect and AngleFlex panels can be configured in Patent-pending removable jacks or Multimedia Modules. The KeyConnect Angled Patch Panels (v-shape) are available in preloaded and empty configurations.

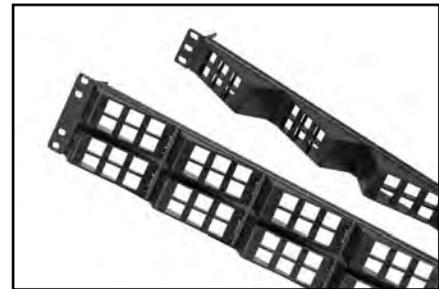
The Flex Patch Panel series is available in 24-port/1U and 48-port/2U configurations, and is designed to be populated using CAT6+ Modular Jacks or Multimedia Modules.



CAT6+ KeyConnect Patch Panels (Preloaded)



KeyConnect Patch Panels (Empty)



KeyConnect AngleFlex Patch Panels (Empty)



KeyConnect Universal Patch Panel with Shutter (Empty)

Category 6, Cat 6+ Patch Panel

Description	Belden Part Number
CAT6+ KeyConnect Patch Panels (Preloaded)	
CAT6+ KeyConnect Patch Panels, 24-port, 1U, Black (Preloaded)	AX103253
CAT6+ KeyConnect Patch Panels, 24-port, 1U, Black, Short Cable Management (Preloaded)	AX103253-SCM
CAT6+ KeyConnect Patch Panels, 48-port, 2U, Black (Preloaded)	AX103255
CAT6+ KeyConnect Patch Panels, 48-port, 2U, Black, Short Cable Management (Preloaded)	AX103255-SCM
CAT6+ KeyConnect Patch Panels, 48-port, 1U, Black (Preloaded)	AX103263
CAT6+ KeyConnect Angled Patch Panel (Preloaded)	
CAT6+ KeyConnect Angled Patch Panel, 24-port, 1U, Black (Preloaded)	AX105360
CAT6+ KeyConnect Angled Patch Panel, 48-port, 2U, Black (Preloaded)	AX105361
CAT6+ KeyConnect Angled Patch Panel, 48-port, 1U, Black (Preloaded)	AX105362

KeyConnect Modular Patch Panels

Description	Belden Part Number
KeyConnect Modular Patch Panels (Empty)	
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Patch Panel, 24-port, 1U, Black (Empty)	AX106504-AP <small>back support bar AX105931 must be used</small>
KeyConnect Universal Patch Panel, 48-port, 2U, Black (Empty)	AX106505-AP <small>back support bar AX105931 must be used</small>
KeyConnect Modular Patch Panel, 48-port, 1U, Black (Empty)	AX103121
Back support bar	AX105931
KeyConnect AngleFlex Modular Patch Panels (Empty)	
KeyConnect AngleFlex Patch Panel, 24-port, 1U, Black (Empty)	AP103248 <small>back support bar AX105931 must be used</small>
KeyConnect AngleFlex Patch Panel, 48-port, 2U, Black (Empty)	AP103249 <small>back support bar AX105931 must be used</small>
KeyConnect Angled Modular Patch Panels (Empty)	
KeyConnect Angled Patch Panel, 24-port, 1U, Black (Empty)	AX104599
KeyConnect Angled Patch Panel, 48-port, 2U, Black (Empty)	AX104601
KeyConnect Angled Patch Panel, 48-port, 1U, Black (Empty)	AX104600

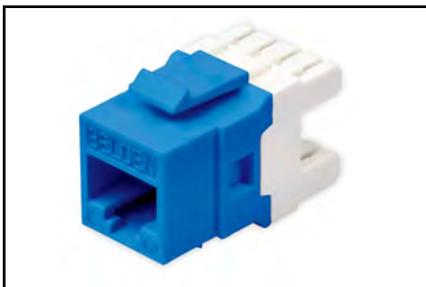
Faster.
Easier.
Better.

Category 6, Connectors, Tools and Accessories

REVConnect, KeyConnect



REVConnect Jacks Available in 19 Colors



AX104193, KeyConnect Jack



RVUTT01, REVConnect Termination Tool; includes one Cable Prep Tool and spare blade set

CAT6+ Connectors are available in two termination styles: Belden's new REVConnect System and standard punchdown in KeyConnect. REVConnect and KeyConnect have a keystone footprint and are designed to be used with any KeyConnect Patch Panels and with KeyConnect or MediaFlex Workstation Outlets.

Benefits

- REVConnect: Safe connectivity for air-handling spaces
- REVConnect: Offers great versatility and labor savings
- Easy termination and network administration
- Performance margins for all Gigabit network applications

Features

- REVConnect: Plenum rated - meets UL 2043 requirements
- REVConnect: Requires no pair separation; the best connector for Bonded-Pair and Nonbonded-Pair cable
- REVConnect: Terminates four pairs simultaneously with REVConnect Universal Termination Tool
- KeyConnect: Compatible with Belden's Rapid Termination Tool
- Meets and exceeds all Category 6 component performance

Category 6, CAT6+ Modular Jacks

Color	Belden Part Number			
	REVConnect Jacks		Punchdown Jacks	
	Single Pack	Bulk Pack (24 Connectors)	KeyConnect	Bulk Pack (24 Connectors)
Gray	RV6MJKUGY-S1	RV6MJKUGY-B24	AX101318	AX101318-B24
Almond	RV6MJKUAL-S1	RV6MJKUAL-B24	AX101319	AX101319-B24
Electric White	RV6MJKUEW-S1	RV6MJKUEW-B24	AX101320	AX101320-B24
Black	RV6MJKUBK-S1	RV6MJKUBK-B24	AX101321	AX101321-B24
Ivory	RV6MJKUIV-S1	RV6MJKUIV-B24	AX103076	AX103076-B24
Brown	RV6MJKUBR-S1	RV6MJKUBR-B24	AX104195	AX104195-B24
Red	RV6MJKURD-S1	RV6MJKURD-B24	AX104190	AX104190-B24
Orange	RV6MJKUOR-S1	RV6MJKUOR-B24	AX104189	AX104189-B24
Yellow	RV6MJKUYL-S1	RV6MJKUYL-B24	AX104191	AX104191-B24
Green	RV6MJKUGN-S1	RV6MJKUGN-B24	AX104192	AX104192-B24
Blue	RV6MJKUBL-S1	RV6MJKUBL-B24	AX104193	AX104193-B24
Purple	RV6MJKUPR-S1	RV6MJKUPR-B24	AX104194	AX104194-B24
TIA Brown	RV6MJKUTN-S1	RV6MJKUTN-B24	AX101328	—
TIA Red	RV6MJKUTR-S1	RV6MJKUTR-B24	AX101323	—
TIA Orange	RV6MJKUTO-S1	RV6MJKUTO-B24	AX101322	—
TIA Yellow	RV6MJKUTY-S1	RV6MJKUTY-B24	AX101324	—
TIA Green	RV6MJKUTG-S1	RV6MJKUTG-B24	AX101325	—
TIA Blue	RV6MJKUTB-S1	RV6MJKUTB-B24	AX101326	—
TIA Purple	RV6MJKUTP-S1	RV6MJKUTP-B24	AX101327	—

REVConnect Plugs, Tools and Accessories

Description	Belden Part Number
CAT6+ REVConnect Plugs	
CAT6+ UTP REVConnect FlexPlug, Black	RV6FFPUBK18-S1
CAT6+ UTP REVConnect FlexPlug, Electric White	RV6FFPUEW18-S1
REVConnect Termination Tool and Accessories	
Universal Termination Tool	RVUTT01
Tool Blade Replacement Set	RVUTB01
Tool Belt Clip	RVUTC01
Replacement Cable Prep Tool	RVUCT01
REVConnect Spare Cores	
Replacement Caps and Cable Managers (50 of each in pack)	RVUCOEW-B50

KeyConnect Replacement T-Bars

Description	Belden Part Number
Replacement T-Bars, bag of 24 pieces	PX103356R

Category 6, UTP Modular Cords

Nonbonded-Pair Cords & Pigtails

The CAT6+ Series of patch Cords are made with Belden's high performance stranded patch cables these modular cords offer the best combination of transmission performance and physical integrity

Features

- Stranded conductor improve Flexibility
- Improved strain relief and a flexible boot for optimum protection in high-density installations

Benefits

- Exceeds TIA and ISO transmission and mechanical performance requirements



CAT 6 Assembled Modular Cords

Category 6, Overmolded Modular Patch Cords

Description	Belden Part Number								
	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
CAT6 Unshielded Modular Cords, 4-Pair, 24 AWG Stranded, PVC									
1 ft	C6P9102001F	C6P9103001F	C6P9104001F	C6P9105001F	C6P9106001F	C6P9107001F	C6P9108001F	C6P9109001F	C6P9110001F
2 ft	C6P9102002F	C6P9103002F	C6P9104002F	C6P9105002F	C6P9106002F	C6P9107002F	C6P9108002F	C6P9109002F	C6P9110002F
3 ft	C6P9102003F	C6P9103003F	C6P9104003F	C6P9105003F	C6P9106003F	C6P9107003F	C6P9108003F	C6P9109003F	C6P9110003F
x ft (1-65 ft)	C6P9102xxxF	C6P9103xxxF	C6P9104xxxF	C6P9105xxxF	C6P9106xxxF	C6P9107xxxF	C6P9108xxxF	C6P9109xxxF	C6P9110xxxF
1 m	C6P9102001M	C6P9103001M	C6P9104001M	C6P9105001M	C6P9106001M	C6P9107001M	C6P9108001M	C6P9109001M	C6P9110001M
2 m	C6P9102002M	C6P9103002M	C6P9104002M	C6P9105002M	C6P9106002M	C6P9107002M	C6P9108002M	C6P9109002M	C6P9110002M
3 m	C6P9102003M	C6P9103003M	C6P9104003M	C6P9105003M	C6P9106003M	C6P9107003M	C6P9108003M	C6P9109003M	C6P9110003M
x m (1-20 m)	C6P9102xxxM	C6P9103xxxM	C6P9104xxxM	C6P9105xxxM	C6P9106xxxM	C6P9107xxxM	C6P9108xxxM	C6P9109xxxM	C6P9110xxxM
CAT6 Unshielded Modular Cords, 4-Pair, 24 AWG Stranded, LSZH									
1 ft	C6P4102001F	C6P4103001F	C6P4104001F	C6P4105001F	C6P4106001F	C6P4107001F	C6P4108001F	C6P4109001F	C6P4110001F
2 ft	C6P4102002F	C6P4103002F	C6P4104002F	C6P4105002F	C6P4106002F	C6P4107002F	C6P4108002F	C6P4109002F	C6P4110002F
3 ft	C6P4102003F	C6P4103003F	C6P4104003F	C6P4105003F	C6P4106003F	C6P4107003F	C6P4108003F	C6P4109003F	C6P4110003F
x ft (1-65 ft)	C6P4102xxxF	C6P4103xxxF	C6P4104xxxF	C6P4105xxxF	C6P4106xxxF	C6P4107xxxF	C6P4108xxxF	C6P4109xxxF	C6P4110xxxF
1 m	C6P4102001M	C6P4103001M	C6P4104001M	C6P4105001M	C6P4106001M	C6P4107001M	C6P4108001M	C6P4109001M	C6P4110001M
2 m	C6P4102002M	C6P4103002M	C6P4104002M	C6P4105002M	C6P4106002M	C6P4107002M	C6P4108002M	C6P4109002M	C6P4110002M
3 m	C6P4102003M	C6P4103003M	C6P4104003M	C6P4105003M	C6P4106003M	C6P4107003M	C6P4108003M	C6P4109003M	C6P4110003M
x m (1-20 m)	C6P4102xxxM	C6P4103xxxM	C6P4104xxxM	C6P4105xxxM	C6P4106xxxM	C6P4107xxxM	C6P4108xxxM	C6P4109xxxM	C6P4110xxxM

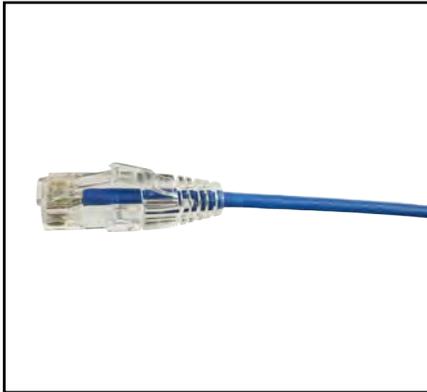
Category 6, Assembled Modular Patch Cords

Description	Belden Part Number									
	Brown	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
CAT6 Unshielded Assembled Cords, 4-Pair, 24 AWG Stranded, LSZH										
0.5 m	C6541010D5M	C6541020D5M	C6541030D5M	C6541040D5M	C6541050D5M	C6541060D5M	C6541070D5M	C6541080D5M	C6541090D5M	C6541100D5M
1 m	C654101001M	C654102001M	C654103001M	C654104001M	C654105001M	C654106001M	C654107001M	C654108001M	C654109001M	C654110001M
2 m	C654101002M	C654102002M	C654103002M	C654104002M	C654105002M	C654106002M	C654107002M	C654108002M	C654109002M	C654110002M
3 m	C654101003M	C654102003M	C654103003M	C654104003M	C654105003M	C654106003M	C654107003M	C654108003M	C654109003M	C654110003M
5 m	C654101005M	C654102005M	C654103005M	C654104005M	C654105005M	C654106005M	C654107005M	C654108005M	C654109005M	C654110005M
10 m	C654101010M	C654102010M	C654103010M	C654104010M	C654105010M	C654106010M	C654107010M	C654108010M	C654109010M	C654110010M
1 ft	C654101001F	C654102001F	C654103001F	C654104001F	C654105001F	C654106001F	C654107001F	C654108001F	C654109001F	C654110001F

Category 6, Tailored Pigtails

C6	P	9	2	06	004F
Performance	Shielding Type	Jacket Material	Termination	Colors	Length
C6 Category 6	P UTP, 4Pr24AWG	9 PVC 4 LSZH	2 TIA-A Pigtail 3 TIA-B Pigtail	02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Gray 09 White 10 Black	002 to 065F F Feet 001 to 020M M Meter

Faster.
Easier.
Better.



CAT6+ Small-Diameter Patch Cords

Category 6, Small-Diameter Patch Cords

Nonbonded-Pair (28 AWG)

CAT6+ Small-Diameter Patch Cords offer a great solution for large data center cross-connects and server enclosures, as well as for enterprise networks installed in crowded telecom rooms. The 28 AWG stranded conductors provide standards-compliant performance when up to 20.7 ft (6.3 m) of patch cord is used in a standard 295 ft (90 m) channel.

Benefits

- Reduces congestion and allows tight bend radius and improved airflow
- Easier access for maintenance
- Improves overall network administration

Category 6, Small-Diameter Patch Cords

Description	Belden Part Number									
	Nonbonded-Pair									
Length	Brown	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
4PR, 28 AWG, CAT6, UTP, LSZH, Stranded Small-Diameter Patch Cord										
0.5 m	C6D4Z1010D5M	C6D4Z1020D5M	C6D4Z1030D5M	C6D4Z1040D5M	C6D4Z1050D5M	C6D4Z1060D5M	C6D4Z1070D5M	C6D4Z1080D5M	C6D4Z1090D5M	C6D4Z1000D5M
1 m	C6D4Z101001M	C6D4Z102001M	C6D4Z103001M	C6D4Z104001M	C6D4Z105001M	C6D4Z106001M	C6D4Z107001M	C6D4Z108001M	C6D4Z109001M	C6D4Z100001M
2 m	C6D4Z101002M	C6D4Z102002M	C6D4Z103002M	C6D4Z104002M	C6D4Z105002M	C6D4Z106002M	C6D4Z107002M	C6D4Z108002M	C6D4Z109002M	C6D4Z100002M
3 m	C6D4Z101003M	C6D4Z102003M	C6D4Z103003M	C6D4Z104003M	C6D4Z105003M	C6D4Z106003M	C6D4Z107003M	C6D4Z108003M	C6D4Z109003M	C6D4Z100003M
5 m	C6D4Z101005M	C6D4Z102005M	C6D4Z103005M	C6D4Z104005M	C6D4Z105005M	C6D4Z106005M	C6D4Z107005M	C6D4Z108005M	C6D4Z109005M	C6D4Z100005M
10 m	C6D4Z101010M	C6D4Z102010M	C6D4Z103010M	C6D4Z104010M	C6D4Z105010M	C6D4Z106010M	C6D4Z107010M	C6D4Z108010M	C6D4Z109010M	C6D4Z100010M
1 ft	C6D4Z101001F	C6D4Z102001F	C6D4Z103001F	C6D4Z104001F	C6D4Z105001F	C6D4Z106001F	C6D4Z107001F	C6D4Z108001F	C6D4Z109001F	C6D4Z100001F

Category 6, Tailored Small-Diameter Patch Cords

C6	D4Z	1	06	002M																																				
Performance	Cable	Termination	Colors	Length																																				
C6 Category 6	D4Z UTP, Nonbonded-Pair, 28 AWG Stranded, LSZH	<table border="1"> <tr><td>1</td><td>T568A/B - T568A/B</td></tr> <tr><td>2</td><td>T568A - OPEN</td></tr> <tr><td>3</td><td>T568B - OPEN</td></tr> <tr><td>4</td><td>Crossover T568A-T568B</td></tr> <tr><td>5</td><td>Crossover IEEE</td></tr> <tr><td>6</td><td>Rollover</td></tr> </table>	1	T568A/B - T568A/B	2	T568A - OPEN	3	T568B - OPEN	4	Crossover T568A-T568B	5	Crossover IEEE	6	Rollover	<table border="1"> <tr><td>01</td><td>Brown</td></tr> <tr><td>02</td><td>Red</td></tr> <tr><td>03</td><td>Orange</td></tr> <tr><td>04</td><td>Yellow</td></tr> <tr><td>05</td><td>Green</td></tr> <tr><td>06</td><td>Blue</td></tr> <tr><td>07</td><td>Purple</td></tr> <tr><td>08</td><td>Gray</td></tr> <tr><td>09</td><td>White</td></tr> <tr><td>00</td><td>Black</td></tr> </table>	01	Brown	02	Red	03	Orange	04	Yellow	05	Green	06	Blue	07	Purple	08	Gray	09	White	00	Black	<table border="1"> <tr><td>002 to 065F</td><td>F Feet</td></tr> <tr><td>001 to 020M</td><td>M Meter</td></tr> </table>	002 to 065F	F Feet	001 to 020M	M Meter
1	T568A/B - T568A/B																																							
2	T568A - OPEN																																							
3	T568B - OPEN																																							
4	Crossover T568A-T568B																																							
5	Crossover IEEE																																							
6	Rollover																																							
01	Brown																																							
02	Red																																							
03	Orange																																							
04	Yellow																																							
05	Green																																							
06	Blue																																							
07	Purple																																							
08	Gray																																							
09	White																																							
00	Black																																							
002 to 065F	F Feet																																							
001 to 020M	M Meter																																							

Example:

C6D4Z106001M – CAT6 Small – Diameter Patch Cord, UTP, LSZH, 28AWG Stranded, T568A/B-T568A/B, Blue, 1M

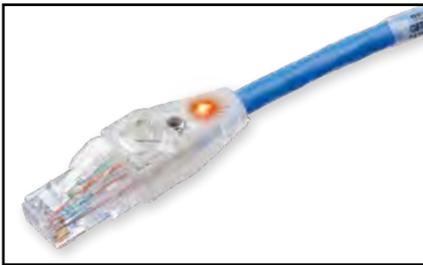
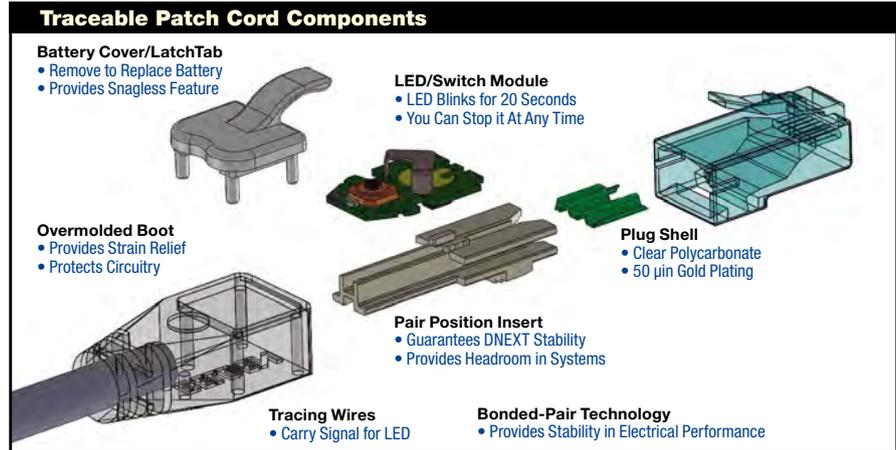
Category 6, Traceable Patch Cords

Bonded-Pair

CAT6+ Traceable Patch Cords feature a highly efficient, bright LED with a battery life expectancy of seven years, or 1,000 activations (battery is also replaceable). When activated, the LED blinks for 20 seconds and can be stopped at any time with a second press of the button. The LED and its tracing wires are integrated right into the patch cord, eliminating the need for a separate power source.

Features

- Belden Bonded-Pair technology for extra robustness, performance and reliability
- Barcode tagging on each end of the cord is compatible with DCIM systems
- 100% factory tested and certified



CAT6+ Traceable Patch Cord

Category 6, CAT6+ Traceable Patch Cords

Description	Belden Part Number					
	Bonded-Pair					
Length	Yellow	Green	Blue	Gray	White	Black
CAT6+ Traceable Patch Cords, UTP, 4-Pair, 24 AWG Solid, T568A/B-T568A/B, Riser-CMR						
2 ft (0.6 m)	C6T1104002	C6T1105002	C6T1106002	C6T1108002	C6T1109002	C6T1100002
4 ft (1.2 m)	C6T1104004	C6T1105004	C6T1106004	C6T1108004	C6T1109004	C6T1100004
7 ft (2.1 m)	C6T1104007	C6T1105007	C6T1106007	C6T1108007	C6T1109007	C6T1100007
10 ft (3.0 m)	C6T1104010	C6T1105010	C6T1106010	C6T1108010	C6T1109010	C6T1100010
15 ft (4.6 m)	C6T1104015	C6T1105015	C6T1106015	C6T1108015	C6T1109015	C6T1100015
25 ft (7.6 m)	C6T1104025	C6T1105025	C6T1106025	C6T1108025	C6T1109025	C6T1100025
XXX ft	C6T1104XXX	C6T1105XXX	C6T1106XXX	C6T1108XXX	C6T1109XXX	C6T1100XXX

Use XXX to specify length in feet - 001-100 ft in increments of 1 ft, 105-295 ft in increments of 5 ft. For other configurations please refer to the configurator below.

Category 6, Tailored CAT6+ Traceable Patch Cords

C6	T1	1	06	007
Performance	Cable	Termination	Colors	Length
C6 Category 6, CAT6+	T1 Traceable, UTP, Bonded-Pair, 24 AWG Solid, CMR	1 T568A/B-T568A/B 4 Crossover T568A -T568B 5 Crossover IEEE 6 Rollover	01 Brown 02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Gray 09 White 00 Black	12 TIA Red 13 TIA Orange 14 TIA Yellow 15 TIA Green 16 TIA Blue 17 TIA Purple
				001 1 ft (0.3 m) 002 2 ft (0.6 m) 003 3 ft (0.9 m) 004 4 ft (1.2 m) 005 5 ft (1.5 m) XXX XXX ft

Notes:

Use XXX to specify length in feet - 001-100 ft in increments of 1 ft, 105-295 ft in increments of 5 ft.

Example:

C6T1106007 – CAT6+ Traceable Patch Cord, UTP, Bonded-Pair, 24 AWG Solid, CMR T568A/B-T568A/B, Blue, 7 ft (2.1 m)

Faster.
Easier.
Better.

Category 6, Lockable Patch Cords

Nonbonded-Pair



Category 6 Lockable Cords

Belden's CL6Pxxx series products constructed of UTP Cord terminated with enhanced performance modular plug on both ends. A latch is molded with connector boot which enhanced product physical security. All products can be delivered for different length and colors. The wiring scheme can be customized both for T568A and T568B

Benefits

- Reduces congestion and allows tight bend radius and improved airflow
- Easier access for maintenance
- Improves overall network administration

Category 6, Lockable Patch Cords

Description	Belden Part Number								
	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
4PR, 26 AWG, CAT6, UTP, PVC, Stranded Lockable Patch Cord									
2 ft (0.6 m)	CL6P9102002F	CL6P9103002F	CL6P9104002F	CL6P9105002F	CL6P9106002F	CLCP9107002F	CL6P9108002F	CL6P9109002F	CL6P9110002F
4 ft (1.2 m)	CL6P9102004F	CL6P9103004F	CL6P9104004F	CL6P9105004F	CL6P9106004F	CLCP9107004F	CL6P9108004F	CL6P9109004F	CL6P9110004F
7 ft (2.1 m)	CL6P9102007F	CL6P9103007F	CL6P9104007F	CL6P9105007F	CL6P9106007F	CLCP9107007F	CL6P9108007F	CL6P9109007F	CL6P9110007F
10 ft (3.0 m)	CL6P9102010F	CL6P9103010F	CL6P9104010F	CL6P9105010F	CL6P9106010F	CLCP9107010F	CL6P9108010F	CL6P9109010F	CL6P9110010F
15 ft (4.6 m)	CL6P9102015F	CL6P9103015F	CL6P9104015F	CL6P9105015F	CL6P9106015F	CLCP9107015F	CL6P9108015F	CL6P9109015F	CL6P9110015F
25 ft (7.6 m)	CL6P9102025F	CL6P9103025F	CL6P9104025F	CL6P9105025F	CL6P9106025F	CLCP9107025F	CL6P9108025F	CL6P9109025F	CL6P9110025F
4PR, 26 AWG, CAT6, UTP, LSZH, Stranded Lockable Patch Cord									
2 ft (0.6 m)	CL6P4102002F	CL6P4103002F	CL6P4104002F	CL6P4105002F	CL6P4106002F	CL6P4107002F	CL6P4108002F	CL6P4109002F	CL6P4110002F
4 ft (1.2 m)	CL6P4102004F	CL6P4103004F	CL6P4104004F	CL6P4105004F	CL6P4106004F	CL6P4107004F	CL6P4108004F	CL6P4109004F	CL6P4110004F
7 ft (2.1 m)	CL6P4102007F	CL6P4103007F	CL6P4104007F	CL6P4105007F	CL6P4106007F	CL6P4107007F	CL6P4108007F	CL6P4109007F	CL6P4110007F
10 ft (3.0 m)	CL6P4102010F	CL6P4103010F	CL6P4104010F	CL6P4105010F	CL6P4106010F	CL6P4107010F	CL6P4108010F	CL6P4109010F	CL6P4110010F
15 ft (4.6 m)	CL6P4102015F	CL6P4103015F	CL6P4104015F	CL6P4105015F	CL6P4106015F	CL6P4107015F	CL6P4108015F	CL6P4109015F	CL6P4110015F
25 ft (7.6 m)	CL6P4102025F	CL6P4103025F	CL6P4104025F	CL6P4105025F	CL6P4106025F	CL6P4107025F	CL6P4108025F	CL6P4109025F	CL6P4110025F

*The key should be purchased separately (the PN for key is AP100010)

Category 6, Tailored Lockable Patch Cords

CL6	P	9	1	06	004F
Performance	Shielding Type	Jacket Material	Termination	Colors	Length
CL6 Category 6	P UTP	9 PVC 4 LSZH	1 Cord (T568 B) 4 Cord (T568 A)	02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Grey 09 White 10 Black	002 to 065F F Feet 001 to 020M M Meter

Category 6, REVConnect Pre-Terminated Cabling System

Couplers and Cable Assemblies

The Pre-Terminated Cabling System guarantees Category 6 performance and headroom without tradeoffs or compromises on performance or reliability.

Proven modular components are the cornerstone of the system, including REVConnect Pre-Term Assemblies and CAT6+ REVConnect Couplers, Jacks and/or RJ45 Plugs. Bonded-Pair technology ensures that the cable assemblies

offer exceptional structural stability and unflinching electrical performance. The patented Dual-Flex design ensures controlled plug/jack mated connections on both sides of the coupler. This provides an uninterrupted electrical path for superior connector reliability and transmission performance.



CAT6+ REVConnect Pre-Terminated Cable Assemblies

Category 6, CAT6+ REVConnect Preloaded Patch Panels

Description	Belden Part Number	
	Black	White
Category 6 Preloaded Patch Panels		
CAT6+ REVConnect Patch Panel 24-port, 1U (Preloaded)	RV6PPF1U24WH	RV6PPF1U24BK
CAT6+ REVConnect Patch Panel 48-port, 2U (Preloaded)	RV6PPF2U48WH	RV6PPF2U48BK
CAT6+ REVConnect Angled Patch Panel 24-port, 1U (Preloaded)	RV6PPA1U24WH	RV6PPA1U24BK
CAT6+ REVConnect Angled Patch Panel 48-port, 2U (Preloaded)	RV6PPA2U48WH	RV6PPA2U48BK



CAT6+ REVConnect Pre-Terminated Cable Assembly (1 cable)

Category 6, CAT6+ REVConnect Pre-Terminated Assemblies

Bundle Type	# of Cables	Category	Unshielded/ Shielded	Termination Type	Wiring Scheme	Fire Rating	Colors	Length	
C	B	06	6	U	C	T	R	B	006
B Braided Sleeve	01 1 Cable	6 Cat6	U FTP (F/UTP)	C RC Core to Core	T T568A/B–T568A/B	R Riser	B Blue	006 6 ft (1.8 m)	
N* No Sleeve, Single Cable, Core to Core	06 6 Cables	A Cat6A		1 RC Core to RJ45 Plug	A T568A-OPEN	P Plenum	S Gray	007 7 ft (2.1 m)	
	08 8 Cables			3 RC Core to Open	B T568B-OPEN		W White	008 8 ft (2.4 m)	
	12 12 Cables						N Black	009 9 ft (2.7 m)	
								010 10 ft (3 m)	
								XXX XXX ft	

Notes:

Use **XXX** to specify length in feet 006-100 ft in increments of 1 ft, 105-295 ft in increments of 5 ft.

*Selection N is only available with **01**=1 Cable and **C**=Core to Core in length in feet 001-100 ft in increments of 1 ft, 105-295 ft in increments of 5 ft.

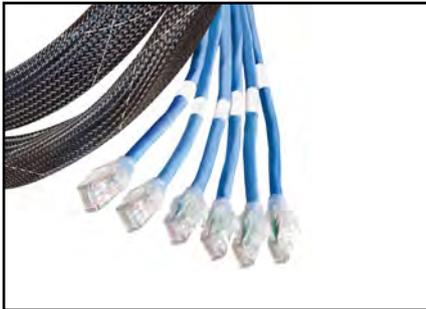
Example:

CB066UCTRB006 – CAT6+ REVConnect Pre-Terminated Trunk, Braided Sleeve, 6 Cables, CAT6+, Unshielded, Core to Core, T568A/B, Riser, Blue Jacket, 6 ft.

Faster.
Easier.
Better.

Category 6, Pre-Terminated Cabling System

Cable Assemblies, Couplers, Patch Panels



3600 Pre-Terminated Cable Assembly

Belden's CAT6+Pre-Terminated Cabling System delivers rapid deployment coupled with guaranteed Category 6 performance and headroom, without the need for tradeoffs or compromise in performance and reliability. Bringing a new level of ease and convenience to cabling system design, ordering and installation, the system allows users to deploy their high-performance cabling networks with optimal speed and efficiency.

Proven modular components are the cornerstone of the system. These include the CAT6+ Pre-Terminated Cable Assemblies and the CAT6+ RJ45 Modular Couplers. These components rely on unique enabling

technologies: Belden's Bonded-Pair technologies ensure that the cable assemblies boast exceptional structural stability and unflinching electrical performance; and the patent-pending plug management bar design which allows for very good control of the internal plug NEXT and superior plug/jack mated-pair performance.

With simple planning, easy ordering and rapid delivery, the CAT6+ Pre-Terminated Cabling System can reduce installation time and labor costs by as much as 90 percent. In addition, this "green" system provides for plug-and-play installation and component reusability, resulting in lower installed cost and less waste.



CAT6+ RJ45 Coupler

Category 6, CAT 6+ Pre-Terminated Cabling System

Description	Belden Part Number	
	6-Cable	8-Cable
CAT6+ Pre-Terminated Cable Assembly, Bonded-Pair, 4-Pair, 23 AWG		
CMR, Black	C601100xxxA06	C601100xxxA08
CMR, Blue	C601106xxxA06	C601106xxxA08
CMR, White	C601109xxxA06	C601109xxxA08
CMP, Black	C602100xxxA06	C602100xxxA08
CMP, Blue	C602106xxxA06	C602106xxxA08
CMP, White	C602109xxxA06	C602109xxxA08

Use xxx to specify length in feet - 006-050 ft in increments of 1 ft - 055-295 ft in increments of 5 ft



CAT6+ KeyConnect Coupler Patch Panel (Preloaded)

Category 6, CAT 6+KeyConnect Patch Panels

Description	Belden Part Number
KeyConnect Modular Patch Panels (Empty)	
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Patch Panel, 24-port, 1U, Black (Empty)	AX106504-AP back support bar AX105931 must be used
KeyConnect Universal Patch Panel, 48-port, 2U, Black (Empty)	AX106505-AP back support bar AX105931 must be used
KeyConnect Modular Patch Panel, 48-port, 1U, Black (Empty)	AX103121
Back support bar	AX105931
KeyConnect AngleFlex Modular Patch Panels (Empty)	
KeyConnect AngleFlex Patch Panel, 24-port, 1U, Black (Empty)	AP103248 back support bar AX105931 must be used
KeyConnect AngleFlex Patch Panel, 48-port, 2U, Black (Empty)	AP103249 back support bar AX105931 must be used
KeyConnect Angled Modular Patch Panels (Empty)	
KeyConnect Angled Patch Panel, 24-port, 1U, Black (Empty)	AX104599
KeyConnect Angled Patch Panel, 48-port, 2U, Black (Empty)	AX104601
KeyConnect Angled Patch Panel, 48-port, 1U, Black (Empty)	AX104600



KeyConnect Universal Patch Panel with Shutter (Empty)

Category 6, CAT 6+KeyConnect RJ45 Coupler

Belden Part Number						
Orange	Red	Yellow	Green	Blue	White	Black
AX104206	AX104207	AX104208	AX104209	AX104210	AX104214	AX104215

Category 6, GigaBIX IDC System

Kits, Components, Patch Cords and Accessories

The Belden GigaBIX Cross-Connect System takes advantage of the proven reliability of BIX technology to provide high-performance connections for data networks. This uniquely designed system allows for very high termination density, while maintaining optimal ease of administration to accommodate moves, adds and changes.

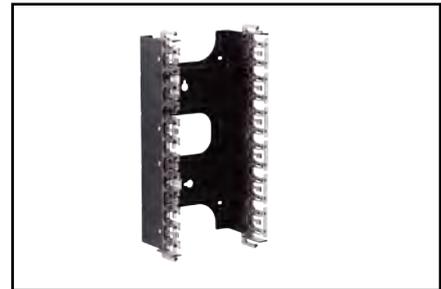
Advantage of the Belden GigaBIX Cross-Connect System include easy installation and cable management, coupled with the industry's best performance-to-price ratio for high-density connectivity. The system allow up to 300 pairs to be terminated in a very small area—a real space-saving advantage in today's office environment where real estate is at a premium.

Category 6, GigaBIX IDC System

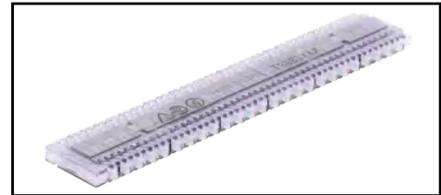
Description	Belden Part Number
GigaBIX Termination Kits	
GigaBIX Termination Kit, 72-port	AX101470
GigaBIX Termination Kit, 300-pair	AX101471
GigaBIX Rack Mount Termination Kit, 48-port	AX101985
GigaBIX Connecting Components	
GigaBIX Connector, 6-port	AX101447
GigaBIX Connector, 25-pair	AX101448
GigaBIX Mount, 12-connector	AX101472
GigaBIX Wire Guard	AX101486
GigaBIX Designation Strip	AX101483
GigaBIX Termination Bar	AX101719
GigaBIX Cable Management Accessories	
GigaBIX Cable Management Module	AX101469
GigaBIX Patch Cord Organizer	AX101468
GigaBIX Patch Cord Organizer, Cover	AX101521
GigaBIX Horizontal Channel Plate	AX101520
GigaBIX Management Ring	AX101478
GigaBIX/MediaFlex Adapter	AX101987
10GX IDC Connecting Block Holder 6 positions	AX102677
GigaBIX Color-Coded Clip, Red	AX102151
GigaBIX Color-Coded Clip, Yellow	AX102152
GigaBIX Color-Coded Clip, Green	AX102153
GigaBIX Color-Coded Clip, Blue	AX102154
GigaBIX Color-Coded Clip, Gray	AX102146
GigaBIX Color-Coded Clip, White	AX102148
GigaBIX Color-Coded Clip, Black	AX102149
GigaBIX Frames and Accessories	
GigaBIX Frame, 1152 ports/4800 pairs	AX102073
GigaBIX Deep Frame, 1152 ports/4800 pairs	AX104474
GigaBIX Frame End Kit	AX102082
GigaBIX Frame Overhead Kit	AX102145
Cross-Connect Wire	
GigaBIX 4-pair XC Wire, Reel-in-a-Box	XCGB4 000A1000
GigaBIX 4-pair XC Wire, Reel	XCGB4 000I000

Category 6, CAT6+ GigaBIX Patch Cords

Description	Belden Part Number		
	BIX-BIX	BIX-8MOD T568A-ISDN	BIX-8MOD T568B-ALT
4 ft (1.2m)	AX101945	AX101951	AX101957
6 ft (1.8m)	AX101946	AX101952	AX101958
8 ft (2.4m)	AX101947	AX101953	AX101959
10 ft (3.0m)	AX101948	AX101954	AX101960
15 ft (4.6m)	AX101949	AX101955	AX101961
25 ft (7.6m)	AX101950	AX101956	AX101962



GigaBIX Termination Kit, 72-port



GigaBIX Connector, 6-port



CAT6+ GigaBIX Patch Cord, BIX-BIX, 4 ft



GigaBIX Cable Management Module

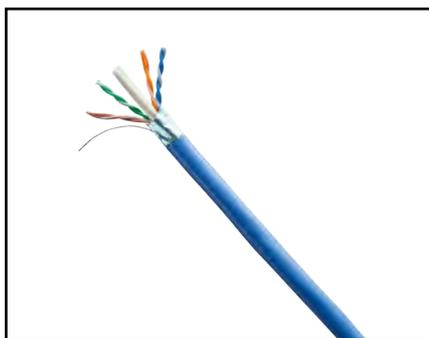


GigaBIX Patch Cord Organizer

Faster.
Easier.
Better.

Category 6, DataTwist 7815 Shielded Cables

Nonbonded-Pair



7815A Shielded Cable

Shielded Cable consists of 4-pair F/UTP cables that exceed Category 6 requirements as per ANSI/TIA-568.2-D. When used as the horizontal cable in the Belden Shielded System, the channel provides at least 250 MHz of

bandwidth. DataTwist 7815 F/UTP shielded cable has a thick, 100% coverage foil shield. This shield protects your system from harsh EMI environments improving your data through put.

Category 6, Shielded Cables

Belden Part Number	Color	Length	Packaging	No. of Packages Per Pallet	Total Length Per Pallet
CAT6 Shielded Cables, F/UTP, 4-Pair, 24 AWG, PVC, CM					
7815A 002305M	Red	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815A 003305M	Orange	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815A 004305M	Yellow	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815A 005305M	Green	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815A 006305M	Blue	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815A 008305M	Gray	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815A 009305M	White	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
CAT6 Shielded Cables, F/UTP, 4-Pair, 24 AWG, LSZH, IEC 60332-1					
7815ANH 002305M	Red	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815ANH 003305M	Orange	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815ANH 004305M	Yellow	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815ANH 005305M	Green	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815ANH 006305M	Blue	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815ANH 008305M	Gray	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)
7815ANH 009305M	White	1000 ft (305 m)	Spool	18 spools/pallet	18000 ft (5490 m)

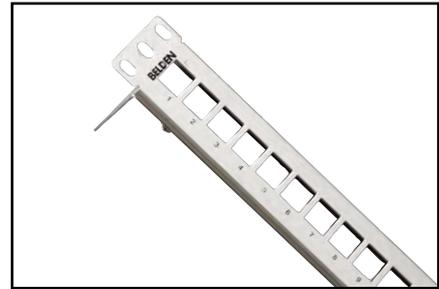
Category 6, Shielded Patch Panels and Shielded Modular Jacks

KeyConnect and Modular

CAT6+ Shielded Patch Panels provide a flexible, versatile and high-density termination solution for data center and telecom room installations. They come with a ground wire to guarantee shielding integrity (per ANSI/TIA-607-C) and cable management brackets for neat cable dressing. They can be configured using 10GX Shielded Modular Jacks available in REVConnect and KeyConnect styles.

The CAT6+ REVConnect module is a rugged, easy-to-install connector. Its termination features a universal core that accepts a jack or plug to support connections in a keystone outlet or direct connections into devices.

CAT6+ Shielded Modular Patch Cords are designed to be used within the CAT6 Shielded System. They offer the best combination of transmission performance and shielding integrity.



Shielded Modular Patch Panel (Black Empty)

KeyConnect Shielded Patch Panels

Description	Belden Part Number
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Patch Panel, 24-port, 1U, Black (Empty)	AX106504-AP back support bar AX105931 must be used
KeyConnect Universal Patch Panel, 48-port, 2U, Black (Empty)	AX106505-AP back support bar AX105931 must be used
KeyConnect Shielded Angled Patch Panel, 24-Port, 1U, Titanium (Empty)	AX104622
KeyConnect Shielded Angled Patch Panel, 48-Port, 2U, Titanium (Empty)	AX104623
Back support bar	AX105931



CAT6+ Shielded KeyConnect Modular Jack

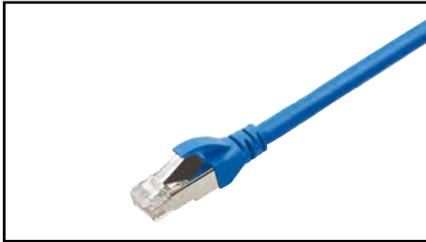
Category 6, CAT6+ Shielded Modular Jacks

Description	Belden Part Number
CAT6+ Shielded KeyConnect Modular Jack, Metallic	AX104596
CAT6+ Shielded REVConnect Modular Jack, Single Pack	RV6M.JKSME-S1
CAT6+ Shielded REVConnect Modular Jack, Bulk Pack	RV6M.JKSME-B24

Faster.
Easier.
Better.

Category 6, Shielded Modular Cords

Nonbonded-Pair, Patch Cords and Pigtails



CAT6 Shielded Modular Cord

The CAT6 Shielded Modular Cords are 4-pair 26 AWG modular cords designed to be used within the Belden Shielded System. These modular cords offer the best combination of transmission performance and shielding integrity.

Features

- Made with small diameter for greater flexibility and higher density installations
- Stranded conductors 26 AWG improve and are needed in long patch cords
- Improved strain relief and a flexible boot for optimum protection in high-density installations

Benefits

- Exceeds TIA transmission and mechanical performance requirements

Category 6, Shielded Modular Patch Cords

Description	Belden Part Number								
	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
CAT6 Shielded Modular Cord, 4-Pair, 26 AWG Stranded, PVC									
1 ft	C6C9102001F	C6C9103001F	C6C9104001F	C6C9105001F	C6C9106001F	C6C9107001F	C6C9108001F	C6C9109001F	C6C9110001F
2 ft	C6C9102002F	C6C9103002F	C6C9104002F	C6C9105002F	C6C9106002F	C6C9107002F	C6C9108002F	C6C9109002F	C6C9110002F
3 ft	C6C9102003F	C6C9103003F	C6C9104003F	C6C9105003F	C6C9106003F	C6C9107003F	C6C9108003F	C6C9109003F	C6C9110003F
x ft (1-65 ft)	C6C9102xxxF	C6C9103xxxF	C6C9104xxxF	C6C9105xxxF	C6C9106xxxF	C6C9107xxxF	C6C9108xxxF	C6C9109xxxF	C6C9110xxxF
1 m	C6C9102001M	C6C9103001M	C6C9104001M	C6C9105001M	C6C9106001M	C6C9107001M	C6C9108001M	C6C9109001M	C6C9110001M
2 m	C6C9102002M	C6C9103002M	C6C9104002M	C6C9105002M	C6C9106002M	C6C9107002M	C6C9108002M	C6C9109002M	C6C9110002M
3 m	C6C9102003M	C6C9103003M	C6C9104003M	C6C9105003M	C6C9106003M	C6C9107003M	C6C9108003M	C6C9109003M	C6C9110003M
x m (1-20 m)	C6C9102xxxM	C6C9103xxxM	C6C9104xxxM	C6C9105xxxM	C6C9106xxxM	C6C9107xxxM	C6C9108xxxM	C6C9109xxxM	C6C9110xxxM
CAT6 Shielded Modular Cords, 4-Pair, 26 AWG Stranded, LSZH									
1 ft	C6C4102001F	C6C4103001F	C6C4104001F	C6C4105001F	C6C4106001F	C6C4107001F	C6C4108001F	C6C4109001F	C6C4110001F
2 ft	C6C4102002F	C6C4103002F	C6C4104002F	C6C4105002F	C6C4106002F	C6C4107002F	C6C4108002F	C6C4109002F	C6C4110002F
3 ft	C6C4102003F	C6C4103003F	C6C4104003F	C6C4105003F	C6C4106003F	C6C4107003F	C6C4108003F	C6C4109003F	C6C4110003F
x ft	C6C4102xxxF	C6C4103xxxF	C6C4104xxxF	C6C4105xxxF	C6C4106xxxF	C6C4107xxxF	C6C4108xxxF	C6C4109xxxF	C6C4110xxxF
1 m	C6C4102001M	C6C4103001M	C6C4104001M	C6C4105001M	C6C4106001M	C6C4107001M	C6C4108001M	C6C4109001M	C6C4110001M
2 m	C6C4102002M	C6C4103002M	C6C4104002M	C6C4105002M	C6C4106002M	C6C4107002M	C6C4108002M	C6C4109002M	C6C4110002M
3 m	C6C4102003M	C6C4103003M	C6C4104003M	C6C4105003M	C6C4106003M	C6C4107003M	C6C4108003M	C6C4109003M	C6C4110003M
x m (1-20 m)	C6C4102xxxM	C6C4103xxxM	C6C4104xxxM	C6C4105xxxM	C6C4106xxxM	C6C4107xxxM	C6C4108xxxM	C6C4109xxxM	C6C4110xxxM

*Shielded lockable patch cords are also available on request

Category 6, Tailored Shielded Pigtails

C6	C	9	2	06	004F
Performance	Shielding Type	Jacket Material	Termination	Colors	Length
C6 Category 6	C Shielded	9 PVC 4 LSZH	2 TIA-A Pigtail 3 TIA-B Pigtail	02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Gray 09 White 10 Black	002 to 065F F Feet 001 to 020M M Meter

SECTION THREE Category 5E Systems

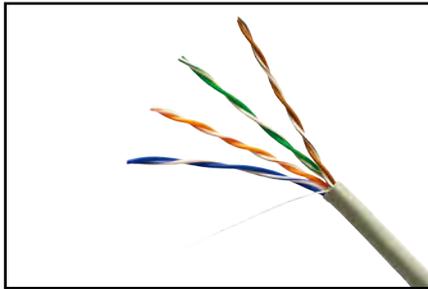
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Belden's Category 5E System is the best performing system available, exceeding all requirements for Category 5E performance. The system is comprised of CAT5E Cable, KeyConnect Patch Panels and CAT5E Modular Jacks and Cords. A BIX Cross-Connect System, 110 Cross-Connect System and end-to-end shielded system are also available as part of Belden's comprehensive Category 5E offering. The System features several Belden innovations that ease installation and management, ensure maximum performance and support a variety of environments

CAT5E KeyConnect Modular Jacks feature patented Encapsulated Lead Frame technology that offers excellent long-term reliability as well as extremely stable transmission performance.

Faster.
Easier.
Better.



Belden CAT 5E UTP Cables

Category 5E, Unshielded Cables

Nonbonded-Pair

DataTwist CAT5E Cable Series consists of 4-pair UTP cables that exceed Category 5E ANSI/TIA-568.2-D requirements

Applications

Premise Horizontal Cable, Gigabit Ethernet, 100Base TX, 100Base VG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422

Category 5E, Cables

Belden Part Number	Color	Length
CAT5E Cables, UTP, 4-Pair, 24 AWG Solid, CMR, 100MHz		
1583A 0021000	Red	1000 ft (305 m)
1583A 0031000	Orange	1000 ft (305 m)
1583A 0041000	Yellow	1000 ft (305 m)
1583A 0051000	Green	1000 ft (305 m)
1583A 0061000	Blue	1000 ft (305 m)
1583A 0081000	Gray	1000 ft (305 m)
1583A 0091000	White	1000 ft (305 m)
1583A 0101000	Black	1000 ft (305 m)
1583A 0121000	Pink	1000 ft (305 m)
CAT5E Cables, UTP, 4-Pair, 24 AWG Solid, CM, 100MHz		
AP1690 006U1000	Blue	1000 ft (305 m)
AP1690 008U1000	Gray	1000 ft (305 m)
CAT5E Cables, UTP, 4-Pair, 24 AWG Solid, LSZH, IEC 60332-1, 100MHz		
1583ANS 006U1000	Blue	1000 ft (305 m)
1583ANS 008U1000	Gray	1000 ft (305 m)

Category 5E, KeyConnect Patch Panels

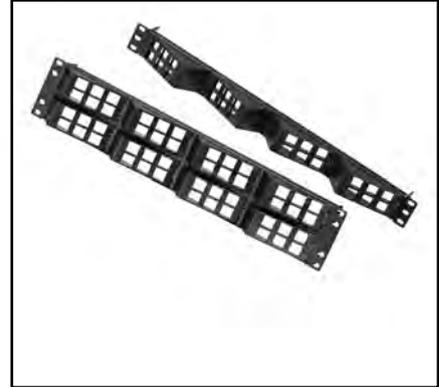
KeyConnect and Modular

The KeyConnect Patch Panels are a comprehensive line of robust all-metal, preloaded and modular patch panels. The series provides a flexible, versatile and high-density termination solution for Data Center and Telecommunications Room installations.

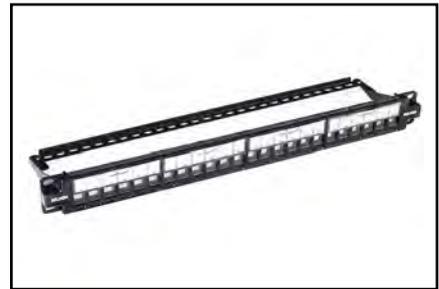
The modular KeyConnect Patch Panels are available in 24-port/1U, 48-port/2U and 48-port/1U configurations. Belden's unique KeyConnect AngleFlex Patch panels are also available in 24-port/1U and 48-port/2U and offer better port-density and patch cord manageability. These panels can be configured using any KeyConnect UTP or Multimedia Modules.

KeyConnect Modular Patch Panels

Description	Belden Part Number
KeyConnect Modular Patch Panels (Empty)	
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Panel, 24-port, 1U, Black (Empty)	AX106504-AP back support bar AX105931 must be used
KeyConnect Universal Panel, 24-port, 1U, Black (Empty)	AX106505-AP back support bar AX105931 must be used
KeyConnect Universal Panel, 48-port, 1U, Black (Empty)	AX103121
Back support bar	AX105931
KeyConnect AngleFlex Modular Patch Panels (Empty)	
KeyConnect AngleFlex Patch Panel, 24-port, 1U, Black (Empty)	AP103248 back support bar AX105931 must be used
KeyConnect AngleFlex Patch Panel, 48-port, 1U, Black (Empty)	AP103249 back support bar AX105931 must be used
KeyConnect Angled Modular Patch Panels (Empty)	
KeyConnect Angled Patch Panel, 24-port, 1U, Black (Empty)	AX104599
KeyConnect Angled Patch Panel, 48-port, 2U, Black (Empty)	AX104601
KeyConnect Angled Patch Panel, 48-port, 1U, Black (Empty)	AX104600



KeyConnect AngleFlex Patch Panels



KeyConnect Universal Patch Panel with Shutter (Empty)

Faster.
Easier.
Better.

Category 5E, Connectors, Tools and Accessories

REVConnect, KeyConnect



REVConnect Jack Housings available in 19 colors



REVConnect Termination Tool; includes one Cable Prep Tool and spare blade set



KeyConnect CAT5E Jack and T-Bar

CAT5E Connectors are available in two termination styles: Belden's new REVConnect System and standard punchdown in KeyConnect or styles. REVConnect and KeyConnect have a keystone footprint and are designed to be used with any KeyConnect Patch Panels and with KeyConnect or MediaFlex Workstation Outlets.

Benefits

- REVConnect: Safe connectivity for air-handling spaces
- REVConnect: Offers great versatility and labor savings
- Provides excellent durability and performance stability

Features

- REVConnect: Plenum rated - meets UL 2043 requirements
- REVConnect: Requires no pair separation; the best connector for Bonded-Pair and Nonbonded-Pair cable
- REVConnect: Terminates four pairs simultaneously with REVConnect Universal Termination Tool
- KeyConnect: Compatible with Belden's Rapid Termination Tool
- Meets and exceeds all Category 5E component performance

Category 5E, CAT5E Modular Jacks

Description	Belden Part Number			
	REVConnect Jacks		Punchdown Jacks	
Color	Single Pack	Bulk Pack (24 Connectors)	KeyConnect	Bulk Pack (24 Connectors)
Gray	RV5MJKUGY-S1	RV5MJKUGY-B24	AX101307	AX101307-B24
Almond	RV5MJKUAL-S1	RV5MJKUAL-B24	AX101308	AX101308-B24
Electric White	RV5MJKUEW-S1	RV5MJKUEW-B24	AX101309	AX101309-B24
Black	RV5MJKUBK-S1	RV5MJKUBK-B24	AX101310	AX101310-B24
Ivory	RV5MJKUIV-S1	RV5MJKUIV-B24	AX103079	AX103079-B24
Brown	RV5MJKUBR-S1	RV5MJKUBR-B24	AX104188	AX104188-B24
Red	RV5MJKURD-S1	RV5MJKURD-B24	AX104183	AX104183-B24
Orange	RV5MJKUOR-S1	RV5MJKUOR-B24	AX104182	AX104182-B24
Yellow	RV5MJKUYL-S1	RV5MJKUYL-B24	AX104184	AX104184-B24
Green	RV5MJKUGN-S1	RV5MJKUGN-B24	AX104185	AX104185-B24
Blue	RV5MJKUBL-S1	RV5MJKUBL-B24	AX104186	AX104186-B24
Purple	RV5MJKUPR-S1	RV5MJKUPR-B24	AX104187	AX104187-B24
TIA Brown	RV5MJKUTN-S1	RV5MJKUTN-B24	AX101317	—
TIA Red	RV5MJKUTR-S1	RV5MJKUTR-B24	AX101312	—
TIA Orange	RV5MJKUTO-S1	RV5MJKUTO-B24	AX101311	—
TIA Yellow	RV5MJKUTY-S1	RV5MJKUTY-B24	AX101313	—
TIA Green	RV5MJKUTG-S1	RV5MJKUTG-B24	AX101314	—
TIA Blue	RV5MJKUTB-S1	RV5MJKUTB-B24	AX101315	—
TIA Purple	RV5MJKUTP-S1	RV5MJKUTP-B24	AX101316	—

REVConnect Tools and Accessories

Description	Belden Part Number
Universal Termination Tool	RVUTT01
Tool Blade Replacement Set	RVUTB01
Tool Belt Clip	RVUTC01
Replacement Cable Prep Tool	RVUCT01
REVConnect Spare Cores	
Replacement Caps and Cable Managers (50 of each in pack)	RVUCOEW-B50

KeyConnect Replacement T-Bars

Description	Belden Part Number
Replacement T-Bars, bag of 24 pieces	PX103356R

Category 5E, Modular Cords

Nonbonded-Pair Cords & Pigtails

The CAT5E Series of Patch Cords are made with Belden's patented robust design cables. These modular cords offer the best combination of transmission performance and physical integrity.

Features

- Stranded conductor improve Flexibility
- Improved strain relief and a flexible boot for optimum protection in high-density installations



CAT 5E Assembled Modular Cords

Category 5E, Overmolded Modular Patch Cords

Description	Belden Part Number								
	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
CAT5E Patch Cord, Nonbonded-Pair, 4-Pair, 24 AWG Stranded, Unshielded, PVC									
2 ft	C5P9102002F	C5P9103002F	C5P9104002F	C5P9105002F	C5P9106002F	C5P9107002F	C5P9108002F	C5P9109002F	C5P9110002F
3 ft	C5P9102003F	C5P9103003F	C5P9104003F	C5P9105003F	C5P9106003F	C5P9107003F	C5P9108003F	C5P9109003F	C5P9110003F
4 ft	C5P9102004F	C5P9103004F	C5P9104004F	C5P9105004F	C5P9106004F	C5P9107004F	C5P9108004F	C5P9109004F	C5P9110004F
x ft (1-65 ft)	C5P9102xxxF	C5P9103xxxF	C5P9104xxxF	C5P9105xxxF	C5P9106xxxF	C5P9107xxxF	C5P9108xxxF	C5P9109xxxF	C5P9110xxxF
1 m	C5P9102001M	C5P9103001M	C5P9104001M	C5P9105001M	C5P9106001M	C5P9107001M	C5P9108001M	C5P9109001M	C5P9110001M
2 m	C5P9102002M	C5P9103002M	C5P9104002M	C5P9105002M	C5P9106002M	C5P9107002M	C5P9108002M	C5P9109002M	C5P9110002M
3 m	C5P9102003M	C5P9103003M	C5P9104003M	C5P9105003M	C5P9106003M	C5P9107003M	C5P9108003M	C5P9109003M	C5P9110003M
x m (1-20 m)	C5P9102xxxM	C5P9103xxxM	C5P9104xxxM	C5P9105xxxM	C5P9106xxxM	C5P9107xxxM	C5P9108xxxM	C5P9109xxxM	C5P9110xxxM
CAT5E Patch Cord, Nonbonded-Pair, 4-Pair, 24 AWG Stranded, Unshielded, LSZH									
2 ft	C5P4102002F	C5P4103002F	C5P4104002F	C5P4105002F	C5P4106002F	C5P4107002F	C5P4108002F	C5P4109002F	C5P4110002F
3 ft	C5P4102003F	C5P4103003F	C5P4104003F	C5P4105003F	C5P4106003F	C5P4107003F	C5P4108003F	C5P4109003F	C5P4110003F
4 ft	C5P4102004F	C5P4103004F	C5P4104004F	C5P4105004F	C5P4106004F	C5P4107004F	C5P4108004F	C5P4109004F	C5P4110004F
x ft (1-65 ft)	C5P4102xxxF	C5P4103xxxF	C5P4104xxxF	C5P4105xxxF	C5P4106xxxF	C5P4107xxxF	C5P4108xxxF	C5P4109xxxF	C5P4110xxxF
1 m	C5P4102001M	C5P4103001M	C5P4104001M	C5P4105001M	C5P4106001M	C5P4107001M	C5P4108001M	C5P4109001M	C5P4110001M
2 m	C5P4102002M	C5P4103002M	C5P4104002M	C5P4105002M	C5P4106002M	C5P4107002M	C5P4108002M	C5P4109002M	C5P4110002M
3 m	C5P4102003M	C5P4103003M	C5P4104003M	C5P4105003M	C5P4106003M	C5P4107003M	C5P4108003M	C5P4109003M	C5P4110003M
x m (1-20 m)	C5P4102xxxM	C5P4103xxxM	C5P4104xxxM	C5P4105xxxM	C5P4106xxxM	C5P4107xxxM	C5P4108xxxM	C5P4109xxxM	C5P4110xxxM

Category 5E, Assembled Modular Patch Cords

CAT5E Patch Cord, Nonbonded-Pair, 24 AWG Stranded, Unshielded, LSZH									
2 ft	C554102002F	C554103002F	C554104002F	C554105002F	C554106002F	C554107002F	C554108002F	C554109002F	C554100002F
3 ft	C554102003F	C554103003F	C554104003F	C554105003F	C554106003F	C554107003F	C554108003F	C554109003F	C554100003F
4 ft	C554102004F	C554103004F	C554104004F	C554105004F	C554106004F	C554107004F	C554108004F	C554109004F	C554100004F
x ft (1-65 ft)	C554102xxxF	C554103xxxF	C554104xxxF	C554105xxxF	C554106xxxF	C554107xxxF	C554108xxxF	C554109xxxF	C554100xxxF
0.5 m	C5541020D5M	C5541030D5M	C5541040D5M	C5541050D5M	C5541060D5M	C5541070D5M	C5541080D5M	C5541090D5M	C5541000D5M
1 m	C554102001M	C554103001M	C554104001M	C554105001M	C554106001M	C554107001M	C554108001M	C554109001M	C554100001M
2 m	C554102002M	C554103002M	C554104002M	C554105002M	C554106002M	C554107002M	C554108002M	C554109002M	C554100002M
3 m	C554102003M	C554103003M	C554104003M	C554105003M	C554106003M	C554107003M	C554108003M	C554109003M	C554100003M
x m (1-20 m)	C554102xxxM	C554103xxxM	C554104xxxM	C554105xxxM	C554106xxxM	C554107xxxM	C554108xxxM	C554109xxxM	C554100xxxM

Category 5E, Tailored Pigtails

C5	P	9	2	06	004F
Performance	Shielding Type	Jacket Material	Termination	Colors	Length
C5 Category 5E	P UTP	9 PVC 4 LSZH	2 TIA-A Pigtail 3 TIA-B Pigtail	02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Gray 09 White 10 Black	002 to 065F F Feet 001 to 020M M Meter

Faster.
Easier.
Better.



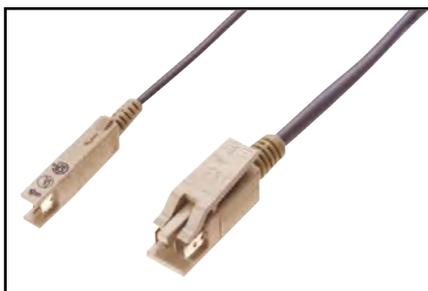
BIX Mount, 300-pair



BIX Mount, 300-pair



BIX Mount, 50-pair



BIX Patch Cord, 1-Pair and 2-Pair



B-Plus Cross-Connect Wire

BIX Cross-Connect System

Componets, Patch Cords, Wires and Accessories

The Belden IBDN BIX Cross-Connect System takes advantage of the proven reliability of BIX technology to provide high-performance connections for voice and data networks. This uniquely designed system allows for very high termination density, while maintaining optimal ease of administration to accommodate MACs.

Advantages of the Belden IBDN BIX CrossConnect System include easy installation and cable management, coupled with the industry's best performance-to-price ratio for high-density connectivity. The system allows for multiple mounting options of various connectors used in voice and data distribution systems.

BIX Cross-Connect System

Description	Belden Part Number		
BIX Connectors			
BIX Distribution Connector, 5-pair Marking	A0266828		
BIX Distribution Connector, 4-pair Marking	A0393146		
BIX Multiplying Connector, QCBIX2A, 25-pair, 12x2-pair	A0269923		
BIX Multiplying Connector, QCBIX5A, 25-pair, 5x5-pair	A0266827		
BIX Multiplying Connector, QCBIX7A, 25-pair, 2x2-pair & 3x7-pair	A0269925		
BIX Modular Jack Connector, NXXCBMC6U, 6-port, Category 5E, T568A/B Coded	AX100798		
BIX Modular Jack Connector, QCBIX36D, 6-port, USOC, 8-pin	A0341173		
BIX Modular Jack Connector, QCBIX36C, 8-port, USOC, 6-pin	A0330864		
BIX Modular Jack Connector, QCBIX36B, 12-port, USOC, 4-pin	A0330863		
BIX Mounts and Accessories			
BIX Mount, QMBIX12E, 300-pair	A0340836		
BIX Mount, QMBIX10A, 250-pair	A0270164		
BIX Mount, 50-pair	A0284798		
BIX Mount with Locking Cover, 50-pair	A0277853		
BIX Mount with Snap-on Cover, 50-pair	A0277854		
BIX Locking Cover, for QMBIX12E, 300-pair	A0340838		
BIX Locking Cover, for QMBIX10A, 250-pair	A0285986		
BIX Cover, QMBIX10A, Stand-alone Installation, locking	A0276396		
BIX Cover, QMBIX10A, Stand-alone Installation, non-locking	A0276394		
BIX Distribution Ring	A0270168		
BIX Designation Strip, White	A0270169		
BIX Patch Cords			
	1-Pair	2 Pair	
4 ft (1.2 m)	A0410469	A0410494	
7 ft (2.1 m)	A0410471	A0410495	
10 ft (3.0 m)	A0410473	A0410496	
15 ft (4.6 m)	A0410475	A0410497	
25 ft (7.6 m)	A0410493	-	
CAT5E GigaBIX Patch Cords, Gray			
	BIX-BIX	BIX-MA	BIX-MB
4 ft (1.2 m)	AX101963	AX101969	AX101975
6 ft (1.8 m)	AX101964	AX101970	AX101976
8 ft (2.4 m)	AX101965	AX101971	AX101977
10 ft (3.0 m)	AX101966	AX101972	AX101978
15 ft (4.6 m)	AX101967	AX101973	AX101979
25 ft (7.6 m)	AX101968	AX101974	AX101980
BIX Cross-Connect Wire			
1-pair, Wh/Bl, 305 m (1000 ft), K-Carton	XCB1 D87K1000		
1-pair, Wh/Bl, 305 m (1000 ft), Spool (S77)	XCB1 D871000		
1-pair, Z XC Wire, Bl/Ye, 305 m (1000 ft)	XCZ1 E031000		
1-pair, Z XC Wire, Bl/Rd, 305 m (1000 ft)	XCZ1 D921000		
2-pair, Wh/Bl/Wh/Or, 305 m (1000 ft), K-Carton	XCB2 042K1000		
2-pair, Wh/Gr/Wh/Or, 305 m (1000 ft), K-Carton	XCB2 A5RK1000		
4-pair, Wh/Bl/Wh/Or/Wh/Gr/Wh/Br, 152 m (500 ft), K-Carton	XCB4 000K500		
BIX Tools and Accessories			
BIX Connecting Tool	A0270165		
BIX Tool Pouch	C0054642		
BIX Test Probe, 1-pair	A0270166		
BIX Special Service Guard, 1-pair, Red	A0270172		
BIX Bridging Clip, 1-pair, Gray	A0325091		
BIX Rack Bracket Kit 19 in	A0352331		

110 Cross-Connect System

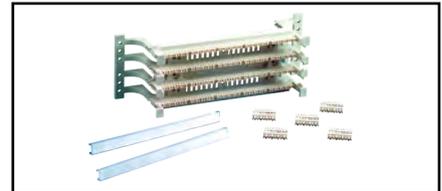
Kits, Components, Patch Cords, Wires and Accessories

The Belden 110 Cross-Connect System uses high reliability Insulation Displacement Connection (IDC) contacts to provide high-performance connections for voice and data networks. This industry standard 110 system allows for very high termination density, while

maintaining optimal ease of administration to accommodate MACs. The system allows for multiple mounting options of 4-pair and 5-Pair Connecting Blocks used in voice and data distribution systems.

110 Cross-Connect System

Description	Belden Part Number		
110 Cross-Connect Kit			
110 Cross-Connect Kit, 100-pair, with 4-pair Connecting Blocks	AX100693-S		
110 Cross-Connect Kit, 100-pair, with 5-pair Connecting Blocks	AX100694-S		
110 Cross-Connect Kit, 300-pair, with 4-pair Connecting Blocks	AX100695-S		
110 Cross-Connect Kit, 300-pair, with 5-pair Connecting Blocks	AX100696-S		
110 Cross-Connect Cable Management Accessories			
110 Connecting Block, 110C4, 4-pair	AX100707-S		
110 Connecting Block, 110C5, 5-pair	AX100708-S		
110 Wiring Block, 100-pair, without legs	AX100690-S		
110 Wiring Block, 100-pair, with legs	AX100691-S		
110 Wiring Block, 300-pair, with legs	AX100692-S		
110 Patch Cord Connector, 4-pair	AX100711-S		
110 Patch Cord Connector, 2-pair	AX100710-S		
110 Patch Cord Connector, 1-pair	AX100709-S		
110 Designation Strip	AX100721-S		
110 Cross-Connect Cable Management Accessories			
110 Cable Management Trough, without legs	AX100705-S		
110 Cable Management Trough, with legs	AX100706-S		
110 Cable Management Ring, Small 5.7 in (144.8 mm)	AX100703-X		
110 Cable Management Ring, Large 8.5 in (216 mm)	AX100704-X		
	110-110	110-8MOD (T568A-ISDN)	110-8MOD (T568B-ALT)
110 Cross-Connect Patch Cords, Category 5E, 4-Pair			
4 ft (1.2 m)	AX300001-S	AX300010-S	AX300008-S
6 ft (1.8 m)	AX300002-S	AX300009-S	AX300005-S
8 ft (2.4 m)	AX300025-S	AX300029-S	AX300011-S
10 ft (3.0 m)	AX300026-S	AX300030-S	AX300034-S
20 ft (6.1 m)	AX300027-S	AX300032-S	AX300017-S
10 Patch Cords, 110-110, Category 5E			
	1-Pair		2-Pair
2 ft (0.6 m)	AX300039-S		AX300036-S
4 ft (1.2 m)	AX300006-S		AX300013-S
6 ft (1.8 m)	AX300007-S		AX300014-S
8 ft (2.4 m)	AX300012-S		AX300015-S
10 ft (3.0 m)	AX300021-S		AX300037-S
20 ft (6.1 m)	AX300040-S		AX300038-S



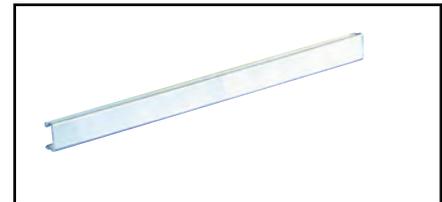
110 Cross-Connect Kit, 100-pair



110 Patch Cords, 110-110



110 Patch Cords, 110-110



110 Designation Strips

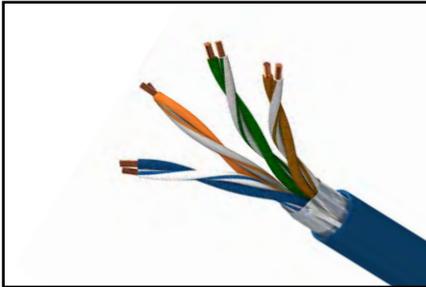


Cable Management Trough with Legs

Faster.
Easier.
Better.

Category 5E, Shielded Cable

Nonbonded-Pair



Belden CAT 5E Cable

Shielded Cable consists of 4-pair F/UTP cables as per ANSI/TIA-568.2-D. When used as the horizontal cable in the Belden Shielded system, the channel provides at least 100 MHz of bandwidth. F/UTP shielded cable has a thick, 100% coverage foil shield.

Applications

Premise Horizontal Cable, Gigabit Ethernet, 100Base TX, 100Base VG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422

Category 5E, Shielded Cables

Belden Part Number	Color	Length
CAT5E Shielded Cables, F/UTP, 4-Pair, 24 AWG Solid, PVC, CMR		
1533RA 006305M	Blue	1000 ft (305 m)
1533RA 008305M	Gray	1000 ft (305 m)
CAT5E Shielded Cables, F/UTP, 4-Pair, 24 AWG Solid, LSZH, IEC 60332-1		
1533RAS 006305M	Blue	1000 ft (305 m)
1533RAS 008305M	Gray	1000 ft (305 m)

Category 5E, Shielded Patch Panels and, Modular Jacks

KeyConnect and Modular

KeyConnect Shielded Patch Panels are robust all-metal modular patch panels that provide a flexible, versatile and high-density termination solution for Data Center and Telecommunications Room installations. The modular KeyConnect Patch Panels are available in 24-port/1U and 48-port/2U and are complete with a ground wire and cable management brackets to guarantee shielding integrity (per TIA-607-B) and neat cable dressing. The KeyConnect Shielded Patch Panels can be configured using Modular Jacks or any other KeyConnect modules.

The CAT5E Shielded KeyConnect Modular Jack is a rugged tool-less connector designed

System. Its 2-piece die-cast housing and its shielding lug provide a reliable shield and 360 degree durable bonding to the cable foil. Its color-coded wire guide speeds up pair placement and terminates all pairs when closing the 2-piece housing.

The excellent CAT5E performance exceeds all parameters specified in the TIA Category 5E standard. Its performance characteristics including, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee transmission performance up to 160 MHz. Its keystone footprint makes it compatible with KeyConnect Shielded Patch Panels and with KeyConnect and MediaFlex Workstation Outlets.



Shielded Modular Patch Panel (Black Empty)



CAT5E Shielded KeyConnect Modular Jack

KeyConnect Shielded Modular Patch Panels

Description	Belden Part Number
KeyConnect Universal Patch Panel with Shutter, 24-port, 1U, Black (Empty)	AP106503
KeyConnect Universal Patch Panel, 24-port, 1U, Black (Empty)	AX106504-AP back support bar AX105931 must be used
KeyConnect Universal Patch Panel, 48-port, 2U, Black (Empty)	AX106505-AP back support bar AX105931 must be used
KeyConnect Shielded Angled Patch Panel, 24-port, 1U, Titanium (Empty)	AX104622
KeyConnect Shielded Angled Patch Panel, 48-port, 2U, Titanium (Empty)	AX104623
Back support bar	AX105931

Category 5E, CAT5E Shielded Modular Jacks

Description	Belden Part Number
CAT5E Shielded REVConnect Modular Jack, Single Pack	RV5M.JKSME-S1
CAT5E Shielded REVConnect Modular Jack, Bulk Pack	RV5M.JKSME-B24
CAT5E Shielded KeyConnect Modular Jack, Metallic	AX104595

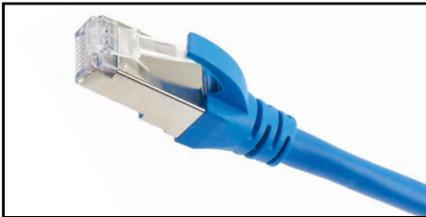


CAT5E Shielded REVConnect Modular Jack

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Category 5E, Shielded Modular Cords

Nonbonded-Pair, Patch Cords and Pigtails



CAT 5E Shielded Modular Cord

The CAT5E Shielded Modular Cords are 4-pair 26 AWG F/UTP modular cords designed to be used within the Belden Shielded System. These modular cords offer the best combination of transmission performance and shielding integrity.

Features

- Made with small diameter for greater flexibility and higher density installations

- Improved strain relief and a flexible boot for optimum protection in high-density installations
- Wrap-around label on each cord for easier product identification and length sorting

Benefits

- Exceeds TIA transmission and mechanical performance requirements

Category 5E, Shielded Modular Patch Cords

Description	Belden Part Number								
	Red	Orange	Yellow	Green	Blue	Purple	Gray	White	Black
CAT5E Shielded Modular Cords, 4-Pair, 26 AWG Stranded, PVC									
2 ft	C5C9102002F	C5C9103002F	C5C9104002F	C5C9105002F	C5C9106002F	C5C9107002F	C5C9108002F	C5C9109002F	C5C9110002F
3 ft	C5C9102003F	C5C9103003F	C5C9104003F	C5C9105003F	C5C9106003F	C5C9107003F	C5C9108003F	C5C9109003F	C5C9110003F
x ft (1-65 ft)	C5C9102xxxF	C5C9103xxxF	C5C9104xxxF	C5C9105xxxF	C5C9106xxxF	C5C9107xxxF	C5C9108xxxF	C5C9109xxxF	C5C9110xxxF
1 m	C5C9102001M	C5C9103001M	C5C9104001M	C5C9105001M	C5C9106001M	C5C9107001M	C5C9108001M	C5C9109001M	C5C9110001M
2 m	C5C9102002M	C5C9103002M	C5C9104002M	C5C9105002M	C5C9106002M	C5C9107002M	C5C9108002M	C5C9109002M	C5C9110002M
3 m	C5C9102003M	C5C9103003M	C5C9104003M	C5C9105003M	C5C9106003M	C5C9107003M	C5C9108003M	C5C9109003M	C5C9110003M
x m (1-20 m)	C5C9102xxxM	C5C9103xxxM	C5C9104xxxM	C5C9105xxxM	C5C9106xxxM	C5C9107xxxM	C5C9108xxxM	C5C9109xxxM	C5C9110xxxM
CAT5E Shielded Modular Cords, 4-Pair, 26 AWG Stranded, LSZH									
2 ft	C5C4102002F	C5C4103002F	C5C4104002F	C5C4105002F	C5C4106002F	C5C4107002F	C5C4108002F	C5C4109002F	C5C4110002F
3 ft	C5C4102003F	C5C4103003F	C5C4104003F	C5C4105003F	C5C4106003F	C5C4107003F	C5C4108003F	C5C4109003F	C5C4110003F
x ft (1-65 ft)	C5C4102xxxF	C5C4103xxxF	C5C4104xxxF	C5C4105xxxF	C5C4106xxxF	C5C4107xxxF	C5C4108xxxF	C5C4109xxxF	C5C4110xxxF
1 m	C5C4102001M	C5C4103001M	C5C4104001M	C5C4105001M	C5C4106001M	C5C4107001M	C5C4108001M	C5C4109001M	C5C4110001M
2 m	C5C4102002M	C5C4103002M	C5C4104002M	C5C4105002M	C5C4106002M	C5C4107002M	C5C4108002M	C5C4109002M	C5C4110002M
3 m	C5C4102003M	C5C4103003M	C5C4104003M	C5C4105003M	C5C4106003M	C5C4107003M	C5C4108003M	C5C4109003M	C5C4110003M
x m (1-20 m)	C5C4102xxxM	C5C4103xxxM	C5C4104xxxM	C5C4105xxxM	C5C4106xxxM	C5C4107xxxM	C5C4108xxxM	C5C4109xxxM	C5C4110xxxM

Category 5E, Tailored Shielded pigtails

C5	C	9	2	06	004F
Performance	Shielding Type	Jacket Material	Termination	Colors	Length
C5 Category 5E	C Shield	9 PVC 4 LSZH	2 TIA-A Pigtail 3 TIA-B Pigtail	02 Red 03 Orange 04 Yellow 05 Green 06 Blue 07 Purple 08 Gray 09 White 10 Black	002 to 065F F Feet 001 to 020M M Meter

SECTION FOUR

Workstation Outlets

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Belden offers a wide variety of workstation outlet systems designed for maximum flexibility, durability, aesthetics and manageability. These systems are available using Belden KeyConnect modularity and MediaFlex flexibility options. They come in a wide range of styles, colors and configurations, including single-gang and double-gang faceplates, stainless steel faceplates, adapters and boxes and multimedia outlets and inserts. Several innovative tools and accessories that ease termination and simplify network administration are also available.

KeyConnect Series feature a variety of faceplates, adapters and boxes that are compatible with all KeyConnect UTP and Multimedia Modules. Each modular component of the KeyConnect Workstation Outlet System seamlessly fits together to accommodate any surface mount, furniture or standard electrical plate outlet installation.

The LabelFlex Solution simplifies network management by enabling installers to quickly produce application specific labels for most Belden products, including Modular Jack Connectors, Cross-Connect Systems, Patch Panels, KeyConnect series, MediaFlex series and cable applications.

MediaFlex Series include a full line of modular faceplates, adapter boxes and inserts that offer the ultimate flexibility in configuring multimedia workstation outlets. They feature a front access design that allows inserts to be easily snapped in and out of openings for fast installation and upgrades.

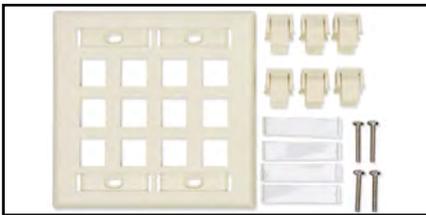
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Workstation Outlets

KeyConnect Faceplates



AX102655, KeyConnect Single-gang, 2-port Faceplate, Electrical White



AX102256, KeyConnect Double-gang, 12-port Faceplate, Almond



AX102657, KeyConnect Single-gang Back Box, Electrical White and AX104130, KeyConnect Double-gang Back Box, Almond



AX102902, KeyConnect Wall Mount Phone Plate, Electrical White, Recessed Port

Compatible with all KeyConnect UTP and Multimedia Modules, KeyConnect Faceplates are designed for maximum flexibility, durability, aesthetics and manageability. They are available in a variety of styles, colors and port configurations to meet all work area outlet application needs, and they provide for easy outlet identification.

Features & Benefits

- KeyConnect Faceplates are compatible with all KeyConnect jacks and multimedia modules

- KeyConnect Faceplates are available in almond and electrical white to suit any office decor
 - Fire-retardant plastic with UV stabilizer for protection against color degradation
 - Top and bottom labeling windows for easy outlet identification
 - Compatible with LabelFlex labeling solution
- KeyConnect Faceplates are available in stainless steel finish for institutional applications
- KeyConnect Faceplates are available with mounting studs for wall-mount phone installation
 - Available in stainless steel and white plastic

Faceplates

Description	Belden Part Number	
	Almond	Elec. White
KeyConnect Faceplates		
1-port, with ID Windows, Single-gang	AX103922	AX102660
2-port, with ID Windows, Single-gang	AX103923	AX102655
4-port, with ID Windows, Single-gang	AX102248	AX102249
6-port, with ID Windows, Single-gang	AX102250	AX102251
6-port, with ID Windows, Double-gang	AX102670	AX102671
12-port, with ID Windows, Double-gang	AX102256	AX102257
Single-gang Back Box, 1.89 in.	AX104127	AX102657
Double-gang Back Box, 1.89 in	AX104130	AX104131

Contact Customer Service for other colors and configurations.

Description	Belden Part Number
KeyConnect Stainless Steel Faceplates with ID Windows	
1-Port, with ID Windows, Single-gang	AX104230
2-Port, with ID Windows, Single-gang	AX104231
4-Port, with ID Windows, Single-gang	AX104232
6-Port, with ID Windows, Single-gang	AX104233
4-Port, with ID Windows, Double-gang	AX104479
6-Port, with ID Windows, Double-gang	AX104480
12-Port, with ID Windows, Double-gang	AX104234
KeyConnect Wall Mount Phone Plates	
Stainless Steel, Recessed Port	AX104126
Elec. White Plastic, Recessed Port	AX102902

Workstation Outlets (continued)

KeyConnect Adapters and Boxes

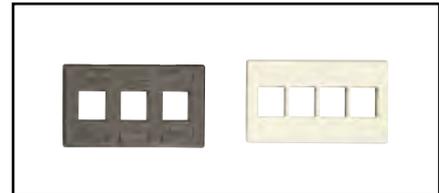
KeyConnect Adapters and Boxes in various styles, size and colors provide flexible surface mount, modular furniture and standard electrical plate outlet installation, including high-density workstation outlets.

Features & Benefits

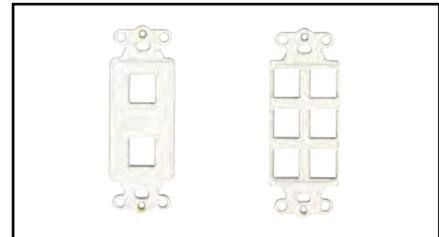
- KeyConnect Adapters available in Decora and 106 styles for use with standard electrical plates
- Available in Decora-style 2, 4 and 6-port and 106-style 2 and 4-port configurations for design flexibility
- KeyConnect Modular Furniture Adapters available in 3 and 4-port configurations for high-density workstation outlets in office furniture
- KeyConnect Adapters available in almond, electrical white and black to match electrical plates and suit any office decor
- KeyConnect Boxes available in 1, 2, 4 and 6-port configurations for design flexibility
- KeyConnect Boxes equipped with port shutters to provide dust protection to UTP jacks
- Fire-retardant plastic with UV stabilizer for protection against color degradation
- KeyConnect Adapters are compatible with all KeyConnect UTP and Multimedia Modules

KeyConnect Media Boxes

Description	Color	Belden Part Number
KeyConnect 6-port Media Box (Compliant with UL2043 standard)	Black	AX106512-BK
KeyConnect 6-port Media Box (Compliant with UL2043 standard)	Electric White	AX106512-EW
KeyConnect 12-port Consolidation Box with Shutter	Black	AP100047



AX102292, KeyConnect Modular Furniture Adapters: 3-Port, Black and AX103926, 4-port, Almond



AX104112, KeyConnect Decora Adapters: 2-Port, Electrical White and AX104118, 6-port, Electrical White



AX106512-BK, KeyConnect 6-port Media Box



AP100047, KeyConnect 12-port Consolidation Box

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Workstation Outlets (continued)

Multimedia Modules, Field-Crimpable Kits, REVConnect Plugs, Accessories



AX105334-EW, 3.5mm Audio Coupler
AX105336-EW, S-video Coupler



RCA Gold-plated Couplers - AX105341-EW, AX105340-EW,
AX105339-EW, AX105337-EW, AX105338-EW



AX105342-EW, USB 3.0 Coupler
AX105345-EW, HDMI Coupler



Category 6 RJ45 Plugs UTP & Boots



RVAFPSME-S1, 10GX STP REVConnect Plug
RVAFPUBK-S1 10GX UTP REVConnect Plug

KeyConnect Multimedia Modules

Description	Belden Part Number			
	Dark Gray	Almond	Elec. White	Black
KeyConnect Multimedia Modules, Copper				
3.5mm Audio Coupler, F/F, Gold	—	AX105334-AL	AX105334-EW	AX105334-BK
3.5mm Audio Coupler, F/Solder, Gold	—	AX105335-AL	AX105335-EW	AX105335-BK
S-video Coupler, F/F	—	AX105336-AL	AX105336-EW	AX105336-BK
RCA Gold-plated Coupler, F/F, Red	—	AX105337-AL	AX105337-EW	AX105337-BK
RCA Gold-plated Coupler, F/F, White	—	AX105338-AL	AX105338-EW	AX105338-BK
RCA Gold-plated Coupler, F/F, Yellow	—	AX105339-AL	AX105339-EW	AX105339-BK
RCA Gold-plated Coupler, F/F, Green	—	AX105340-AL	AX105340-EW	AX105340-BK
RCA Gold-plated Coupler, F/F, Blue	—	AX105341-AL	AX105341-EW	AX105341-BK
Video F Coax 3GHz, Recessed, Gold-Plated	—	AX105346-AL	AX105346-EW	AX105346-BK
Video F Coax, Recessed	—	AX102903	AX102904	AX102905
Video F Coax, Flush	AX105384	AX102906	AX102907	AX102908
Video BNC Coax, Flush	—	AX104573	AX104575	AX104574
USB 3.0 Coupler, A to A	—	AX105342-AL	AX105342-EW	AX105342-BK
USB 2.0 Coupler, B to B	—	AX105344-AL	AX105344-EW	AX105344-BK
HDMI Coupler (Version 1.4)	—	AX105345-AL	AX105345-EW	AX105345-BK
KeyConnect Multimedia Modules, Fiber				
LC Duplex OM3 (Aqua Adapter)	—	AX104937	AP100023WH	AP100023BK
LC Duplex OM4 (Erika Purple Adapter)	—	AX105641-AL	AP100024WH	AP100024BK
LC Duplex SM (Blue Adapter)	—	AX102419	AP100020WH	AP100020BK
LC Duplex SM/APC (Green Adapter)	—	AX105642-AL	AP100021WH	AP100021BK
SC Simplex OM3 (Aqua Adapter)	—	AX105643-AL	AP100028WH	AP100028BK
SC Simplex OM4 (Erika Violet Adapter)	—	—	AP100029WH	AP100029BK
SC Simplex SM (Blue Adapter)	—	AX102686	AP100025WH	AP100025BK
SC/APC Simplex SM (Green Adapter)	—	AX105374-AL	AP100026WH	AP100026BK
ST (Metal) Compatible MM/SM	—	AX102242	AX102243	AX102244

RJ45 Field Crimpable Plug Kits and Accessories

Description	Belden Part Number
Category 5E RJ45 Plugs, UTP, 50 per pack	AP700007
Category 6 RJ45 Plugs, UTP, 50 per pack	AP700008
Category 5E RJ45 Plugs, STP, 50 per pack	AP700003
Category 5E RJ45 Plugs, STP, 50 per pack	AP700010*
Category 6 RJ45 Plugs, STP, 50 per pack	AP700004
Category 6A RJ45 Plugs, STP, 50 per pack	AP700009
RJ45 Boots for 6.4mm OD, compatible with AP700007, 50 per pack	AP700021
RJ45 Boots for 6.4mm OD, compatible with AP700008, 50 per pack	AP700022
RJ45 Boots for 5.8mm OD, compatible with AP700003, 50 per pack	AP700023
RJ45 Boots for 7.0mm OD, compatible with AP700010, 50 per pack	AP700026
RJ45 Boots for 6.5mm OD, compatible with AP700004, 50 per pack	AP700024
RJ45 Boots for 8.0mm OD, compatible with AP700009, 50 per pack	AP700025
RJ45 Termination Crimp Tool AP100007	AP100007

* AP700010 is different from AP700003 on cable cores diameter. Please check datasheets for more details

REVConnect Plugs and Accessories

Description	Part Number
Mod.Plug Terminated Link (MPTL) Test Adapter	AX104552
10GX STP REVConnect Plug	RVAFPSME-S1
10GX STP REVConnect Plug 24-pack	RVAFPSME-B24
10GX UTP REVConnect Plug	RVAFPUBK-S1
10GX UTP REVConnect Plug 24-pack	RVAFPUBK-B24
Universal Termination Tool	RVUTT01
Tool Blade Replacement Set	RVUTB01
Tool Belt Clip	RVUTC01
Replacement Cable Prep Tool	RVUCT01
10GX UTP REVConnect FlexPlug, Black	RVAFFPUBK18-S1
10GX UTP REVConnect FlexPlug, Electric White	RVAFFPUUEW18-S1
CAT6+ UTP REVConnect FlexPlug, Black	RV6FFPUBK18-S1
CAT6+ UTP REVConnect FlexPlug, Electric White	RV6FFPUUEW18-S1

REVConnect Spare Cores

Replacement Caps and Cable Managers (50 of each in pack)	RVUC0EW-B50
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Keystone Square Faceplate

Belden's new faceplate (86x86) range to complete IBDN® workstations quickly and efficiently, with the added benefit of installation flexibility, and uniform aesthetics.

Plenty of Choice for Maximum Flexibility

The Belden faceplate range offers a choice of five faceplates, and two styles. The Faceplates are capable of accepting Cat 5E, Cat 6 and Cat 6a type of modular jack, in Keystone style. These new faceplates can be either wallmounted on an appropriate wall back box or underfloormounted in floor faceplates and are available in Electric White color.

Durability and Reliability

All Belden faceplates are designed to provide maximum durability, protection and reliable performance. They feature a sturdy design for impact resistance, made from the best quality ABS. They include a shutter to protect modules from dust and debris and provide optimum performance, density and durability, while inserts and adapters are easily released for further configurations. Label windows are situated at the top part of the faceplates, so that the cords do not block the labels. This facilitates easy identification, avoiding labels at the bottom where they could not easily be seen after installation.



AX104442C, 86x86 KeyConnect Double Port Faceplate - Two piece

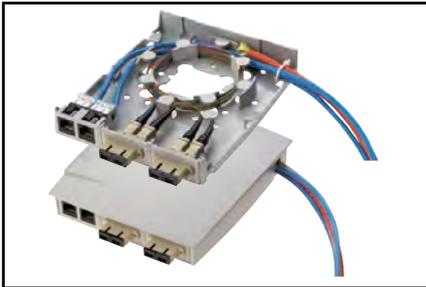


AX104447F, 86x86 KeyConnect Tilted Single Port Fiber Faceplate-Two piece

Part #	Description	Color	Material	Dimensions (H x W x D) (mm)	Mounting screws (mm)	RoHS Compliant	Suitability - Indoor	UL Flame Test For Material
One piece faceplate								
AX104441	KeyConnect Single Port Faceplate	Electric White	Flame Retardant Plastic UL-94V0, ABS (Acrylonitrile Butadiene Styrene)	86 x 86 x 10	2 pcs, M3.5 x 25	Yes	Yes	UL-94 V0
AX104442	KeyConnect Double Port Faceplate							
AX104444	KeyConnect Quad Port Faceplate							
AX104447	KeyConnector Tilted Single Port Faceplate			86 x 86 x 25.6				
AX104448	KeyConnector Tilted Double Port Faceplate							
Premium Two piece faceplate								
AX104441C	KeyConnect Single Port Faceplate	Ivory White	Flame Retardant Plastic UL-94V0, ABS (Acrylonitrile Butadiene Styrene)	86 x 86 x 14.4	2 pcs, M3.5 x 25	Yes	Yes	UL-94 V0
AX104442C	KeyConnect Double Port Faceplate	Ivory White						
AX104444C	KeyConnect Flat Quad Port Faceplate	Almond		86 x 86 x 14.5				
AX104447C	KeyConnect Tilted Single Port Faceplate	Ivory White		86 x 86 x 37.7				
AX104448C	KeyConnect Tilted Double Port Faceplate	Ivory White						
AX104447F	KeyConnect Tilted Single Port Faceplate - Fiber	Almond						
AX104448F	KeyConnect Tilted Double Port Faceplate - Fiber							

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Workstation Outlets (continued) Multimedia Outlet Boxes, Floor Socket



A0643206, MDVO Multimedia Outlet Box, shown here as terminated

The Multimedia Outlet Box brings unique versatility to multimedia work area installations. The box design provides cable management and helps maintain cable bend radius. The outlet box's low-profile design and side entry offers better protection for patch cords. The outlet box can accept up to six Modular Jacks or Multimedia Modules using 2-port inserts and three SC Duplex adapters using special bezel, or three SC Duplex adapters. The Multimedia Outlet Box can be mounted directly on the wall or attached to standard electrical boxes. Included with the

Multimedia box are three SC Duplex Mounting bezels and three Modular Jack Adapters.

Multimedia Modules address audio video and fiber applications. Fiber modules are available for LC Duplex, SC Simplex, SC Duplex and ST Compatible for multimode and singlemode connections. The SC Duplex Adapter is a fiber adapter sleeve with flanges that mount into the SC Duplex mounting bezel (included in the Multimedia Outlet box). Audio video modules are available for SVHS, RCA, BNC and Video F connection in KeyConnect and MDVO footprint.



Pop Up Floor Socket with Junction Box

Multimedia Outlet Boxes

Description	Belden Part Number	
	KeyConnect	MDVO
Multimedia Outlet Boxes		
Multimedia Outlet Box, 6-port, Gray	AX107293	A0643205
Multimedia Outlet Box, 6-port, Almond	AX107294	A0643206
Multimedia Outlet Box, 6-port, White	AX107295	A0643207
Multimedia Outlet Box, 6-port, Black	AX107296	A0643208

Blank Inserts included (50% of ports)

Description	Belden Part Number
Pop Up Floor Socket with Junction Box	
Port Concealed Floor Socket, 1-port	AP500411
Port Concealed Floor Socket, 2-port	AP500412
Port Concealed Floor Socket, 3-port	AP500413

Workstation Outlets (continued)

Multi-User Outlet Box, Adapter Strips, CAT5E BIX DVO Outlets

The Multi-User Outlet Box design allows for mixed-media installations with a choice of connection strips. The box can accept either one or two 12-port MDVO Adapter Strips, CAT5E Connector Module Strips (BIX or 110), or a combination of both for a maximum of 24 connections.

CAT5E BIX DVO Workstation Outlets are robust and installer-friendly products, combining

punchdown connectors with standard modular jacks. The outlet's unique, completely enclosed housing protects the connectors and allows the wires to be front-terminated on BIX Insulation Displacement Connectors (IDC). The snap-on cover plate allows easy access and eliminates visible mounting screws.

CAT5E BIX DVO Workstation Outlets offer headroom over the Category 5E cabling standard.



AX100222, Multi-User Outlet Box, shown here with modules

Multi-User Outlet Box

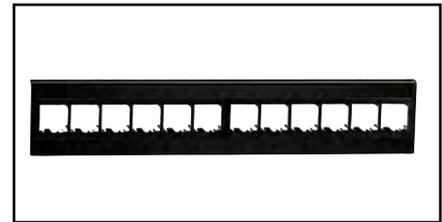
Description	Belden Part Number			
	Gray	Almond	White	Black
Multi-User Outlet Box and Adapter Strips				
Multi-User Outlet Box, 24-port	AX100219	AX100220	AX100221	AX100222

Adapter strip not included

Adapter Strips

Description	Belden Part Number
Adapter Strips for Multi-User Outlet Box	
Adapter Strip, KeyConnect, 12-port, Empty, Black	AX104615
Adapter Strip, MDVO, 12-port, Empty, Black	AX100223
CAT5E HD-BIX Connector Module Strip, Universal Wiring 12-port, T568A/B	AX100224
CAT5E HD-110 Connector Module Strip, Universal Wiring 12-port, T568B/A	AX100494

Blank inserts included (50% of ports)



AX100223, MDVO Adapter Strip, 12-port

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Workstation Outlets (continued)

Accessories



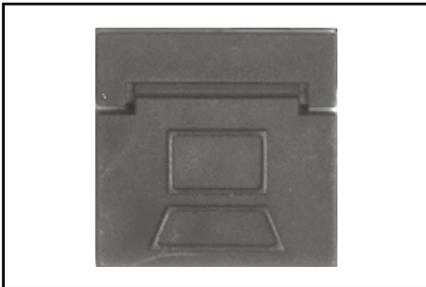
AX0405538, MDV0 Blank Insert

Blank insert can be used in any MedicalFlex outlets, interface plates, faceplates, adapters or boxes to fill in unused ports.

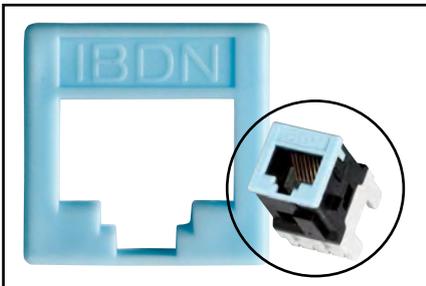
The Colored Bezel are plastic inserts that fit over the face of modules to modify their color. They are particularly useful in installations where the churn rate is high and color identification of outlets is critical (ex: segmented network with security levels). They also contribute to simplifying the management of the cabling infrastructure by using only one color of module for Moves, Adds and Changes (MACs).

ID Tabs are color-coded identification caps that can be inserted over the Modules. The ID tabs are available as blank, data or voice coded. They are available in eleven colors to facilitate identification and to match modern office decor. The flexible identification cap also acts as a protective cover eliminating exposure to dust and other contaminants when the module is not in use.

KeyConnect-Style Accessories include blank inserts available in almond, white and black as well as Dust Covers in clear plastic to protect unused ports.



AX100196, ID Tab



AX102022, Colored Bezel



AX101790, Dust Cover, AX102263, KeyConnect Blank Insert

Accessories

Description	Belden Part Number			
	Gray	Almond	White	Black
Blank Insert	A0405536	A0405537	A0405538	A0405539
	ID Tab, BLANK	ID Tab, DATA ID	Tab, VOICE	COLORED BEZEL
Gray	AX100182	AX100193	AX100204	AX102014
Almond	AX100183	AX100194	AX100205	AX102015
White	AX100184	AX100195	AX100206	AX102016
Black	AX100185	AX100196	AX100207	AX102017
Orange	AX100186	AX100197	AX100208	AX102018
Red	AX100187	AX100198	AX100209	AX102019
Yellow	AX100188	AX100199	AX100210	AX102020
Green	AX100189	AX100200	AX100211	AX102021
Blue	AX100190	AX100201	AX100212	AX102022
Purple	AX100191	AX100202	AX100213	AX102023
Brown	AX100192	AX100203	AX100214	AX102024

Description	Belden Part Number
Interface Plate ID Window label and clear cover, 50 pieces per bag	AX101868

KeyConnect-Style Accessories

Description	Belden Part Number			
	Gray	Almond	White	Black
KeyConnect-Style Blank Insert	-	AX102261	AX102262	AX102263
Dust Cover, Clear, bag of 50 units	AX101790	-	-	-

Description	Belden Part Number
KeyConnect ID Window label and clear cover, 100 pieces per bag	AX104680

Workstation Outlets (continued)

REVConnect and KeyConnect Tools and Accessories

The REVConnect Connectivity System is supported by a single, universal core termination. The core supports the user's choice of connectivity: Category 5E through Category 6A, shielded and unshielded, and even Category 6A Field-Mountable Plugs. The REVConnect Termination Tool is the only tool required to perform the termination, including cable preparation.

- Go-no-go functionality only allows a termination when the core is properly seated inside the tool
- Includes a cable stripper and crossweb guillotine tool in the handle
- Additional blade set included with each tool
- Replacement blades and cable preparation tools available
- Tool belt clip available for hands-free carrying
- Terminates REVConnect core for all Belden cables and all REVConnect modules



RVUTT01, REVConnect Termination Tool; includes one Cable Prep Tool and spare blade set

Key Specifications

- Rugged design withstands tens of thousands of terminations
- Rubber handle grips for comfort

REVConnect Jack Accessories (for both UTP and shielded)

Description	Belden Part Number	
	Color Icon (Pack of 24)	Dust Cap (Pack of 24)
Gray	RVUICGY-B24	RVUDCGY-B24
Almond	RVUICAL-B24	RVUDCAL-B24
Electric White	RVUICEW-B24	RVUDCEW-B24
Black	RVUICBK-B24	RVUDCBK-B24
Ivory	RVUICIV-B24	RVUDCIV-B24
Brown	RVUICBR-B24	RVUDCBR-B24
Red	RVUICRD-B24	RVUDCRD-B24
Orange	RVUICOR-B24	RVUDCOR-B24
Yellow	RVUICYL-B24	RVUDCYL-B24
Green	RVUICGN-B24	RVUDCGN-B24
Blue	RVUICBL-B24	RVUDCBL-B24
Purple	RVUICPR-B24	RVUDCPR-B24
TIA Brown	RVUICTN-B24	RVUDCTN-B24
TIA Red	RVUICTR-B24	RVUDCTR-B24
TIA Orange	RVUICTO-B24	RVUDCTO-B24
TIA Yellow	RVUICTY-B24	RVUDCTY-B24
TIA Green	RVUICTG-B24	RVUDCTG-B24
TIA Blue	RVUICTB-B24	RVUDCTB-B24
TIA Purple	RVUICTP-B24	RVUDCTP-B24



RVUCT01, Cable Prep Insert



AX105566, Tool Assembly for KeyConnect Jacks

REVConnect Universal Termination Tool and Accessories

Description	Belden Part Number
Installation Tool Kit*	RVUTIK01
Universal Termination Tool	RVUTT01
Tool Blade Replacement Set	RVUTB01
Tool Belt Clip	RVUTC01
Replacement Cable Prep Tool	RVUCT01

*Installation tool kit includes scissors, marker, universal termination tool, tool blade replacement set, tool belt clip, carrying case, bulk pack of 50 cores and installation guides.

Rapid Termination Tool (RTT)

Description	Belden Part Number
Tool Assembly for KeyConnect/MDVO Jacks	AX105566
Tool Headset for KeyConnect/MDVO Jacks	AX105568
Tool Pouch	AX105569



RVUTIK01, REVConnect Installation Tool Kit

Faster.
Easier.
Better.

Workstation Outlets (continued)

Tools



AX100749, 110 Connecting Tool

The 110 Connecting Tool is a no-impact connecting tool used to terminate cables, pigtails or cross-connect wires on any KeyConnect module or 110 product. The 110 Tool is a spring-activated hand tool. A single forward movement will seat the wire into the IDC clip and cut off the excess wire. The tool will terminate 22, 24 and 26 AWG plastic insulated solid copper conductors.

Modules or MediaFlex Inserts during pair placement and wire termination. Cable retainers on each end of the station will secure and hold cables during the pair placement process. The flat bottom surface provides the required stability to safely terminate modules. The tool is made of very durable plastic; its low profile makes it an easy tool to use and carry.



1797B 009, Cable Preparation Tool

The Bonded-Pair Cable Preparation Tool makes it faster and easier to prepare cables for connector termination. This tool is ideal for use with Belden Bonded-Pair Cables, providing special features that help separate twisted pairs. It can also be used to prepare any Nonbonded-pair cable for installation.

The Outlet Release Tool is a convenient tool for servicing MediaFlex and Interface outlets. Its bent tip allows for easy front removal of MediaFlex inserts, especially when used in Angled Entry plates. It is also very useful for extracting KeyConnect Modules from miscellaneous mounting hardware.

The Termination Station is an ergonomically designed holder that provides stability to the KeyConnect Module during termination. The station has pockets with locking features that steadily hold either MDVO or KeyConnect

The Patch Cord Tool allows to connect and disconnect RJ45 patch cords installed in very high-density environments (48-port, 1U patch panels and high-density networking equipment).



AX101852, Termination Station

Tools

Description	Belden Part Number
110 Connecting Tool	AX100749
Bonded-Pair Cable Preparation Tool	1797B 009
Termination Station	AX101852
Outlet Release Tool	AX101185
Patch Cord Tool	AX102775



AX101185, Outlet Release Tool

Workstation Outlets (continued)

LabelFlex Labels

The LabelFlex solution is aimed at simplifying network management. Using the labeling system (software and label types), you can rapidly produce quality, application-specific labels for most Belden products in a fraction of the time needed for traditional methods.

Copper and Fiber Patch Panels

Description	Belden Part Number
REVConnect Patch Panels	
64 labels per sheet, 10 sheets per pack, white	AX107527
KeyConnect Patch Panels	
24 labels per sheet, 5 sheets per pack, white	AX102299
KeyConnect Ultra-High-Density Patch Panels	
24 labels per sheet, 5 sheets per pack, white	AX103275
AngleFlex Patch Panels and 10GX IDC Patch Panels	
180 labels per sheet, 5 sheets per pack, white	AX103257
HD-Series Patch Panels	
18 labels per sheet, 5 sheets per pack, white	AX101554
28 labels per sheet, 5 sheets per pack, white	AX103265
Flex Patch Panels	
28 labels per sheet, 5 sheets per pack, white	AX101551
LabelFlex for FX ECX Patch Panels	
4 labels per sheet, 10 sheets per pack, white	ECX-LBF-PK10



LabelFlex Labels

Download:

FREE LabelFlex software at:
www.belden.com/labelflex

10GX REVConnect Wall-Mount System, BIX, GIGABIX and 110 Cross-Connect Labels

Description	Belden Part Number										
	Gray	White	Orange	Red	Yellow	Green	Blue	Purple	Brown	Silver	
10GX REVConnect Wall-Mount System, BIX and GIGABIX Labels											
15 labels per sheet, 5 sheets per pack in.	AX101532	AX101533	AX101534	AX101535	AX101536	AX101537	AX101538	AX101539	AX101540	AX101541	
BIX Modular Jack Connector Labels											
28 labels per sheet, 5 sheets per pack in.	AX101542	AX101543	AX101544	AX101545	AX101546	AX101547	AX101548	AX101549	AX101550	AX101584	
110 Cross-Connect Labels											
18 labels per sheet, 5 sheets per pack in.	AX101557	AX101558	AX101559	AX101560	AX101561	AX101562	AX101563	AX101564	AX101565		

Faster.
Easier.
Better.

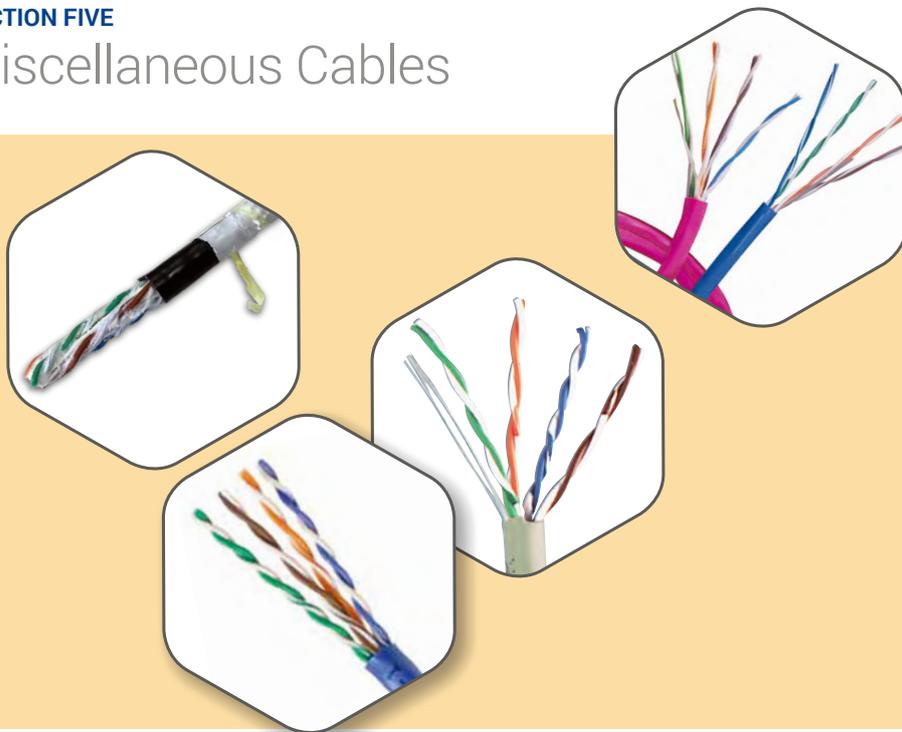
SECTION FIVE

Miscellaneous Cables

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Belden understands that not every application is the same and unique situations and environments may call for a different cable solution. That's why our Copper Solutions Catalog also includes a variety of additional Belden quality cables to meet specific customer needs. From unshielded, shielded and limited combustible cables, to outside plant, multi-pair and industrial Ethernet cables, Belden has the copper cable you need for a variety of voice, data and control applications.

Limited Combustible Cable is a plenum cable that provides the ultimate in fire and smoke safety. These cables are specifically engineered to meet NFPA requirements for a Limited Combustible

Data Twist Outside Plant (OSP) Cable are available in Category 6 and Category 5E cables and feature a thick polyethylene for better moisture and cut-through resistance.

Backbone Indoor Cables are available in Plus 25-pair Category 5E backbone cables for high speed applications or in DataTwist Category 3 UTP multi-pair cables, including up to 100-pair count cables for large voice communication systems.

Belden's DataTuff® Industrial Ethernet Cables are designed specifically for industrial applications, these cables offer consistent and reliable performance in even the harshest operating environments, to support the proliferation of the mission-critical signal transmissions.

Category 6A, 6, 5E, Indoor/Outdoor (I/O) and Outdoor Cables Nonbonded-Pair, Bonded-Pair

Category 6A, 6 and 5E Outside Plant (OSP) Cables are 100% gel-filled with a non-sticky PP compound that is easy to remove when terminating. Each product also has a thick polyethylene or PVC jacket for better moisture and cut-through resistance. All products on this

page meet or exceed ANSI/TIA-568.2-D and ANSI/ICEA S-56-434 requirements. The OSP versions comply with ANSI/ICEA S-99-689 and ANSI/ICEA S-107-704 Water Penetration Test, and the CMR/CMX versions comply with ANSI/ICEA S-100-685.

Indoor/Outdoor CM-LS and OSP Cables (Suitable for Wet Locations)

Description		Belden Part Number	
		Nonbonded-Pair	
Color	Length	Shielded (F/UTP)	Unshielded (UTP)
Category 6A, 4-Pair, 23 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	2141A 0101000	2147A 0101000
Category 6, 4-Pair, 23 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	2140A 0101000	2143A 0101000
Category 5E, 4-Pair, 24 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	*	2137A 0101000
Category 5E, Corrugated Aluminum Tape, 25-Pair, 24 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	2139A 0101000	*

*Not available

Indoor/Outdoor CMR/CMX Outdoor Cables (Sunlight Resistant)

Description		Belden Part Number	
		Nonbonded-Pair	
Color	Length	Shielded (F/UTP)	Unshielded (UTP)
Category 6A (10GX)**, 4-Pair, 23 AWG, PVC Jacket			
Black	1000 ft (305 m)	2142A 0101000	2148A 0101000
Category 6 (2400)**, 4-Pair, 23 AWG, PVC Jacket			
Black	1000 ft (305 m)	2149A 0101000	2146A 0101000
Category 5E, 4-Pair, 24 AWG, PVC Jacket			
White	1000 ft (305 m)	*	1594A 0091000
Black	1000 ft (305 m)	2138A 0101000	1594A 0101000

*Not available

**10GX and DataTwist 2400 Cables maybe used for 25-Year Belden System Warranty.

Outside Plant OSP Cables (Suitable for Wet Locations)

Description		Belden Part Number	
		Nonbonded-Pair	
Color	Length	Shielded (F/UTP)	Unshielded (UTP)
Category 6A, 4-Pair, 23 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	OSP6AF 0101000	OSP6AU 0101000
Category 6, 4-Pair, 23 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	OSP6F 0101000	OSP6U 0101000
Category 5E, 4-Pair, 24 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	*	7997A 0101000
Category 5E, Corrugated Aluminum Tape, 4-Pair, 24 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	Custom	*
Category 5E, Corrugated Aluminum Tape, 25-Pair, 24 AWG, Gel Filled, PE Jacket			
Black	1000 ft (305 m)	Custom	*

*Not available

Outdoor Cables

Description		Belden Part Number	
		Nonbonded-Pair	
Color	Length	Shielded (F/UTP)	Unshielded (UTP)
Category 6A, 4-Pair, 23 AWG, U/UTP, PVC Inner Jacket, PE Outer Jacket			
Black	1000 ft (305 m)	*	0-10GA24A 010305M
Category 6, 4-Pair, 23 AWG, U/UTP, PVC Inner Jacket, PE Outer Jacket			
Black	1000 ft (305 m)	*	YJ73212 010305M



Outside plant, Gel-filled



Belden CAT 6 UTP Cable YJ73212

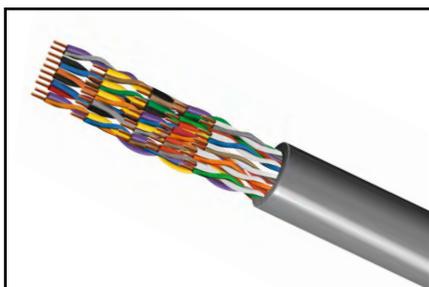


Belden CAT6A UTP Cable 0-10GA24A

Faster.
Easier.
Better.

Category 3, Backbone Indoor Cables

Nonbonded-Pair



CAT3 Backbone Cable

All products on this cable series that meet and exceed ANSI/TIA- 568.2-D for Category 3 transmission characteristics and are perfect for use in networking and communication systems.

Category 3, Backbone Indoor Cables

Belden Part Number	Color	Length
CAT3, Indoor, Unshielded, 25P, 26 AWG, PVC		
YJ55149 0081000M	Gray	1000M
YJ55149 0101000M	Black	1000M
CAT3, Indoor, Unshielded, 50P, 26 AWG, PVC		
YJ55157 0081000M	Gray	1000M
YJ55157 0101000M	Black	1000M
CAT3, Indoor, Unshielded, 100P, 26 AWG, PVC		
YJ55158 0081000M	Gray	1000M
YJ55158 0101000M	Black	1000M
CAT3, Indoor, Unshielded 25P, 26 AWG, LSZH, IEC 60332-1		
YJ72872 0081000M	Gray	1000M
YJ72872 0101000M	Black	1000M
CAT3, Indoor, Unshielded, 50P, 26 AWG, LSZH, IEC 60332-1		
YJ72873 0081000M	Gray	1000M
YJ72873 0101000M	Black	1000M
CAT3, Indoor, Unshielded, 100P, 26 AWG, LSZH, IEC 60332-1		
YJ72874 0081000M	Gray	1000M
YJ72874 0101000M	Black	1000M
CAT3, Indoor, Unshielded 25P, 24 AWG, PVC		
YJ53444 0081000M	Gray	1000M
YJ53444 0101000M	Black	1000M
CAT3, Indoor, Unshielded 50P, 24 AWG, PVC		
YJ53445 0081000M	Gray	1000M
YJ53445 0101000M	Black	1000M
CAT3, Indoor, Unshielded, 100P, 24 AWG, PVC		
YJ53446 0081000M	Gray	1000M
YJ53446 0101000M	Black	1000M
CAT3, Indoor, Unshielded, 25P, 24 AWG, LSZH, IEC 60332-1		
YJ53418 0081000M	Gray	1000M
YJ53418 0101000M	Black	1000M
CAT3, Indoor, Unshielded, 50P, 24 AWG, LSZH, IEC 60332-1		
YJ53419 0081000M	Gray	1000M
YJ53419 0101000M	Black	1000M
CAT3, Indoor, Unshielded, 100P, 24 AWG, LSZH, IEC 60332-1		
YJ53420 0081000M	Gray	1000M
YJ53420 0101000M	Black	1000M

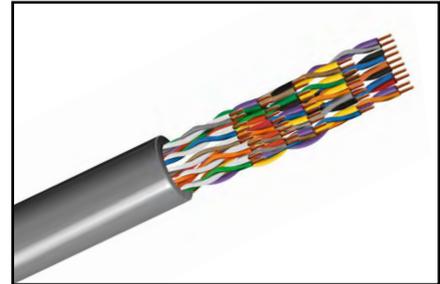
Note: 26AWG is non-standard conductor size

Category 5E, Backbone Indoor Cables

Nonbonded-Pair

Available in plenum and non-plenum versions, 25-pair Category 5E backbone cables are designed for high-speed applications. These cables meet and exceed Category 5E

transmission characteristics, including the Power Sum Near End Crosstalk (NEXT) requirements of ANSI/TIA-568.2-D Standard for Commercial Building Telecommunications Wiring.

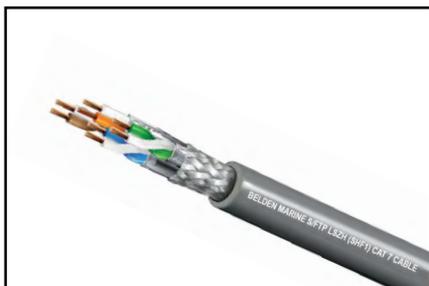


1374A, 25-pair Cat5E Cable

Category 5E, Backbone Indoor Cables

Description		Belden Part Number
		Nonbonded-Pair
Color	Length	Spool
Category 5E, Backbone Indoor Cables, 25-Pair, 24 AWG, CMP		
Gray	1000 ft (305 m)	IBDN25P 0081000
Category 5E, Backbone Indoor Cables, 25-Pair, 24 AWG, CMR		
Blue	1000 ft (305 m)	1374R 006305M
Gray	1000 ft (305 m)	1374R 008305M
Category 5E, Backbone Indoor Cables, 25-Pair, 24 AWG, CM		
Blue	1000 ft (305 m)	1374A 006305M
Gray	1000 ft (305 m)	1374A 008305M
Category 5E, Backbone Indoor Cables, 25-Pair, 24 AWG, LSZH, IEC 60332-1		
Blue	1000 ft (305 m)	1374ANH 006305M
Gray	1000 ft (305 m)	1374ANH 008305M

Faster.
Easier.
Better.



Belden Marine S/FTP, LSZH (SHF1), Category 7 Cable

Category 7, Industrial Cables

Nonbonded-Pair



Belden's 50007TSF Series cables are high performance Category 7 cables, featuring individual and overall braid shielding—designed for superior EMI protection even beyond 600MHz. Industry recommended for its highly durable & ruggedized construction with IEC 60332-3-22 Category A flame rated Marine Grade SHF1 LSZH outer jacket, the product is suitable for both indoor and outdoor usage for various application.

With the American Bureau of Shipping (ABS) approval and DNV Certification Belden Marine Category 7 cables are designed to perform and deliver upto 10G Base-T Ethernet for various applications, ensuring maximum performance and reliability.

Category 7, Industrial Cables

Belden Part Number	Color	Length
Nonbonded-Pair, 4-Pair, 23 AWG Stranded S/FTP, LSZH (SHF1) Jacket, IEC 60332-3-22, IEC 60332-1, Marine Category 7, Indoor/Outdoor (ABS Type Approved & DNV Certified)		
50007TSF 010A305M	Black	305 m (1000 ft)
50007TSF 006A305M	Blue	305 m (1000 ft)
50007TSF 008A305M	Gray	305 m (1000 ft)

Category 6, Industrial Cables

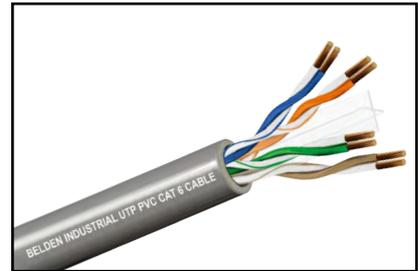
Nonbonded-Pair

Industrial Ethernet cables used in interconnecting Industrial Ethernet Switches, IP controllers, media convertors, distributed control system, programmable logic controller and transmitting industrial protocol data signals. These cables are suitable for transmitting 1000BASE-TX Gigabit Ethernet,

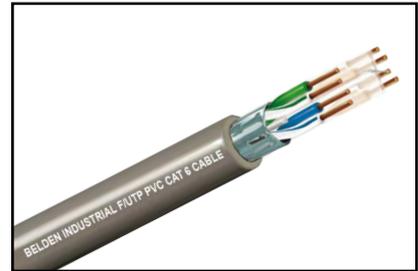
100BASE-T Fast Ethernet, 100BaseVG ANYLAN, 155ATM, 622ATM, RS-422, 250MHz Category 6, EtherCAT. These are highly durable & ruggedized cables for both indoor and outdoor use meeting having good flame retardant properties.

Category 6, Industrial Cables

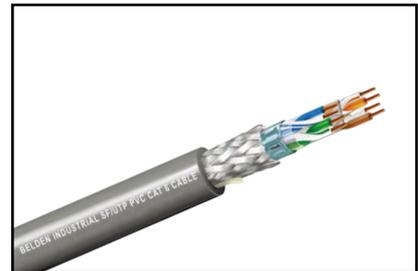
Belden Part Number	Color	Length
Category 6, 4-Pair, 24 AWG Solid UTP, PVC Jacket, CM, IEC 60332-3-25, Indoor/Outdoor		
50106U 010305M	Black	305 m (1000 ft)
50106U 006305M	Blue	305 m (1000 ft)
50106U 008305M	Gray	305 m (1000 ft)
Category 6, 4-Pair, 23 AWG Solid F/UTP, PVC Jacket, IEC 60332-3-25, Indoor/Outdoor		
50106F 010305M	Black	305 m (1000 ft)
50106F 006305M	Blue	305 m (1000 ft)
50106F 008305M	Gray	305 m (1000 ft)
Category 6, 4-Pair, 23 AWG Solid F/UTP, LSZH Jacket, IEC 60332-1, Indoor/Outdoor		
50106FL 010305M	Black	305 m (1000 ft)
50106FL 006305M	Blue	305 m (1000 ft)
50106FL 008305M	Gray	305 m (1000 ft)
Category 6, 4-Pair, 23 AWG Solid SF/UTP, PVC Jacket, IEC 60332-1, Category 6, Indoor		
50106FS 010305M	Black	305 m (1000 ft)
50106FS 006305M	Blue	305 m (1000 ft)
50106FS 008305M	Gray	305 m (1000 ft)
Category 6, 4-Pair, 23 AWG Solid F/UTP, SWA, LSZH Jacket, IEC 60332-3-24, Indoor/Outdoor		
50106FLS 010305M	Black	305 m (1000 ft)
50106FLS 006305M	Blue	305 m (1000 ft)
50106FLS 008305M	Gray	305 m (1000 ft)
Category 6, 4-Pair, 23 AWG Solid F/UTP, SWB, LSZH Jacket, IEC 60332-3-24, Indoor/Outdoor		
50106FLB 010305M	Black	305 m (1000 ft)
50106FLB 006305M	Blue	305 m (1000 ft)
50106FLB 008305M	Gray	305 m (1000 ft)



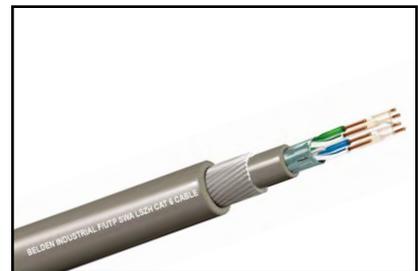
Belden Industrial UTP, PVC, Category 6 Cable



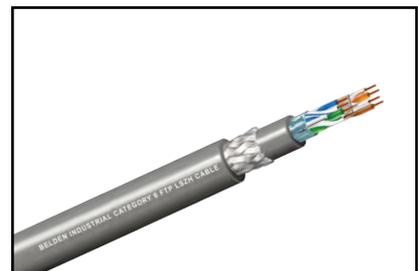
Belden Industrial F/UTP, PVC, Category 6 Cable



Belden Industrial SF/UTP, PVC, Category 6 Cable



Belden Industrial F/UTP, SWA, LSZH, Category 6 Cable

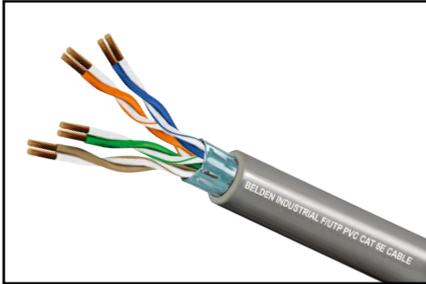


Belden Industrial F/UTP, SWB, LSZH, Category 6 Cable

Faster.
Easier.
Better.

Category 5E, Industrial Cables

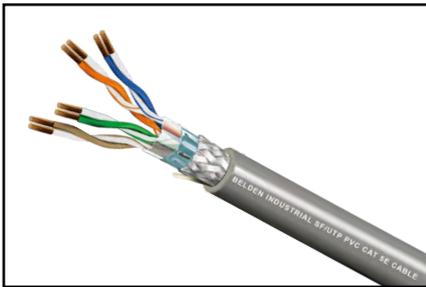
Nonbonded-Pair



Belden Industrial F/UTP, PVC, Category 5E Cable

Industrial Ethernet cables used in interconnecting Industrial Ethernet Switches, IP controllers, media converters, distributed control system, programmable logic controller and transmitting industrial protocol data signals. These cables are suitable for transmitting 1000BASE-TX Gigabit Ethernet, 100BASE-T Fast Ethernet,

100BaseVG ANYLAN, 155ATM, 622ATM, RS-422, 250MHz Category 5E, EtherCAT. These are highly durable & ruggedized cables for both indoor and outdoor use meeting having good flame retardant properties.



Belden Industrial SF/UTP, PVC, Category 5E Cable

Category 5E, Industrial Cables

Belden Part Number	Color	Length
Category 5E, 4-Pair, 24 AWG Solid F/UTP, PVC Jacket, CM, IEC 60332-3-25, Indoor/Outdoor		
50105F 010A305M	Black	305 m (1000 ft)
50105F 006A305M	Blue	305 m (1000 ft)
50105F 008A305M	Gray	305 m (1000 ft)
Category 5E, 4-Pair, 24 AWG Solid SF/UTP, PVC Jacket, IEC 60332-1, Indoor		
50105FS 010305M	Black	305 m (1000 ft)
50105FS 006305M	Blue	305 m (1000 ft)
50105FS 008305M	Gray	305 m (1000 ft)

Direct Attached Cables

Lower Power, Lower Latency & Higher Density

To meet the most stringent signal transmission performance requirements, QSFP+/SFP+ Direct Attached Cables are manufactured with Belden Lightskew Series cable. Easy pull-to-release latching mechanism. Compliant with the latest SFF-8431 and IEEE802.3 specifications. Supports 8x/4x/2x/1x Fibre Channel data rates for SANs and NAS. Connector cage designed for high-speed differential signaling. Supports Ethernet 25 Gb/s data rates with backwards compatibility to 1 Gb/s.

Applications

- Storage Area Networks (SAN), Network Attached Storage and Storage Servers
- Switched fabric I/O such as ultrahigh bandwidth switches and routers
- Fiber Channel over Ethernet
- High density connections between switches and servers



SFP+ Direct Attach Copper Cable Assemblies, 10Gb/s

Length	Color	AWG	Belden Part Number "Generic EEPROM"
0.5 m	SFP+ 2-pairs Belden Lightskew	30	APSSFPP-P00M5-1
1 m	SFP+ 2-pairs Belden Lightskew	30	APSSFPP-P01M0-1
2 m	SFP+ 2-pairs Belden Lightskew	30	APSSFPP-P02M0-1
3 m	SFP+ 2-pairs Belden Lightskew	30	APSSFPP-P03M0-1
5 m	SFP+ 2-pairs Belden Lightskew	26	APSSFPP-P05M0-1
7 m	SFP+ 2-pairs Belden Lightskew	24	APSSFPP-P07M0-1

QSFP+ Direct Attach Copper Cable Assemblies, 40Gb/s

Length	Color	AWG	Belden Part Number "Generic EEPROM"
0.5 m	QSFP+ 8-pairs Belden Lightskew	30	APQSSFP-P00M5-1
1 m	QSFP+ 8-pairs Belden Lightskew	30	APQSSFP-P01M0-1
2 m	QSFP+ 8-pairs Belden Lightskew	30	APQSSFP-P02M0-1
3 m	QSFP+ 8-pairs Belden Lightskew	30	APQSSFP-P03M0-1
5 m	QSFP+ 8-pairs Belden Lightskew	26	APQSSFP-P05M0-1

QSFP+ to 4/SFP+ Breakout Direct Attach Copper Cable Assemblies, 4x10Gb/s

Length	Color	AWG	Belden Part Number "Generic EEPROM"
0.5 m	4x SFP+ 2-pairs Belden Lightskew	30	APQSSFP-P00M5-1
1 m	4x SFP+ 2-pairs Belden Lightskew	30	APQSSFP-P01M0-1
2 m	4x SFP+ 2-pairs Belden Lightskew	30	APQSSFP-P02M0-1
3 m	4x SFP+ 2-pairs Belden Lightskew	30	APQSSFP-P03M0-1
5 m	4x SFP+ 2-pairs Belden Lightskew	26	APQSSFP-P05M0-1

SFP28 Direct Attach Copper Cable Assemblies, 25Gb/s

Length	Color	AWG	Belden Part Number "Generic EEPROM"
0.5 m	SFP28 2-pairs Belden Lightskew	30	APSF25-P00M5-1
1 m	SFP28 2-pairs Belden Lightskew	30	APSF25-P01M0-1
2 m	SFP28 2-pairs Belden Lightskew	30	APSF25-P02M0-1
3 m	SFP28 2-pairs Belden Lightskew	26	APSF25-P03M0-1
5 m	SFP28 2-pairs Belden Lightskew	26	APSF25-P05M0-1

QSFP28 Direct Attach Copper Cable Assemblies, 100Gb/s

Length	Color	AWG	Belden Part Number "Generic EEPROM"
0.5 m	QSFP100 8-pairs Belden Lightskew	30	APQQ100-P00M5-1
1 m	QSFP100 8-pairs Belden Lightskew	30	APQQ100-P01M0-1
2 m	QSFP100 8-pairs Belden Lightskew	30	APQQ100-P02M0-1
3 m	QSFP100 8-pairs Belden Lightskew	26	APQQ100-P03M0-1
5 m	QSFP100 8-pairs Belden Lightskew	26	APQQ100-P05M0-1

QSFP28 to 4/SFP28 Breakout Direct Attach Copper Cable Assemblies, 4x25Gb/s

Length	Color	AWG	Belden Part Number "Generic EEPROM"
0.5 m	4x SFP28 2-pairs Belden Lightskew	30	APQ4S25-P00M5-1
1 m	4x SFP28 2-pairs Belden Lightskew	30	APQ4S25-P01M0-1
2 m	4x SFP28 2-pairs Belden Lightskew	30	APQ4S25-P02M0-1
3 m	4x SFP28 2-pairs Belden Lightskew	26	APQ4S25-P03M0-1
5 m	4x SFP28 2-pairs Belden Lightskew	26	APQ4S25-P05M0-1

Any specific requirements out of generic type, please contact Belden team for more information

Faster.
Easier.
Better.

Active Optical Cables

Lower Power, Lower Cost East-Release Pull Tabs



Save money without compromising speed or system performance with Belden's Active Optical Cable (AOC). Achieve high coupling efficiency of ~60%, high yield and low power consumption with these reliable solutions. A customized connectivity solution using Belden's fiber optic products will provide what you need to drive higher speeds and improve data connectivity while reducing operating cost. Easy pull-to-release latching mechanism. Compliant with the latest MSA SFF-8431 and IEEE802.3 specifications. Supports 8x/4x/2x/1x Fibre

Channel data rates for SANs and NAS. Connector cage designed for high-speed differential signaling.

Applications

- InfiniBand (SDR, DDR, QDR, FDR, EDR)
- 25G Ethernet
- Fibre channel (25GFC)
- Top-of-rack switching
- Storage area networks

SFP+ Active Optical Cable Assemblies, 10Gb/s

Length	Color	Belden Part Number "Generic EEPROM"
1 m	Aqua	APAS+S+10G001MLSA
2 m	Aqua	APAS+S+10G002MLSA
3 m	Aqua	APAS+S+10G003MLSA
5 m	Aqua	APAS+S+10G005MLSA
7 m	Aqua	APAS+S+10G007MLSA
10 m	Aqua	APAS+S+10G010MLSA
30 m	Aqua	APAS+S+10G030MLSA

QSFP+ Active Optical Cable Assemblies, 40Gb/s

Length	Color	Belden Part Number "Generic EEPROM"
1 m	Aqua	APAQ+Q+40G001MLSA
3 m	Aqua	APAQ+Q+40G003MLSA
5 m	Aqua	APAQ+Q+40G005MLSA
7 m	Aqua	APAQ+Q+40G007MLSA
10 m	Aqua	APAQ+Q+40G010MLSA
30 m	Aqua	APAQ+Q+40G030MLSA

QSFP+ to 4/SFP+ Breakout Active Optical Cable Assemblies, 4x10Gb/s

Length	Color	Belden Part Number "Generic EEPROM"
1 m	Aqua	APAQ+S+40G001MLSA
3 m	Aqua	APAQ+S+40G003MLSA
5 m	Aqua	APAQ+S+40G005MLSA
7 m	Aqua	APAQ+S+40G007MLSA
10 m	Aqua	APAQ+S+40G010MLSA
30 m	Aqua	APAQ+S+40G030MLSA

SFP28 Active Optical Cable Assemblies, 25Gb/s

Length	Color	Belden Part Number "Generic EEPROM"
1 m	Aqua	APAS2S225G001MLSA
2 m	Aqua	APAS2S225G002MLSA
3 m	Aqua	APAS2S225G003MLSA
5 m	Aqua	APAS2S225G005MLSA
7 m	Aqua	APAS2S225G007MLSA
10 m	Aqua	APAS2S225G010MLSA
30 m	Aqua	APAS2S225G030MLSA

QSFP28 Active Optical Cable Assemblies, 100Gb/s

Length	Color	Belden Part Number "Generic EEPROM"
1 m	Aqua	APAQ2Q21XG001MLSA
3 m	Aqua	APAQ2Q21XG003MLSA
5 m	Aqua	APAQ2Q21XG005MLSA
7 m	Aqua	APAQ2Q21XG007MLSA
10 m	Aqua	APAQ2Q21XG010MLSA
30 m	Aqua	APAQ2Q21XG030MLSA

QSFP28 to 4/SFP28 Breakout Active Optical Cable Assemblies, 4x25Gb/s

Length	Color	Belden Part Number "Generic EEPROM"
1 m	Aqua	APAQ2S21XG001MLSA
3 m	Aqua	APAQ2S21XG003MLSA
5 m	Aqua	APAQ2S21XG005MLSA
7 m	Aqua	APAQ2S21XG007MLSA
10 m	Aqua	APAQ2S21XG010MLSA
30 m	Aqua	APAQ2S21XG030MLSA

Any specific requirements out of generic type, please contact Belden team for more information

Fiber System

The FiberExpress (FX) Systems are the culmination of Belden's experience and expertise in a variety of application, including data centers, premise and campus network backbone infrastructures, fiber-to-the-desk (FTTD) applications, and horizontal and centralized cabling systems.

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Faster.
Easier.
Better.

Belden Fiber Express® Systems Reduce Complexity and Increase Flexibility

Involved in the development of optical fiber components for over 40 years, Belden is a leading supplier of high-quality, cost-effective optical fiber cabling systems. The FX Systems are the culmination of Belden's experience and expertise in a variety of applications, including data centers, premise and campus network backbone infrastructures, fiber-to-the-desk (FTTD) applications, and horizontal and centralized cabling systems. Guaranteed to meet or exceed all applicable ANSI/TIA, ISO/IEC and IEEE standards, each end-to-end FX System is designed to offer reduced complexity, increased flexibility, and rapid installation.

LEED documents are available for several products. See specific product pages for LEED document retrieval instructions.



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A Complete Approach to Fiber Optic Cabling

Belden FX System are available in a variety of performance levels to meet the value and price point for a wide variety of applications. Each system is uniquely color-coded for easy identification in the field

The following is a recap of the five Belden FX Systems that are offered today:

Belden System	FX OM1	FX OM2	FX OM3	FX OM4	FX SM
Standard	OM1 - 62.5 um ANSI/TIA-568-3.D ISO 11801	OM2 - 50 um Normal & Bend Insensitive ANSI/TIA-568-3.D ISO 11801	OM3 - 50 um Normal & Bend Insensitive ANSI/TIA-568-3.D ISO 11801	OM4 - 50 um Normal & Bend Insensitive ANSI/TIA-568-3.D ISO 11801	OS2 Normal & Bend Insensitive ITU G.652.D
Ethernet Applications	Legacy 1G up to 275 m	Not Recommended for New Designs	1G up to 550 m 10G up to 300 m 40G/100G up to 100 m	10G up to 400 m 40G/100G up to 150 m	10G up to 30/40 km 40G/100G up to 10/40 km
Fibre Channel Applications	Legacy 1G up to 300 m	Not Recommended for New Designs	4G up to 380 m 8G up to 150 m 16G up to 100 m	16G up to 125 m	4/8/16G up to 10 km
Fiber Cable Assemblies Jacket Color	Orange	Orange	Aqua	Erika Violet Aqua (optional)*	Yellow
Connector & Adapter Color	MPO-N/A LC/SC Beige	MPO-N/A LC/SC Beige	MPO-Aqua LC/SC Beige	MPO-Erika Violet LC/SC Beige	MPO-Green LC/SC Green/Blue
Pre-Term Connector Loss	MPO-N/A LC/SC FC/ST 0.25 dB	MPO-N/A LC/SC FC/ST 0.25 dB	MPO-0.3 dB LC/SC FC/ST 0.25 dB	MPO-0.2 dB LC/SC FC/ST 0.15 dB	MPO-0.5 dB (SM/APC), 0.35 dB (SM/APC Elite) LC/SC/FC/ST 0.3 dB
Fiber Loss	Tight Buffer (900 um) 3.0 dB @ 850nm 1.0 dB @ 1300nm Loose Tube (250 um) 3.5 dB @ 850nm 1.0 dB @ 1300nm	Tight Buffer (900 um) 3.0 dB @ 850nm 1.0 dB @ 1300nm Tight Buffer Bend Insensitive (900um) 3.0 dB @ 850nm 1.0 dB @ 1300nm Loose Tube (250um) 3.5 dB @ 850nm 1.0 dB @ 1300nm	Tight Buffer (900 um) 3.0 dB @ 850nm 1.0 dB @ 1300nm Tight Buffer Bend Insensitive (900um) 3.0 dB @ 850nm 1.0 dB @ 1300nm Loose Tube (250um) 3.5 dB @ 850nm 1.0 dB @ 1300nm	Tight Buffer (900 um) 3.0 dB @ 850nm 1.0 dB @ 1300nm Tight Buffer Bend Insensitive(900um) 3.0 dB @ 850nm 1.0 dB @ 1300nm Loose Tube (250 um) 3.5 dB @ 850nm 1.0 dB @ 1300nm	Tight Buffer (900 um) 0.36 dB @ 1310nm 0.22 dB @ 1550nm Loose Tube (250 um) 0.36 dB @ 1310nm 0.22 dB @ 1550nm
Min. OFL Bandwidth (MHz-km)	200 @ 850 nm 600 @ 1300 nm	700 @ 850 nm 500 @ 1300 nm	1500 @ 850 nm 550 @ 1300 nm	3500 @ 850 nm 550 @ 1300 nm	N/A

* Belden Standard OM4 products use Erika Violet Cable (Aqua is optional), OM3 product use Aqua Cable, OM1/OM2 product use Orange Cable, OS2 product product use Yellow Cable.

Faster.
Easier.
Better.

FiberExpress Field Termination FX Fusion Splice-On Connectors



FX Fusion Splice-On Connectors

Belden's FX Fusion Splice-On connector combine the benefits of fusion splicing with the versatility of a field-installable connector to provide superior performance and installation reliability.

FASTER

- Faster deployment with increased first pass termination yield

EASIER

- Easier termination technique with automated splicing tools
- Easier with existing termination tools and compatible splicers

BETTER

- Better insertion and return loss performance for futureproof networks
- Better versatility for both indoor and outdoor environments



FT3SC900FS01, FX Fusion OM3/OM4 SC Connector with 900/250 µm Boot, Aqua



FTSLB2MMFS01, FX Fusion OS2/APC LC Connector with 2 mm Boot, Green

Connector Performance

Fiber Type	Maximum Insertion Loss	Minimum Reflectance
Singlemode UPC	0.3 dB	-55 dB
Singlemode APC	0.3 dB	-65 dB
Multimode OM1	0.25 dB	-25 dB
Multimode OM3/OM4	0.2 dB	-25 dB

FX Fusion Multimode Connectors

Description	Belden Part Number		
	Multimode, OM1 - Beige	Multimode, OM3/OM4 - Aqua	Multimode, OM4 - Erika Violet
LC with 900/250 µm Boot, 1/Pack	FT1LC900FS01	FT3LC900FS01	FT4LC900FS01
SC with 900/250 µm Boot, 1/Pack	FT1SC900FS01	FT3SC900FS01	FT4SC900FS01
LC with 2 mm Boot, 1/Pack	FT1LC2MMFS01	FT3LC2MMFS01	FT4LC2MMFS01
SC with 2 mm Boot, 1/Pack	FT1SC2MMFS01	FT3SC2MMFS01	FT4SC2MMFS01

FX Fusion connectors with 900/250 µm boot are not compatible for termination on breakout kits.

FX Fusion Singlemode Connectors

Description	Belden Part Number	
	Singlemode, OS2 - Blue	Singlemode, OS2/APC - Green
LC with 900/250 µm Boot, 1/Pack	FTSLC900FS01	FTSLB900FS01
SC with 900/250 µm Boot, 1/Pack	FTSSC900FS01	FTSSB900FS01
LC with 2 mm Boot, 1/Pack	FTSLC2MMFS01	FTSLB2MMFS01
SC with 2 mm Boot, 1/Pack	FTSSC2MMFS01	FTSSB2MMFS01

FX Fusion connectors with 900/250 µm boot are not compatible for termination on breakout kits.

FiberExpress Field Termination (continued) FX Fusion Splicer Installation Kits and Accessories

Improve Installer Comfort, Repeatability and Performance

Belden's FX Fusion installation kits and active cladding alignment splicer delivers affordable, high-quality performance for consistent and reliable terminations.

FX Fusion Splicer

Description	Belden Part Number
FX Fusion Active Cladding Splicer Kit (includes splicer, splice holder, charger, spare electrodes, cooling tray, carrying case with strap, screwdriver, and fiber seath clamps)*	FXFSTOSPL

*Belden's FX Fusion splicer is compatible with Splice Holder Family 2, part #FXFSSHFM2 (included), when terminating FX Fusion connectors



FXFSTOSPL, FX Fusion Active Cladding Splicer Kit

FX Fusion Installation Kits

Description	Belden Part Number
Standard Tool Kit (Standard Cleaver, Fiber Preparation Tools)	FXFSTOSTK
Precision Tool Kit (Precision Cleaver, Fiber Preparation Tools)	FXFSTOPTK

FX Fusion Accessories

Installation Kit Accessories

Description	Belden Part Number
Precision Cleaver	FXFSTOPCL
Standard Cleaver	FXFSTOSCL
Slitter for Jacketed Fiber	FXFSTOSLT
Splice Holder Family 1	FXFSSHFM1
Splice Holder Family 2	FXFSSHFM2
Splice Holder Family 3	FXFSSHFM3

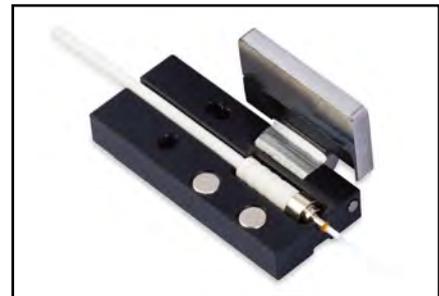
For a complete list of FX Fusion compatible splicers and holders, please visit www.belden.com/splice-on and refer to the installation tools reference guide.

Splicer Kit Accessories and Spare Parts

Description	Belden Part Number
AC Adapter/Charger	FXFSTOSAC
Shoulder Strap	FXFSTOSSS
Cleaning Brushes	FXFSTOSCB
Fiber Holders/Clamps	FXFSTOSFC
Spare Electrode	FXFSTOSSE
Cooling Tray	FXFSTOSCT
Carrying Case	FXFSTOSCC
User Guide CD	FXFSTOSCD
Keys for Lock	FXFSTOSKY
Screwdriver	FXFSTOSSD
Yellow Tackle Box	FXFSTOSTB



FXFSTOSCL, FX Fusion Standard Cleaver



FXFSSHFM2, Splice Holder Family 2

FX Fusion Connectors

Fixed Letter Series: **FT**

1. Choose Fiber Type: **3**

4. Choose Connector for Patch Side: **LC**

3. Choose Cable Type: **900**

2. Choose Product Family: **F**

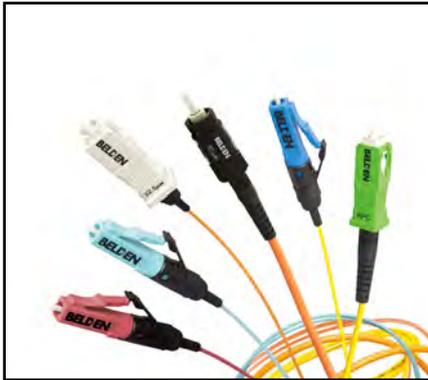
5. Choose Packaging: **S01**

Fiber Type	Connector	Cable Type	Product Family	Packaging
1 OM1	LC LC Simplex	900 Tight Buffer	F Splice-On	S01 Single Pack
3 OM3	LB LC/APC Simplex	2MM Jacketed		
4 OM4	SC SC Simplex			
S OS2	SB SC/APC Simplex			

Faster.
Easier.
Better.

FiberExpress Field Termination (continued) FX Brilliance Universal Connectors

Brilliant in design and universal in implementation, FX Brilliance Universal no-epoxy, no-polish, no-crimp field-installable connectors make fiber field termination faster, easier and better with our industry-leading design.



FX Brilliance Universal Connectors

FASTER

- Faster fiber termination in as few as 5 seconds
- Faster installation proficiency through simple termination technique
- Faster 250 μm direct installation eliminating break-out kits

EASIER

- Easier with no epoxy or polishing
- Easier no-crimp design
- Easier with Duplex clips to hold TX/RX pairs together

BETTER

- Better termination yield with integrated VFL feedback
- Better universal cable support for 250 μm , 900 μm , 2 mm Jacketed, 3 mm Jacketed
- Better universal fiber support for OM1, OM2, OM3, OM4 as well as OS2

Three Simple Steps



Connector Performance	Maximum Insertion Loss	Typical Insertion Loss	Return Loss
Multimode	0.5 dB	0.2 dB	25 dB
Singlemode UPC	0.5 dB	0.3 dB	50 dB
Singlemode APC	0.5 dB	0.3 dB	60 dB

Description	Belden Part Number			
	Multimode, OM1	Multimode, OM2	Multimode, OM3/ OM4 - Aqua	Multimode, OM4 - Erika Violet
LC with 900 μm Boot, 25 per package	AX105200-B25	AX105201-B25	AX105202-B25	AX105252-B25
SC with 900 μm Boot, 25 per package	AX105205-B25	AX105206-B25	AX105207-B25	AX105253-B25
ST with 900 μm Boot, 25 per package	AX105210-B25	AX105211-B25	AX105212-B25	AX105254-B25

Replace-B25 with-S1 for sample 1 per package.

Description	Belden Part Number			
	Singlemode, OS2		Singlemode, OS2/APC	
	1 per package	25 per package	1 per package	25 per package
LC with 900 μm Boot	AX105203-S1	AX105203-B25	-	-
SC with 900 μm Boot	AX105208-S1	AX105208-B25	AX105209-S1	AX105209-B25
ST with 900 μm Boot	AX105213-S1	AX105213-B25	-	-

FX Brilliance Universal includes a boot for 900 μm Tight Buffered fiber. Boots for 2 mm/3 mm Jacketed fiber are sold separately.

Description	Belden Part Number
2 mm jacketed Boot, 25 per package	AX105214-B25
3 mm jacketed Boot, 25 per package	AX105215-B25
250 μm Boot, 25 per package	FXBUB025-B25N

Description	Belden Part Number
LC Duplex Clip (Black), 25 per package	FXBUCLLD25N
SC Duplex Clip (Black), 25 per package	FXBUCLSD25N

FiberExpress Field Termination (continued) FX Brilliance Universal Installation Kits and Accessories

Improve Installer Comfort, Repeatability and Performance

Although termination of the FX Brilliance Universal connector can be done with no specialized tools, installation kits are available with all the tools necessary to prepare the fiber as well as to provide a stable work platform to achieve optimal installation results.

FX Brilliance Installation Kit

Description	Belden Part Number
Precision Installation Kit (Basic Kit, Fiber Preparation Tools, Precision Cleaver and Visual Fault Locator)	AX104271

FX Brilliance Accessories

Description	Belden Part Number
Precision Cleaver	AX104286
Precision Cleaver Replacement Blade (for FC-7 cleaver)	AX104293
Precision Cleaver Replacement Blade (for FC-7R cleaver)	AX104593
Support Handle with Adapters	AX104276
Support Handle LC Adapter	AX104289
Support Handle SC Adapter	AX104290
Support Handle ST Adapter	AX104291
Visual Fault Locator (VFL-250) with Adapter Cords	AX104283
Visual Fault Locator (VFL-125) LC-LC Adapter Cord	AX203567
Visual Fault Locator (VFL-125/250) LC-SC Adapter Cord (valid for ST also)	AX203568
Visual Fault Locator (VFL-250) SC-SC Adapter Cord (valid for ST also)	AX203569
Visual Fault Locator (VFL-125) LC-SC/APC Adapter Cord & Support Handle SC/APC Adapter	AX203895
Visual Fault Locator (VFL-250) SC-SC/APC Adapter Cord & Support Handle SC/APC Adapter	AX203930
Fiber/Cable Stripper	AX103151
Pen Marker	AX104279
Refurbishing Materials (80 alcohol wipes and a black pen marker)	AX100951
Safety Glasses	AX104282
Scissors	AX104280
Tweezers	AX104278
Waste Bottle	AX104281

Ensure Durable Rugged Installation on 250 µm Fiber

Field Breakout kits are available to provide a durable 900 µm coating for 250 µm fibers to ensure optimal retention, flex and twist support without sacrificing the outdoor performance of loose-tube cables or the small diameter of mini-distribution cable.

Breakout Kits

Description	Belden Part Number
Breakout Kit for 2.0 mm Subunits, 6-fiber, 1-Pack	AX101100
Breakout Kit for 3.0 mm Subunits, 12-fiber, 1-Pack	AX101101
Breakout Kit for 5.2 mm Subunits (Central Tube), 6-fiber, 1-Pack	AX104695
Breakout Kit for 5.2 mm Subunits (Central Tube), 12-fiber, 1-Pack	AX104696



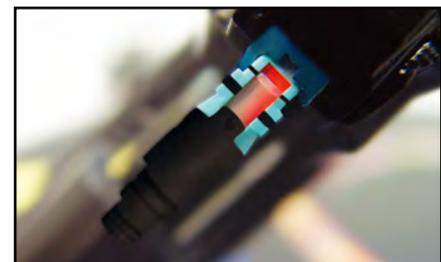
AX104271, Precision Installation Kit



AX104286, Precision Cleaver



AX104276, Support Handle with Adapters

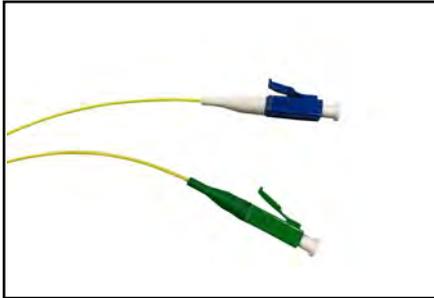


When used with the VFL, a light can be seen through the clear window on the connector body until a fiber has been properly terminated

Faster.
Easier.
Better.

FiberExpress Field Termination (continued)

FX Pigtails



FiberExpress LC Pigtail

Established technology with a pedigree of resilience. Traditional fusion splice-on connectors with pigtails provide factory-polished performance with field-termination convenience within harsh environments.

FASTER

- Faster connector identification with color-coded pigtail kits
- Faster delivery with standard LC, SC or ST 2 meter pigtail kits

EASIER

- Easier field-termination with factory pre-terminated connectors
- Easier ordering with intuitive *SmartPart* numbers

BETTER

- Better quality with precision factory-polished connectors
- Insertion loss $\leq 0.3\text{dB}$

FiberExpress Field Termination Pigtail Kits

Description	Belden Part Number				
	OM1	OM2	OM3	OM4	OS2
LC	TF1LC900PS01	TF2LC900PS01	TF3LC900PS01	TF4LC900PS01	TFSLC900PS01
SC	TF1SC900PS01	TF2SC900PS01	TF3SC900PS01	TF4SC900PS01	TFSSC900PS01
ST	TF1ST900PS01	TF2ST900PS01	TF3ST900PS01	TF4ST900PS01	TFSSST900PS01
FC	TF1FC900PS01	TF2FC900PS01	TF3FC900PS01	TF4FC900PS01	TFSSFC900PS01

See page 74 for standard fiber color code charts

Fusion Splice Heat Shrink Protector Sleeves

Description	Belden Part Number
Heat Shrink splice Protector Sleeves, 900 μm to 900 μm , 2.5 mm round x 60 mm long, 25/package	FXFUHS900AB25
Heat Shrink splice Protector Sleeves, 900 μm to 250 μm , 2.0 mm round x 40 mm long, 25/package	FXFUHS9T2CB25
Heat Shrink splice Protector Sleeves, 250 μm to 250 μm , 1.5 mm round x 40 mm long, 25/package	FXFUHS250DB25
Heat Shrink splice Protector Sleeves, 250 μm 12-fiber Ribbon, oval x 40 mm long, 12/package	FXFUHSRIBEB12

Tailored Pigtails

Building a SmartPart Number

The fixed letter series

TF

1. Choose Fiber Type

3

2. Choose Connectors

LC

3. Choose Cable Type

900

4. Choose Product Family

P

5. Choose Packaging

S01

Fiber Type	Connectors	Cable Type	Product Family	Packaging
1 OM1	LC LC Simplex	900 0.9mm Tight Buffer (PVC)	P Fusion Pigtails	S01 Single Pack
2 OM2	LB LC/APC Simplex	901 0.9mm Tight Buffer (LSZH)		R12 Rainbow 12 Pk
3 OM3	SC SC Simplex	200 2.0mm Simplex PVC Jacket		
4 OM4	SB SC/APC Simplex	201 2.0mm Simplex LSZH Jacket		
5 OM5	ST ST	300 3.0mm Simplex PVC Jacket		
S G652D (OS2)	FC FC	301 3.0mm Simplex LSZH Jacket		
X OM3 (BI)	FA FC/APC			
Y OM4 (BI)				
Z G657 A2				

Examples:

TF4LC900PS01 - FX Field-Termination Pigtails, OM4, LC Simplex, Tight Buffer 900um, Open-Ended, 2M

TFSSC900PS01 - FX Field-Termination Pigtails, OS2, SC Simplex, Tight Buffer 900um, Open-Ended, 2M

Please contact Belden for customized solutions.

FiberExpress Patch Panel Systems

FX UHD Housings and Shelves

Elegantly simple yet uncompromisingly flexible. Ultra high-density racks-mount fiber connectivity system, crafted for effortless installation and maintenance.

FASTER

- Faster field-termination with high-accessibility sliding and tilting drawers
- Faster pre-term installation with simple fixed shelves and cassettes

EASIER

- Easier installation with tool-less removable drawers and lightweight housings
- Easier port identification with clear visible labeling
- Easier to configure with flexible port count LC, SC, ST and MPO modules

BETTER

- Better fiber protection with covered patch cord tray
- Better high density offering with 18-port modules for up to 72 LC Duplex ports per 1U
- Better visibility with light colored Titanium finish

FX UHD Housings

Feature-rich housings are fully enclosed to provide protection for exposed 250 µm and 900 µm fibers coupled with sliding and tilting drawers to speed up and simplify installation and maintenance.

Description	Number of Module Bays	Total LC Duplex/ MPO Ports using FX Ultra Frames and Cassettes	Total LC Duplex/ MPO Ports using FX UHD Frames and Cassettes	Belden Part Number	
				Titanium	Black
1U Housing with Front and Rear Cable Tray	4	48	72	AX104681	AX105563
2U Housing with Front and Rear Cable Tray	8	96	144	AX104682	AX105564
4U Housing with Front and Rear Cable Tray	16	192	288	AX104683	AX105565
4U 23" Housing with Front and Rear Cable Tray	20	240	360	AX105379	-
Optional 1U Splice Housing Kit, 144 splices (add up to 4 on the 4U Housing) ¹	N/A	N/A	N/A	AX104684	AX105678
Optional Patch Cord Tray Cover, 19" ²	N/A	N/A	N/A	AX105162	AX105672

1. Up to 4 splice housing kits can be added to 4U housings. Splice housing kits are only compatible with standard 19" rack mount housings.
2. Use with 1U or 4U housings to protect the contents of the topmost patch cord tray. Patch cord tray cover is included with 23" housings.

FX UHD Shelves, Single Cassette Holder

Entry-level cost effective solutions for pre-terminated systems.

Description	Number of Module Bays	Total LC Duplex/ MPO Ports using FX Ultra Frames and Cassettes	Total LC Duplex/ MPO Ports using FX UHD Frames and Cassettes	Belden Part Number	
				Titanium	Black
1U FX UHD Bezel	4	48	72	AX105813	AX105812
1U Standard Fixed Shelf	4	48	72	AX105164	AX105673
1U Recessed Fixed Shelf	4	48	72	AX105165	AX105674
4U Standard Fixed Shelf	10	120	180	AX105166	AX105675
4U Recessed Fixed Shelf	10	120	180	AX105167	AX105676
FX UHD Single & Double Cassette Holders				Magnetic	Non-Magnetic
Single Cassette Holder (Black Finish)	1	18	12	FXFUBRSHM	FXFUBRSHS
Double Cassette Holder (Black Finish)	1	36	24	FXFUBRDHM	FXFUBRDHS

See the FX UHD System Product Bulletin (PB500) for further options



Top: AX104681, FX Ultra HD 1U Patch Panel Housing
Bottom: AX104683, FX UHD 4U Patch Panel Housing (shown loaded)



AX104681, FX UHD Patch Panel 1U with Mounted Splice Housing Kit (AX104684)



Top: AX105164, FX UHD 1U Patch Panel Standard Shelf
Bottom: AX105167, FX UHD 4U Patch Panel Recessed Shelf (shown loaded)



AX105813 FX UHD 1U Bezel



Top: FXFUBRSHM, FX UHD Single Cassette Holder with Magnetic Attachment
Bottom: FXFUBRDHM FX UHD Double Cassette Holder with Magnetic Attachment

Faster.
Easier.
Better.

FiberExpress Patch Panel Systems (continued) FX UHD and FX Ultra Cassettes

FX UHD and FX Ultra Cassettes

Featuring the highest density at 72 LC Duplex or MPO ports per 19" rack unit FX UHD family is the ideal choice for high-port count applications such as in the data center.

Unique 1" pull-out feature of the FX Ultra family provides a medium density solution with a superior ease of use for day-to-day MAC (moves, adds and changes) within the Enterprise or cross-connect within the data center.



FCSH18LDMF, FX UHD Cassette, OS2, 18 Ports, MPO-12 (female), LC Duplex, Type-A, Blue Adapters



FC3U12LDMF1A, FX Ultra Cassette, OM3, 12 Ports, MPO-12 (female), LC Duplex, Type-A ALT, Aqua Adapters



FC3H12LDFS, FX UHD Splice Cassette, OM3, 12 Ports, LC duplex, Aqua Adapters



FCZH00BBFS, FX UHD Empty Splice Cassette

Standard Type-A Cassettes (Base12)

Description			Belden Part Number				
Patch Ports (fibers)	Trunk Ports	Family	OM1 Beige Adapters	OM3 Aqua Adapters	OM4 Erika Violet Adapters	OS2 Blue Adapters	OS2/APC Green Adapters
LC Duplex to MPO-12(12f) Female							
18 (36)	3	FX UHD*	-	FC3H18LDMF	FC4H18LDMF	FCSH18LDMF	FCSH18LAMF
12 (24)	2	FX Ultra	FC1U12LDMF	FC3U12LDMF	FC4U12LDMF	FCSU12LDMF	FCSU12LAMF
SC Duplex to MPO-12(12f) Female							
6 (12)	1	FX Ultra	FC1U06SDMF	FC3U06SDMF	FC4U06SDMF	FCSU06SDMF	FCSU06SAMF
SC Simplex to MPO-12(12f) Female							
12 (12)	1	FX Ultra	-	-	-	FCSU12SCMF	FCSU12SBMF

*Optional HD Patch cord release tool AX104685

Standard Type-A-Alternate Cassettes (Base12)

Description			Belden Part Number				
Patch Ports (fibers)	Trunk Ports	Family	OM1 Beige Adapters	OM3 Aqua Adapters	OM4 Erika Violet Adapters	OS2 Blue Adapters	OS2/APC Green Adapters
LC Duplex to MPO-12(12f) Female							
18 (36)	3	FX UHD	-	FC3H18LDMF1A	FC4H18LDMF1E	FCSH18LDMF1B	FCSH18LAMF1G
12 (24)	2	FX Ultra	FC1U12LDMF1T	FC3U12LDMF1A	FC4U12LDMF1E	FCSU12LDMF1B	FCSU12LAMF1G
SC Duplex to MPO-12(12f) Female							
6 (12)	1	FX Ultra	FC1U06SDMF1T	FC3U06SDMF1A	FC4U06SDMF1E	FCSU06SDMF1B	FCSU06SAMF1G
SC Simplex to MPO-12(12f) Female							
12 (12)	1	FX Ultra	-	-	-	FCSU12SCMF1B	FCSU12SBMF1G

Standard Splice Cassettes

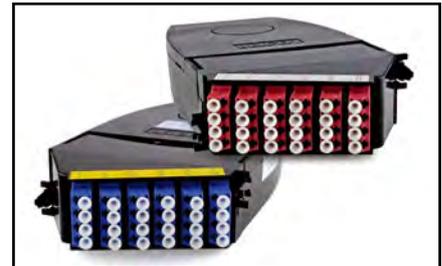
Description	Belden Part Number				
Patch Ports (fibers)	OM1 Beige Adapters	OM3 Aqua Adapters	OM4 Erika Violet Adapters	SM Blue Adapters	OS2/APC Green Adapters
MPO Type-A (Key-Up/Key-Down)					
12 (144)	FC1H12MPFS	FC3H12MPFS	FC4H12MPFS	-	FCSH12MPFS
LC Duplex					
12 (24)	FC1H12LDFS	FC3H12LDFS	FC4H12LDFS	FCSH12LDFS	FCSH12LAFS
SC Duplex					
6 (12)	FC1H06SDFS	FC3H06SDFS	FC4H06SDFS	FCSH06SDFS	-
SC Simplex					
12 (12)	-	-	-	-	FCSH12SBFS
ST (Metal Adapters)					
12 (12)	FCSH12STFS				
Splice Only (No Adapters)					
N/A (144)	FCZ00BBFS				

FiberExpress Patch Panel Systems (continued)

FX UHD and FX Ultra Cassettes

Standard FX UHD Angled Cassettes (Base12)

Description	(fibers) Left			Right		
Patch Ports (fibers)	OM3 Aqua Adapters	OM4 Erika Violet Adapters	SM Blue Adapters	OM3 Aqua Adapters	OM4 Erika Violet Adapters	OS2 Blue Adapters
LC Duplex to MPO-12(12f) Female Type-A						
12(24)	FC3L12LDMF	FC4L12LDMF	FCSL12LDMF	FC3R12LDMF	FC4R12LDMF	FCSR12LDMF
LC Duplex to MPO-12 (12f) Female Type-A Alternate						
12(24)	FC3L12LDMF1A	FC4L12LDMF1E	FCSL12LDMF1B	FC3R12LDMF1A	FC4R12LDMF1E	FCSR12LDMF1B
SC Duplex to MPO-12(12f) Female Type-A						
6 (12)	FC3L06SDMF	FC4L06SDMF	FCSL06SDMF	FC3R06SDMF	FC4R06SDMF	FCSR06SDMF
SC Duplex to MPO-12(12f) Female Type-A Alternate						
6 (12)	FC3L06SDMF1A	FC4L06SDMF1E	FCSL06SDMF1B	FC3R06SDMF1A	FC4R06SDMF1E	FCSR06SDMF1B



FX UHD Angled Cassettes, 12 Ports, LC Duplex. See Tailored *SmartPart* numbers for Details.



FX UHD Angled Cassettes (shown installed in FX UHD 1U Housing with Belden Angleflex Copper Patch Patch)

Tailored FX UHD and FX Ultra Cassettes (Base12)

Building a SmartPart Number

Fixed Letter Series	1. Choose Fiber Type	2. Choose Product Family	3. Choose Port Count (Patch Side)	4. Choose Connector (Patch Side)	5. Choose Connector (Trunk Side)	6. Choose Polarity (Trunk)	7. Choose Adapter Color																																			
FC	3	U	03	LD	MM	A	A																																			
	<table border="1"> <thead> <tr> <th>Fiber Type</th> <th>Product Family</th> </tr> </thead> <tbody> <tr> <td>1 OM1</td> <td>H FX UHD</td> </tr> <tr> <td>3 OM3</td> <td>U FX Ultra (1" Pull)</td> </tr> <tr> <td>4 OM4</td> <td>L FX U Angled Left</td> </tr> <tr> <td>S OS2</td> <td>R FX U Angled Right</td> </tr> </tbody> </table>	Fiber Type	Product Family	1 OM1	H FX UHD	3 OM3	U FX Ultra (1" Pull)	4 OM4	L FX U Angled Left	S OS2	R FX U Angled Right	<table border="1"> <thead> <tr> <th>Port Count (Patch Side)</th> </tr> </thead> <tbody> <tr> <td>03</td> </tr> <tr> <td>06</td> </tr> <tr> <td>12</td> </tr> <tr> <td>18</td> </tr> </tbody> </table>	Port Count (Patch Side)	03	06	12	18	<table border="1"> <thead> <tr> <th>Connector (Patch Side)</th> </tr> </thead> <tbody> <tr> <td>LD LC Duplex</td> </tr> <tr> <td>LA LC/APC Duplex</td> </tr> <tr> <td>SD SC Duplex</td> </tr> <tr> <td>SC SC Simplex</td> </tr> <tr> <td>SA SC/APC Duplex</td> </tr> <tr> <td>SB SC/APC Simplex</td> </tr> <tr> <td>ST ST</td> </tr> </tbody> </table>	Connector (Patch Side)	LD LC Duplex	LA LC/APC Duplex	SD SC Duplex	SC SC Simplex	SA SC/APC Duplex	SB SC/APC Simplex	ST ST	<table border="1"> <thead> <tr> <th>Connector (Trunk Side)</th> </tr> </thead> <tbody> <tr> <td>MM MPO-12 (m)</td> </tr> <tr> <td>MF MPO-12 (f)</td> </tr> </tbody> </table>	Connector (Trunk Side)	MM MPO-12 (m)	MF MPO-12 (f)	<table border="1"> <thead> <tr> <th>Polarity (Trunk)</th> </tr> </thead> <tbody> <tr> <td>A Type-A</td> </tr> <tr> <td>1 Type-A ALT.</td> </tr> </tbody> </table>	Polarity (Trunk)	A Type-A	1 Type-A ALT.	<table border="1"> <thead> <tr> <th>Adapter Color</th> </tr> </thead> <tbody> <tr> <td>T Beige</td> </tr> <tr> <td>N Black</td> </tr> <tr> <td>A Aqua</td> </tr> <tr> <td>E Erika V.</td> </tr> <tr> <td>B Blue</td> </tr> <tr> <td>G Green</td> </tr> </tbody> </table>	Adapter Color	T Beige	N Black	A Aqua	E Erika V.	B Blue	G Green
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For further options contact Belden for customized solutions.

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FiberExpress Patch Panel Systems (continued)

FX UHD and FX Ultra Cassettes



FC3U034MMF, FX UHD Optimizer Cassette, OM3, Aqua Adapters



FCSU12LD4F, FX Ultra Cassette, OS2, 12 Ports, MPO-12 (female), LC Duplex, Base8, Blue Adapters

Belden FX UHD Base8 Cassettes

Optimized for SR4 and PSM4 based architectures like 40G and 100G Ethernet as well as Compute, Switch and Storage equipment with groupings of 4, 8 and 12 ports. Belden Base8 Cassettes optimize costs when used with Base8 MPO Trunks and Patch cords by eliminating dark fiber associated with SR4 & PSM4 architectures.

Standard SR4 Optimizer Cassettes (Base8)

Description			Belden Part Number		
Patch Ports (fibers)	Trunk Ports	Family	OM3 Aqua Adapters	OM4 Erika Violet Adapters	OS2/APC Green Adapters
MPO-12(8f) Male to MPO-12(12f) Female					
6 x MPO-12 (8f)	4 x MPO-12 (12f)	FX Ultra	FC3U064MMF	FC4U064MMF	FCSU064MMF
3 x MPO-12 (8f)	2 x MPO-12 (12f)	FX Ultra	FC3U034MMF	FC4U034MMF	FCSU034MMF

Standard SR4 Cassettes (Base8)

Description			Belden Part Number		
Patch Ports (fibers)	Trunk Ports	Family	OM3 Aqua Adapters	OM4 Erika Violet Adapters	OS2 Blue Adapters
LC Duplex to MPO-12(8f) Female					
16 (32)	4	FX UHD	FC3H16LD4F	FC4H16LD4F	FCSH16LD4F
12 (24)	3	FX Ultra	FC3U12LD4F	FC4U12LD4F	FCSU12LD4F
8 (16)	2	FX Ultra	FC3U08LD4F	FC4U08LD4F	FCSU08LD4F
4 (8)	1	FX Ultra	FC3U04LD4F	FC4U04LD4F	FCSU04LD4F

Standard SR4 Angled Cassettes (Base8)

Description	Left			Right		
Patch Ports (fibers)	OM3 Aqua Adapters	OM4 Erika Violet Adapters	OS2 Blue Adapters	OM3 Aqua Adapters	OM4 Erika Violet Adapters	OS2 Blue Adapters
LC Duplex to MPO-12(8f) Female						
12 (24)	FC3L12LD4F	FC4L12LD4F	FC3L12LD4F	FC3L12LD4F	FC4L12LD4F	FC3L12LD4F

Tailored FX UHD and FX Ultra Cassettes (Base8)

Building a SmartPart Number

Fixed Letter Series: **FC**

1. Choose Fiber Type: **3**

2. Choose Product Family: **U**

3. Choose Port Count (Patch Side): **04**

4. Choose Connector (Patch Side): **LD**

5. Choose Connector (Trunk Side): **4M**

6. Choose Polarity (Trunk): **4**

7. Choose Adapter Color: **A**

Fiber Type	Product Family	Port Count (Patch Side)	Connector (Patch Side)	Connector (Trunk Side)	Polarity (Trunk)	Adapter Color
3 OM3	H FX UHD	04 4 Ports	LD LC Duplex	4M MPO-12 (8f) Male	4 SR4 (Base8)	A Aqua
4 OM4	U FX Ultra	08 8 Ports		4F MPO-12 (8f) Female		E Erika V.
S OS2	L FX U Angled Left	12 12 Ports				B Blue
	R FX U Angled Right	16 16 Ports				

Default color without last two codes. For further options contact Belden for customized solutions.

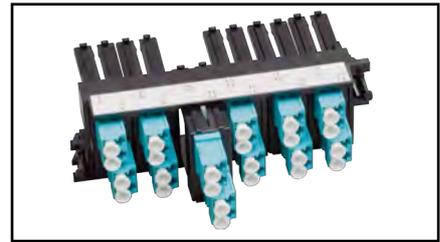
FiberExpress Patch Panel Systems (continued) FX UHD and FX Ultra Frames

Standard FX UHD and FX Ultra Frames

Description		Belden Part Number				
Patch Ports (fibers)	Family	OM1 Beige Adapters	OM3 Aqua Adapters	OM4 Erika Violet Adapters	SM Blue Adapters	SM/APC Green Adapters
MPO Type-A (Key-Up/Key-Down)						
18	FX UHD	–	FF3H18MP	FF4H18MP	–	FFSH18MP
12	FX Ultra	–	FF3U12MP	FF4U12MP	–	FFSU12MP
LC Duplex						
18 (36)	FX UHD	–	FF3H18LD	FF4H18LD	FFSH18LD	FFSH18LA
12 (24)	FX Ultra	FF1U12LD	FF3U12LD	FF4U12LD	FFSU12LD	FFSU12LA
SC Duplex						
6 (12)	FX Ultra	FF1U06SD	FF3U06SD	FF4U06SD	FFSU06SD	FFSU06SA
SC Simplex						
12 (12)	FX Ultra	–	–	–	FFSU12SC	FFSU12SB
ST						
12 (12), Metal	FX Ultra	← FFSU12ST →				–



FF3H18LD, FX UHD Frame, OM3, 18 Ports, LC Duplex, Aqua Adapters



FF3U12LD, FX Ultra Frame, OM3, 12 Ports, LC Duplex, Aqua Adapters

Tailored FX UHD and FX Ultra Frames Building a SmartPart Number

Fixed Letter Series: **FF**

1. Choose Fiber Type: **3**

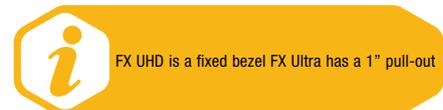
2. Choose Product Family: **H**

3. Choose Port Count: **18**

4. Choose Connector for Patch Side: **LD**

5. Choose Adapter Color: **A**

Fiber Type	Product Family	Port Count (Patch Side)	Connector (Patch Side)	Adapter Color
1 OM1	H FX UHD	03	LD LC Duplex	T Beige
3 OM3	U FX Ultra (1" Pull)	06	LA LC/APC Duplex	N Black
4 OM4		12	LS LC Duplex w/Shutters	A Aqua
S OS2		18	SD SC Duplex	E Erika V.
			SC SC Simplex	B Blue
			SA SC/APC Duplex	G Green
			SB SC/APC Simplex	
			SS SC Duplex w/ Shutters	
			SR SC Simplex w/ Shutters	
			ST ST	
			MP MPO Up/Down	
			MR MPO Up/Up	



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FiberExpress Patch Panel Systems (continued)

FX UHD and FX Ultra Splitter Cassettes and TAP Cassettes



AX104681, FX UHD Housing (shown loaded from left to right with, FCSH12SBFS, FX UHD Splice Cassette, SCSH2116SLF, FX UHD Splitter Cassette, 2 x FCSH12LAFS, FX UHD Splice Cassettes)



SCSH2116SLF, FX UHD Splitter Cassette, OS2, Dual 1x16 Splitter, SC/APC Upstream Ports, LC/APC Downstream Ports



SCSU1208SLF, FX Ultra Splitter Cassette, OS2, Single 2x8 Splitter, SC/APC Upstream Ports, LC/APC Downstream Ports



TC4H044F4F4M, OM4 TAP Cassette, 4 Live A MPO (8f) Ports, 4 MPO (8f) TAP Ports

Splitter Cassette

Description (Upstream/Downstream)	Splitter	Belden Part Number
SC/APC to LC/APC	Single 2x8	SCSU1208SLF
SC/APC to LC/APC	Single 2x16	SCSU1216SLF
SC/APC to LC/APC	Dual 2x8	SCSU2208SLF
MPO/APC to LC/APC	Quad 2x8	SCSH4208MLF
LC/APC to LC/APC	Quad 1x8	SCSH4108LLF
LC/APC to LC/APC	Dual 2x16	SCSH2216LLF
SC/APC to LC/APC	Dual 1x16	SCSH2116SLF
SC/APC to LC/APC	Single 2x32	SCSH1232SLF

FX UHD and FX Ultra Traffic Analysis Port (TAP)

Belden's TAP cassettes allows for monitoring of communication over Fiber cables to ensure quality of service, and provide security/troubleshooting capabilities.

TAP Cassette

Belden Part Number			Number of Live A-Ports	TAP Ratio	Live A-Port	Live B-Port	TAP Port
OM4	OM4 (Aqua)	OM3					
TC4H06LDMFLD	TC4H06LDMFLD7A	TC3H06LDMFLD	6	70/30	LC Duplex	MPO Female (12f)	LC Duplex
TC4H02LDLDDL	TC4H02LDLDDL7A	TC3H02LDLDDL	2	70/30	LC Duplex	LC Duplex	LC Duplex
TC4H06LDMFMM	TC4H06LDMFMM7A	TC3H06LDMFMM	6	70/30	LC Duplex	MPO Female (12f)	MPO Male (12f)
TC4H044F4F4M	TC4H044F4F4M7A	TC3H044F4F4M	4	70/30	MPO Female (8f)	MPO Female (8f)	MPO Male (8f)



Splitters beginning with the prefix "SCSU" represent Belden's FX Ultra cassette family. These cassettes feature our unique 1" pull-out feature that delivers superior ease of use for day-to-day MAC (moves, adds, and changes).

FiberExpress Patch Panel Systems (continued)

FX UHD and FX Ultra Adapters and Accessories

Standard FX Ultra KeyConnect Frames

Patch Ports	Description	Belden Part Number
6	FX Ultra KeyConnect Frame 6-Port	FFZH06KC
8	FX Ultra KeyConnect Frame 8-Port	FFZH08KC



FFZH06KC, FX Ultra KeyConnect Frame, 6-Port

KeyConnect Fiber Modules

Description	Belden Part Number		
	Almond	Elec. White	Black
LC Duplex OM3 (Aqua Adapter)	AX104937	AP100023WH	AP100023BK
LC Duplex OM4 (Erika Purple Adapter)	AX105641-AL	AP100024WH	AP100024BK
LC Duplex SM (Blue Adapter)	AX102419	AP100020WH	AP100020BK
LC Duplex SM/APC (Green Adapter)	AX105642-AL	AP100021WH	AP100021BK
SC Simplex OM3 (Aqua Adapter)	AX105643-AL	AP100028WH	AP100028BK
SC Simplex OM4 (Erika Violet Adapter)	—	AP100029WH	AP100029BK
SC Simplex SM (Blue Adapter)	AX102686	AP100025WH	AP100025BK
SC/APC Simplex SM (Green Adapter)	AX105374-AL	AP100026WH	AP100026BK
ST (Metal) Compatible MM/SM	AX102242	AX102243	AX102244



AX104572, FX Color-coded Icon Kit, (shown on frame)

Standard Copper KeyConnect Adapters

Description	Belden Part Number		
	Black	Blue	White
10GX RJ45 Coupler	AX104024	AX104019	AX104023
10GX RJ45 Modular Jack	AX102283	AX102288	AX102282
CAT6+ RJ45 Coupler	AX104215	AX104210	AX104214
CAT6+ RJ45 Modular Jack	AX101321	AX101326	AX101320

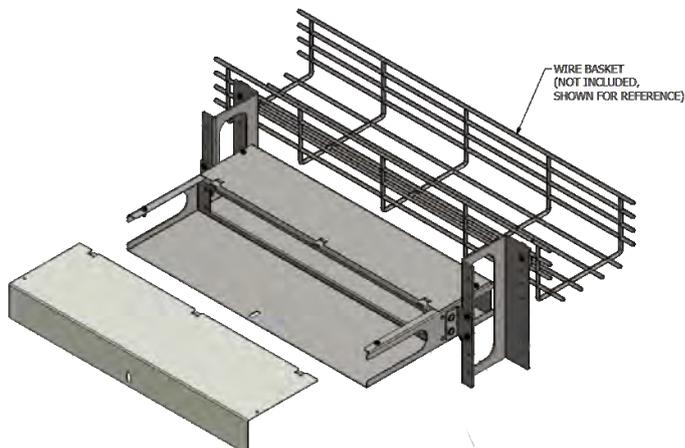
Above adapters are for Black Bezels. Contact your local Belden representative for a complete listing of KeyConnect adapters in other colors.



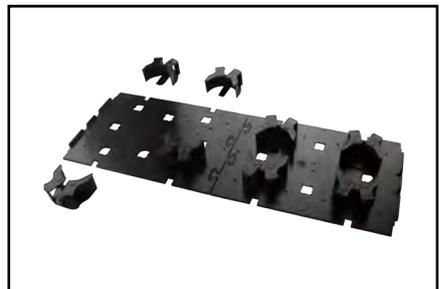
AX104024, 10GX RJ45 Coupler

Standard FX UHD Accessories

Description	Belden Part Number
FX UHD Blank Plate	FFZH00BB
FX UHD Patch Cord Release Tool	AX104685
FX Ultra LC Duplex Color-coded Icon Kit	AX104572
FX UHD Fiber Management Spool Kit, includes base plates and eight spool segments	AX105700
1U Rackmount Enclosure for Cable Tray Mounting	XPE-S0003
1U 19" to 23" Extender Bracket	9810-0100
2U 19" to 23" Extender Bracket	9811-0200
4U 19" to 23" Extender Bracket	9813-0400



XPE-S0003, FX UHD Basket Hanger for 1U FX UHD Patch Panel Housings and Shelves.



AX105700, FX UHD Fiber Management Spool Kit

Faster.
Easier.
Better.

FiberExpress Patch Panel Systems (continued) FX Rack Mount and Wall Mount Patch Panels

Economical yet effective. Low to medium density rack mount fiber panels with simple adapter strips are the mainstay for fiber field termination



AP100041, FX 12/24 Port (1U) Rack-mount Patch Panel

FASTER

- Faster access to rear side (trunk) connectivity without removing patch cords

EASIER

- Easier on the budget with economical adapter strips
- Easier access to the trunk side connectivity

BETTER

- Better support for mixed field-term connectivity including splicing
- Better use of valuable space through a compact footprint



AP100046, Copper and Fiber Multipurpose Patch Panel

Rack Mount Patch Panels

Description	Maximum Number of Adapter Strips	Splice Trays	Belden Part Number
1U Rack Mount, (Empty)	2	2 x 24-Splices	AP100041
2U Rack Mount, (Empty)	4	2 x 24-Splices	AP100068
4U Rack Mount, (Empty)	8	4 x 24-Splices	AP100116

Copper & Fiber Rack Mount Patch Panels

Description	Splice Trays	Belden Part Number
1U Multipurpose with 24 Keystone ports, (Empty)	2 x 24-Splices	AP100046
2U Multipurpose for 12 cassettes, (Empty)	Up to 96 splices	AP104220

Wall Mount Patch Panels

Description	Maximum Number of Adapter Strips	Splice Trays	Belden Part Number
1 Slot Wall Mount, (Empty)	1	Up to 24 splices	AP100045
2 Slot Wall Mount, (Empty)	2	Up to 24 splices	AP100042

Standard Optical Fiber Accessories

Description	Belden Part Number
Accessories for Panel	
FX Patch Blank Strip	AP100066 Compatible with AP100041 / AP100068 / AP100116
KeyConnect Empty Frame, 6 Ports, Black	AP100065 Compatible with AP100045
FX Blank Plate	AP104221 Compatible with AP104220
Cassette Holder	AP104222 is a must when AP104223 individually installed
4 Port KeyConnect Module Cassette	AP104223 Compatible with AP104220

FiberExpress Patch Panel Systems (continued) FX Patch Adapter Strips and Accessories

Standard Optical Fiber Adapter Strips

		Belden Part Number	
Patch Ports (fibers)	Family	Multimode Adapters	Singlemode Adapters
LC Duplex			
12 (24)	FX Patch	AP101729 (Beige)	AP101743 (Blue)
6 (12)	FX Patch	AP101741 (Beige)	AP101731 (Blue)
LC APC Duplex			
12 (24)	FX Patch	—	AP101743APC (Green)
6 (12)	FX Patch	—	AP101731APC (Green)
SC Duplex			
6 (12)	FX Patch	AP100098 (Beige)	AP101409 (Blue)
3 (6)	FX Patch	AP100094 (Beige)	AP101407 (Blue)
SC APC Duplex			
6 (12)	FX Patch	—	AP101409APC (Green)
3 (6)	FX Patch	—	AP101407APC (Green)
SC Simplex			
12 (12)	FX Patch	AP100084 (Beige)	AP100532 (Blue)
6 (6)	FX Patch	AP100092 (Beige)	AP100538 (Blue)
SC APC Simplex			
12 (12)	FX Patch	—	AP100532APC (Green)
6 (6)	FX Patch	—	AP100538APC (Green)
ST Simplex			
12 (12)	FX Patch	AP100080 (Silver)	AP100528 (Silver)
6 (6)	FX Patch	AP100088 (Silver)	AP100534 (Silver)
FC Simplex			
12 (12)	FX Patch	AP100054 (Silver)	AP100553 (Silver)
6 (6)	FX Patch	AP100052 (Silver)	AP100551 (Silver)



12F LC Duplex Adapter Strip



KeyConnect Fiber LC Duplex Adapter Module

Description	Adapter Color	Holder Color	Belden Part Number
KeyConnect Fiber LC Duplex Adapter Modules			
KeyConnect LC Duplex Senior Senior Type Fiber adapter module Single Mode	Blue	White	AP100020WH
KeyConnect LC Duplex Senior Senior Type Fiber adapter module Single Mode	Blue	Black	AP100020BK
KeyConnect LC Duplex Senior Senior Type fiber adapter module SM APC	Green	White	AP100021WH
KeyConnect LC Duplex Senior Senior Type fiber adapter module SM APC	Green	Black	AP100021BK
Keyconnect LC Duplex Senior Senior Type fiber adapter module MM OM3	Aqua	White	AP100023WH
Keyconnect LC Duplex Senior Senior Type fiber adapter module MM OM3	Aqua	Black	AP100023BK
Keyconnect LC Duplex Senior Senior Type fiber adapter module MM OM4	Erika Violet	White	AP100024WH
Keyconnect LC Duplex Senior Senior Type fiber adapter module MM OM4	Erika Violet	Black	AP100024BK
Keyconnect SC Simplex Fiber adapter module Single Mode	Blue	White	AP100025WH
Keyconnect SC Simplex Fiber adapter module Single Mode	Blue	Black	AP100025BK
KeyConnect SC Simplex Type fiber adapter module SM APC	Green	White	AP100026WH
KeyConnect SC Simplex Type fiber adapter module SM APC	Green	Black	AP100026BK
KeyConnect SC Simplex Type fiber adapter module MM OM1	Beige	White	AP100027WH
KeyConnect SC Simplex Type fiber adapter module MM OM1	Beige	Black	AP100027BK
KeyConnect SC Simplex Type fiber adapter module MM OM3	Aqua	White	AP100028WH
KeyConnect SC Simplex Type fiber adapter module MM OM3	Aqua	Black	AP100028BK
KeyConnect SC Simplex Type fiber adapter module MM OM4	Erika Violet	White	AP100029WH
KeyConnect SC Simplex Type fiber adapter module MM OM4	Erika Violet	Black	AP100029BK

Faster.
Easier.
Better.

FiberExpress Patch Panel Systems (continued)

FX ECX Housings



ECX-01U, FX ECX 1U Housing

Belden's FX Enterprise Closet X (ECX) Patch Panel system is an elegant, intuitive and flexible solution that has been designed to maximize installer flexibility when compared to industry-leading solutions. FX ECX has been optimized for LAN environments, and provides an easy-to-deploy, efficient solution for installers.

FASTER

- Faster installation with fewer detachable components
- Faster field termination with removable clear top covers (all panels) and removable front and rear housing (4U)



ECX-02U, FX ECX 2U Housing

EASIER

- Easier frequent MAC work with front and rear removable cassettes (patent pending)
- Easier to configure with flexible port count LC, SC, ST and MPO couplers as well as KeyConnect compatibility (copper and multimedia modules)
- Easier port identification with retractable label holder and compatibility with LabelFlex labels (optional)

BETTER

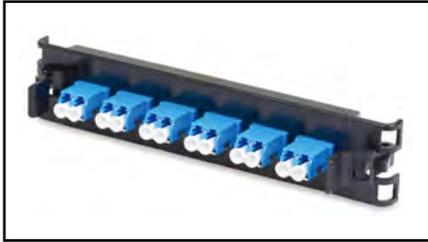
- Better fiber routing with slack management integrated into the splice cassette lid (eliminates pinch points)
- Better management with multiple built-in options for cable and patch cords strain relief
- Better flexibility to support all modern field-termination techniques (Splice trays, Splice cassettes, Splice-on connectors, Mechanical splice connectors)



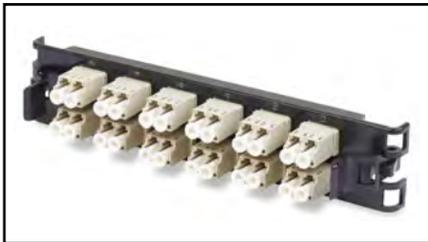
ECX-04U, FX ECX 4U Housing

FX ECX Housings

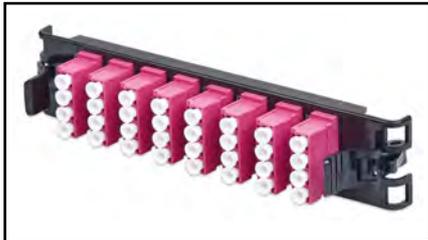
Description	Number of Module Bays	Total LC Duplex using ECX Frames	Total LC Duplex using ECX Cassettes	Belden Part Number
1U Housing	2 Cassettes or Frames	32	24	ECX-01U
2U Housing	4 Cassettes or Frames	64	48	ECX-02U
4U Housing	12 Cassettes or Frames	192	144	ECX-04U



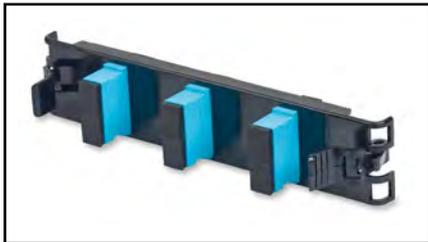
FFSX06LD, LC Duplex Frame, OS2 Blue Adapters



FF1X12LD, LC Duplex Frame, OM1 Beige Adapters



FF4X16LD, LC Duplex Frame, OM4 Erika Violet Adapters



FF3X03SD, SC Duplex Frame, OM3 Aqua Adapters



FFZX06KC, KeyConnect Frame

FiberExpress Patch Panel Systems (continued) FX ECX Frames

Standard FX ECX Frames

Description - Patch Ports (fibers)	OM1 (Beige Adapters)	OM3 (Aqua Adapters)	OM4 (Erika Violet Adapters)	OS2 (Blue Adapters)	OS2 APC (Green Adapters)
LC Duplex					
6 (12)	FF1X06LD	FF3X06LD	FF4X06LD	FFSX06LD	FFSX06LA
12 (24)	FF1X12LD	FF3X12LD	FF4X12LD	FFSX12LD	FFSX12LA
16 (32)	FF1X16LD	FF3X16LD	FF4X16LD	FFSX16LD	FFSX16LA
SC Duplex					
3 (6)	FF1X03SD	FF3X03SD	FF4X03SD	FFSX03SD	FFSX03SA
6 (12)	FF1X06SD	FF3X06SD	FF4X06SD	FFSX06SD	FFSX06SA
KeyConnect Frames					
4 Ports	←		FFZX04KC	→	
6 Ports	←		FFZX06KC	→	
Blank Frame	←		FFZX00BB	→	

Tailored FX ECX Frames

Building a SmartPart Number

Fixed Letter Series

FF

1. Choose Fiber Type

S

2. Choose Product Family

X

3. Choose Port Count

06

4. Choose Connector for Patch Side

SC

Fiber Type	
1	OM1
3	OM3
4	OM4
S	OS2

Product Family	
X	ECX

Port Count (Patch Side)	
03	
06	
08	
12	
16	

Connector (Patch Side)	
LD	LC Duplex
LA	LC/APC Duplex
SD	SC Duplex
SC	SC Simplex
SA	SC/APC Duplex
SB	SC/APC Simplex
ST	ST
MP	MPO Up/Down

Faster.
Easier.
Better.

FiberExpress Patch Panel Systems (continued)

FX ECX Splice and Splitter Cassettes

Standard FX ECX Splice Cassettes

Description - Patch Ports (fibers)	OM1 (Beige Adapters)	OM3 (Aqua Adapters)	OM4 (Erika Violet Adapters)	OS2 (Blue Adapters)	OS2 APC (Green Adapters)
LC Duplex					
6 (12)	FC1X06LDFS	FC3X06LDFS	FC4X06LDFS	FCSX06LDFS	FCSX06LAFS
12 (24)	FC1X12LDFS	FC3X12LDFS	FC4X12LDFS	FCSX12LDFS	FCSX12LAFS
SC Duplex					
3 (6)	FC1X03SDFS	FC3X03SDFS	FC4X03SDFS	FCSX03SDFS	FCSX03SAFS
6 (12)	FC1X06SDFS	FC3X06SDFS	FC4X06SDFS	FCSX06SDFS	FCSX06SAFS



FCSX06LAFS, LC Duplex Splice Cassette, OS2 APC Green Adapters

Tailored FX ECX Splice Cassettes

Building a SmartPart Number

Fixed Letter Series

FC

1. Choose Fiber Type

S

2. Choose Product Family

X

3. Choose Port Count

06

4. Choose Connector for Patch Side

SC

5. Choose Connector for Patch Side

FS

Fiber Type	Product Family
1 OM1	X ECX
3 OM3	
4 OM4	
S OS2	

Port Count (Patch Side)	Connector (Patch Side)
03	LD LC Duplex
06	LA LC/APC Duplex
08	SD SC Duplex
12	SC SC Simplex
	SA SC/APC Duplex
	SB SC/APC Simplex
	ST ST
	MP MPO Up/Down

Connector (Trunk Side)
FS Splice Cassette

Connector (Trunk Side)
FS Splice Cassette



FC1X12SCFS, SC Simplex Splice Cassette, OM1 Beige Adapters



FC4X12LDFS, LC Duplex Splice Cassette, OM4 Erika Violet Adapters

Standard FX ECX Splitter Cassettes

Description (Upstream/Downstream)	Splitter	Belden Item Number
SC/APC to LC/APC	Single 2x8	SCSX1208SLF
SC/APC to LC/APC	Single 2x16	SCSX1216SLF
SC/APC to LC/APC	Dual 2x8	SCSX2208SLF
MPO/APC to LC/APC	Quad 2x8	SCSX4208MLF
LC/APC to LC/APC	Quad 1x8	SCSX4108LLF
LC/APC to LC/APC	Dual 2x16	SCSX2216LLF
SC/APC to LC/APC	Dual 1x16	SCSX2116SLF
SC/APC to LC/APC	Single 2x32	SCSX1232SLF
SC/APC to LC/APC	Single 1x32	SCSX1132SLF



FCSX06SDFS, SC Duplex Splice Cassette, OS2 Blue Adapters



FCSX12MPFS, MPO Key Up/Down Splice Cassette, OS2 APC Green Adapters

FiberExpress Patch Panel Systems (continued)

FX ECX Kits and Accessories

FX ECX Universal Accessories

Description	Belden Part Number
Door Lock Kit	ECX-LOCKKIT
FX ECX Intermediare Strain Relief	ECX-INTERSTR
Managements Clips	ECX-MGTCLIPS
LabelFlex Label Pack for ECX Patch Panels, White (4/Sh)(10Sh/Pk)	ECX-LBF-PK10

FX ECX 4U Housing Accessories

Description	Belden Part Number
4U Splice Tray Kit	ECX-SPLICEKIT
4U Rack Mounting Bracket 3 In	ECX-BRKTMT-3
4U Rack Mounting Bracket Flush	ECX-BRKTMT-0
4U Rear External Strain Relief (Angled)	ECX-4U-EXSTRA
4U External Strain Relief	ECX-4U-EXSTR
4U Internal Strain Relief	ECX-4U-INTR
4U Labelkit	ECX-LBL-4U

FX ECX 1U/2U Housing Accessories

Description	Belden Part Number
1U/2U Rear External Strain Relief (Angled)	ECX-1U2U-EXSTRA
1U/2U External Strain Relief	ECX-1U2U-EXSTR
1U/2U Internal Strain Relief	ECX-1U2U-INSTR
1U Labelkit	ECX-LBL-1U
2U Labelkit	ECX-LBL-2U



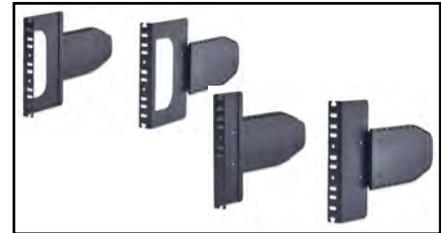
ECX-LOCKKIT, Door Lock Kit



ECX-MGTCLIPS, Management Clips



ECX-SPLICEKIT, Splice Tray Kit



ECX-BRKTMT-3 / ECX-BRKTMT-0, 4U Rack Mounting Brackets



ECX-4U-EXSTR, 4U Rear External Strain Relief



ECX-INTERSTR, ECX-4U-INTSTR, 4U Internal Strain Relief



ECX-1U2U-EXSTR, ECX-1U2U-EXSTRA, 1U/2U Rear External Strain Relief (Angled and non-angled)



FX ECX panels can be labeled using the LabelFlex software and pack of labels p/n ECX-LBF-PK10

Faster.
Easier.
Better.

FiberExpress Pre-Terminated Assemblies

FX Patch Cords

Uncomplicated, robust, versatile and conveniently available. Superior quality and performance FX patch cords deliver a robust design to withstand the rigours of daily use in both off-the-shelf standard configurations and rapid custom tailored installations.

FASTER

- Faster delivery with off-the shelf availability of standard items
- Faster identification of fiber type with Erika Violet for OM4 cable and Beige connectors

EASIER

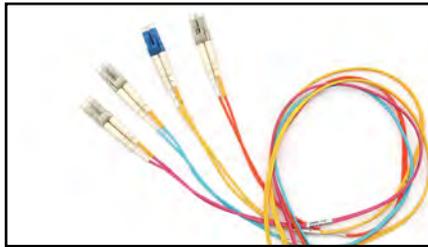
- Easier installation in dense cable trays with small diameter cord options
- Easier ordering with simple intelligent Smart Part Numbers
- Easier polarity management with industry leading easy-to-use duplex clips

BETTER

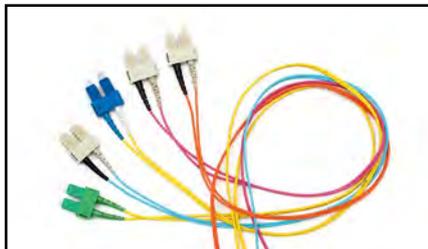
- Better architectural flexibility with low-loss OM4 0.2 dB MPO and 0.15 dB LC connectors
- Better ruggedization with larger diameter cord options
- Better flexibility with multiple connector options including LC, SC, ST and MPO
- Better quality through exhaustive design validation against TIA standards



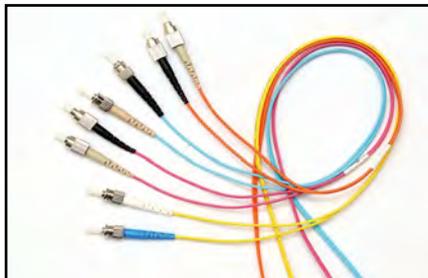
FX MPO-12(f) Patch Cords, Assortment



FX LC Duplex Patch Cords, Assortment



FX SC Duplex Patch Cords, Assortment



FX ST Patch Cords, Assortment

FX Patch Cords - Standard Performance

Description	OM1	OM2	OM3	OM4	SM/APC	SM/UPC
Connector Performance LC/SC/FC/ST*						
Return Loss Min. (dB)	25	25	25	25	65	55
Insertion Loss Max. (dB)	0.25	0.25	0.25	0.15	0.3	0.3

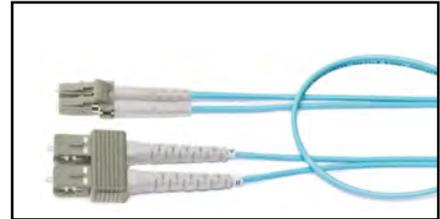
*The values specified herein apply for all Belden patch cords with above connector type at one end or both ends (for example: Duplex/Simplex, Uniboot HD/Uniboot, Pigtail etc.)

FiberExpress Pre-Terminated Assemblies (continued)

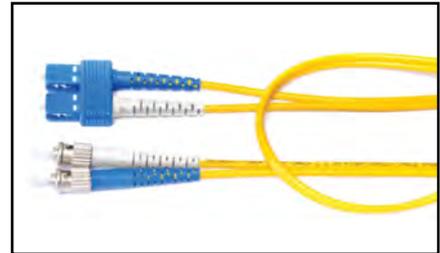
FX Patch Cords

Standard FX Patch Cords

Length (m)	OM1 Beige/Orange	OM3 Aqua	OM4 Erika Violet	OS2 Blue/Yellow
LC Duplex to LC Duplex				
2	PF1LDDL002ML3XO	PF3LDDL002ML3XA	PF4LDDL002ML3XE	PFSLDDL002ML3XY
3	PF1LDDL003ML3XO	PF3LDDL003ML3XA	PF4LDDL003ML3XE	PFSLDDL003ML3XY
5	PF1LDDL005ML3XO	PF3LDDL005ML3XA	PF4LDDL005ML3XE	PFSLDDL005ML3XY
SC Duplex to SC Duplex				
2	PF1SDSD002ML3XO	PF3SDSD002ML3XA	PF4SDSD002ML3XE	PFSASAA002ML3XY
3	PF1SDSD003ML3XO	PF3SDSD003ML3XA	PF4SDSD003ML3XE	PFSASAA003ML3XY
5	PF1SDSD005ML3XO	PF3SDSD005ML3XA	PF4SDSD005ML3XE	PFSASAA005ML3XY
ST to ST				
2	PF1STST002ML4XO	PF3STST002ML4XA	PF4STST002ML4XE	PFSSTST002ML4XY
3	PF1STST003ML4XO	PF3STST003ML4XA	PF4STST003ML4XE	PFSSTST003ML4XY
5	PF1STST005ML4XO	PF3STST005ML4XA	PF4STST005ML4XE	PFSSTST005ML4XY
Hybrid: LC Duplex to SC Duplex				
3	PF1LSDSD003ML3XO	PF3LSDSD003ML3XA	PF4LSDSD003ML3XE	PFSLSDSD003ML3XY
Hybrid: SC Duplex to ST				
3	PF1SDST003ML7XO	PF3SDST003ML7XA	PF4SDST003ML7XE	PFSSDST003ML7XY



PF3LSDSD003ML3XA, Hybrid LC Duplex to SC Duplex, OM3 Aqua



PFSSDST003ML3XY, Hybrid SC Duplex to ST, OS2 Blue

Tailored FX Patch Cords

Building a SmartPart Number

Fixed Letter Series: **PF** | 1. Choose Fiber Type: **3** | 2. Choose Connector 1: **LD** | 3. Choose Connector 2: **LD** | 4. Choose Length*: **003M** | 5. Choose Fire Rating: **R** | 6. Choose Cable Construction: **3** | 7. Choose Polarity: **X** | 8. Choose Jacket Color: **A**

Fiber Type	Connector 1	Connector 2	Length*	Fire Rating	Cable Construction	Polarity	Jacket Color
1 OM1	LD LC Duplex	LD LC Duplex	001M to 300M M -Meters	R Riser	2 Duplex Zipcord 2.0mm	X A/B (Cross)	Y Yellow
2 OM2	LC LC Simplex	LC LC Simplex		P Plenum	3 Duplex Zipcord 3.0mm	S A/A (Straight)	O Orange
3 OM3	SD SC Duplex	SD SC Duplex		L LSZH	4 Simplex Cord 2.0mm		A Aqua
4 OM4	SC SC Simplex	SC SC Simplex		A LSZH (IEC60332-3 -24)	5 Simplex Cord 3.0mm		E Erika V.
5 OM5	ST ST	ST ST			6 Round 2.0mm		G Lime Green
S OS2	FC FC	FC FC			7 Round 3.0mm		
X OM3(BI)	LA LC/APC Duplex	LA LC/APC Duplex			B Double Jacket 3.2mm x 5.0mm (Duplex Zipcord 3.0mm)		
Y OM4(BI)	LB LC/APC Simplex	LB LC/APC Simplex			C Double Jacket 4.4mm x 7.0mm (Duplex Zipcord 3.0mm)		
Z G657A1/A2	LU LC Duplex Uni Boot	LU LC Duplex Uni Boot			D Double Jacket 3.6mm (Duplex Zipcord 3.0mm)		
	SA SC/APC Duplex	SA SC/APC Duplex			E Double Jacket 4.6mm (Simplex 3.0mm)		
	SB SC/APC Simplex	SB SC/APC Simplex			G Double Jacket 4.6mm (Round 3.0mm)		
	FA FC/APC	FA FC/APC					
	LH LC Duplex HD	LH LC Duplex HD					
	UH LC UniBoot HD	UH LC UniBoot HD					
	UV LC UniBoot Polarity Reversible, HD	UV LC UniBoot Polarity Reversible, HD					

Examples:

PFSLDDL010ML2XY - LC Duplex to LC Duplex, 10m in length, OS2 Singlemode LSZH (Low Smoke Zero Halogen) 2mm duplex zip cord with A-to-B polarity and a yellow cable jacket

PF4LHLH010MP7XE - LC HD to LC HD, 10m in length, OM4 multi mode Plenum 3 mm round interconnector with type A-to-B polarity and a Erika Violet cable jacket

Faster.
Easier.
Better.

FiberExpress Pre-Terminated Assemblies (continued)

FX Armored Patch Cords



FX Armored Patch Cords, Assortment

Standard FX Armored Patch Cords

Length (m)	OM1 Orange	OM3 Aqua	OM4 Erika Violet	OS2 Yellow
LC Duplex to Duplex				
2	PF1LDLD002MLAXO	PF3LDLD002MLAXA	PF4LDLD002MLAXE	PFSLDLD002MLAXY
3	PF1LDLD003MLAXO	PF3LDLD003MLAXA	PF4LDLD003MLAXE	PFSLDLD003MLAXY
5	PF1LDLD005MLAXO	PF5LDLD005MLAXA	PF4LDLD005MLAXE	PFSLDLD005MLAXY
LC Simplex to LC Simplex				
2	PF1LCLC002MLHXO	PF3LCLC002MLHXA	PF4LCLC002MLHXE	PFSLCLC002MLHXY
3	PF1LCLC003MLHXO	PF3LCLC003MLHXA	PF4LCLC003MLHXE	PFSLCLC003MLHXY
5	PF1LCLC005MLHXO	PF5LCLC005MLHXA	PF4LCLC005MLHXE	PFSLCLC005MLHXY

Tailored FX Armored Patch Cords

Building a SmartPart Number

FX Patch Cord: **PF**

1. Choose Fiber Type: **3**

2. Choose Connector 1: **LD**

3. Choose Connector 2: **LD**

4. Choose Length*: **003M**

5. Choose Fire Rating: **L**

6. Choose Cable Construction: **A**

7. Choose Polarity: **X**

8. Choose Jacket Color: **A**

Fiber Type	Connector 1	Connector 2	Length*	Fire Rating	Cable Construction	Polarity	Jacket Color
1 OM1	LD LC Duplex	LD LC Duplex	001M to 300M M-Meters	L LSZH	A Armored Duplex Zipcord 3.0 mm	X A/B (Cross) S A/A (Straight)	Y Yellow
2 OM2	LC LC Simplex	LC LC Simplex					O Orange
3 OM3	SD SC Duplex	SD SC Duplex			H Armored Simplex Cord 3.0 mm		A Aqua
4 OM4	SC SC Simplex	SC SC Simplex					E Erika V.
S OS2	ST ST	ST ST					
X OM3(BI)	LA LC/APC Duplex	LA LC/APC Duplex					
Y OM4(BI)	LB LC/APC Simplex	LB LC/APC Simplex					
Z G657A1/A2	SA SC/APC Duplex	SA SC/APC Duplex					
	SC SC/APC Simplex	SC SC/APC Simplex					

Examples:

PF3LDLD005MLAXA - LC Duplex to LC Duplex, 5m in length, OM3 Multi mode LSZH (Low Smoke Zero Halogen), Armored duplex zip cord with A-to-B polarity and an Aqua cable jacket

PFSLCLC003MLAXY - LC Simplex to LC Simplex, 3m in length, OS2 Single mode LSZH (Low Smoke Zero Halogen), Armored duplex zip cord with A-to-B polarity and a Yellow cable jacket

FiberExpress Pre-Terminated Assemblies (continued)

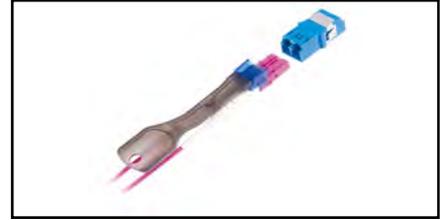
FX Lockable Patch Cords

Standard FX Patch Cords

Length (m)	OM4 Erika Violet	OS2 Blue/Yellow
LC Duplex to LC Duplex		
1	PFL4LDLD001ML2XE	PFLSLDL001ML2XY
3	PFL4LDLD003ML2XE	PFLSLDL003ML2XY

*The product numbers in the item are just example for the part number assignment, the full series code can be assigned as per the number chart accordingly.

*The standard fiber cable colors are Yellow for Single Mode; Yellow for OS2; Erika Violet for OM4.



FX Lockable Patch Cords, Assortment

Tailored FX Lockable Patch Cords

Building a SmartPart Number

PF FX Patch Cord 1. Choose Fiber Type 2. Choose Connector 1 3. Choose Connector 2 4. Choose Length & Unit 5. Choose Fire Rating 6. Choose Cable Construction 7. Choose Polarity 8. Choose Jacket Color

PFL **3** **LD** **LD** **003M** **L** **2** **X** **A**

Fiber Type	Connector 1	Connector 2	Length*	Fire Rating	Cable Construction	Polarity	Jacket Color
1 OM1	LD LC Duplex	LD LC Duplex	001M to 300M	L LSZH	2 Duplex Zipcord 2.0mm	X A/B (Cross)	Y Yellow
2 OM2	LA LC/APC Duplex	LA LC/APC Duplex	M-Meters		3 Duplex ZipCord 3.0mm	S A/A (Straight)	O Orange
3 OM3							A Aqua
4 OM4							E Erika V.
S OS2							
X OM3(B1)							
Y OM4(B1)							
Z G657A1/A2							

Examples:

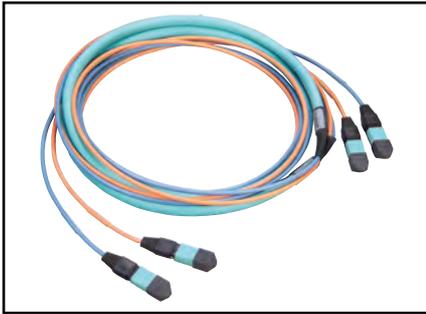
PFLSLDL0010ML2XY- LC Duplex to LC Duplex, 10m in length, OS2 Singlemode LSZH (Low Smoke Zero Halogen) 2mm duplex zipcord with A-to-B polarity and a yellow cable jacket

PFL4LALA0010ML3XE- LC/APC Duplex to LC/APC Duplex, 10m in length, OM4 multi mode LSZH (Low Smoke Zero Halogen) 3mm duplex zipcord with type A-to-B polarity and a Erika Violet cable jacket

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FiberExpress Pre-Terminated Assemblies (continued)

FX MPO Trunk Assemblies



MPO(F)-MPO(F), 24(2x12) Fibers, OM3(50um)

Innovative performance with ingrained simplicity. Industry-leading low-loss MPO Trunks are the foundation of Easier, Faster and Better pre-terminated fiber connectivity solutions revolutionizing the data center.

FASTER

- Faster identification of fiber type with Erika Violet for OM4 Cable, Connectors and Adapter
- Faster installation with pre-terminated solutions

EASIER

- Easier ordering with simple intelligent *SmartPart* Numbers
- Easier upgradability to 40G, 100G and 400G with MPO pre-term solutions

BETTER

- Better architectural flexibility with high-performance 0.2 dB OM4 MPO connectors
- Better quality through exhaustive design validation against TIA standards

FX MPO Cable Assemblies - Standard Performance

Description	OM1	OM2	OM3	OM4	SM/APC	SM/APC(ULL)
Connector Performance MPO Connector (12f & 24f)						
Return Loss Min. (dB)	/	/	25	25	60	65
Insertion Loss Max. (dB)	/	/	0.3	0.2	0.5	0.35

*The values specified herein apply for all Belden patch cords with MPO connectors at one end or both ends, such as MFxxx series/AFxxx series and MPO trunk cable etc.

FiberExpress MPO Loopback Assembly

Description	Description	Belden Part Number
12f OM3 Fiber MPO Male Loopback, Standard Fiber Map	Aqua	ML3MMS
12f OM3 Fiber MPO Female Loopback, Standard Fiber Map	Aqua	ML3MFS
12f OM4 Fiber MPO Male Loopback, Standard Fiber Map	Erika Violet	ML4MMS
12f OM4 Fiber MPO Female Loopback, Standard Fiber Map	Erika Violet	ML4MFS
12f Single Mode Fiber MPO Male Loopback, Standard Fiber Map	Yellow	MLSMMS
12f Single Mode Fiber MPO Female Loopback, Standard Fiber Map	Yellow	MLSMFS

Tailored FX MPO Loopback Assembly

Building a *SmartPart* Number

MF MTP Trunk	1. Fiber Type	2. Connectors	3. Connectors Gender	4. Fiber mapping
ML	3	M	M	S
MPO Loopback	Fiber Type	Connectors	Connector Gender	Fiber Mapping
	3 OM3	M MPO-12	M Male to Male	S Standard fiber map
	4 OM4		F Female to Female	
	S OS2			

FiberExpress Pre-Terminated Assemblies (continued)

FX MPO Cable Assemblies

Tailored FX MPO Cable Assemblies

Building a SmartPart Number

MF MTP Trunk	1. Fiber Type	2. Connectors	3. Connector Gender	4. Polarity (outside)	5. Connector Count (per side)	6. Length Measure	7. Fire Rating	8. Cable Type	9. Pulling Eyes
MF	3	M	M	B	1	003M	R	M	N

Fiber Type	Connectors	Connector Gender	Polarity (outside)	Connector Count	Length	Fire Rating	Cable Tape	Pulling Eyes
3 OM3	Base-12	M Male to Male	A Type-A	1 1 Connector	001M to 500	R Riser	M Mini-D (single jacket)	N None
4 OM4	M MTP-12	F Female to Female	B Type-B	2 2 Connectors	M Meters	P Plenum	A Armored Mini-D	B Both ends
5 OM5	U MTP-12 (ULL)*	E Male to Female	C Type-C	3 3 Connectors		L LSZH	T Trunk cable	O Outside only
S OS2				4 4 Connectors		A LSZH (IEC 603 32-3-24)	N Mini-D (double jacket)	T Inside only
X OM3(BI)	P MPO-12			6 6 Connectors				E 1.0m x in-Line
Y OM4(BI)	L MPO-12 (ULL)*			8 8 Connectors				F 1.5m x in-Line
Z G657A1/A2	Base-8							1 0.5m x Stag 80mm/1Conn)
	4 MTP-12 (8F)*							2 0.5m x Stag 80mm/2Conn)
	Q MTP-12 (8F-ULL)*							3 0.5m x Stag 80mm/3Conn)
	8 MPO-12 (8F)*							4 0.5m x Stag 80mm/4Conn)
	R MPO-12 (8F ULL)*							

Examples:

MF4MMA1025MPMO - FX MPO Trunk, OM4, MTP-12(Male to Male), Type-A, 1 MTP(12 fibers), 25m, Plenum, Mini-Distribution (Single Jacket), Outside pulling eye

MF5MFB1030MLMN - FX MPO Trunk, OS2, MTP-12(Female to Female), Type-B, 1 MTP(12 fibers), 30m, LSZH, Mini-Distribution (Single Jacket), No pulling eye

* ULL: Ultra Low Loss, only applicable for single mode.

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FiberExpress Pre-Terminated Assemblies (continued) Multi-Fiber and Hydra Cable Assemblies



Fiber Cable Assembly

Superior consistent craftsmanship culminating in near instantaneous installation. Highly configurable multi-fiber pre-terminated cable assemblies are engineering for maximum performance and crafted ensuring superior quality.

Uniquely suited within dense fixed environments. Compact alternative for statically configured patch cords and pre-term cassettes eliminates connection points to improve performance and alleviate space constraints.

FASTER

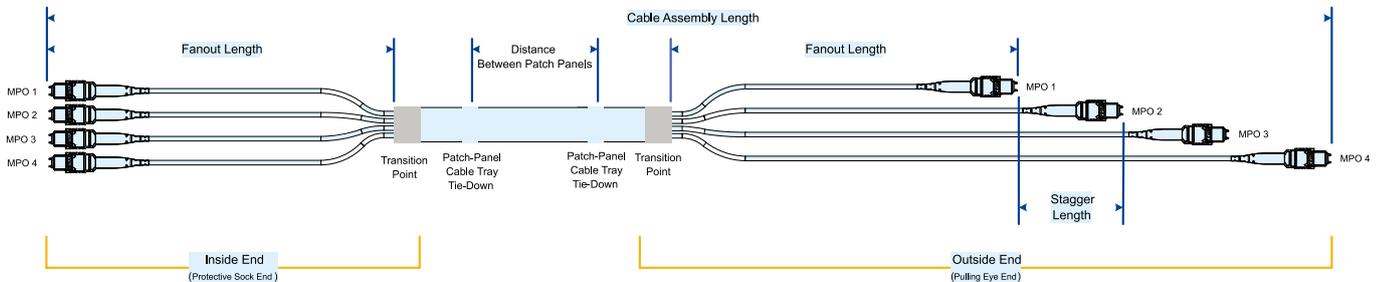
- Faster identification of fiber type with Erika Violet for OM4 cable, connectors and adapters
- Faster installation with pre-terminated solutions
- Faster deployment at the switch with MPO to LC fanout construction

EASIER

- Easier installation with 3-flange reel and default pulling eye
- Easier ordering with simple intelligent *SmartPart* Numbers
- Easier upgradability from 10G, 40G, 100G and 400G with MPO connectivity

BETTER

- Better quality through exhaustive design validation against TIA standards
- Better flexibility through absolute customizability
- Better identification of fiber type with Erika Violet for OM4 cable and connectors
- Better airflow with small transition point construction



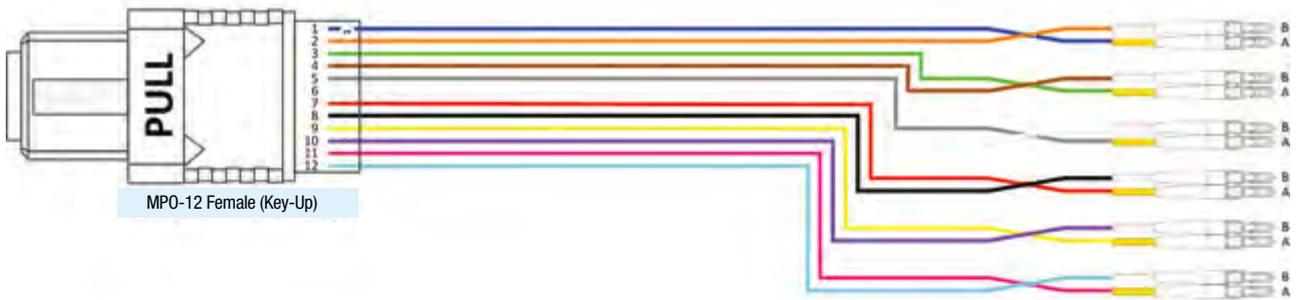
Multi-Fiber and Hydra Cable Assemblies - Standard Performance

Description	OM1	OM2	OM3	OM4	SM/APC	SM/APC(ULL)
Connector Performance MPO Connector (12f & 24f) *						
Return Loss Min. (dB)	/	/	25	25	60	65
Insertion Loss Max. (dB)	/	/	0.3	0.2	0.5	0.35

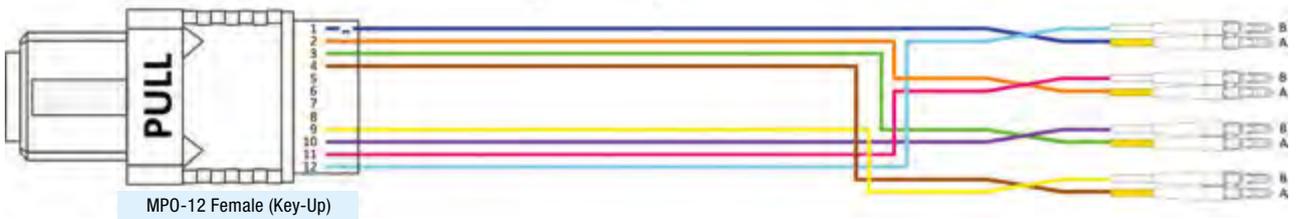
*The values specified herein apply for all Belden patch cords with MPO connectors at one end or both ends, such as MFxxx series/AFxxx series and MPO trunk cable etc.

FiberExpress Pre-Terminated Assemblies (continued) Multi-Fiber and Hydra Cable Assemblies

FX Hydra Assembly-Traditional Pinout



FX Hydra Assembly-40G Transceiver Pinout



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FiberExpress Pre-Terminated Assemblies (continued) Multi-Fiber and Hydra Cable Assemblies

Tailored FX Multi Fiber and Hydra Cable Assemblies Building a SmartPart Number

AF FX Patch Cord	1. Choose Fiber Type	2. Choose Connector 1	3. Choose Connector 2	4. Choose Fiber Count	5. Choose Fiber Sequence	6. Choose Cable Jacket	7. Choose Fan Out Construction	8. Choose Length & Unit	9. Choose Fire Rating	10. Choose Fan out Geometry	11. Choose Pulling Eye
AF	3	4M	LD	08	R	D	2	030	R	D	N

Fiber Type	Connector 1		Connector 2		Fiber Count	Polarity	Cable Construction	Fan-Out Construction		Length & Unit of Measure	Fire Rating	Fan-Out Geometry		Pulling Eyes*		
1 OM1	LD	LC Duplex	LD	LC Duplex	04	4 Fibers	X A/B (Cross)	S	2	2.0mm	R	Riser PVC Jacket	D	0.5 m x In-Line	N	None
2 OM2	LC	LC Simplex	LC	LC Simplex	06	6 Fibers	S A/A (Straight)	S	3	3.0mm	R	PVC Jacket	E	1.0 m x In-Line	B	Both ends
3 OM3	SD	SC Duplex	SD	SC Duplex	08	8 Fibers	A Type A	D	5	Duplex Zip 2.0mm	L	LSZH(IEC 60332-1)	F	1.5 m x In-Line	O	Outside only
4 OM4	SC	SC Simplex	SC	SC Simplex	12	12 Fibers	B Type B	A	7	Duplex Zip 3.0mm	P	Plenum PVC Jacket	G	2.0 m x In-Line	T	Inside only
5 OM5	ST	ST	ST	ST	16	16 Fibers	C Type C	A	9	900um	S	LSZH(IEC 60332-3)	H	0.6 m x In Line		
S OS2	LA	LC/APC Duplex	LA	LC/APC Duplex	24	24 Fibers	R SR4	T					M	2.5 m x In Line		
X OM3 (BI)	LB	LC/APC Simplex	LB	LC/APC Simplex	32	32 Fibers							N	0.3 m x In Line		
Y OM4 (BI)	LU	LC/Duplex Uni Boot	LU	LC Duplex Uni Boot	48	48 Fibers							1	0.5 m x Stag 80 mm/1 conn.		
Z G657 A1/A2	SA	SC/APC Duplex	SA	SC/APC Duplex	60	60 Fibers							2	0.5 m x Stag 80 mm/2 conn.		
	SB	SC/APC Simplex	SB	SC/APC Simplex	72	72 Fibers							3	0.5 x Stag 80mm/3 conn.		
	LH	LC Duplex HD	LH	LC Duplex HD	H4	144 Fibers							4	0.5 x Stag 80mm/4 conn.		
	UH	LC Uni Boot HD	UH	LC Uni Boot HD									6	0.5 m x Stag 80mm/6 conn.		
	4M	MTP-12(M) Base 8	4M	MTP-12(M) Base 8												
	4F	MTP-12(F) Base 8	4F	MTP-12(F) Base 8												
	MM	MTP-12(M)	MM	MTP-12(M)												
	MF	MTP-12(F)	MF	MTP-12(F)												
	NM	MTP-24(M)	NM	MTP-24(M)												
	NF	MTP-24(F)	NF	MTP-24(F)												
	MA	MTP-12(M) Single mode ULL(Yellow)	MA	MTP-12(M) Single mode ULL (Yellow)												
	MB	MTP-12(F) Single mode ULL(Yellow)	MB	MTP-12(F) Single mode ULL (Yellow)												

Examples:

AF3LDD12XS010RDN - Multi-Fiber cable assembly, distribution cable, Riser, OM3, 12 fibers, LC-LC Duplex, Fan-out: 0.5m x In line, no pulling eye, 10m

AF4LDMF12XS005LDN - Multi-Fiber cable assembly, distribution cable, LSZH, OM4, 12 fibers, LC Duplex – MTP-12 (F), Fan-out: 0.5m x In line, no pulling eye, 5m

Notes:

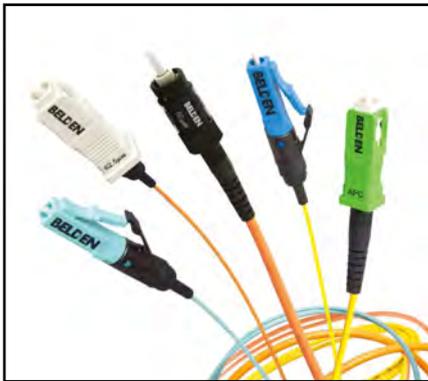
- For X-A/B (Cross) is only for duplex patch cord, for Type A, Type B and Type is only for both sides with MTP connectors trunk assemblies, MTP connector for single mode is APC polished. Our standard single mode MTP connector is green.
- The product numbers in the Item are just example for the part number assignment, the full series code can be assigned as per the number chart accordingly.
- The fiber attenuation in cable are less than 0.4dB/km at 1310nm for single mode fibers and less than 3.5dB/km at 850nm for multimode fibers.
- In a part number LC should always be shown as the first connector. (If there is LC). So MPO can only be second. So we need to flip the codes. (In the sample here, connector 1 should be LD and connector 2 can be MM, as if there is a LC connector at any end, that end by default is the first connector.)
- The standard fiber cable colors are Yellow for Single Mode; Orange for OM1& OM2; Aqua for OM3; Erika Violet for OM4.

FiberExpress Secure/Keyed LC System

FX Secure/Keyed LC System



FX Secure/Keyed LC



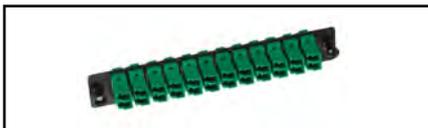
FX Brilliance Connectors



FX Secured/Keyed LC Ultra Cassette



FX Secure/Keyed LC Manager Module



FX Secure/Keyed LC Adapter Strip

The FX Secure/Keyed LC System allows for physical segregation of network segments in secure fiber cabling infrastructures. All Secure/Keyed LC products are available with 12 different keying options each carrying a different color to facilitate network administration. The keying detail inside the connector is highly tamper-resistant and cannot be reproduced inside a standard LC connector to violate the network security. All products comply with the FOCIS 10 standard and optical performance exceeds all industry standards for SFF connectors.

The Secure/Keyed LC Adapter Modules, Frames, Cassettes and Adapter Strips can be used in all mounting hardware for workstation area, Consolidation Point or Telecom Room applications. The Secure/Keyed LC FX Manager Modules can be used in 19- and 23-inch FX Manager Shelves to provide a high-density management system.

The Secure/Keyed LC FX Ultra Frames and Cassettes can be used with the FX UHD Rack and FX Ultra Wall-mount Patch Panels to provide an Ultra high-density patching system that is easy to deploy, operate and maintain, while ensuring maximum uptime, uninterrupted availability and superior performance.

The Secure/Keyed LC Patch Cords and Pigtails are offered in Multimode 62.5 μm (OM1), laser-optimized 50 μm (OM3 and OM4) and Singlemode (OS2) for the most demanding network performance.

The Secure/Keyed LC Brilliance Universal Field Installable Connectors are available in Multimode 50 μm laser-optimized (OM4, OM3 compatible) and Singlemode (OS2) fiber versions.

FX Secure/Keyed LC System

Description	Splices
LC Key1	Red
LC Key2	Green
LC Key3	Yellow
LC Key4	Black
LC Key5	Orange
LC Key6	Blue
LC Key7	Violet
LC Key8	Rose
LC Key9	Aqua
LC KeyA	Brown
LC KeyB	Slate
LC KeyC	White

For additional details, please refer to the Secure/Keyed LC System Product Bulletin PB275.

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FiberExpress Optic Cable

Introduction

The optical fiber cables featured in this section have been expanded to meet advances in technology and the demands of both commercial and industrial applications. Refer to this page for selecting a fiber type, color coding information, and optical specifications. Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Armored, burial, and ruggedized designs are suited to a host of industrial environments. For each product design, items for OM1, OM2, OM3, OM4, and OS2 (Singlemode) items have been developed. Belden fiber products are third party tested by either ETL or UL and approved for use according to the National Electric Code.

Customer Service

Many fiber designs are available from stock through our Distributors. For your new or custom application that you do not locate in this section, contact Customer Service at your region for additional information or to request a quote. Further product and technical information is also available on our web site at www.belden.com.



Cable Selection Guide

Jacket Color Chart

Cable Type	Jacket Color
Indoor Cables: Interconnect, Breakout, Distribution and Tray Optic	
OM1 & OM2	Orange
OM3	Aqua
OM4 (Standard)	Erika Violet
OM4 (Optional)	Aqua
OS2	Yellow
Indoor/Outdoor & Outdoor Cables: Distribution, Loose Tube, OSP	
OM1, OM2, OM3, OM4, OS2	Black
Specialty Cables: Tactical	
OM1, OM2, OM3, OM4, OS2	Black

The part numbers in the following pages represent standard fiber cables, many more constructions and more fiber counts are available, please contact your Belden representative for more informations.

FiberExpress Distribution Cables

Tight Buffer - Indoor Plenum, Riser & LSZH Rated

Sub-unitized cables provide easy routing and 900 µm tight-buffered fiber support fast and robust field-termination.

Applications

- Horizontal distribution for Fiber-to-the-desk
- In building backbone
- Factor floor automation
- Data center EDA areas
- Installation in duct or Plenum spaces



NTAPxxAA, NTBLxxAA, NTZLxxAA, N2APxxAA

Description	Construction	Fiber Count	Fiber	Sub-Unit OD (mm)	Cable OD (mm)			Weight (kg/km)			Tensile Strength (N)			
					Riser	LSZH	Plenum	Riser	LSZH	Plenum	Operation		Installation	
											Riser/LSZH	Plenum	Riser/LSZH	Plenum
Non-Unitized		2	900 µm TB	N/A	4.1	3.2	N/A	16.0	11.3	N/A	200	200	660	660
		4			4.8	4.8		18.6	21.6					
		6			5.1	5.1	5.1	22.6	25.5	22.6				
		8			5.6	5.6	5.6	25.2	31.4	25.2				
		10			5.8	5.8	5.8	31.8	35.0	31.8				
		12			6.2	6.2	6.2	33.4	40.3	33.5				
		14			8.8	8.8	8.8	37.1	43.5	37.1				
		16			8.8	8.8	8.8	41.9	46.7	41.9				
		18			8.8	8.8	8.8	46.6	49.9	46.6				
		20			8.8	8.8	8.8	50.3	53.9	50.3				
		22			8.8	8.8	8.8	54.3	56.5	54.3				
		24			8.8	8.8	8.8	58.0	60.0	58.0				
Unitized 6-Fiber Sub-Units		30	900 µm TB	3.5	14.4	12.4	N/A	155.0	149.0	N/A	400	N/A	1320	N/A
		36			15.6	13.5		174.0	177.0					
Unitized 12-Fiber Sub-Units		48	900 µm TB	5	15.9	14.7	15.9	187.0	185.0	174	400	N/A	1320	N/A
		60			17.4	16.0		215.0	217.0					
		72			18.9	17.4		265.0	266.0					
		96			22.4	20.6	N/A	385.0	382.0					
		108			24.4	22.2		463.0	449.0					
		144			29.4	26.9		711.0	687.0					

Consult individual technical data sheets for exact specifications.

Indoor Specifications

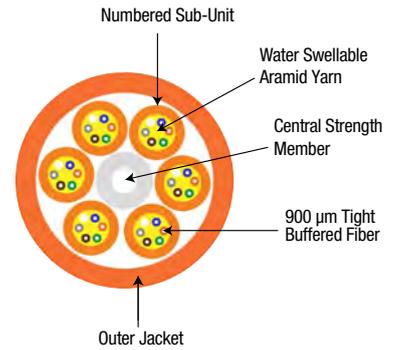
Bend Radius (vs. Cable OD)

Installation	20 x OD
Operation	10 x OD

Temperature Range

Storage	-20°C to 60°C
Operation	-20°C to 60°C

Legend



Compliance

- IEC 60794-1
- IEC 60332-3C (LSZH)
- IEC 60332-1 (LSZH)
- NEC/CEC OFNR FT.4 (RISER - PVC)
- NEC OFNP (PLENUM-PVC)

Standard Indoor Configurations

Fiber Count	Belden Part Number						
	OM1 62.5 µm Orange	OM2 50 µm Orange	OM3 BI 50 µm Aqua	OM4 BI 50 µm Aqua	OM5 BI 50 µm Lime Green	G.652.D Yellow	G.657.A1/G.657.A2 Yellow
Non-Unitized-Riser							
2	NTAP62AA0020GAA	NTAP50AA0020GAA	NTAP53AA0020QAA	NTAP54AA0020QAA	NTAP55AA0020LGA	NTAP12AA0020YEA	NTAP13AA0020YEA
4	NTAP62AA0040GAA	NTAP50AA0040GAA	NTAP53AA0040QAA	NTAP54AA0040QAA	NTAP55AA0040LGA	NTAP12AA0040YEA	NTAP13AA0040YEA
6	NTAP62AA0060GAA	NTAP50AA0060GAA	NTAP53AA0060QAA	NTAP54AA0060QAA	NTAP55AA0060LGA	NTAP12AA0060YEA	NTAP13AA0060YEA
8	NTAP62AA0080GAA	NTAP50AA0080GAA	NTAP53AA0080QAA	NTAP54AA0080QAA	NTAP55AA0080LGA	NTAP12AA0080YEA	NTAP13AA0080YEA
10	NTAP62AA0100GAA	NTAP50AA0100GAA	NTAP53AA0100QAA	NTAP54AA0100QAA	NTAP55AA0100LGA	NTAP12AA0100YEA	NTAP13AA0100YEA
12	NTAP62AA0120GAA	NTAP50AA0120GAA	NTAP53AA0120QAA	NTAP54AA0120QAA	NTAP55AA0120LGA	NTAP12AA0120YEA	NTAP13AA0120YEA
14	NTAP62AA0140GAA	NTAP50AA0140GAA	NTAP53AA0140QAA	NTAP54AA0140QAA	NTAP55AA0140LGA	NTAP12AA0140YEA	NTAP13AA0140YEA
16	NTAP62AA0160GAA	NTAP50AA0160GAA	NTAP53AA0160QAA	NTAP54AA0160QAA	NTAP55AA0160LGA	NTAP12AA0160YEA	NTAP13AA0160YEA
18	NTAP62AA0180GAA	NTAP50AA0180GAA	NTAP53AA0180QAA	NTAP54AA0180QAA	NTAP55AA0180LGA	NTAP12AA0180YEA	NTAP13AA0180YEA
20	NTAP62AA0200GAA	NTAP50AA0200GAA	NTAP53AA0200QAA	NTAP54AA0200QAA	NTAP55AA0200LGA	NTAP12AA0200YEA	NTAP13AA0200YEA
22	NTAP62AA0220GAA	NTAP50AA0220GAA	NTAP53AA0220QAA	NTAP54AA0220QAA	NTAP55AA0220LGA	NTAP12AA0220YEA	NTAP13AA0220YEA
24	NTAP62AA0240GAA	NTAP50AA0240GAA	NTAP53AA0240QAA	NTAP54AA0240QAA	NTAP55AA0240LGA	NTAP12AA0240YEA	NTAP13AA0240YEA

*Bend-Insensitive OM2 Fiber options are also available upon request

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FiberExpress Distribution Cables (continued)

Tight Buffer - Indoor Plenum, Riser & LSZH Rated

Fiber Count	Belden Part Number						
	OM1 62.5 µm Orange	OM2 50 µm Orange	OM3 BI 50 µm Aqua	OM4 BI 50 µm Aqua	OM5 BI 50 µm Lime Green	G.652.D Yellow	G.657.A1/G.657.A2 Yellow
Non-Unitized - LSZH IEC 60332-3C							
2	NTBL62AA0020GAA	NTBL50AA0020GAA	NTBL53AA002AQAA	NTBL54AA002AQAA	NTBL55AA002LGAA	NTBL12AA002YEAA	NTBL13AA002YEAA
4	NTBL62AA0040GAA	NTBL50AA0040GAA	NTBL53AA004AQAA	NTBL54AA004AQAA	NTBL55AA004LGAA	NTBL12AA004YEAA	NTBL13AA004YEAA
6	NTBL62AA0060GAA	NTBL50AA0060GAA	NTBL53AA006AQAA	NTBL54AA006AQAA	NTBL55AA006LGAA	NTBL12AA006YEAA	NTBL13AA006YEAA
8	NTBL62AA0080GAA	NTBL50AA0080GAA	NTBL53AA008AQAA	NTBL54AA008AQAA	NTBL55AA008LGAA	NTBL12AA008YEAA	NTBL13AA008YEAA
10	NTBL62AA0100GAA	NTBL50AA0100GAA	NTBL53AA010AQAA	NTBL54AA010AQAA	NTBL55AA010LGAA	NTBL12AA010YEAA	NTBL13AA010YEAA
12	NTBL62AA0120GAA	NTBL50AA0120GAA	NTBL53AA012AQAA	NTBL54AA012AQAA	NTBL55AA012LGAA	NTBL12AA012YEAA	NTBL13AA012YEAA
14	NTBL62AA0140GAA	NTBL50AA0140GAA	NTBL53AA014AQAA	NTBL54AA014AQAA	NTBL55AA014LGAA	NTBL12AA014YEAA	NTBL13AA014YEAA
16	NTBL62AA0160GAA	NTBL50AA0160GAA	NTBL53AA016AQAA	NTBL54AA016AQAA	NTBL55AA016LGAA	NTBL12AA016YEAA	NTBL13AA016YEAA
18	NTBL62AA0180GAA	NTBL50AA0180GAA	NTBL53AA018AQAA	NTBL54AA018AQAA	NTBL55AA018LGAA	NTBL12AA018YEAA	NTBL13AA018YEAA
20	NTBL62AA0200GAA	NTBL50AA0200GAA	NTBL53AA020AQAA	NTBL54AA020AQAA	NTBL55AA020LGAA	NTBL12AA020YEAA	NTBL13AA020YEAA
22	NTBL62AA0220GAA	NTBL50AA0220GAA	NTBL53AA022AQAA	NTBL54AA022AQAA	NTBL55AA022LGAA	NTBL12AA022YEAA	NTBL13AA022YEAA
24	NTBL62AA0240GAA	NTBL50AA0240GAA	NTBL53AA024AQAA	NTBL54AA024AQAA	NTBL55AA024LGAA	NTBL12AA024YEAA	NTBL13AA024YEAA
Non-Unitized - LSZH IEC 60332-1							
2	NTZL62AA0020GAA	NTZL50AA0020GAA	NTZL53AA002AQAA	NTZL54AA002AQAA	NTZL55AA002LGAA	NTZL12AA002YEAA	NTZL13AA002YEAA
4	NTZL62AA0040GAA	NTZL50AA0040GAA	NTZL53AA004AQAA	NTZL54AA004AQAA	NTZL55AA004LGAA	NTZL12AA004YEAA	NTZL13AA004YEAA
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Unitized 6-Fiber Sub-Units - Riser							
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Unitized 6-Fiber Sub-Units - LSZH IEC 60332-3C							
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36	NTZL62AA0360GAA	NTZL50AA0360GAA	NTZL53AA036AQAA	NTZL54AA036AQAA	NTZL55AA036LGAA	NTZL12AA036YEAA	NTZL13AA036YEAA
Unitized 12-Fiber Sub-Units - Riser							
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108	NTAP62AA1080GAA	NTAP50AA1080GAA	NTAP53AA108AQAA	NTAP54AA108AQAA	NTAP55AA108LGAA	NTAP12AA108YEAA	NTAP13AA108YEAA
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Unitized 12-Fiber Sub-Units - LSZH IEC 60332-3C							
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Unitized 12-Fiber Sub-Units - LSZH IEC 60332-1							
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*Bend-Insensitive OM2 Fiber options are also available upon request

FiberExpress Distribution Cables (continued)

Tight Buffer - Indoor Plenum, Riser & LSZH Rated

Fiber Count	Belden Part Number						
	OM1 62.5 μm Orange	OM2 50 μm Orange	OM3 BI 50 μm Aqua	OM4 BI 50 μm Aqua	OM5 BI 50μm Lime Green	G.652.D Yellow	G.657.A1/G.657.A2 Yellow
Non-Unitized-OFNP							
6	N2AP62AA0060GAA	N2AP50AA0060GAA	N2AP53AA006AQAA	N2AP54AA006AQAA	N2AP55AA006LGAA	N2AP12AA006YEAA	N2AP13AA006YEAA
8	N2AP62AA0080GAA	N2AP50AA0080GAA	N2AP53AA008AQAA	N2AP54AA008AQAA	N2AP55AA008LGAA	N2AP12AA008YEAA	N2AP13AA008YEAA
10	N2AP62AA0100GAA	N2AP50AA0100GAA	N2AP53AA010AQAA	N2AP54AA010AQAA	N2AP55AA010LGAA	N2AP12AA010YEAA	N2AP13AA010YEAA
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14	N2AP62AA0140GAA	N2AP50AA0140GAA	N2AP53AA014AQAA	N2AP54AA014AQAA	N2AP55AA014LGAA	N2AP12AA014YEAA	N2AP13AA014YEAA
16	N2AP62AA0160GAA	N2AP50AA0160GAA	N2AP53AA016AQAA	N2AP54AA016AQAA	N2AP55AA016LGAA	N2AP12AA016YEAA	N2AP13AA016YEAA
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22	N2AP62AA0220GAA	N2AP50AA0220GAA	N2AP53AA022AQAA	N2AP54AA022AQAA	N2AP55AA022LGAA	N2AP12AA022YEAA	N2AP13AA022YEAA
24	N2AP62AA0240GAA	N2AP50AA0240GAA	N2AP53AA024AQAA	N2AP54AA024AQAA	N2AP55AA024LGAA	N2AP12AA024YEAA	N2AP13AA024YEAA
Unitized 12-Fibers Sub-Units-OFNP							
48	N2AP62AA0480GAA	N2AP50AA0480GAA	N2AP53AA048AQAA	N2AP54AA048AQAA	N2AP55AA048LGAA	N2AP12AA048YEAA	N2AP13AA048YEAA

*Bend-Insensitive OM2 Fiber options are also available upon request

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Indoor/Outdoor Specifications

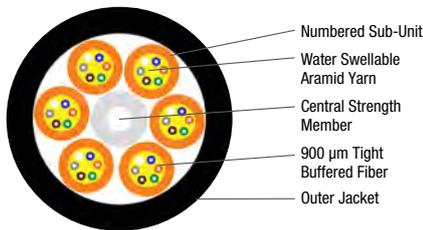
Bend Radius (vs. Cable OD)

Installation 20 x OD
Operation 10 x OD

Temperature Range

Storage -20°C to 60°C
Operation -20°C to 60°C

Legend



Compliance

IEC 60794-1
NEC/CEC OFNR FT 4 (RISER - PVC)

FiberExpress Distribution Cables

Tight Buffer – Indoor/Outdoor Riser Rated

Available in sizes from 2 to 144 fibers. High degree of flexibility and Excellent flame retardant performance. Water swellable aramid yarn and black UV resistant jacket design suitable for outdoor. Length marking in meters for easy determination of the cable length.

Applications

- Horizontal Distribution
- In Building Backbone
- Inner and inter building installations
- Various other Indoor & Outdoor application

Description	Construction	Fiber Count	Fiber	Sub-Unit OD (mm)	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
							Operation	Installation
Non-Unitized		2	900 µm TB	N/A	4.1	16.0	200	660
		4			4.8	18.6		
		6			5.1	22.6		
		8			5.6	25.2		
		10			5.8	31.8		
		12			6.2	33.4		
		14			8.8	37.1		
		16			8.8	41.9		
		18			8.8	46.6		
		20			8.8	50.3		
		22			8.8	54.3		
24	8.8	58.0						
Unitized 6-Fiber Sub-Units		30	900 µm TB	3.5	14.4	155.0	400	1320
		36			15.6	174.0	400	1320
Unitized 12-Fiber Sub-Units		48	900 µm TB	5	15.9	187.0	400	1320
		60			17.4	215.0		
		72			18.9	265.0		
		96			22.4	385.0		
		108			24.4	463.0		
		144			29.4	711.0		

Consult individual technical data sheets for exact specifications.

FiberExpress Distribution Cables (continued)
Tight Buffer — Indoor/Outdoor Riser Rated

Standard Indoor/Outdoor Configurations

Fiber Count	Belden Part Number						
	OM1 62.5 µm Black	OM2 50 µm Black	OM3 BI 50 µm Black	OM4 BI 50 µm Black	OM5 BI 50 µm Lime Green	G.652.D Black	G.657.A1/G.657.A2 Black
Non-Unitized - Riser							
2	NTAP62WA002BKAA	NTAP50WA002BKAA	NTAP53WA002BKAA	NTAP54WA002BKAA	NTAP55WA002LGAA	NTAP12WA002BKAA	NTAP13WA002BKAA
4	NTAP62WA004BKAA	NTAP50WA004BKAA	NTAP53WA004BKAA	NTAP54WA004BKAA	NTAP55WA004LGAA	NTAP12WA004BKAA	NTAP13WA004BKAA
6	NTAP62WA006BKAA	NTAP50WA006BKAA	NTAP53WA006BKAA	NTAP54WA006BKAA	NTAP55WA006LGAA	NTAP12WA006BKAA	NTAP13WA006BKAA
8	NTAP62WA008BKAA	NTAP50WA008BKAA	NTAP53WA008BKAA	NTAP54WA008BKAA	NTAP55WA008LGAA	NTAP12WA008BKAA	NTAP13WA008BKAA
10	NTAP62WA010BKAA	NTAP50WA010BKAA	NTAP53WA010BKAA	NTAP54WA010BKAA	NTAP55WA010LGAA	NTAP12WA010BKAA	NTAP13WA010BKAA
12	NTAP62WA012BKAA	NTAP50WA012BKAA	NTAP53WA012BKAA	NTAP54WA012BKAA	NTAP55WA012LGAA	NTAP12WA012BKAA	NTAP13WA012BKAA
14	NTAP62WA014BKAA	NTAP50WA014BKAA	NTAP53WA014BKAA	NTAP54WA014BKAA	NTAP55WA014LGAA	NTAP12WA014BKAA	NTAP13WA014BKAA
16	NTAP62WA016BKAA	NTAP50WA016BKAA	NTAP53WA016BKAA	NTAP54WA016BKAA	NTAP55WA016LGAA	NTAP12WA016BKAA	NTAP13WA016BKAA
18	NTAP62WA018BKAA	NTAP50WA018BKAA	NTAP53WA018BKAA	NTAP54WA018BKAA	NTAP55WA018LGAA	NTAP12WA018BKAA	NTAP13WA018BKAA
20	NTAP62WA020BKAA	NTAP50WA020BKAA	NTAP53WA020BKAA	NTAP54WA020BKAA	NTAP55WA020LGAA	NTAP12WA020BKAA	NTAP13WA020BKAA
22	NTAP62WA022BKAA	NTAP50WA022BKAA	NTAP53WA022BKAA	NTAP54WA022BKAA	NTAP55WA022LGAA	NTAP12WA022BKAA	NTAP13WA022BKAA
24	NTAP62WA024BKAA	NTAP50WA024BKAA	NTAP53WA024BKAA	NTAP54WA024BKAA	NTAP55WA024LGAA	NTAP12WA024BKAA	NTAP13WA024BKAA
Unitized 6-Fiber Sub-Units - Riser							
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36	NTAP62WA036BKAA	NTAP50WA036BKAA	NTAP53WA036BKAA	NTAP54WA036BKAA	NTAP55WA036LGAA	NTAP12WA036BKAA	NTAP13WA036BKAA
Unitized 12-Fiber Sub-Units - Riser							
48	NTAP62WA048BKAA	NTAP50WA048BKAA	NTAP53WA048BKAA	NTAP54WA048BKAA	NTAP55WA048LGAA	NTAP12WA048BKAA	NTAP13WA048BKAA
60	NTAP62WA060BKAA	NTAP50WA060BKAA	NTAP53WA060BKAA	NTAP54WA060BKAA	NTAP55WA060LGAA	NTAP12WA060BKAA	NTAP13WA060BKAA
72	NTAP62WA072BKAA	NTAP50WA072BKAA	NTAP53WA072BKAA	NTAP54WA072BKAA	NTAP55WA072LGAA	NTAP12WA072BKAA	NTAP13WA072BKAA
96	NTAP62WA096BKAA	NTAP50WA096BKAA	NTAP53WA096BKAA	NTAP54WA096BKAA	NTAP55WA096LGAA	NTAP12WA096BKAA	NTAP13WA096BKAA
108	NTAP62WA108BKAA	NTAP50WA108BKAA	NTAP53WA108BKAA	NTAP54WA108BKAA	NTAP55WA108LGAA	NTAP12WA108BKAA	NTAP13WA108BKAA
144	NTAP62WA144BKAA	NTAP50WA144BKAA	NTAP53WA144BKAA	NTAP54WA144BKAA	NTAP55WA144LGAA	NTAP12WA144BKAA	NTAP13WA144BKAA

*Bend-Insensitive OM2 Fiber options are also available upon request

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NTBLXXWA

Indoor/Outdoor Specifications

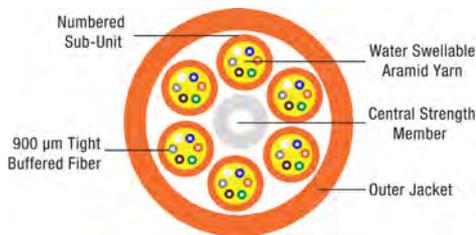
Bend Radius (vs. Cable OD)

Installation	20 x OD
Operation	10 x OD

Temperature Range

Storage	-20°C to 60°C
Operation	-20°C to 60°C

Legend



Compliance

IEC 60794-1
IEC 60332-3C (LSZH)

FiberExpress Distribution Cables

Tight Buffer – Indoor/Outdoor LSZH Rated

Available in sizes from 2 to 144 fibers. High degree of flexibility and LSZH jacket design with excellent flame retardant performance. Water swellable aramid yarn and waterblocking tape suitable for outdoor applications where cable is protected from UV radiations by duct. Length marking in meters for easy determination of the cable length.

Applications

- Horizontal Distribution
- In-Building Backbone
- Inner and inter building installations
- Suitable for Duct applications

Description	Construction	Fiber Count	Fiber	Sub-Unit OD (mm)	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
							Operation	Installation
Non-Unitized		2	900 µm TB	N/A	3.2	11.3	200	660
		4			4.8	21.6		
		6			5.1	25.5		
		8			5.6	31.4		
		10			5.8	35.0		
		12			6.2	40.3		
		14			8.8	43.5		
		16			8.8	46.7		
		18			8.8	49.9		
		20			8.8	53.9		
		22			8.8	56.5		
		24			8.8	60.0		
Unitized 6-Fiber Sub-Units		30	900 µm TB	3.5	12.4	149	400	1320
		36			13.5	177		
Unitized 12-Fiber Sub-Units		48	900 µm TB	5.0	14.7	185	400	1320
		60			16.0	217		
		72			17.4	266		
		96			20.6	382		
		108			22.2	499		
		144			26.9	687		

Consult individual technical data sheets for exact specifications.

FiberExpress Distribution Cables (continued)

Tight Buffer - Indoor/Outdoor LSZH Rated

Standard Indoor/Outdoor Configurations

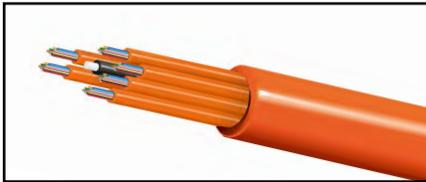
Fiber Count	Belden Part Number						
	OM1 62.5 µm Orange	OM2 50 µm Orange	OM3 BI 50 µm Aqua	OM4 BI 50 µm Erika Violet	OM5 BI 50 µm Lime Green	G.652.D Yellow	G.657.A1/G.657.A2 Yellow
Non-Unitized - IEC 60332-3C							
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6	NTBL62WA0060GAA	NTBL50WA0060GAA	NTBL53WA006AQAA	NTBL54WA006EVAA	NTBL55WA006LGAA	NTBL12WA006YEAA	NTBL13WA006YEAA
8	NTBL62WA0080GAA	NTBL50WA0080GAA	NTBL53WA008AQAA	NTBL54WA008EVAA	NTBL55WA008LGAA	NTBL12WA008YEAA	NTBL13WA008YEAA
10	NTBL62WA0100GAA	NTBL50WA0100GAA	NTBL53WA010AQAA	NTBL54WA010EVAA	NTBL55WA010LGAA	NTBL12WA010YEAA	NTBL13WA010YEAA
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14	NTBL62WA0140GAA	NTBL50WA0140GAA	NTBL53WA014AQAA	NTBL54WA014EVAA	NTBL55WA014LGAA	NTBL12WA014YEAA	NTBL13WA014YEAA
16	NTBL62WA0160GAA	NTBL50WA0160GAA	NTBL53WA016AQAA	NTBL54WA016EVAA	NTBL55WA016LGAA	NTBL12WA016YEAA	NTBL13WA016YEAA
18	NTBL62WA0180GAA	NTBL50WA0180GAA	NTBL53WA018AQAA	NTBL54WA018EVAA	NTBL55WA018LGAA	NTBL12WA018YEAA	NTBL13WA018YEAA
20	NTBL62WA0200GAA	NTBL50WA0200GAA	NTBL53WA020AQAA	NTBL54WA020EVAA	NTBL55WA020LGAA	NTBL12WA020YEAA	NTBL13WA020YEAA
22	NTBL62WA0220GAA	NTBL50WA0220GAA	NTBL53WA022AQAA	NTBL54WA022EVAA	NTBL55WA022LGAA	NTBL12WA022YEAA	NTBL13WA022YEAA
24	NTBL62WA0240GAA	NTBL50WA0240GAA	NTBL53WA024AQAA	NTBL54WA024EVAA	NTBL55WA024LGAA	NTBL12WA024YEAA	NTBL13WA024YEAA
Unitized 6-Fiber Sub-Units - IEC 60332-3C							
30	NTBL62WA0300GAA	NTBL50WA0300GAA	NTBL53WA030AQAA	NTBL54WA030EVAA	NTBL55WA030LGAA	NTBL12WA030YEAA	NTBL13WA030YEAA
36	NTBL62WA0360GAA	NTBL50WA0360GAA	NTBL53WA036AQAA	NTBL54WA036EVAA	NTBL55WA036LGAA	NTBL12WA036YEAA	NTBL13WA036YEAA
Unitized 12-Fiber Sub-Units - IEC 60332-3C							
48	NTBL62WA0480GAA	NTBL50WA0480GAA	NTBL53WA048AQAA	NTBL54WA048EVAA	NTBL55WA048LGAA	NTBL12WA048YEAA	NTBL13WA048YEAA
60	NTBL62WA0600GAA	NTBL50WA0600GAA	NTBL53WA060AQAA	NTBL54WA060EVAA	NTBL55WA060LGAA	NTBL12WA060YEAA	NTBL13WA060YEAA
72	NTBL62WA0720GAA	NTBL50WA0720GAA	NTBL53WA072AQAA	NTBL54WA072EVAA	NTBL55WA072LGAA	NTBL12WA072YEAA	NTBL13WA072YEAA
96	NTBL62WA0960GAA	NTBL50WA0960GAA	NTBL53WA096AQAA	NTBL54WA096EVAA	NTBL55WA096LGAA	NTBL12WA096YEAA	NTBL13WA096YEAA
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*Bend-Insensitive OM2 Fiber options are also available upon request

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FiberExpress Distribution Cables

Tight Buffer - Indoor/Outdoor Distribution Cable



GUMT

Available in size from 2 to 72 fibers. 900 µm buffered fiber allow for use of field- installable connectors. Semibuffered optical fibers are easily strippable. Length marking in meters for easy determination of the cable length. These cable are halogenfree (= FRNC and LSNH) and watertight and therefore suitable for internal and external use. Consequently splicing can be avoided and the installation gets more cost effective.

Applications

- Suitable for structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling
- Suitable for outdoor and indoor use in networks for industrial, telecom, cable TV and/or broadcast
- Support all computer network applications such as FDDI, Gigabit Ethernet and ATM
- Not suitable for blown installation

Indoor/Outdoor Specifications

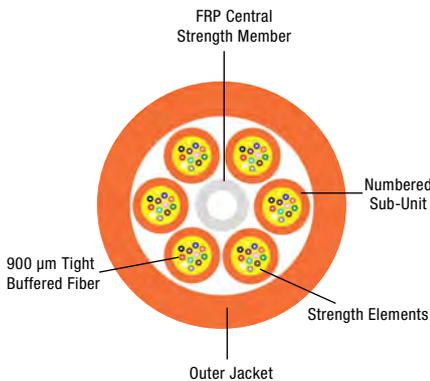
Bend Radius (vs. Cable OD)

Installation	20 X OD
Operation	10 X OD

Temperature Range (F1)

Installation	-5°C to 50°C
Operation	-30°C to 70°C

Legend



Description	Construction	Fiber Count	Fiber	Sub-Unit OD (mm)	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)
							Installation
Non-Unitized		2	900 µm TB	N/A	5.4	25	400
		4			5.4	27	400
		6			5.9	31	400
		8			5.9	33	400
		12			7.6	54	450
		16			8.6	64	530
Unitized 12-Fiber Sub-Units		24	900 µm TB	6.1	9.6	80	650
		36			17.3	259	1000
		48			17.3	249	1000
		72			20.9	384	1000

Consult individual technical data sheets for exact specifications.

Compliance

- IEC 60332-3C (LSZH)
- IEC 60754-1
- IEC 60754-2
- IEC 61034-2
- IEC 60794-1

FiberExpress Distribution Cables (continued)

Tight Buffer - Indoor/Outdoor Distribution Cable

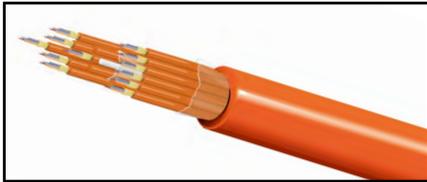
Standard Indoor/Outdoor Configurations

Fiber Count	Belden Part Number								
	OM 1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D /G.657.A1	ITU G 657.A2	ITU G 657.B3	ITU G.655 C & D
Non-Unitized - IEC 60332-3C									
2	GUMT102	GUMT202	GUMTD02	GUMTE02	GUMTC02	GUMTA02	GUMTF02	GUMTI02	GUMT702
4	GUMT104	GUMT204	GUMTD04	GUMTE04	GUMTC04	GUMTA04	GUMTF04	GUMTI04	GUMT704
6	GUMT106	GUMT206	GUMTD06	GUMTE06	GUMTC06	GUMTA06	GUMTF06	GUMTI06	GUMT706
8	GUMT108	GUMT208	GUMTD08	GUMTE08	GUMTC08	GUMTA08	GUMTF08	GUMTI08	GUMT708
12	GUMT112	GUMT212	GUMTD12	GUMTE12	GUMTC12	GUMTA12	GUMTF12	GUMTI12	GUMT712
16	GUMT116	GUMT216	GUMTD16	GUMTE16	GUMTC16	GUMTA16	GUMTF16	GUMTI16	GUMT716
24	GUMT124	GUMT224	GUMTD24	GUMTE24	GUMTC24	GUMTA24	GUMTF24	GUMTI24	GUMT724
Unitized 12-Fiber Sub-Units - IEC 60332-3C									
36	GUMT136	GUMT236	GUMTD36	GUMTE36	GUMTC36	GUMTA36	GUMTF36	GUMTI36	GUMT736
48	GUMT148	GUMT248	GUMTD48	GUMTE48	GUMTC48	GUMTA48	GUMTF48	GUMTI48	GUMT748
72	GUMT172	GUMT272	GUMTD72	GUMTE72	GUMTC72	GUMTA72	GUMTF72	GUMTI72	GUMT772

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FiberExpress Mini-Distribution Cables

Mini-Distribution – Indoor LSZH rated



MDBUxxAA

Applications

- Horizontal Distribution
- Suitable for Duct application

High degree of flexibility suitable for horizontal, inter connect applications, Excellent LSZH flame retardant performance for indoor application.

Indoor Specifications

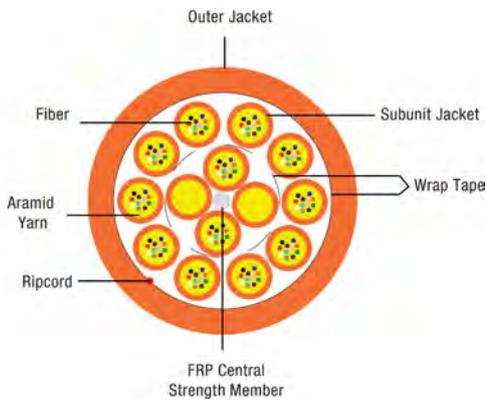
Bend Radius (vs. Cable OD)

Installation	20 x OD
Operation	10 x OD

Temperature Range

Storage	-20°C to 60°C
Operation	-20°C to 60°C

Legend



Description	Construction	Fiber Count	Sub-Unit OD (mm)	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
						Operation	Installation
Non-Unitized		2	N/A	3.8	10.8	130	440
		4					
		6					
		8					
		12					
Unitized 12-Fiber Sub-Units		24	2.0	6.5	36	200	660
		36		6.5	36		
		48		6.5	36		
		72		7.5	49		
		96		8.9	71		
		144		10.7	84		

Consult individual technical data sheets for exact specifications.

Compliance

IEC 60794-1

IEC 60332-3C (LSZH)

FiberExpress Mini-Distribution Cables (continued)

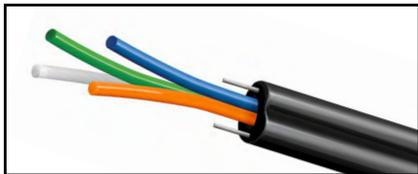
Mini-Distribution - Indoor LSZH Rated

Standard Indoor Configurations

Fiber Count	Belden Part Number							
	OM1 62.5 μm Orange	OM2 50 μm Orange	OM3 BI 50 μm Aqua	OM4 BI 50 μm Erika Violet	OM5 BI 50 μm Lime Green	G.652.D Yellow	G.657.A1 Yellow	G.657.A2 Yellow
Non-Unitized - IEC 60332-3C								
2	MDBU62AA0020GAA	MDBU50AA0020GAA	MDBU53AA002AQAA	MDBU54AA002EVAA	MDBU55AA002LGAA	MDBU12AA002YEAA	MDBA71AA002YEAA	MDBA72AA002YEAA
4	MDBU62AA0040GAA	MDBU50AA0040GAA	MDBU53AA004AQAA	MDBU54AA004EVAA	MDBU55AA004LGAA	MDBU12AA004YEAA	MDBA71AA004YEAA	MDBA72AA004YEAA
6	MDBU62AA0060GAA	MDBU50AA0060GAA	MDBU53AA006AQAA	MDBU54AA006EVAA	MDBU55AA006LGAA	MDBU12AA006YEAA	MDBA71AA006YEAA	MDBA72AA006YEAA
8	MDBU62AA0080GAA	MDBU50AA0080GAA	MDBU53AA008AQAA	MDBU54AA008EVAA	MDBU55AA008LGAA	MDBU12AA008YEAA	MDBA71AA008YEAA	MDBA72AA008YEAA
12	MDBU62AA0120GAA	MDBU50AA0120GAA	MDBU53AA012AQAA	MDBU54AA012EVAA	MDBU55AA012LGAA	MDBU12AA012YEAA	MDBA71AA012YEAA	MDBA72AA012YEAA
Unitized 12-Fiber Sub-Units - IEC 60332-3C								
24	MDBU62AA0240GAA	MDBU50AA0240GAA	MDBU53AA024AQAA	MDBU54AA024EVAA	MDBU55AA024LGAA	MDBU12AA024YEAA	MDBA71AA024YEAA	MDBA72AA024YEAA
36	MDBU62AA0360GAA	MDBU50AA0360GAA	MDBU53AA036AQAA	MDBU54AA036EVAA	MDBU55AA036LGAA	MDBU12AA036YEAA	MDBA71AA036YEAA	MDBA72AA036YEAA
48	MDBU62AA0480GAA	MDBU50AA0480GAA	MDBU53AA048AQAA	MDBU54AA048EVAA	MDBU55AA048LGAA	MDBU12AA048YEAA	MDBA71AA048YEAA	MDBA72AA048YEAA
72	MDBU62AA0720GAA	MDBU50AA0720GAA	MDBU53AA072AQAA	MDBU54AA072EVAA	MDBU55AA072LGAA	MDBU12AA072YEAA	MDBA71AA072YEAA	MDBA72AA072YEAA
96	MDBU62AA0960GAA	MDBU50AA0960GAA	MDBU53AA096AQAA	MDBU54AA096EVAA	MDBU55AA096LGAA	MDBU12AA096YEAA	MDBA71AA096YEAA	MDBA72AA096YEAA
144	MDBU62AA1440GAA	MDBU50AA1440GAA	MDBU53AA144AQAA	MDBU54AA144EVAA	MDBU55AA144LGAA	MDBU12AA144YEAA	MDBA71AA144YEAA	MDBA72AA144YEAA

*Bend-Insensitive OM2 Fiber options are also available upon request

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AP52010x

Construction

Jacket Material	LSZH
Reinforcement Member Material	Steel Wire
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

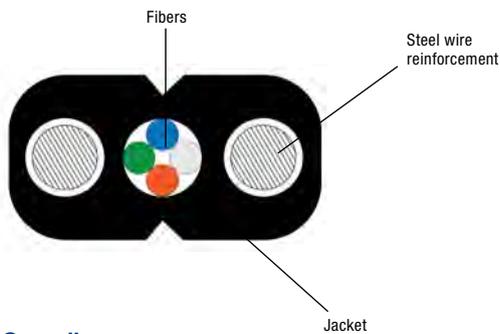
Bend Radius (vs Cable OD)

Installation	40 × OD (height over the jacket)
Operation	20 × OD (height over the jacket)

Temperature Range

Storage	-20°C to 60°C
Operation	-20°C to 60°C

Legend



Compliance

IEC 60794-1-2
IEC 60332-1

FiberExpress Drop Cables

Steel Wire Reinforcement Bow-type - Indoor LSZH

1, 2 or 4 single mode optical fibers (G.657.A2) is positioned in the cable center, 2 solid parallel steel wires reinforcement are applied at the both sides of the fibers, LSZH jacket is extruded over the fiber cores and steel wires.

Applications

- Horizontal distribution for Fiber-to-the desk
- FTTH Networks

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
AP52010x		1 to 4	(3.0±0.1)*(2.0±0.1)	9	120	60

Consult individual technical data sheets for exact specifications.

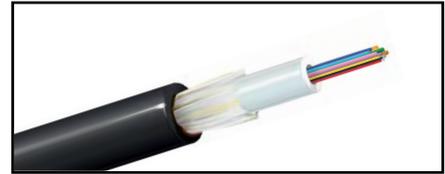
Fiber Count	Belden Part Number
Bow type Drop optical Fiber cables	
1	AP520101
2	AP520102
4	AP520103

FiberExpress Central Loose Tube CLT - Indoor/Outdoor Unarmored LSZH

Available in sizes from 2 to 24 fibers. Full dielectric construction, no grounding required. Glass Yarn Strength Elements (NXBU) and Aramid Yarn Strength Element for tensile strength (NYBU). Halogen Free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire



NXBU, NYBU

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
NXBUxxBA Single Subunit		2 to 12	6.8	56	1000	400
NYBUxxBA Single Subunit		2 to 12	6.2	40	1000	400
NXBUxxDA Single Subunit		14 to 24	7.8	67	1000	400
NYBUxxDA Single Subunit		14 to 24	7.0	50	1000	400

Consult individual technical data sheets for exact specifications.

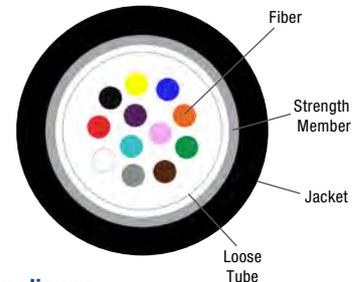
Construction

Jacket Material	LSZH
Loose Tube	PBT
Strength Member	Glass Yarn(NXBU) Aramid Yarn(NYBU)
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	10 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cycling Flexing	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1
Cable Standard	IEC 60794-1 TIA/EIA-455

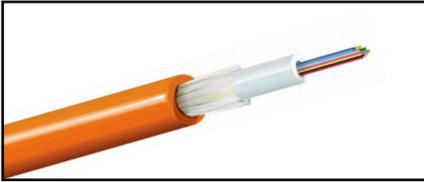
No. of Fibers	Belden Part number				
	OM1 62.5 μm	OM2 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	SM G.652.D
NXBU					
2	NXBU62BA002BKAA	NXBU50BA002BKAA	NXBU53BA002BKAA	NXBU54BA002BKAA	NXBU12BA002BKAA
4	NXBU62BA004BKAA	NXBU50BA004BKAA	NXBU53BA004BKAA	NXBU54BA004BKAA	NXBU12BA004BKAA
6	NXBU62BA006BKAA	NXBU50BA006BKAA	NXBU53BA006BKAA	NXBU54BA006BKAA	NXBU12BA006BKAA
8	NXBU62BA008BKAA	NXBU50BA008BKAA	NXBU53BA008BKAA	NXBU54BA008BKAA	NXBU12BA008BKAA
12	NXBU62BA012BKAA	NXBU50BA012BKAA	NXBU53BA012BKAA	NXBU54BA012BKAA	NXBU12BA012BKAA
16	NXBU62DA016BKAA	NXBU50DA016BKAA	NXBU53DA016BKAA	NXBU54DA016BKAA	NXBU12DA016BKAA
24	NXBU62DA024BKAA	NXBU50DA024BKAA	NXBU53DA024BKAA	NXBU54DA024BKAA	NXBU12DA024BKAA
NYBU					
2	NYBU62BA002BKAA	NYBU50BA002BKAA	NYBU53BA002BKAA	NYBU54BA002BKAA	NYBU12BA002BKAA
4	NYBU62BA004BKAA	NYBU50BA004BKAA	NYBU53BA004BKAA	NYBU54BA004BKAA	NYBU12BA004BKAA
6	NYBU62BA006BKAA	NYBU50BA006BKAA	NYBU53BA006BKAA	NYBU54BA006BKAA	NYBU12BA006BKAA
8	NYBU62BA008BKAA	NYBU50BA008BKAA	NYBU53BA008BKAA	NYBU54BA008BKAA	NYBU12BA008BKAA
12	NYBU62BA012BKAA	NYBU50BA012BKAA	NYBU53BA012BKAA	NYBU54BA012BKAA	NYBU12BA012BKAA
16	NYBU62DA016BKAA	NYBU50DA016BKAA	NYBU53DA016BKAA	NYBU54DA016BKAA	NYBU12DA016BKAA
24	NYBU62DA024BKAA	NYBU50DA024BKAA	NYBU53DA024BKAA	NYBU54DA024BKAA	NYBU12DA024BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

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FiberExpress Central Loose Tube Cables

CLT - Indoor/Outdoor Unarmored LSZH (Rodent Protection)



GUSN, GUSL, GURN, GUVN

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\text{Ø } 250 \pm 15 \mu\text{m}$) Full dielectric construction, no grounding required. Rodent protected by means of Glass Yarn Strength Elements. Halogen Free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- Easy to install in ducts, tunnels and trenches by pulling wire

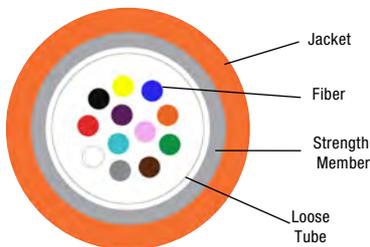
Construction

Jacket Material	LSZH
Loose Tube	PBT
Strength Member	Waterblocking Glass Yarn
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	15 kN/m
Temperature Range	
GUSN, GURN, GUVN	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
GUSL	
Storage	-5°C to 40°C
Operation	-5°C to 40°C
Installation	-5°C to 40°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Flame Retardant	
- GUSN, GURN, GUVN	IEC 60332-1
- GUSL	IEC 60332-3-25
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GUSN*xx Single Subunit		2 to 24	5.8	37	1500	500
GUSL*xx Single Subunit		2 to 24	6.5	48	1500	500
GURN*xx Single Subunit		2 to 24	7.1	55	3150	1050
GUVN*xx Single Subunit		2 to 24	7.8	67	4500	1500

Consult individual technical data sheets for exact specifications.

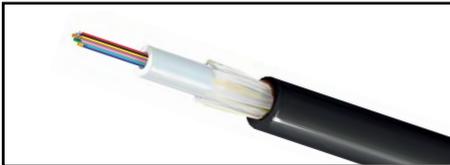
FiberExpress Central Loose Tube Cables (continued) CLT-Indoor/Outdoor Unarmored LSZH (Rodent Protection)

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GUSN									
2	GUSN102	GUSN202	GUSND02	GUSNE02	GUSNC02	GUSN802	GUSNF02	GUSNI02	GUSN702
4	GUSN104	GUSN204	GUSND04	GUSNE04	GUSNC04	GUSN804	GUSNF04	GUSNI04	GUSN704
6	GUSN106	GUSN206	GUSND06	GUSNE06	GUSNC06	GUSN806	GUSNF06	GUSNI06	GUSN706
8	GUSN108	GUSN208	GUSND08	GUSNE08	GUSNC08	GUSN808	GUSNF08	GUSNI08	GUSN708
12	GUSN112	GUSN212	GUSND12	GUSNE12	GUSNC12	GUSN812	GUSNF12	GUSNI12	GUSN712
16	GUSN116	GUSN216	GUSND16	GUSNE16	GUSNC16	GUSN816	GUSNF16	GUSNI16	GUSN716
24	GUSN124	GUSN224	GUSND24	GUSNE24	GUSNC24	GUSN824	GUSNF24	GUSNI24	GUSN724
GUSL									
2	GUSL102	GUSL202	GUSLD02	GUSLE02	GUSLC02	GUSL802	GUSLF02	GUSLI02	GUSL702
4	GUSL104	GUSL204	GUSLD04	GUSLE04	GUSLC04	GUSL804	GUSLF04	GUSLI04	GUSL704
6	GUSL106	GUSL206	GUSLD06	GUSLE06	GUSLC06	GUSL806	GUSLF06	GUSLI06	GUSL706
8	GUSL108	GUSL208	GUSLD08	GUSLE08	GUSLC08	GUSL808	GUSLF08	GUSLI08	GUSL708
12	GUSL112	GUSL212	GUSLD12	GUSLE12	GUSLC12	GUSL812	GUSLF12	GUSLI12	GUSL712
16	GUSL116	GUSL216	GUSLD16	GUSLE16	GUSLC16	GUSL816	GUSLF16	GUSLI16	GUSL716
24	GUSL124	GUSL224	GUSLD24	GUSLE24	GUSLC24	GUSL824	GUSLF24	GUSLI24	GUSL724
GURN									
2	GURN102	GURN202	GURND02	GURNE02	GURNC02	GURN802	GURNF02	GURNI02	GURN702
4	GURN104	GURN204	GURND04	GURNE04	GURNC04	GURN804	GURNF04	GURNI04	GURN704
6	GURN106	GURN206	GURND06	GURNE06	GURNC06	GURN806	GURNF06	GURNI06	GURN706
8	GURN108	GURN208	GURND08	GURNE08	GURNC08	GURN808	GURNF08	GURNI08	GURN708
12	GURN112	GURN212	GURND12	GURNE12	GURNC12	GURN812	GURNF12	GURNI12	GURN712
16	GURN116	GURN216	GURND16	GURNE16	GURNC16	GURN816	GURNF16	GURNI16	GURN716
24	GURN124	GURN224	GURND24	GURNE24	GURNC24	GURN824	GURNF24	GURNI24	GURN724
GUVN									
2	GUVN102	GUVN202	GUVND02	GUVNE02	GUVNC02	GUVN802	GUVNF02	GUVNI02	GUVN702
4	GUVN104	GUVN204	GUVND04	GUVNE04	GUVNC04	GUVN804	GUVNF04	GUVNI04	GUVN704
6	GUVN106	GUVN206	GUVND06	GUVNE06	GUVNC06	GUVN806	GUVNF06	GUVNI06	GUVN706
8	GUVN108	GUVN208	GUVND08	GUVNE08	GUVNC08	GUVN808	GUVNF08	GUVNI08	GUVN708
12	GUVN112	GUVN212	GUVND12	GUVNE12	GUVNC12	GUVN812	GUVNF12	GUVNI12	GUVN712
16	GUVN116	GUVN216	GUVND16	GUVNE16	GUVNC16	GUVN816	GUVNF16	GUVNI16	GUVN716
24	GUVN124	GUVN224	GUVND24	GUVNE24	GUVNC24	GUVN824	GUVNF24	GUVNI24	GUVN724

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FiberExpress Central Loose Tube Cables

CLT - Outdoor Unarmored PE (Rodent Protection)



GOSN,GORN,GOVN

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\text{Ø } 250 \pm 15 \mu\text{m}$) Full dielectric construction, no grounding required. Rodent protected by means of Glass Yarn Strength Elements. Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone
- For outdoor use in networks for telecom, cable TV and /or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial

Construction

Jacket Material	PE
Loose Tube	PBT
Strength Member	Waterblocking Glass Yarn
Color Code (Buffer)	Per ANSI/TIA 598-D

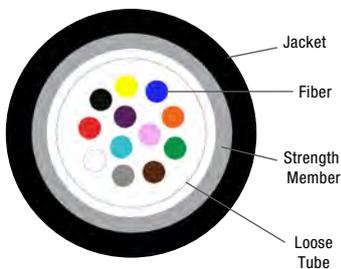
Specifications

Crush Resistance Installation (Short Term)	15 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GOSN*xx Single Subunit		2 to 24	5.8	28	1500	500
GORN*xx Single Subunit		2 to 24	7.1	44	3150	1050
GOVN*xx Single Subunit		2 to 24	7.8	52	4500	1500

Consult individual technical data sheets for exact specifications.

Legend



Compliance

Cable Standard	IEC 60794-1
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FiberExpress Central Loose Tube Cables (continued)

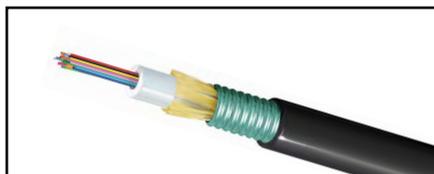
CLT - Outdoor Unarmored PE (Rodent Protection)

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GOSN									
2	GOSN102	GOSN202	GOSND02	GOSNE02	GOSNC02	GOSN802	GOSNF02	GOSNI02	GOSN702
4	GOSN104	GOSN204	GOSND04	GOSNE04	GOSNC04	GOSN804	GOSNF04	GOSNI04	GOSN704
6	GOSN106	GOSN206	GOSND06	GOSNE06	GOSNC06	GOSN806	GOSNF06	GOSNI06	GOSN706
8	GOSN108	GOSN208	GOSND08	GOSNE08	GOSNC08	GOSN808	GOSNF08	GOSNI08	GOSN708
12	GOSN112	GOSN212	GOSND12	GOSNE12	GOSNC12	GOSN812	GOSNF12	GOSNI12	GOSN712
16	GOSN116	GOSN216	GOSND16	GOSNE16	GOSNC16	GOSN816	GOSNF16	GOSNI16	GOSN716
24	GOSN124	GOSN224	GOSND24	GOSNE24	GOSNC24	GOSN824	GOSNF24	GOSNI24	GOSN724
GORN									
2	GORN102	GORN202	GORND02	GORNE02	GORNC02	GORN802	GORNFO2	GORNI02	GORN702
4	GORN104	GORN204	GORND04	GORNE04	GORNC04	GORN804	GORNFO4	GORNI04	GORN704
6	GORN106	GORN206	GORND06	GORNE06	GORNC06	GORN806	GORNFO6	GORNI06	GORN706
8	GORN108	GORN208	GORND08	GORNE08	GORNC08	GORN808	GORNFO8	GORNI08	GORN708
12	GORN112	GORN212	GORND12	GORNE12	GORNC12	GORN812	GORNFO12	GORNI12	GORN712
16	GORN116	GORN216	GORND16	GORNE16	GORNC16	GORN816	GORNFO16	GORNI16	GORN716
24	GORN124	GORN224	GORND24	GORNE24	GORNC24	GORN824	GORNFO24	GORNI24	GORN724
GOVN									
2	GOVN102	GOVN202	GOVND02	GOVNE02	GOVNC02	GOVN802	GOVNF02	GOVNI02	GOVN702
4	GOVN104	GOVN204	GOVND04	GOVNE04	GOVNC04	GOVN804	GOVNF04	GOVNI04	GOVN704
6	GOVN106	GOVN206	GOVND06	GOVNE06	GOVNC06	GOVN806	GOVNF06	GOVNI06	GOVN706
8	GOVN108	GOVN208	GOVND08	GOVNE08	GOVNC08	GOVN808	GOVNF08	GOVNI08	GOVN708
12	GOVN112	GOVN212	GOVND12	GOVNE12	GOVNC12	GOVN812	GOVNF12	GOVNI12	GOVN712
16	GOVN116	GOVN216	GOVND16	GOVNE16	GOVNC16	GOVN816	GOVNF16	GOVNI16	GOVN716
24	GOVN124	GOVN224	GOVND24	GOVNE24	GOVNC24	GOVN824	GOVNF24	GOVNI24	GOVN724

Faster.
Easier.
Better.

FiberExpress Central Loose Tube

CLT - Indoor/Outdoor CST Armored LSZH (Rodent Protection)



NYLU

Construction

Jacket Material	LSZH
Loose Tube	PBT
Strength Member	Aramid Yarn
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	10 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C

Min. Bend Radius

Installation (E6)	20 x OD
Operation (E11)	10 x OD

Impact Resistance

Pass

Solar Radiation Resistance

Pass

Compound Flow

Pass

Cycling Flexing

Pass

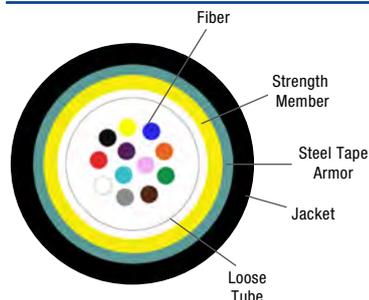
RoHS Compliant

Yes

UV Resistant

Yes

Legend



Compliance

Flame Retardant	IEC 60332-1
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Cable Standard	IEC 60794-1 TIA/EIA-455
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Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250). High mechanical and full rodent protection provided by Corrugated Steel Tape armor (CST). Halogen Free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches
- Suitable for direct burial

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
NYLUxxBA Single Subunit		2 to 12	7.3	68	1000	400
NYLUxxDA Single Subunit		14 to 24	8.6	88	1000	400

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number				
	OM1 62.5 µm	OM2 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	SM G.652.D
NYLU					
2	NYLU62BA002BKAA	NYLU50BA002BKAA	NYLU53BA002BKAA	NYLU54BA002BKAA	NYLU12BA002BKAA
4	NYLU62BA004BKAA	NYLU50BA004BKAA	NYLU53BA004BKAA	NYLU54BA004BKAA	NYLU12BA004BKAA
6	NYLU62BA006BKAA	NYLU50BA006BKAA	NYLU53BA006BKAA	NYLU54BA006BKAA	NYLU12BA006BKAA
8	NYLU62BA008BKAA	NYLU50BA008BKAA	NYLU53BA008BKAA	NYLU54BA008BKAA	NYLU12BA008BKAA
12	NYLU62BA012BKAA	NYLU50BA012BKAA	NYLU53BA012BKAA	NYLU54BA012BKAA	NYLU12BA012BKAA
16	NYLU62DA016BKAA	NYLU50DA016BKAA	NYLU53DA016BKAA	NYLU54DA016BKAA	NYLU12DA016BKAA
24	NYLU62DA024BKAA	NYLU50DA024BKAA	NYLU53DA024BKAA	NYLU54DA024BKAA	NYLU12DA024BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

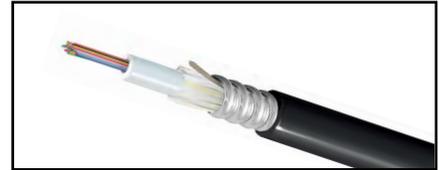
FiberExpress Central Loose Tube

CLT - Outdoor CST Armored PE (Rodent Protection)

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\varnothing 250 \pm 15 \mu\text{m}$). High mechanical and full rodent protection provided by Corrugated Steel Tape (CST) armor. Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone
- For outdoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GOCN

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GOCN*xx Single Subunit		2 to 24	9.0	81	2400	800

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D/ G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GOCN									
2	GOCN102	GOCN202	GOCND02	GOCNE02	GOCNC02	GOCN802	GOCNF02	GOCNI02	GOCN702
4	GOCN104	GOCN204	GOCND04	GOCNE04	GOCNC04	GOCN804	GOCNF04	GOCNI04	GOCN704
6	GOCN106	GOCN206	GOCND06	GOCNE06	GOCNC06	GOCN806	GOCNF06	GOCNI06	GOCN706
8	GOCN108	GOCN208	GOCND08	GOCNE08	GOCNC08	GOCN808	GOCNF08	GOCNI08	GOCN708
12	GOCN112	GOCN212	GOCND12	GOCNE12	GOCNC12	GOCN812	GOCNF12	GOCNI12	GOCN712
16	GOCN116	GOCN216	GOCND16	GOCNE16	GOCNC16	GOCN816	GOCNF16	GOCNI16	GOCN716
24	GOCN124	GOCN224	GOCND24	GOCNE24	GOCNC24	GOCN824	GOCNF24	GOCNI24	GOCN724

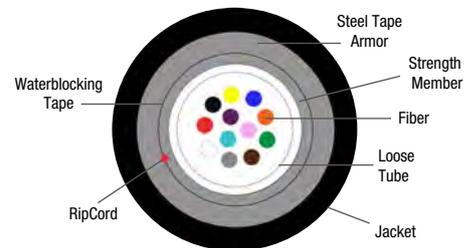
Construction

Jacket Material	PE
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Glass Yarn
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Cable Standard	IEC 60794-1
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Faster.
Easier.
Better.

FiberExpress Central Loose Tube (continued) CLT - Outdoor CST Armored PE (Rodent Protection)



NXGU, NYGU

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250). High mechanical and full rodent protection provided by Corrugated Steel Tape armor (CST). Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone
- For outdoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches

Construction

Jacket Material	PE
Loose Tube	PBT
Strength Member	Glass Yarn (NXGU) Aramid Yarn (NYGU)
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

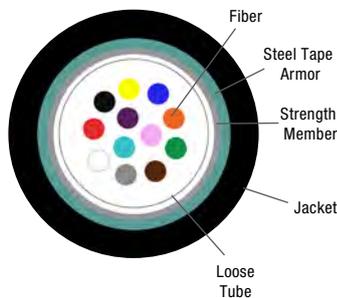
Specifications

Crush Resistance	10 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cycling Flexing	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
NXGUxxBA Single Subunit		2 to 12	8.5	76	1000	400
NYGUxxBA Single Subunit		2 to 12	7.3	54	1000	400
NXGUxxDA Single Subunit		14 to 24	9.6	94	1000	400
NYGUxxDA Single Subunit		14 to 24	8.6	70	1000	400

Consult individual technical data sheets for exact specifications.

Legend



Compliance

Cable Standard	IEC 60794-1 TIA/EIA-455
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No. of Fibers	Belden Part Number				
	OM1 62.5 µm	OM2 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	SM G.652.D
NXGU					
2	NXGU62BA002BKAA	NXGU50BA002BKAA	NXGU53BA002BKAA	NXGU54BA002BKAA	NXGU12BA002BKAA
4	NXGU62BA004BKAA	NXGU50BA004BKAA	NXGU53BA004BKAA	NXGU54BA004BKAA	NXGU12BA004BKAA
6	NXGU62BA006BKAA	NXGU50BA006BKAA	NXGU53BA006BKAA	NXGU54BA006BKAA	NXGU12BA006BKAA
8	NXGU62BA008BKAA	NXGU50BA008BKAA	NXGU53BA008BKAA	NXGU54BA008BKAA	NXGU12BA008BKAA
12	NXGU62BA012BKAA	NXGU50BA012BKAA	NXGU53BA012BKAA	NXGU54BA012BKAA	NXGU12BA012BKAA
16	NXGU62DA016BKAA	NXGU50DA016BKAA	NXGU53DA016BKAA	NXGU54DA016BKAA	NXGU12DA016BKAA
24	NXGU62DA024BKAA	NXGU50DA024BKAA	NXGU53DA024BKAA	NXGU54DA024BKAA	NXGU12DA024BKAA
NYGU					
2	NYGU62BA002BKAA	NYGU50BA002BKAA	NYGU53BA002BKAA	NYGU54BA002BKAA	NYGU12BA002BKAA
4	NYGU62BA004BKAA	NYGU50BA004BKAA	NYGU53BA004BKAA	NYGU54BA004BKAA	NYGU12BA004BKAA
6	NYGU62BA006BKAA	NYGU50BA006BKAA	NYGU53BA006BKAA	NYGU54BA006BKAA	NYGU12BA006BKAA
8	NYGU62BA008BKAA	NYGU50BA008BKAA	NYGU53BA008BKAA	NYGU54BA008BKAA	NYGU12BA008BKAA
12	NYGU62BA012BKAA	NYGU50BA012BKAA	NYGU53BA012BKAA	NYGU54BA012BKAA	NYGU12BA012BKAA
16	NYGU62DA016BKAA	NYGU50DA016BKAA	NYGU53DA016BKAA	NYGU54DA016BKAA	NYGU12DA016BKAA
24	NYGU62DA024BKAA	NYGU50DA024BKAA	NYGU53DA024BKAA	NYGU54DA024BKAA	NYGU12DA024BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

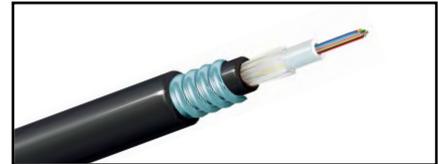
FiberExpress Central Loose Tube

CLT - Indoor/Outdoor CST Armored Double LSZH (Rodent Protection)

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\varnothing 250 \pm 15 \mu\text{m}$). High mechanical and full rodent protection provided by Corrugated Steel Tape (CST) armor. Halogen free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GUDN

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GUDN*xx Single Subunit		2 to 24	11.0	155	2400	800

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D/ G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GUDN									
2	GUDN102	GUDN202	GUDND02	GUDNE02	GUDNC02	GUDN802	GUDNF02	GUDNI02	GUDN702
4	GUDN104	GUDN204	GUDND04	GUDNE04	GUDNC04	GUDN804	GUDNF04	GUDNI04	GUDN704
6	GUDN106	GUDN206	GUDND06	GUDNE06	GUDNC06	GUDN806	GUDNF06	GUDNI06	GUDN706
8	GUDN108	GUDN208	GUDND08	GUDNE08	GUDNC08	GUDN808	GUDNF08	GUDNI08	GUDN708
12	GUDN112	GUDN212	GUDND12	GUDNE12	GUDNC12	GUDN812	GUDNF12	GUDNI12	GUDN712
16	GUDN116	GUDN216	GUDND16	GUDNE16	GUDNC16	GUDN816	GUDNF16	GUDNI16	GUDN716
24	GUDN124	GUDN224	GUDND24	GUDNE24	GUDNC24	GUDN824	GUDNF24	GUDNI24	GUDN724

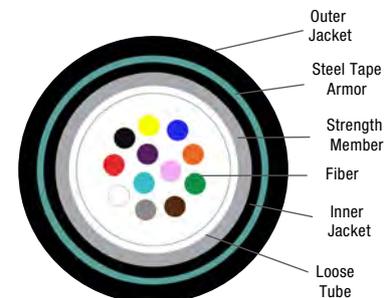
Construction

Jacket Material	LSZH
Loose Tube	PBT
Strength Member	Waterblocking Glass Yarn
Aarmor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 55°C
Operation	-30°C to 55°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

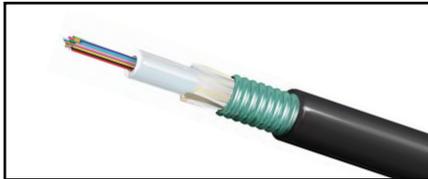
Legend



Compliance

Flame Retardant	IEC 60332-1
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Faster.
Easier.
Better.



GU CN

FiberExpress Central Loose Tube Cables

CLT – Indoor/Outdoor Fire Resistant CST Armored LSZH
(Rodent Protection)

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250 ± 15 µm). High mechanical and full rodent protection provided by Corrugated Steel Tape (CST) armor. Halogen free jacket. Length marking in meters for easy determination of the cable length. These cables offer excellent Fire resistance performance and comply to IEC 60331-25

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial

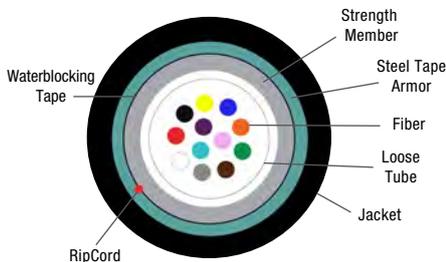
Construction

Jacket Material	LSZH
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Glass Yarn
A armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 55°C
Operation	-30°C to 55°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Circuit Integrity	IEC 60331-25 (E120)
Flame Retardant	IEC 60332-1
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GU CN*xx Single Subunit		2 to 24	9.0	104	2400	800

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number								
	OM1 62.5 µm	OM2 BI 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	OM5 BI 50 µm	ITU 9/125 G.652.D/ G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GU CN									
2	GU CN102	GU CN202	GU CND02	GU CNE02	GU CNC02	GU CN802	GU CNF02	GU CNI02	GU CN702
4	GU CN104	GU CN204	GU CND04	GU CNE04	GU CNC04	GU CN804	GU CNF04	GU CNI04	GU CN704
6	GU CN106	GU CN206	GU CND06	GU CNE06	GU CNC06	GU CN806	GU CNF06	GU CNI06	GU CN706
8	GU CN108	GU CN208	GU CND08	GU CNE08	GU CNC08	GU CN808	GU CNF08	GU CNI08	GU CN708
12	GU CN112	GU CN212	GU CND12	GU CNE12	GU CNC12	GU CN812	GU CNF12	GU CNI12	GU CN712
16	GU CN116	GU CN216	GU CND16	GU CNE16	GU CNC16	GU CN816	GU CNF16	GU CNI16	GU CN716
24	GU CN124	GU CN224	GU CND24	GU CNE24	GU CNC24	GU CN824	GU CNF24	GU CNI24	GU CN724

FiberExpress Central Loose Tube

CLT - Indoor/Outdoor SWA Armored Double LSZH (Rodent Protection)

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\varnothing 250 \pm 15 \mu\text{m}$). High mechanical and full rodent protection provided by Steel Wire Armor (SWA). Halogen free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GUWN

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GUWN*xx Single Subunit		2 to 24	10.2	154	1500	500

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D/ G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GUWN									
2	GUWN102	GUWN202	GUWND02	GUWNE02	GUWNC02	GUWN802	GUWNF02	GUWNI02	GUWN702
4	GUWN104	GUWN204	GUWND04	GUWNE04	GUWNC04	GUWN804	GUWNF04	GUWNI04	GUWN704
6	GUWN106	GUWN206	GUWND06	GUWNE06	GUWNC06	GUWN806	GUWNF06	GUWNI06	GUWN706
8	GUWN108	GUWN208	GUWND08	GUWNE08	GUWNC08	GUWN808	GUWNF08	GUWNI08	GUWN708
12	GUWN112	GUWN212	GUWND12	GUWNE12	GUWNC12	GUWN812	GUWNF12	GUWNI12	GUWN712
16	GUWN116	GUWN216	GUWND16	GUWNE16	GUWNC16	GUWN816	GUWNF16	GUWNI16	GUWN716
24	GUWN124	GUWN224	GUWND24	GUWNE24	GUWNC24	GUWN824	GUWNF24	GUWNI24	GUWN724

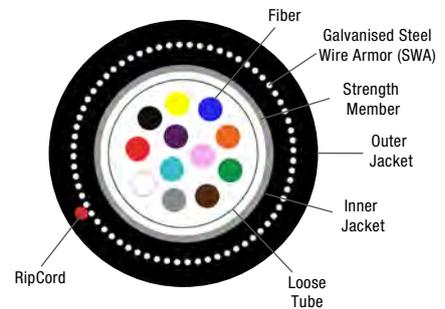
Construction

Jacket Material	LSZH
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Glass Yarn
Armor	Steel Wire
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 55°C
Operation	-30°C to 55°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



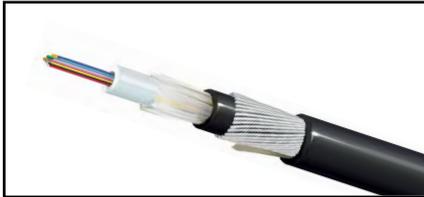
Compliance

Flame Retardant	IEC 60332-1
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Faster.
Easier.
Better.

FiberExpress Central Loose Tube

CLT - Outdoor SWA Armored Double PE (Rodent Protection)



GOWN

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\varnothing 250 \pm 15 \mu\text{m}$). High mechanical and full rodent protection provided by Steel Wire Armor (SWA) Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone, building backbone (riser) and/or horizontal cabling
- For outdoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial

Construction

Jacket Material	PE
Loose Tube	PBT
Strength Member	Waterblocking Glass Yarn
A armor	Steel Wire
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

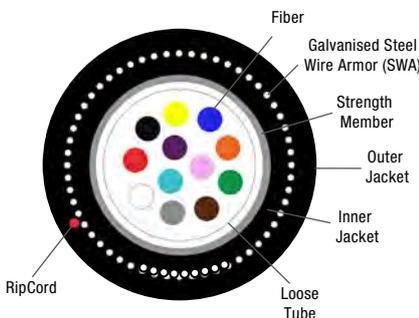
Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GOWN*xx Single Subunit		2 to 24	10.2	164	1500	500

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D/ G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GOWN									
2	GOWN102	GOWN202	GOWND02	GOWNE02	GOWNC02	GOWN802	GOWNF02	GOWNI02	GOWN702
4	GOWN104	GOWN204	GOWND04	GOWNE04	GOWNC04	GOWN804	GOWNF04	GOWNI04	GOWN704
6	GOWN106	GOWN206	GOWND06	GOWNE06	GOWNC06	GOWN806	GOWNF06	GOWNI06	GOWN706
8	GOWN108	GOWN208	GOWND08	GOWNE08	GOWNC08	GOWN808	GOWNF08	GOWNI08	GOWN708
12	GOWN112	GOWN212	GOWND12	GOWNE12	GOWNC12	GOWN812	GOWNF12	GOWNI12	GOWN712
16	GOWN116	GOWN216	GOWND16	GOWNE16	GOWNC16	GOWN816	GOWNF16	GOWNI16	GOWN716
24	GOWN124	GOWN224	GOWND24	GOWNE24	GOWNC24	GOWN824	GOWNF24	GOWNI24	GOWN724

Legend



Compliance

Cable Standard	IEC 60794-1
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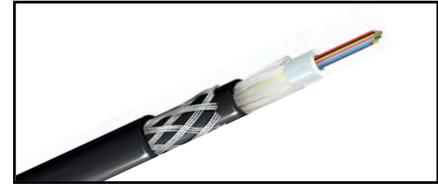
FiberExpress Central Loose Tube

CLT - Indoor/Outdoor SWB Armored Double LSZH (Rodent Protection)

Available in sizes from 2 to 24 fibers jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\varnothing 250 \pm 15 \mu\text{m}$) High mechanical and full rodent protection provided by Steel Wire Braid (SWB) armor Halogen free jacket Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GUHN

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GUHN*xx Single Subunit		2 to 24	10.0	127	1500	500

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU G.655 C & D
GUHN									
2	GUHN102	GUHN202	GUHND02	GUHNE02	GUHNC02	GUHN802	GUHNF02	GUHNI02	GUHN702
4	GUHN104	GUHN204	GUHND04	GUHNE04	GUHNC04	GUHN804	GUHNF04	GUHNI04	GUHN704
6	GUHN106	GUHN206	GUHND06	GUHNE06	GUHNC06	GUHN806	GUHNF06	GUHNI06	GUHN706
8	GUHN108	GUHN208	GUHND08	GUHNE08	GUHNC08	GUHN808	GUHNF08	GUHNI08	GUHN708
12	GUHN112	GUHN212	GUHND12	GUHNE12	GUHNC12	GUHN812	GUHNF12	GUHNI12	GUHN712
16	GUHN116	GUHN216	GUHND16	GUHNE16	GUHNC16	GUHN816	GUHNF16	GUHNI16	GUHN716
24	GUHN124	GUHN224	GUHND24	GUHNE24	GUHNC24	GUHN824	GUHNF24	GUHNI24	GUHN724

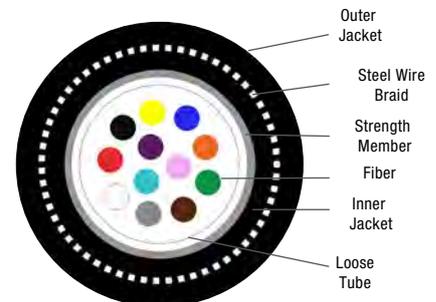
Construction

Jacket Material	LSZH
Loose Tube	PBT
Strength Member	Waterblocking Glass Yarn
Armor	Steel Wire Braid
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



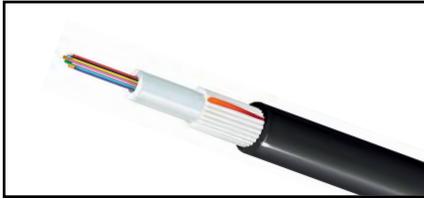
Compliance

Flame Retardant	IEC 60332-1, IEC 60332-3-25
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Faster.
Easier.
Better.

FiberExpress Central Loose Tube

CLT - Outdoor FRP Armored LSZH (Rodent Protection)



GUFN

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\text{\O} 250 \pm 15 \mu\text{m}$). High mechanical and full rodent protection provided by Fiber Reinforced Plastic (FRP) armor. These cables are all dielectric and therefore immune to lightning and electromagnetic. Halogen Free jacket Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone, building backbone (riser) and/or horizontal cabling
- For outdoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial

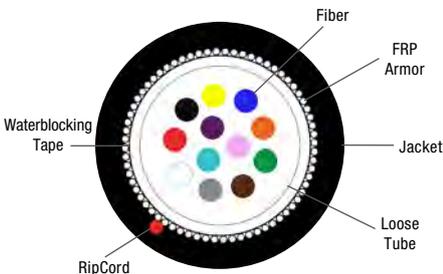
Construction

Jacket Material	LSZH
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Armor	Fiber Reinforced Plastic
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GUFN*xx Single Subunit		2 to 24	7.5	62	6000	2000

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D/ G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GUFN									
2	GUFN102	GUFN202	GUFND02	GUFNE02	GUFNC02	GUFN802	GUFNF02	GUFNI02	GUFN702
4	GUFN104	GUFN204	GUFND04	GUFNE04	GUFNC04	GUFN804	GUFNF04	GUFNI04	GUFN704
6	GUFN106	GUFN206	GUFND06	GUFNE06	GUFNC06	GUFN806	GUFNF06	GUFNI06	GUFN706
8	GUFN108	GUFN208	GUFND08	GUFNE08	GUFNC08	GUFN808	GUFNF08	GUFNI08	GUFN708
12	GUFN112	GUFN212	GUFND12	GUFNE12	GUFNC12	GUFN812	GUFNF12	GUFNI12	GUFN712
16	GUFN116	GUFN216	GUFND16	GUFNE16	GUFNC16	GUFN816	GUFNF16	GUFNI16	GUFN716
24	GUFN124	GUFN224	GUFND24	GUFNE24	GUFNC24	GUFN824	GUFNF24	GUFNI24	GUFN724

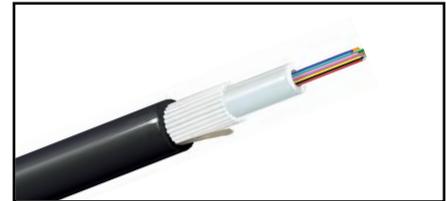
FiberExpress Central Loose Tube

CLT - Outdoor FRP Armored PE (Rodent Protection)

Available in sizes from 2 to 24 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\varnothing 250 \pm 15 \mu\text{m}$). High mechanical and full rodent protection provided by Fiber Reinforced Plastic (FRP) armor lightning Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone, building backbone (riser) and/or horizontal cabling
- For outdoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GOFN

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Tensile Strength (N)	
					Short Term	Permanent
GOFN*xx Single Subunit		2 to 24	7.5	51	6000	2000

Consult individual technical data sheets for exact specifications.

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D/ G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GOFN									
2	GOFN102	GOFN202	GOFND02	GOFNE02	GOFNC02	GOFN802	GOFNF02	GOFNI02	GOFN702
4	GOFN104	GOFN204	GOFND04	GOFNE04	GOFNC04	GOFN804	GOFNF04	GOFNI04	GOFN704
6	GOFN106	GOFN206	GOFND06	GOFNE06	GOFNC06	GOFN806	GOFNF06	GOFNI06	GOFN706
8	GOFN108	GOFN208	GOFND08	GOFNE08	GOFNC08	GOFN808	GOFNF08	GOFNI08	GOFN708
12	GOFN112	GOFN212	GOFND12	GOFNE12	GOFNC12	GOFN812	GOFNF12	GOFNI12	GOFN712
16	GOFN116	GOFN216	GOFND16	GOFNE16	GOFNC16	GOFN816	GOFNF16	GOFNI16	GOFN716
24	GOFN124	GOFN224	GOFND24	GOFNE24	GOFNC24	GOFN824	GOFNF24	GOFNI24	GOFN724

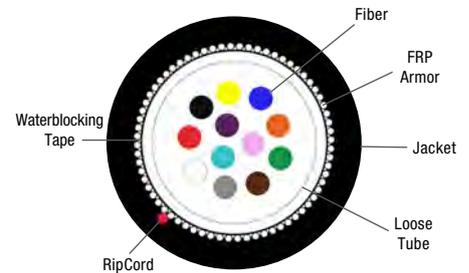
Construction

Jacket Material	PE
Loose Tube	PBT
Core Wrap	Waterblocking Tape
A armor	Fiber Reinforced Plastic
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

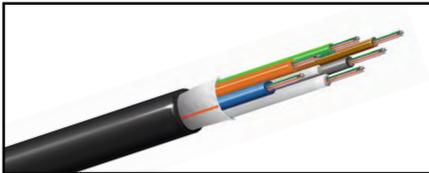
Legend



Compliance

Cable Standard	IEC 60794-1
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Faster.
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NOZU, NMZU, NKZU

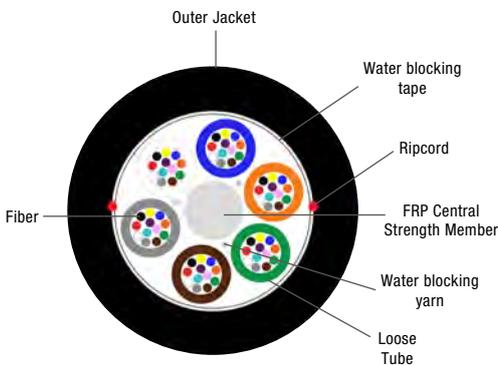
Construction

Jacket Material	LSZH
Loose Tube	PBT
Core Wrap	Water Swellable Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	10 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1 TIA/EIA-455

FiberExpress Multi Loose Tube Cables

MLT - Indoor/Outdoor Unarmored LSZH

Available in sizes from 4 to 144 fibers. Full dielectric construction, no grounding required. Halogen Free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and /or broadcast.
- Easy to install in ducts, tunnels and trenches.

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
NOZUxxMA Unitized 4 Fiber Subunits		4 to 16	10.6	116	Dry	1500	600
NKZUxxMA Unitized 6 Fiber Subunits		6 to 24	10.6	116	Dry	1500	600
NMZUxxHA Unitized 12 Fiber Subunits		48 to 72	12.0	158	Dry	1500	600
		96	13.7	203	Dry	3000	1000
		144	17.3	303	Dry	3000	1000

Consult individual technical data sheets for exact specifications.

FiberExpress Multi Loose Tube Cables (continued)

MLT - Indoor/Outdoor Unarmored LSZH

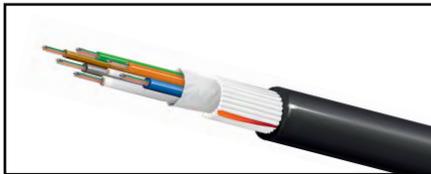
No. of Fibers	Belden Part Number				
	OM1 62.5 μm	OM2 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	SM G.652.D
Dry Core					
NOZU (Unitized 4 Subunits)					
4	NOZU62MA004BKAA	NOZU50MA004BKAA	NOZU53MA004BKAA	NOZU54MA004BKAA	NOZU12MA004BKAA
8	NOZU62MA008BKAA	NOZU50MA008BKAA	NOZU53MA008BKAA	NOZU54MA008BKAA	NOZU12MA008BKAA
12	NOZU62MA012BKAA	NOZU50MA012BKAA	NOZU53MA012BKAA	NOZU54MA012BKAA	NOZU12MA012BKAA
16	NOZU62MA016BKAA	NOZU50MA016BKAA	NOZU53MA016BKAA	NOZU54MA016BKAA	NOZU12MA016BKAA
24	NOZU62MA024BKAA	NOZU50MA024BKAA	NOZU53MA024BKAA	NOZU54MA024BKAA	NOZU12MA024BKAA
NKZU (Unitized 6 Subunits)					
6	NKZU62MA006BKAA	NKZU50MA006BKAA	NKZU53MA006BKAA	NKZU54MA006BKAA	NKZU12MA006BKAA
12	NKZU62MA012BKAA	NKZU50MA012BKAA	NKZU53MA012BKAA	NKZU54MA012BKAA	NKZU12MA012BKAA
18	NKZU62MA018BKAA	NKZU50MA018BKAA	NKZU53MA018BKAA	NKZU54MA018BKAA	NKZU12MA018BKAA
24	NKZU62MA024BKAA	NKZU50MA024BKAA	NKZU53MA024BKAA	NKZU54MA024BKAA	NKZU12MA024BKAA
NMZU (Unitized 12 Subunits)					
48	NMZU62HA004BKAA	NMZU50HA004BKAA	NMZU53HA004BKAA	NMZU54HA004BKAA	NMZU12HA004BKAA
60	NMZU62HA060BKAA	NMZU50HA060BKAA	NMZU53HA060BKAA	NMZU54HA060BKAA	NMZU12HA060BKAA
72	NMZU62HA072BKAA	NMZU50HA072BKAA	NMZU53HA072BKAA	NMZU54HA072BKAA	NMZU12HA072BKAA
96	NMZU62HA096BKAA	NMZU50HA096BKAA	NMZU53HA096BKAA	NMZU54HA096BKAA	NMZU12HA096BKAA
144	NMZU62HA144BKAA	NMZU50HA144BKAA	NMZU53HA144BKAA	NMZU54HA144BKAA	NMZU12HA144BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

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FiberExpress Multi Loose Tube Cables

MLT - Indoor/Outdoor Unarmored LSZH (Rodent Protection)



GCRH, GCRI, GCRJ

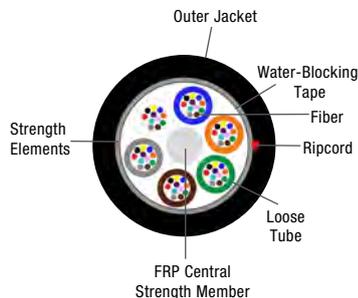
Construction

Jacket Material	PE
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Glass Yarn
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	15 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	15 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1, IEC 60332-3-24
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Available in sizes from 6 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250 ± 15 µm). Full dielectric construction, no grounding Installation-friendly thanks to the cable core which is kept free of grease (dry interstices). Rodent protected by means of Glass Yarn Strength Elements Halogen Free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
GCRH*xx Unitized 6-Fiber Subunits		6	11	131	Dry	6000	2000
GCRH*xx Unitized 12-Fiber Subunits		12 to 72	11	131	Dry	6000	2000
GCRI*xx Unitized 12-Fiber Subunits		84 to 96	12.9	163	Dry	6000	2000
GCRJ*xx Unitized 12-Fiber Subunits		108 to 144	15.6	234	Dry	6000	2000

Consult individual technical data sheets for exact specifications.

No. of Fibers	Dry Core								
	OM1 62.5 µm	OM2 BI 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	OM5 BI 50 µm	ITU 9/125 G.652.D/ G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
GCRH (Unitized 6-Fiber Subunits)									
6	GCRH106	GCRH206	GCRHD06	GCRHE06	GCRHC06	GCRH806	GCRHF06	GCRHI06	GCRH706
GCRH (Unitized 12-Fiber Subunits)									
12	GCRH112	GCRH212	GCRHD12	GCRHE12	GCRHC12	GCRH812	GCRHF12	GCRHI12	GCRH712
24	GCRH124	GCRH224	GCRHD24	GCRHE24	GCRHC24	GCRH824	GCRHF24	GCRHI24	GCRH724
36	GCRH136	GCRH236	GCRHD36	GCRHE36	GCRHC36	GCRH836	GCRHF36	GCRHI36	GCRH736
48	GCRH148	GCRH248	GCRHD48	GCRHE48	GCRHC48	GCRH848	GCRHF48	GCRHI48	GCRH748
60	GCRH160	GCRH260	GCRHD60	GCRHE60	GCRHC60	GCRH860	GCRHF60	GCRHI60	GCRH760
72	GCRH172	GCRH272	GCRHD72	GCRHE72	GCRHC72	GCRH872	GCRHF72	GCRHI72	GCRH772
GCRJ/GCRJ (Unitized 12-Fiber Subunits)									
96	GCRJ196	GCRJ296	GCRJD96	GCRJE96	GCRJC96	GCRJ896	GCRJF96	GCRJI96	GCRJ796
144	GCRJ144	GCRJ244	GCRJD44	GCRJE44	GCRJC44	GCRJ844	GCRJF44	GCRJI44	GCRJ744

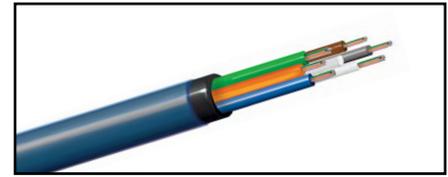
FiberExpress Multi Loose Tube Cables

MLT - Indoor/ Outdoor Unarmored PE/ Nylon (Termite Protection)

Available in sizes from 4 to 144 fibers. Full dielectric construction, no grounding required. Polyethylene/ Nylon jacket. Length marking in meters for easy determination of the cable length. Nylon layer provides termite protection.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone.
- For outdoor and indoor use in networks for telecom, cable TV and/ or broadcast.
- Easy to install in ducts, tunnels and trenches



NODU, NKDU, NMDU

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
NODUxxMA Unitized 4 Fiber Subunits		4 to 16	11.6	122	Filled	1000	400
NKDUxxMA Unitized 6 Fiber Subunits		6 to 36	11.6	122	Filled	1000	400
NMDUxxHA Unitized 12 Fiber Subunits		48 to 72	13.0	150	Filled	1500	600
		96	14.9	198	Filled	3000	1000
		144	18.3	292	Filled	3000	1000

Consult individual technical data sheets for exact specifications.

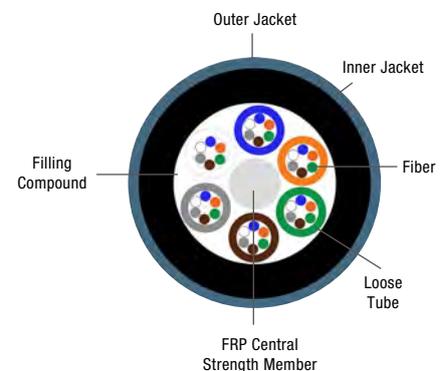
Construction

Jacket Material	PE/ Nylon
Loose Tube	PBT
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	10 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass

Legend



Compliance

Cable Standard	IEC 60794-1 TIA/EIA-455
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Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Indoor/ Outdoor Unarmored PE/ Nylon (Termite Protection)

No. of Fibers	Belden Part Number				
	OM1 62.5 μ m	OM2 50 μ m	OM3 BI 50 μ m	OM4 BI 50 μ m	SM G.652.D
Gel - Filled Core					
NODU (Unitized 4 Subunits)					
4	NODU62MA004BEAA	NODU50MA004BEAA	NODU53MA004BEAA	NODU54MA004BEAA	NODU12MA004BEAA
8	NODU62MA008BEAA	NODU50MA008BEAA	NODU53MA008BEAA	NODU54MA008BEAA	NODU12MA008BEAA
16	NODU62MA016BEAA	NODU50MA016BEAA	NODU53MA016BEAA	NODU54MA016BEAA	NODU12MA016BEAA
Gel - Filled Core					
NKDU (Unitized 6 Subunits)					
6	NKDU62MA006BEAA	NKDU50MA006BEAA	NKDU53MA006BEAA	NKDU54MA006BEAA	NKDU12MA006BEAA
12	NKDU62MA012BEAA	NKDU50MA012BEAA	NKDU53MA012BEAA	NKDU54MA012BEAA	NKDU12MA012BEAA
24	NKDU62MA024BEAA	NKDU50MA024BEAA	NKDU53MA024BEAA	NKDU54MA024BEAA	NKDU12MA024BEAA
36	NKDU62MA036BEAA	NKDU50MA036BEAA	NKDU53MA036BEAA	NKDU54MA036BEAA	NKDU12MA036BEAA
Gel - Filled Core					
NMDU (Unitized 12 Subunits)					
48	NMDU62HA048BEAA	NMDU50HA048BEAA	NMDU53HA048BEAA	NMDU54HA048BEAA	NMDU12HA048BEAA
60	NMDU62HA060BEAA	NMDU50HA060BEAA	NMDU53HA060BEAA	NMDU54HA060BEAA	NMDU12HA060BEAA
72	NMDU62HA072BEAA	NMDU50HA072BEAA	NMDU53HA072BEAA	NMDU54HA072BEAA	NMDU12HA072BEAA
96	NMDU62HA096BEAA	NMDU50HA096BEAA	NMDU53HA096BEAA	NMDU54HA096BEAA	NMDU12HA096BEAA
144	NMDU62HA144BEAA	NMDU50HA144BEAA	NMDU53HA144BEAA	NMDU54HA144BEAA	NMDU12HA144BEAA

*Bend Insensitive OM2 Fiber options are also available upon request

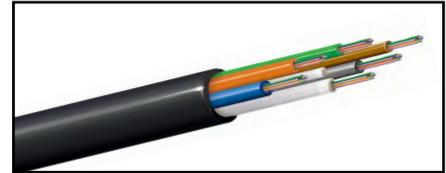
FiberExpress Multi Loose Tube Cables

MLT - Outdoor Unarmored PE

Available in sizes from 4 to 144 fibers. Full dielectric construction, no grounding required. Polyethylene Jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone
- Easy to install in ducts, tunnels and trenches by pulling wire



NOCU, NKCU, NMCU

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
NOCUxxMA Unitized 4 Fiber Subunits		4 to 16	10.6	88	Filled	2000	600
NKCUxxMA Unitized 6 Fiber Subunits		6 to 36	10.6	88	Filled	2000	600
NMCUxxHA Unitized 12 Fiber Subunits		48 to 72	12.0	112	Filled	2000	600
		96	13.9	154	Filled	3000	1000
		144	17.3	240	Filled	3000	1000

Consult individual technical data sheets for exact specifications.

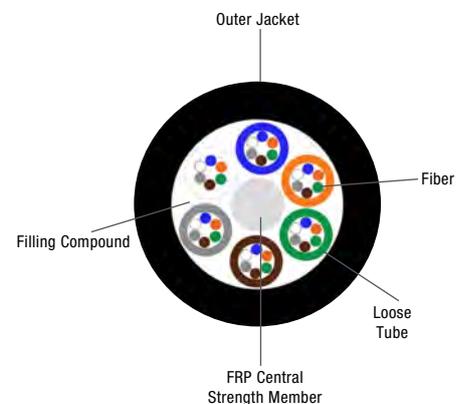
Construction

Jacket Material	PE
Loose Tube	PBT
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	10 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass

Legend



Compliance

Cable Standard	IEC 60794-1 TIA/EIA-455
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Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)

MLT - Outdoor Unarmored PE

No. of Fibers	Belden Part Number				
	OM1 62.5 µm	OM2 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	SM G.652.D
Gel - Filled Core					
NOCU (Unitized 4 Subunits)					
4	NOCU62MA004BKAA	NOCU50MA004BKAA	NOCU53MA004BKAA	NOCU54MA004BKAA	NOCU12MA004BKAA
8	NOCU62MA008BKAA	NOCU50MA008BKAA	NOCU53MA008BKAA	NOCU54MA008BKAA	NOCU12MA008BKAA
16	NOCU62MA016BKAA	NOCU50MA016BKAA	NOCU53MA016BKAA	NOCU54MA016BKAA	NOCU12MA016BKAA
Gel - Filled Core					
NKCU (Unitized 6 Subunits)					
6	NKCU62MA006BKAA	NKCU50MA006BKAA	NKCU53MA006BKAA	NKCU54MA006BKAA	NKCU12MA006BKAA
12	NKCU62MA012BKAA	NKCU50MA012BKAA	NKCU53MA012BKAA	NKCU54MA012BKAA	NKCU12MA012BKAA
24	NKCU62MA024BKAA	NKCU50MA024BKAA	NKCU53MA024BKAA	NKCU54MA024BKAA	NKCU12MA024BKAA
36	NKCU62MA036BKAA	NKCU50MA036BKAA	NKCU53MA036BKAA	NKCU54MA036BKAA	NKCU12MA036BKAA
Gel - Filled Core					
NMCU (Unitized 12 Subunits)					
48	NMCU62HA048BKAA	NMCU50HA048BKAA	NMCU53HA048BKAA	NMCU54HA048BKAA	NMCU12HA048BKAA
60	NMCU62HA060BKAA	NMCU50HA060BKAA	NMCU53HA060BKAA	NMCU54HA060BKAA	NMCU12HA060BKAA
72	NMCU62HA072BKAA	NMCU50HA072BKAA	NMCU53HA072BKAA	NMCU54HA072BKAA	NMCU12HA072BKAA
96	NMCU62HA096BKAA	NMCU50HA096BKAA	NMCU53HA096BKAA	NMCU54HA096BKAA	NMCU12HA096BKAA
144	NMCU62HA144BKAA	NMCU50HA144BKAA	NMCU53HA144BKAA	NMCU54HA144BKAA	NMCU12HA144BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

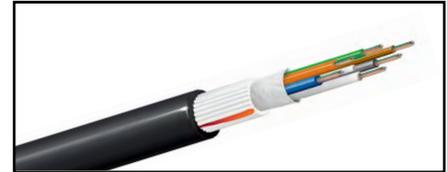
FiberExpress Multi Loose Tube Cables

MLT - Outdoor Unarmored PE (Rodent Protection)

Available in sizes from 6 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\text{Ø } 250 \pm 15 \mu\text{m}$). Full dielectric construction, no grounding required. Installation-friendly thanks to the cable core which is kept free of grease (dry interstices) for GBR types. High mechanical and full rodent protection provided by means of Glass Yarn Strength Elements. Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone
- For outdoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GBRH, GBRI, GBRJ

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
GBRH*xx Unitized 6-Fiber Subunits		6	11	102	Dry	6000	2000
GBRH*xx Unitized 12-Fiber Subunits		12 to 72	11	102	Dry	6000	2000
GBRI*xx Unitized 12-Fiber Subunits		84 to 96	12.9	132	Dry	6000	2000
GBRJ*xx Unitized 12-Fiber Subunits		108 to 144	15.6	187	Dry	6000	2000

Consult individual technical data sheets for exact specifications.

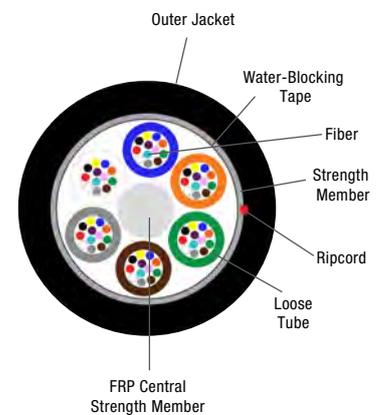
Construction

Jacket Material	PE
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Glass Yarn
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	15 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	15 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Cable Standard	IEC 60794-1
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Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor Unarmored PE (Rodent Protection)

No. of Fibers	Belden Part Number								
	OM1 62.5 μm	OM2 BI 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	OM5 BI 50 μm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
Dry Core									
GBRH (Unitized 6-Fiber Subunits)									
6	GBRH106	GBRH206	GBRHD06	GBRHE06	GBRHC06	GBRH806	GBRHF06	GBRHI06	GBRH706
Dry Core									
GBRH (Unitized 12-Fiber Subunits)									
12	GBRH112	GBRH212	GBRHD12	GBRHE12	GBRHC12	GBRH812	GBRHF12	GBRHI12	GBRH712
24	GBRH124	GBRH224	GBRHD24	GBRHE24	GBRHC24	GBRH824	GBRHF24	GBRHI24	GBRH724
36	GBRH136	GBRH236	GBRHD36	GBRHE36	GBRHC36	GBRH836	GBRHF36	GBRHI36	GBRH736
48	GBRH148	GBRH248	GBRHD48	GBRHE48	GBRHC48	GBRH848	GBRHF48	GBRHI48	GBRH748
60	GBRH160	GBRH260	GBRHD60	GBRHE60	GBRHC60	GBRH860	GBRHF60	GBRHI60	GBRH760
72	GBRH172	GBRH272	GBRHD72	GBRHE72	GBRHC72	GBRH872	GBRHF72	GBRHI72	GBRH772
Dry Core									
GBRI/GBRJ (Unitized 12-Fiber Subunits)									
96	GBRI196	GBRI296	GBRID96	GBRIE96	GBRIC96	GBRI896	GBRIF96	GBRII96	GBRI796
144	GBRJ144	GBRJ244	GBRJD44	GBRJE44	GBRJC44	GBRJ844	GBRJF44	GBRJI44	GBRJ744

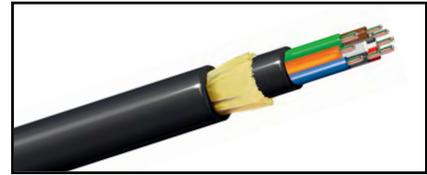
FiberExpress Multi Loose Tube Cables

MLT - Outdoor Unarmored Double PE (ADSS)

Available in sizes from 4 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250) Full dielectric construction, no grounding required. Aramid yarns for tensile strength. Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- All Dielectric Self Supporting cable (ADSS) for Outdoor use.
- Suitable for installation between poles with a maximum span of 420 meters.
- Wind Speed : Maximum 25m per second.



NOJUxxS4, NKJUxxS4, NPJUxxS4, NMJUxxS4

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Max Allowable Work Tension (N)
NOJUxxMAxxxxxS4 Unitized 4 Subunits		4 to 24	12.2	124	Filled	7000
NKJUxxMAxxxxxS4 Unitized 6 Subunits		6 to 36	13.0	142	Filled	7500
NPJUxxHAxxxxxS4 Unitized 8 Subunits		48	13.0	142	Filled	8000
NMJUxxHAxxxxxS4 Unitized 12 Subunits		60 to 72	13.2	150	Filled	9000
		96	15.4	202	Filled	11000
		144	19.0	300	Filled	14000

Consult individual technical data sheets for exact specifications.

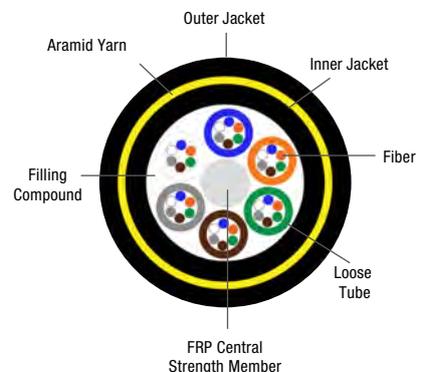
Construction

Jacket Material	PE
Loose Tube	PBT
Strength Member	Aramid Yarn
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	22 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass

Legend



Compliance

Cable Standard	IEC 60794-1 TIA/EIA-455
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Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor Unarmored Double PE (ADSS)

No. of Fibers	Belden Part Number				
	OM1 62.5 μ m	OM2 50 μ m	OM3 BI 50 μ m	OM4 BI 50 μ m	SM G.652.D
Gel- Filled Core					
NOJU (Unitized 4 Subunits)					
4	NOJU62MA004BKS4	NOJU50MA004BKS4	NOJU53MA004BKS4	NOJU54MA004BKS4	NOJU12MA004BKS4
6	NOJU62MA006BKS4	NOJU50MA006BKS4	NOJU53MA006BKS4	NOJU54MA006BKS4	NOJU12MA006BKS4
8	NOJU62MA008BKS4	NOJU50MA008BKS4	NOJU53MA008BKS4	NOJU54MA008BKS4	NOJU12MA008BKS4
12	NOJU62MA012BKS4	NOJU50MA012BKS4	NOJU53MA012BKS4	NOJU54MA012BKS4	NOJU12MA012BKS4
24	NOJU62MA024BKS4	NOJU50MA024BKS4	NOJU53MA024BKS4	NOJU54MA024BKS4	NOJU12MA024BKS4
NKJU (Unitized 6 Subunits)					
36	NKJU62MA036BKS4	NKJU50MA036BKS4	NKJU53MA036BKS4	NKJU54MA036BKS4	NKJU12MA036BKS4
NPJU (Unitized 8 Subunits)					
48	NPJU62HA048BKS4	NPJU50HA048BKS4	NPJU53HA048BKS4	NPJU54HA048BKS4	NPJU12HA048BKS4
NMJU (Unitized 12 Subunits)					
60	NMJU62HA060BKS4	NMJU50HA060BKS4	NMJU53HA060BKS4	NMJU54HA060BKS4	NMJU12HA060BKS4
72	NMJU62HA072BKS4	NMJU50HA072BKS4	NMJU53HA072BKS4	NMJU54HA072BKS4	NMJU12HA072BKS4
96	NMJU62HA096BKS4	NMJU50HA096BKS4	NMJU53HA096BKS4	NMJU54HA096BKS4	NMJU12HA096BKS4
108	NMJU62HA108BKS4	NMJU50HA108BKS4	NMJU53HA108BKS4	NMJU54HA108BKS4	NMJU12HA108BKS4
144	NMJU62HA144BKS4	NMJU50HA144BKS4	NMJU53HA144BKS4	NMJU54HA144BKS4	NMJU12HA144BKS4

*Bend Insensitive OM2 Fiber options are also available upon request

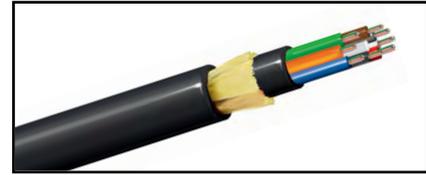
FiberExpress Multi Loose Tube Cables

MLT - Outdoor Unarmored Double PE (ADSS)

Available in sizes from 4 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tubes with primary coated optical fibers (Ø 250). Full dielectric construction, no grounding required. Aramid yarns for tensile strength. Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- All Dielectric Self Supporting cable (ADSS) for Outdoor use.
- Suitable for installation between poles with a maximum span of 250 meters.
- Wind Speed: Maximum 25m per second.



NOJUxxP2, NKJUxxP2, NPJUxxP2, NMJUxxP2

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Max Allowable Work Tension (N)
NOJUxxMAxxxxP2 Unitized 4 Subunits		4 to 24	11.8	117	Filled	4000
NKJUxxMAxxxxP2 Unitized 6 Subunits		6 to 36	12.7	137	Filled	5000
NPJUxxHAxxxxP2 Unitized 8 Subunits		48	12.7	137	Filled	5000
NMJUxxHAxxxxP2 Unitized 12 Subunits		60 to 72	12.7	136	Filled	5500
		96	15.0	191	Filled	6500
		144	18.7	290	Filled	10500

Consult individual technical data sheets for exact specifications.

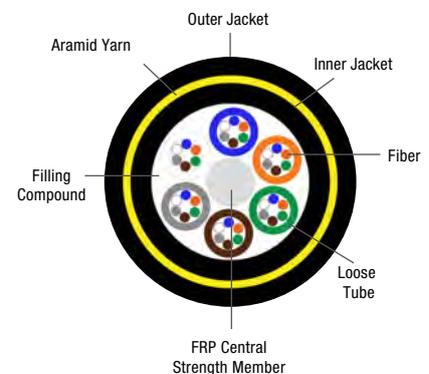
Construction

Jacket Material	PE
Loose Tube	PBT
Strength Member	Aramid Yarn
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	22 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass

Legend



Compliance

Cable Standard	IEC 60794-1 TIA/EIA-455
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Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor Unarmored Double PE (ADSS)

No. of Fibers	Belden Part Number				
	OM1 62.5 µm	OM2 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	SM G.652.D
Gel- Filled Core					
NOJU (Unitized 4 Subunits)					
4	NOJU62MA004BKP2	NOJU50MA004BKP2	NOJU53MA004BKP2	NOJU54MA004BKP2	NOJU12MA004BKP2
6	NOJU62MA006BKP2	NOJU50MA006BKP2	NOJU53MA006BKP2	NOJU54MA006BKP2	NOJU12MA006BKP2
8	NOJU62MA008BKP2	NOJU50MA008BKP2	NOJU53MA008BKP2	NOJU54MA008BKP2	NOJU12MA008BKP2
12	NOJU62MA012BKP2	NOJU50MA012BKP2	NOJU53MA012BKP2	NOJU54MA012BKP2	NOJU12MA012BKP2
24	NOJU62MA024BKP2	NOJU50MA024BKP2	NOJU53MA024BKP2	NOJU54MA024BKP2	NOJU12MA024BKP2
NKJU (Unitized 6 Subunits)					
36	NKJU62MA036BKP2	NKJU50MA036BKP2	NKJU53MA036BKP2	NKJU54MA036BKP2	NKJU12MA036BKP2
NPJU (Unitized 8 Subunits)					
48	NPJU62HA048BKP2	NPJU50HA048BKP2	NPJU53HA048BKP2	NPJU54HA048BKP2	NPJU12HA048BKP2
NMJU (Unitized 12 Subunits)					
60	NMJU62HA060BKP2	NMJU50HA060BKP2	NMJU53HA060BKP2	NMJU54HA060BKP2	NMJU12HA060BKP2
72	NMJU62HA072BKP2	NMJU50HA072BKP2	NMJU53HA072BKP2	NMJU54HA072BKP2	NMJU12HA072BKP2
96	NMJU62HA096BKP2	NMJU50HA096BKP2	NMJU53HA096BKP2	NMJU54HA096BKP2	NMJU12HA096BKP2
108	NMJU62HA108BKP2	NMJU50HA108BKP2	NMJU53HA108BKP2	NMJU54HA108BKP2	NMJU12HA108BKP2
144	NMJU62HA144BKP2	NMJU50HA144BKP2	NMJU53HA144BKP2	NMJU54HA144BKP2	NMJU12HA144BKP2

*Bend Insensitive OM2 Fiber options are also available upon request

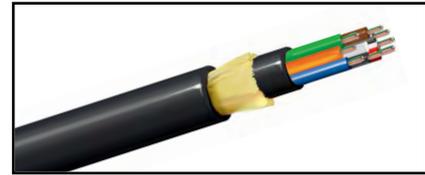
FiberExpress Multi Loose Tube Cables

MLT - Outdoor Unarmored Double PE (ADSS)

Available in sizes from 4 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tubes with primary coated optical fibers (Ø 250). Full dielectric construction, no grounding required. Aramid yarns for tensile strength. Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- All Dielectric Self Supporting cable (ADSS) for Outdoor use.
- Suitable for installation between poles with a maximum span of 100 meters.
- Wind Speed: Maximum 25m per second.



NOJUxxL1, NKJUxxL1, NPJUxxL1, NMJUxxL1

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Max Allowable Work Tension (N)
NOJUxxMAxxxxL1 Unitized 4 Subunits		4 to 24	11.6	112	Filled	2000
NKJUxxMAxxxxL1 Unitized 6 Subunits		6 to 36	12.4	130	Filled	2500
NPJUxxHAxxxxL1 Unitized 8 Subunits		48	12.4	270	Filled	2500
NMJUxxHAxxxxL1 Unitized 12 Subunits		60 to 72	12.4	132	Filled	2600
		96	14.8	184	Filled	3000
		144	16.4	270	Filled	6500

Consult individual technical data sheets for exact specifications.

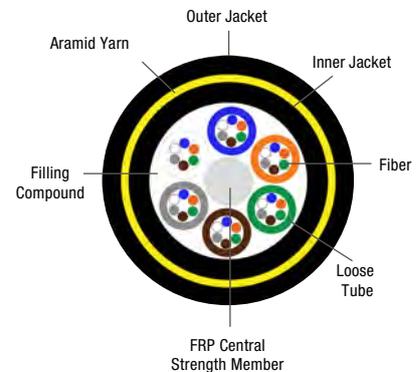
Construction

Jacket Material	PE
Loose Tube	PBT
Strength Member	Aramid Yarn
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	22 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass

Legend



Compliance

Cable Standard	IEC 60794-1 TIA/EIA-455
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Faster.
Easier.
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FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor Unarmored Double PE (ADSS)

No. of Fibers	Belden Part Number				
	OM1 62.5 µm	OM2 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	SM G.652.D
Gel- Filled Core					
NOJU (Unitized 4 Subunits)					
4	NOJU62MA004BKL1	NOJU50MA004BKL1	NOJU53MA004BKL1	NOJU54MA004BKL1	NOJU12MA004BKL1
6	NOJU62MA006BKL1	NOJU50MA006BKL1	NOJU53MA006BKL1	NOJU54MA006BKL1	NOJU12MA006BKL1
8	NOJU62MA008BKL1	NOJU50MA008BKL1	NOJU53MA008BKL1	NOJU54MA008BKL1	NOJU12MA008BKL1
12	NOJU62MA012BKL1	NOJU50MA012BKL1	NOJU53MA012BKL1	NOJU54MA012BKL1	NOJU12MA012BKL1
24	NOJU62MA024BKL1	NOJU50MA024BKL1	NOJU53MA024BKL1	NOJU54MA024BKL1	NOJU12MA024BKL1
NKJU (Unitized 6 Subunits)					
36	NKJU62MA036BKL1	NKJU50MA036BKL1	NKJU53MA036BKL1	NKJU54MA036BKL1	NKJU12MA036BKL1
NPJU (Unitized 8 Subunits)					
48	NPJU62HA048BKL1	NPJU50HA048BKL1	NPJU53HA048BKL1	NPJU54HA048BKL1	NPJU12HA048BKL1
NMJU (Unitized 12 Subunits)					
60	NMJU62HA060BKL1	NMJU50HA060BKL1	NMJU53HA060BKL1	NMJU54HA060BKL1	NMJU12HA060BKL1
72	NMJU62HA072BKL1	NMJU50HA072BKL1	NMJU53HA072BKL1	NMJU54HA072BKL1	NMJU12HA072BKL1
96	NMJU62HA096BKL1	NMJU50HA096BKL1	NMJU53HA096BKL1	NMJU54HA096BKL1	NMJU12HA096BKL1
108	NMJU62HA108BKL1	NMJU50HA108BKL1	NMJU53HA108BKL1	NMJU54HA108BKL1	NMJU12HA108BKL1
144	NMJU62HA144BKL1	NMJU50HA144BKL1	NMJU53HA144BKL1	NMJU54HA144BKL1	NMJU12HA144BKL1

*Bend Insensitive OM2 Fiber options are also available upon request

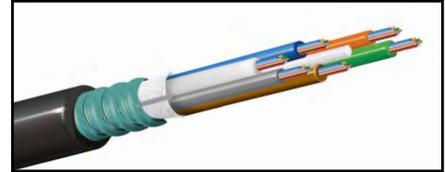
FiberExpress Multi Loose Tube Cables

MLT – Indoor/Outdoor CST Armored LSZH (Rodent Protection)

Available in sizes from 4 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250). High mechanical and full rodent protection provided by Corrugated Steel Tape armor (CST). Halogen Free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches
- Suitable for direct burial



DOLxxxMA, DKLxxxMA, DMxxxxHA, DMLxxHA

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
DOLxxxMA Unitized 4 Fiber Subunits		4 to 24	12.4	180	Dry	2000	600
DKLxxxMA Unitized 6 Fiber Subunits		6 to 36	12.4	180	Dry	2000	600
DMxxxxHA Unitized 12 Fiber Subunits		48 to 72	12.8	190	Dry	2000	600
		96	14.8	245	Dry	2000	600
		144	17.3	335	Dry	2000	600

Consult individual technical data sheets for exact specifications.

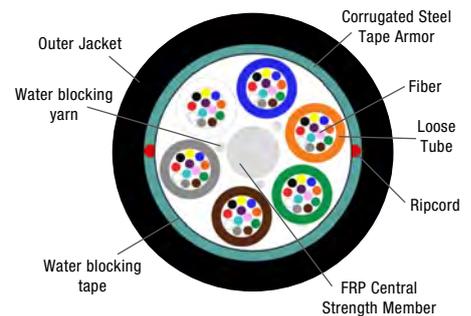
Construction

Jacket Material	LSZH
Loose Tube	PBT
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	10 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Yes
Solar Radiation Resistance	Yes
Compound Flow	Yes
Cyclic Flexing	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
	(only valid for DOLxx, DKLxx, DMLxx (48-72f))

Cable Standard	IEC 60793
	IEC 60794-1
	TIA/EIA-455

Faster.
Easier.
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FiberExpress Multi Loose Tube Cables (continued)
MLT – Indoor/Outdoor CST Armored LSZH (Rodent Protection)

No. of Fibers	Belden Part Number				
	OM1 62.5 μm	OM2 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	SM G.652.D
Dry Core					
DOLU (Unitized 4 Fiber Subunits)					
4	DOLU62MA004BKAA	DOLU50MA004BKAA	DOLU53MA004BKAA	DOLU54MA004BKAA	DOLU12MA004BKAA
6	DOLU62MA006BKAA	DOLU50MA006BKAA	DOLU53MA006BKAA	DOLU54MA006BKAA	DOLU12MA006BKAA
8	DOLU62MA008BKAA	DOLU50MA008BKAA	DOLU53MA008BKAA	DOLU54MA008BKAA	DOLU12MA008BKAA
12	DOLU62MA012BKAA	DOLU50MA012BKAA	DOLU53MA012BKAA	DOLU54MA012BKAA	DOLU12MA012BKAA
24	DOLU62MA024BKAA	DOLU50MA024BKAA	DOLU53MA024BKAA	DOLU54MA024BKAA	DOLU12MA024BKAA
DKLU (Unitized 6 Fiber Subunits)					
6	DKLU62MA006BKAA	DKLU50MA006BKAA	DKLU53MA006BKAA	DKLU54MA006BKAA	DKLU12MA006BKAA
DMLU (Unitized 12 Fiber Subunits)					
48	DMLU62HA048BKAA	DMLU50HA048BKAA	DMLU53HA048BKAA	DMLU54HA048BKAA	DMLU12HA048BKAA
60	DMLU62HA060BKAA	DMLU50HA060BKAA	DMLU53HA060BKAA	DMLU54HA060BKAA	DMLU12HA060BKAA
72	DMLU62HA072BKAA	DMLU50HA072BKAA	DMLU53HA072BKAA	DMLU54HA072BKAA	DMLU12HA072BKAA
96	DMLU62HA096BKAA	DMLU50HA096BKAA	DMLU53HA096BKAA	DMLU54HA096BKAA	DMLU12HA096BKAA
108	DMLU62HA108BKAA	DMLU50HA108BKAA	DMLU53HA108BKAA	DMLU54HA108BKAA	DMLU12HA108BKAA
144	DMLU62HA144BKAA	DMLU50HA144BKAA	DMLU53HA144BKAA	DMLU54HA144BKAA	DMLU12HA144BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

FiberExpress Multi Loose Tube Cables

MLT – Indoor/Outdoor CST Armored PE/LSZH (Rodent Protection)

Available in sizes from 4 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250). High mechanical and full rodent protection provided by Corrugated Steel Tape armor (CST). Polyethylene Inner jacket and Halogen Free Outer jacket. Length marking in meters for easy of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches
- Suitable for direct burial



NOXxxxMA, NKXxxxMA, NMXxxxHA

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
NOXxxxMA Unitized 4 Fiber Subunits		4 to 24	15.8	330	Filled	3000	1000
NKXxxxMA Unitized 6 Fiber Subunits		6 to 48	15.8	330	Filled	3000	1000
NMXxxxHA Unitized 12 Fiber Subunits		60 to 96	15.8	330	Filled	3000	1000
		144	19	456	Filled	3000	1000

Consult individual technical data sheets for exact specifications.

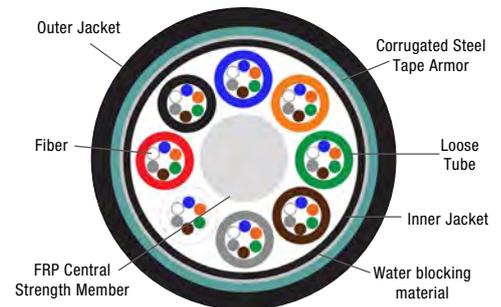
Construction

Jacket Material	LSZH
Loose Tube	PBT
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	30 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	25 x OD
Operation (E11)	12.5 x OD
Watertightness (F5)	Pass
Impact Resistance	Yes
Solar Radiation Resistance	Yes
Compound Flow	Yes
Cyclic Flexing	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1
Cable Standard	IEC 60793 IEC 60794-1 TIA/EIA-455

Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT – Indoor/Outdoor CST Armored PE/LSZH (Rodent Protection)

No. of Fibers	Belden Part Number				
	OM1 62.5 µm	OM2 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	SM G.652.D
Gel Filled Core					
NOXU (Unitized 4 Fiber Subunits)					
4	NOXU62MA004BKAA	NOXU50MA004BKAA	NOXU53MA004BKAA	NOXU54MA004BKAA	NOXU12MA004BKAA
6	NOXU62MA006BKAA	NOXU50MA006BKAA	NOXU53MA006BKAA	NOXU54MA006BKAA	NOXU12MA006BKAA
8	NOXU62MA008BKAA	NOXU50MA008BKAA	NOXU53MA008BKAA	NOXU54MA008BKAA	NOXU12MA008BKAA
12	NOXU62MA012BKAA	NOXU50MA012BKAA	NOXU53MA012BKAA	NOXU54MA012BKAA	NOXU12MA012BKAA
24	NOXU62MA024BKAA	NOXU50MA024BKAA	NOXU53MA024BKAA	NOXU54MA024BKAA	NOXU12MA024BKAA
NKXU (Unitized 6 Fiber Subunits)					
36	NKXU62MA036BKAA	NKXU50MA036BKAA	NKXU53MA036BKAA	NKXU54MA036BKAA	NKXU12MA036BKAA
48	NKXU62HA048BKAA	NKXU50HA048BKAA	NKXU53HA048BKAA	NKXU54HA048BKAA	NKXU12HA048BKAA
NMXU (Unitized 12 Fiber Subunits)					
60	NMXU62HA060BKAA	NMXU50HA060BKAA	NMXU53HA060BKAA	NMXU54HA060BKAA	NMXU12HA060BKAA
72	NMXU62HA072BKAA	NMXU50HA072BKAA	NMXU53HA072BKAA	NMXU54HA072BKAA	NMXU12HA072BKAA
96	NMXU62HA096BKAA	NMXU50HA096BKAA	NMXU53HA096BKAA	NMXU54HA096BKAA	NMXU12HA096BKAA
108	NMXU62HA108BKAA	NMXU50HA108BKAA	NMXU53HA108BKAA	NMXU54HA108BKAA	NMXU12HA108BKAA
144	NMXU62HA144BKAA	NMXU50HA144BKAA	NMXU53HA144BKAA	NMXU54HA144BKAA	NMXU12HA144BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

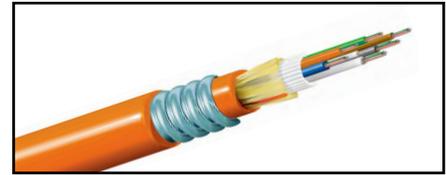
FiberExpress Multi Loose Tube Cables

MLT – Indoor/Outdoor CST Armored Double LSZH (Rodent Protection)

Available in sizes from 6 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250 ± 15 µm). Installation-friendly thanks to the cable core which is kept free of grease (dry interstices). High mechanical and full rodent protection provided by Corrugated Steel Tape (CST) armor. Halogen Free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GCDH, GCDI, GCDJ

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
GCDH*xx Unitized 6-Fiber Subunits		6	13.5	200	Dry	2850	950
GCDH*xx Unitized 12-Fiber Subunits		12 to 72	13.5	200	Dry	2850	950
GCDI*xx Unitized 12-Fiber Subunits		84 to 96	14.5	228	Dry	2700	900
GCDJ*xx Unitized 12-Fiber Subunits		108 to 144	16.5	235.5	Dry	2850	950

Consult individual technical data sheets for exact specifications.

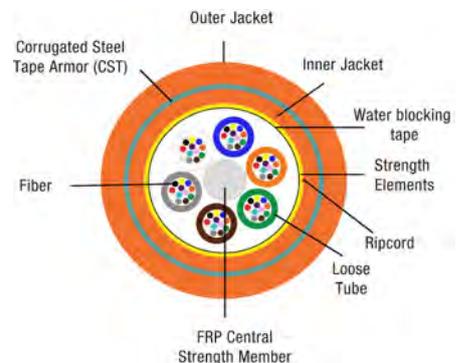
Construction

Jacket Material	LSZH
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Aramid yarn
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1, IEC 60332-3-22
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT – Indoor/Outdoor CST Armored Double LSZH (Rodent Protection)

No. of Fibers	Belden Part Number								
	OM1 62.5/125 µm	OM2 BI 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	OM5 BI 50 µm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
Dry Core									
GCDH (Unitized 6-Fiber Subunits)									
6	GCDH106	GCDH206	GCDHD06	GCDHE06	GCDHC06	GCDH806	GCDHF06	GCDHI06	GCDH706
Dry Core									
GCDH (Unitized 12-Fiber Subunits)									
12	GCDH112	GCDH212	GCDHD12	GCDHE12	GCDHC12	GCDH812	GCDHF12	GCDHI12	GCDH712
24	GCDH124	GCDH224	GCDHD24	GCDHE24	GCDHC24	GCDH824	GCDHF24	GCDHI24	GCDH724
36	GCDH136	GCDH236	GCDHD36	GCDHE36	GCDHC36	GCDH836	GCDHF36	GCDHI36	GCDH736
48	GCDH148	GCDH248	GCDHD48	GCDHE48	GCDHC48	GCDH848	GCDHF48	GCDHI48	GCDH748
60	GCDH160	GCDH260	GCDHD60	GCDHE60	GCDHC60	GCDH860	GCDHF60	GCDHI60	GCDH760
72	GCDH172	GCDH272	GCDHD72	GCDHE72	GCDHC72	GCDH872	GCDHF72	GCDHI72	GCDH772
Dry Core									
GCDI/GCDJ (Unitized 12-Fiber Subunits)									
96	GCDI196	GCDI296	GCDID96	GCDIE96	GCDIC96	GCDI896	GCDIF96	GCDII96	GCDI796
144	GCDJ144	GCDJ244	GCDJD44	GCDJE44	GCDJC44	GCDJ844	GCDJF44	GCDJI44	GCDJ744

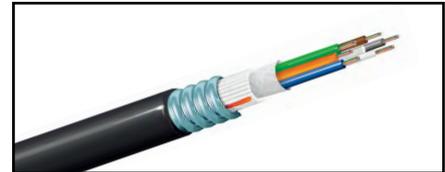
FiberExpress Multi Loose Tube Cables

MLT - Outdoor CST Armored PE (Rodent Protection)

Available in sizes from 6 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\text{Ø } 250 \pm 15 \mu\text{m}$). High mechanical and full rodent protection provided by Corrugated Steel Tape (CST) armor. Polyethylene jacket Length marking in meters for easy determination of the cable length. Installation-friendly thanks to the cable core which is kept free of grease (dry interstices), for GBC types.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone
- For outdoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GBCH, GBCI, GBCJ

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
GBCH*xx Unitized 6-Fiber Subunits		6	11.1	134	Dry	3900	1300
GBCH*xx Unitized 12-Fiber Subunits		12 to 72	11.1	134	Dry	3900	1300
GBCI*xx Unitized 12-Fiber Subunits		84 to 96	13.5	185	Dry	6000	2000
GBCJ*xx Unitized 12-Fiber Subunits		108 to 144	15.2	210	Dry	6000	2000

Consult individual technical data sheets for exact specifications.

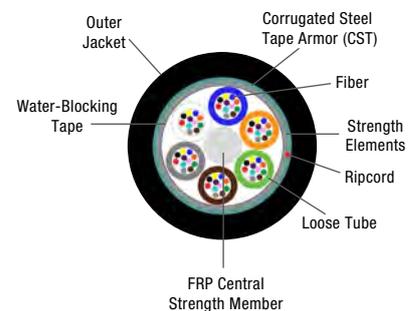
Construction

Jacket Material	PE
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Glass Yarn
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Cable Standard	IEC 60794-1
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Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor CST Armored PE (Rodent Protection)

No. of Fibers	Belden Part Number								
	OM1 62.5 µm	OM2 BI 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	OM5 BI 50 µm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
Dry Core									
GBCH (Unitized 6-Fiber Subunits)									
6	GBCH106	GBCH206	GBCHD06	GBCHE06	GBCHC06	GBCH806	GBCHF06	GBCHI06	GBCH706
Dry Core									
GBCH (Unitized 12-Fiber Subunits)									
12	GBCH112	GBCH212	GBCHD12	GBCHE12	GBCHC12	GBCH812	GBCHF12	GBCHI12	GBCH712
24	GBCH124	GBCH224	GBCHD24	GBCHE24	GBCHC24	GBCH824	GBCHF24	GBCHI24	GBCH724
36	GBCH136	GBCH236	GBCHD36	GBCHE36	GBCHC36	GBCH836	GBCHF36	GBCHI36	GBCH736
48	GBCH148	GBCH248	GBCHD48	GBCHE48	GBCHC48	GBCH848	GBCHF48	GBCHI48	GBCH748
60	GBCH160	GBCH260	GBCHD60	GBCHE60	GBCHC60	GBCH860	GBCHF60	GBCHI60	GBCH760
72	GBCH172	GBCH272	GBCHD72	GBCHE72	GBCHC72	GBCH872	GBCHF72	GBCHI72	GBCH772
Dry Core									
GBCI/GBCJ (Unitized 12-Fiber Subunits)									
84	GBCI184	GBCI284	GBCID84	GBCIE84	GBCIC84	GBCI884	GBCIF84	GBCII84	GBCI784
96	GBCI196	GBCI296	GBCID96	GBCIE96	GBCIC96	GBCI896	GBCIF96	GBCII96	GBCI796
108	GBCJ108	GBCJ208	GBCJD08	GBCJE08	GBCJC08	GBCJ808	GBCJF08	GBCJI08	GBCJ708
120	GBCJ120	GBCJ220	GBCJD20	GBCJE20	GBCJC20	GBCJ820	GBCJF20	GBCJI20	GBCJ720
132	GBCJ132	GBCJ232	GBCJD32	GBCJE32	GBCJC32	GBCJ832	GBCJF32	GBCJI32	GBCJ732
144	GBCJ144	GBCJ244	GBCJD44	GBCJE44	GBCJC44	GBCJ844	GBCJF44	GBCJI44	GBCJ744

FiberExpress Multi Loose Tube Cables

MLT - Outdoor CST Armored PE (Rodent Protection)

Available in sizes from 4 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250) High mechanical and full rodent protection provided by Corrugated Steel Tape (CST) armor. Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone.
- For outdoor use in networks for telecom, cable TV and/ or broadcast.
- Easy to install in ducts, tunnels and trenches.
- Suitable for direct burial



NOGU, NKGU, NMGU

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
NOGUxxMA Unitized 4 Fiber Subunits		4 to 16	12.0	132	Filled	2000	600
NKGUxxMA Unitized 6 Fiber Subunits		6 to 36	12.0	132	Filled	2000	600
NMGUxxHA Unitized 12 Fiber Subunits		48 to 72	13.4	164	Filled	2000	600
		96	14.8	210	Filled	3000	1000
		144	19.2	320	Filled	3000	1000

Consult individual technical data sheets for exact specifications.

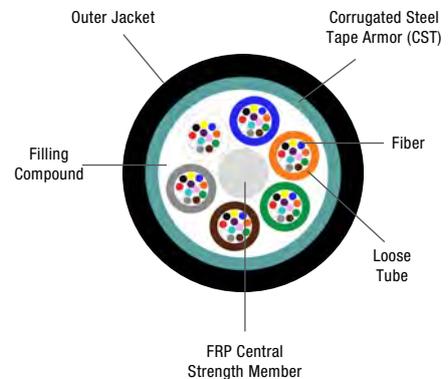
Construction

Jacket Material	PE
Loose Tube	PBT
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specification

Crush Resistance	10 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Cable Standard	IEC 60794-1 TIA/EIA-455
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Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor CST Armored PE (Rodent Protection)

No. of Fibers	Belden Part Number				
	OM1 62.5 μm	OM2 50 μm	OM3 BI 50 μm	OM4 BI 50 μm	SM G.652.D
Gel - Filled Core					
NOGU (Unitized 4 Subunits)					
4	NOGU62MA004BKAA	NOGU50MA004BKAA	NOGU53MA004BKAA	NOGU54MA004BKAA	NOGU12MA004BKAA
8	NOGU62MA008BKAA	NOGU50MA008BKAA	NOGU53MA008BKAA	NOGU54MA008BKAA	NOGU12MA008BKAA
16	NOGU62MA016BKAA	NOGU50MA016BKAA	NOGU53MA016BKAA	NOGU54MA016BKAA	NOGU12MA012BKAA
Gel - Filled Core					
NKGU (Unitized 6 Subunits)					
6	NKGU62MA006BKAA	NKGU50MA006BKAA	NKGU53MA006BKAA	NKGU54MA006BKAA	NKGU12MA006BKAA
12	NKGU62MA012BKAA	NKGU50MA012BKAA	NKGU53MA012BKAA	NKGU54MA012BKAA	NKGU12MA012BKAA
18	NKGU62MA018BKAA	NKGU50MA018BKAA	NKGU53MA018BKAA	NKGU54MA018BKAA	NKGU12MA018BKAA
24	NKGU62MA024BKAA	NKGU50MA024BKAA	NKGU53MA024BKAA	NKGU54MA024BKAA	NKGU12MA024BKAA
30	NKGU62MA030BKAA	NKGU50MA030BKAA	NKGU53MA030BKAA	NKGU54MA030BKAA	NKGU12MA030BKAA
36	NKGU62MA036BKAA	NKGU50MA036BKAA	NKGU53MA036BKAA	NKGU54MA036BKAA	NKGU12MA036BKAA
Gel - Filled Core					
NMGU (Unitized 12 Subunits)					
48	NMGU62HA048BKAA	NMGU50HA048BKAA	NMGU53HA048BKAA	NMGU54HA048BKAA	NMGU12HA048BKAA
60	NMGU62HA060BKAA	NMGU50HA060BKAA	NMGU53HA060BKAA	NMGU54HA060BKAA	NMGU12HA060BKAA
72	NMGU62HA072BKAA	NMGU50HA072BKAA	NMGU53HA072BKAA	NMGU54HA072BKAA	NMGU12HA072BKAA
96	NMGU62HA096BKAA	NMGU50HA096BKAA	NMGU53HA096BKAA	NMGU54HA096BKAA	NMGU12HA096BKAA
144	NMGU62HA144BKAA	NMGU50HA144BKAA	NMGU53HA144BKAA	NMGU54HA144BKAA	NMGU12HA144BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

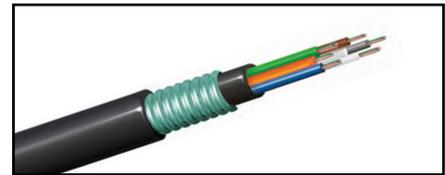
FiberExpress Multi Loose Tube Cables

MLT - Outdoor CST Armored Double PE (Rodent Protection)

Available in sizes from 4 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\text{Ø } 250 \pm 15 \mu\text{m}$). Rodent protected by means of CST Armor. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



NOPU, NKPU, NMPU

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
NOPUxxMA Unitized 4 Fiber Subunits		4 to 16	15.8	226	Filled	3000	1000
NKPUxxMA Unitized 6 Fiber Subunits		6 to 48	15.8	226	Filled	3000	1000
NMPUxxHA Unitized 12 Fiber Subunits		60 to 96	16.8	255	Filled	3000	1000
		144	21.2	380	Filled	3000	1000

Consult individual technical data sheets for exact specifications.

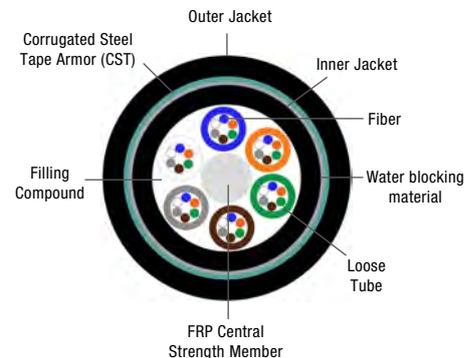
Construction

Jacket Material	PE
Loose Tube	PBT
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance	30 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass

Legend



Compliance

Cable Standard	IEC 60794-1 TIA/EIA-455
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Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor CST Armored Double PE (Rodent Protection)

No. of Fibers	Belden Part Number				
	OM1 62.5 μ m	OM2 50 μ m	OM3 BI 50 μ m	OM4 BI 50 μ m	SM G.652.D
Gel - Filled Core					
NOPU (Unitized 4 Subunits)					
4	NOPU62MA004BKAA	NOPU50MA004BKAA	NOPU53MA004BKAA	NOPU54MA004BKAA	NOPU12MA004BKAA
8	NOPU62MA008BKAA	NOPU50MA008BKAA	NOPU53MA008BKAA	NOPU54MA008BKAA	NOPU12MA008BKAA
16	NOPU62MA016BKAA	NOPU50MA016BKAA	NOPU53MA016BKAA	NOPU54MA016BKAA	NOPU12MA016BKAA
Gel - Filled Core					
NKPU (Unitized 6 Subunits)					
6	NKPU62MA006BKAA	NKPU50MA006BKAA	NKPU53MA006BKAA	NKPU54MA006BKAA	NKPU12MA006BKAA
12	NKPU62MA012BKAA	NKPU50MA012BKAA	NKPU53MA012BKAA	NKPU54MA012BKAA	NKPU12MA012BKAA
24	NKPU62MA024BKAA	NKPU50MA024BKAA	NKPU53MA024BKAA	NKPU54MA024BKAA	NKPU12MA024BKAA
36	NKPU62MA036BKAA	NKPU50MA036BKAA	NKPU53MA036BKAA	NKPU54MA036BKAA	NKPU12MA036BKAA
48	NKPU62MA048BKAA	NKPU50MA048BKAA	NKPU53MA048BKAA	NKPU54MA048BKAA	NKPU12MA048BKAA
Gel - Filled Core					
NMPU (Unitized 12 Subunits)					
60	NMPU62HA060BKAA	NMPU50HA060BKAA	NMPU53HA060BKAA	NMPU54HA060BKAA	NMPU12HA060BKAA
72	NMPU62HA072BKAA	NMPU50HA072BKAA	NMPU53HA072BKAA	NMPU54HA072BKAA	NMPU12HA072BKAA
96	NMPU62HA096BKAA	NMPU50HA096BKAA	NMPU53HA096BKAA	NMPU54HA096BKAA	NMPU12HA096BKAA
144	NMPU62HA144BKAA	NMPU50HA144BKAA	NMPU53HA144BKAA	NMPU54HA144BKAA	NMPU12HA144BKAA

*Bend Insensitive OM2 Fiber options are also available upon request

FiberExpress Multi Loose Tube Cables

MLT - Outdoor CST Armored PE (Figure 8)

Available in sizes from 4 to 96 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers (Ø 250). High mechanical and full rodent protection provided by Corrugated Steel Tape (CST) armor. Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems.
- For outdoor use in networks for telecom, cable TV and/ or broadcast.
- Easy to install in medium span aerial installations.



NOGU, NKGU, NMGU

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
NOGUxxMA Unitized 4 Subunits		4 to 24	5.96 X 12.5 X 20.4	250	Filled	7000	3000
NKGUxxMA Unitized 6 Subunits		12 to 72	6.0 X 11.2 X 19.5	250	Filled	7000	3000
NMGUxxMA Unitized 12 Subunits		96	6.0 X 15.5 X 23.5	324	Filled	7000	3000

Consult individual technical data sheets for exact specifications.

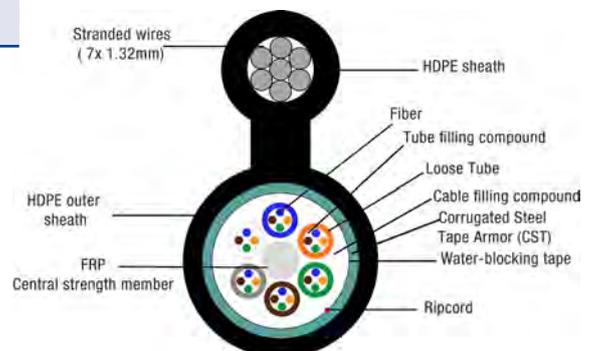
Construction

Jacket Material	PE
Loose Tube	PBT
Core Wrap	Water Swellable Tape
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-40°C to 70°C
Operation	-40°C to 70°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	10 x OD
Watertightness (F5)	Pass
Impact Resistance	Pass
Solar Radiation Resistance	Pass
Compound Flow	Pass
Cyclic Flexing	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Cable Standard

IEC 60794-1
TIA/EIA-455

Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor CST Armored PE (Figure 8)

No. of Fibers	Belden Part Number				
	OM1 62.5 µm	OM2 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	SM G.652.D
Gel - Filled Core					
NOGU (Unitized 4 Subunits)					
4	NOGU62MA004BKS8	NOGU50MA004BKS8	NOGU53MA004BKS8	NOGU54MA004BKS8	NOGU12MA004BKS8
8	NOGU62MA012BKS8	NOGU50MA012BKS8	NOGU53MA012BKS8	NOGU54MA012BKS8	NOGU12MA012BKS8
16	NOGU62MA024BKS8	NOGU50MA024BKS8	NOGU53MA024BKS8	NOGU54MA024BKS8	NOGU12MA024BKS8
Gel - Filled Core					
NKGU (Unitized 6 Subunits)					
12	NKGU62MA012BKS8	NKGU50MA012BKS8	NKGU53MA012BKS8	NKGU54MA012BKS8	NKGU12MA012BKS8
24	NKGU62MA024BKS8	NKGU50MA024BKS8	NKGU53MA024BKS8	NKGU54MA024BKS8	NKGU12MA024BKS8
36	NKGU62MA036BKS8	NKGU50MA036BKS8	NKGU53MA036BKS8	NKGU54MA036BKS8	NKGU12MA036BKS8
48	NKGU62MA048BKS8	NKGU50MA048BKS8	NKGU53MA048BKS8	NKGU54MA048BKS8	NKGU12MA048BKS8
60	NKGU62MA060BKS8	NKGU50MA060BKS8	NKGU53MA060BKS8	NKGU54MA060BKS8	NKGU12MA060BKS8
Gel - Filled Core					
NMGU (Unitized 12 Subunits)					
96	NMGU62MA096BKS8	NMGU50MA096BKS8	NMGU53MA096BKS8	NMGU54HA096BKAA	NMGU12MA096BKS8

*Bend Insensitive OM2 Fiber options are also available upon request

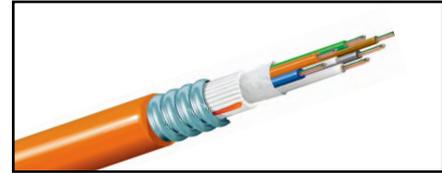
FiberExpress Multi Loose Tube Cables

MLT – Indoor/Outdoor Fire Resistant CST Armored LSZH (Rodent Protection)

Available in sizes from 6 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\varnothing 250 \pm 15 \mu\text{m}$). Installation-friendly thanks to the cable core which is kept free of grease (dry interstices). High mechanical and full rodent protection provided by Corrugated Steel Tape (CST) armor. Halogen Free jacket. Length marking in meters for easy determination of the cable length. These cables offer excellent Fire resistance performance and comply to IEC 60331-25.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GCCH, GCCI, GCCJ

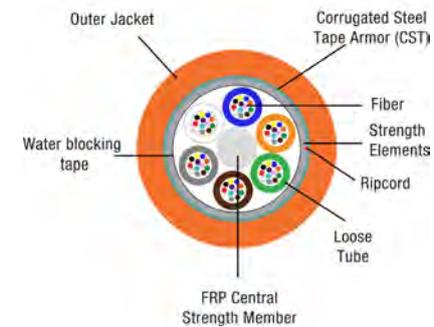
Construction

Jacket Material	PE
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Glass Yarn
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1, IEC 60332-3-22
Circuit Integrity	IEC 60331-25 (E120)
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
GCCH*xx Unitized 6-Fiber Subunits		6	11.1	156	Dry	3900	1300
GCCH*xx Unitized 12-Fiber Subunits		12 to 72	11.1	156	Dry	3900	1300
GCCI*xx Unitized 12-Fiber Subunits		84 to 96	13.5	215	Dry	6000	2000
GCCJ*xx Unitized 12-Fiber Subunits		108 to 144	15.2	241	Dry	6000	2000

Consult individual technical data sheets for exact specifications.

Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT – Indoor/Outdoor Fire Resistant CST Armored LSZH (Rodent Protection)

No. of Fibers	Belden Part Number								
	OM1 62.5/125 µm	OM2 BI 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	OM5 BI 50 µm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
Dry Core									
GCCH (Unitized 6-Fiber Subunits)									
6	GCCH106	GCCH206	GCCHD06	GCCE06	GCCHC06	GCCH806	GCCHF06	GCCHI06	GCCH706
Dry Core									
GCCH (Unitized 12-Fiber Subunits)									
12	GCCH112	GCCH212	GCCHD12	GCCE12	GCCHC12	GCCH812	GCCHF12	GCCHI12	GCCH712
24	GCCH124	GCCH224	GCCHD24	GCCE24	GCCHC24	GCCH824	GCCHF24	GCCHI24	GCCH724
36	GCCH136	GCCH236	GCCHD36	GCCE36	GCCHC36	GCCH836	GCCHF36	GCCHI36	GCCH736
48	GCCH148	GCCH248	GCCHD48	GCCE48	GCCHC48	GCCH848	GCCHF48	GCCHI48	GCCH748
60	GCCH160	GCCH260	GCCHD60	GCCE60	GCCHC60	GCCH860	GCCHF60	GCCHI60	GCCH760
72	GCCH172	GCCH272	GCCHD72	GCCE72	GCCHC72	GCCH872	GCCHF72	GCCHI72	GCCH772
Dry Core									
GCCI/GCCJ (Unitized 12-Fiber Subunits)									
96	GCCI196	GCCI296	GCCID96	GCCIE96	GCCIC96	GCCI896	GCCIF96	GCCJ196	GCCI796
144	GCCJ144	GCCJ244	GCCJD44	GCCJE44	GCCJC44	GCCJ844	GCCJF44	GCCJI44	GCCJ744

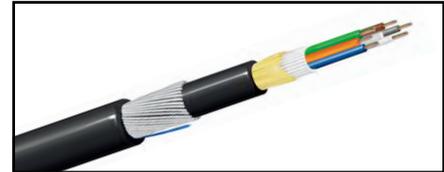
FiberExpress Multi Loose Tube Cables

MLT - Indoor/Outdoor SWA Armored Double LSZH (Rodent Protection)

Available in sizes from 6 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\varnothing 250 \pm 15 \mu\text{m}$). Installation-friendly thanks to the cable core which is kept free of grease (dry interstices). High mechanical and full rodent protection provided by Steel Wire Armor (SWA). Halogen Free jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GCWH, GCWI, GCWJ

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
GCWH*xx Unitized 6-Fiber Subunits		6	13.5	300	Dry	2850	950
GCWH*xx Unitized 12-Fiber Subunits		12 to 72	13.5	200	Dry	2850	950
GCWI*xx Unitized 8-Fiber Subunits		56 to 64	14.7	400	Dry	2700	900
GCWI*xx Unitized 12-Fiber Subunits		84 to 96	14.7	400	Dry	2700	900
GCWJ*xx Unitized 8-Fiber Subunits		72 to 96	18.1	528	Dry	2850	950
GCWJ*xx Unitized 12-Fiber Subunits		108 to 144	18.1	528	Dry	2850	950

Consult individual technical data sheets for exact specifications.

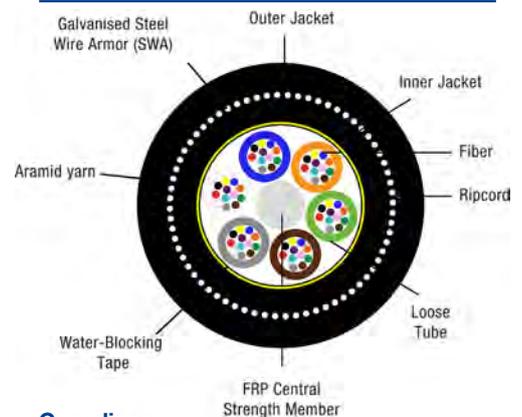
Construction

Jacket Material	LSZH
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Aramid Yarn
Armor	Steel Wire Armor
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term)	22 kN/m
Temperature Range	
Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C
Min. Bend Radius	
Installation (E6)	20 x OD
Operation (E11)	20 x OD
Watertightness (F5)	Pass
RoHS Compliant	Yes
UV Resistant	Yes

Legend



Compliance

Flame Retardant	IEC 60332-1, IEC 60332-3-24
Halogen Free	IEC 60754-1
Non Corrosive	IEC 60754-2
Smoke Density	IEC 61034-2
Cable Standard	IEC 60794-1

Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Indoor/Outdoor SWA Armored Double LSZH (Rodent Protection)

No. of Fibers	Belden Part Number								
	OM1 62.5/125 µm	OM2 BI 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	OM5 BI 50 µm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
Dry Core									
GCWH (Unitized 6-Fiber Subunits)									
6	GCWH106	GCWH206	GCWHD06	GCWHE06	GCWHC06	GCWH806	GCWHF06	GCWHI06	GCWH706
Dry Core									
GCWH (Unitized 12-Fiber Subunits)									
12	GCWH112	GCWH212	GCWHD12	GCWHE12	GCWHC12	GCWH812	GCWHF12	GCWHI12	GCWH712
24	GCWH124	GCWH224	GCWHD24	GCWHE24	GCWHC24	GCWH824	GCWHF24	GCWHI24	GCWH724
36	GCWH136	GCWH236	GCWHD36	GCWHE36	GCWHC36	GCWH836	GCWHF36	GCWHI36	GCWH736
48	GCWH148	GCWH248	GCWHD48	GCWHE48	GCWHC48	GCWH848	GCWHF48	GCWHI48	GCWH748
60	GCWH160	GCWH260	GCWHD60	GCWHE60	GCWHC60	GCWH860	GCWHF60	GCWHI60	GCWH760
72	GCWH172	GCWH272	GCWHD72	GCWHE72	GCWHC72	GCWH872	GCWHF72	GCWHI72	GCWH772
Dry Core									
GCWI (Unitized 8-Fiber Subunits)									
56	GCWI156	GCWI256	GCWID56	GCWIE56	GCWIC56	GCWI856	GCWIF56	GCWII56	GCWI756
64	GCWI164	GCWI264	GCWID64	GCWIE64	GCWIC64	GCWI864	GCWIF64	GCWII64	GCWI764
Dry Core									
GCWI (Unitized 12-Fiber Subunits)									
84	GCWI184	GCWI284	GCWID84	GCWIE84	GCWIC84	GCWI884	GCWIF84	GCWII84	GCWI784
96	GCWI196	GCWI296	GCWID96	GCWIE96	GCWIC96	GCWI896	GCWIF96	GCWII96	GCWI796
Dry Core									
GCWJ (Unitized 8-Fiber Subunits)									
72	GCWJ172	GCWJ272	GCWJD72	GCWJE72	GCWJC72	GCWJ872	GCWJF72	GCWJI72	GCWJ772
96	GCWJ196	GCWJ296	GCWJD96	GCWJE96	GCWJC96	GCWJ896	GCWJF96	GCWJI96	GCWJ796
Dry Core									
GCWJ (Unitized 12-Fiber Subunits)									
108	GCWJ108	GCWJ208	GCWJD08	GCWJE08	GCWJC08	GCWJ808	GCWJF08	GCWJI08	GCWJ708
120	GCWJ120	GCWJ220	GCWJD20	GCWJE20	GCWJC20	GCWJ820	GCWJF20	GCWJI20	GCWJ720
132	GCWJ132	GCWJ232	GCWJD32	GCWJE32	GCWJC32	GCWJ832	GCWJF32	GCWJI32	GCWJ732
144	GCWJ144	GCWJ244	GCWJD44	GCWJE44	GCWJC44	GCWJ844	GCWJF44	GCWJI44	GCWJ744

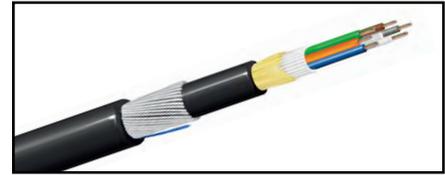
FiberExpress Multi Loose Tube Cables

MLT - Outdoor SWA Armored Double PE (Rodent Protection)

Available in sizes from 6 to 144 fibers. Jelly filled (non-dripping and silicon-free) loose tube with primary coated optical fibers ($\text{Ø } 250 \pm 15 \mu\text{m}$). High mechanical and full rodent protection provided by Steel Wire Armor (SWA). Polyethylene jacket. Length marking in meters for easy determination of the cable length.

Applications

- For outdoor use in structured (data) wiring systems such as campus backbone
- For outdoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by pulling wire
- Suitable for direct burial



GBWH, GBWI, GBWJ

Description	Construction	Fiber Count	Cable OD (mm)	Weight (kg/km)	Water tightness in Core	Tensile Strength (N)	
						Short Term	Permanent
GBWH*xx Unitized 6-Fiber Subunits		6	13.5	255	Dry	2850	950
GBWH*xx Unitized 12-Fiber Subunits		12 to 72	13.5	255	Dry	2850	950
GBWI*xx Unitized 8-Fiber Subunits		56 to 64	14.7	359	Dry	2700	900
GBWI*xx Unitized 12-Fiber Subunits		84 to 96	14.7	359	Dry	2700	900
GBWJ*xx Unitized 8-Fiber Subunits		72 to 96	18.1	462	Dry	2850	950
GBWJ*xx Unitized 12-Fiber Subunits		108 to 144	18.1	462	Dry	2850	950

Construction

Jacket Material	PE
Loose Tube	PBT
Core Wrap	Waterblocking Tape
Strength Member	Waterblocking Aramid Yarn
Armor	Steel Wire Armor
Color Code (Buffer)	Per ANSI/TIA 598-D

Specifications

Crush Resistance Installation (Short Term) 22 kN/m

Temperature Range

Storage	-30°C to 70°C
Operation	-30°C to 70°C
Installation	-5°C to 50°C

Min. Bend Radius

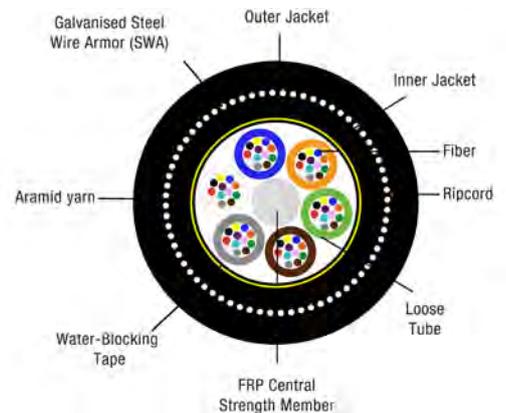
Installation (E6)	20 x OD
Operation (E11)	20 x OD

Watertightness (F5) Pass

RoHS Compliant Yes

UV Resistant Yes

Legend



Compliance

Cable Standard IEC 60794-1

Faster.
Easier.
Better.

FiberExpress Multi Loose Tube Cables (continued)
MLT - Outdoor SWA Armored Double PE (Rodent Protection)

No. of Fibers	Belden Part Number								
	OM1 62.5/125 µm	OM2 BI 50 µm	OM3 BI 50 µm	OM4 BI 50 µm	OM5 BI 50 µm	ITU 9/125 G.652.D /G.657.A1	ITU G.657.A2	ITU G.657.B3	ITU 9/125 G.655.C & D
Dry Core									
GBWH (Unitized 6-Fiber Subunits)									
6	GBWH106	GBWH206	GBWHD06	GBWHE06	GBWHC06	GBWH806	GBWHF06	GBWHI06	GBWH706
Dry Core									
GBWH (Unitized 12-Fiber Subunits)									
12	GBWH112	GBWH212	GBWHD12	GBWHE12	GBWHC12	GBWH812	GBWHF12	GBWHI12	GBWH712
24	GBWH124	GBWH224	GBWHD24	GBWHE24	GBWHC24	GBWH824	GBWHF24	GBWHI24	GBWH724
36	GBWH136	GBWH236	GBWHD36	GBWHE36	GBWHC36	GBWH836	GBWHF36	GBWHI36	GBWH736
48	GBWH148	GBWH248	GBWHD48	GBWHE48	GBWHC48	GBWH848	GBWHF48	GBWHI48	GBWH748
60	GBWH160	GBWH260	GBWHD60	GBWHE60	GBWHC60	GBWH860	GBWHF60	GBWHI60	GBWH760
72	GBWH172	GBWH272	GBWHD72	GBWHE72	GBWHC72	GBWH872	GBWHF72	GBWHI72	GBWH772
Dry Core									
GBWI (Unitized 8-Fiber Subunits)									
56	GBWI156	GBWI256	GBWID56	GBWIE56	GBWIC56	GBWI856	GBWIF56	GBWII56	GBWI756
64	GBWI164	GBWI264	GBWID64	GBWIE64	GBWIC64	GBWI864	GBWIF64	GBWII64	GBWI764
Dry Core									
GBWI (Unitized 12-Fiber Subunits)									
84	GBWI184	GBWI284	GBWID84	GBWIE84	GBWIC84	GBWI884	GBWIF84	GBWII84	GBWI784
96	GBWI196	GBWI296	GBWID96	GBWIE96	GBWIC96	GBWI896	GBWIF96	GBWII96	GBWI796
Dry Core									
GBWJ (Unitized 8-Fiber Subunits)									
72	GBWJ172	GBWJ272	GBWJD72	GBWJE72	GBWJC72	GBWJ872	GBWJF72	GBWJI72	GBWJ772
96	GBWJ196	GBWJ296	GBWJD96	GBWJE96	GBWJC96	GBWJ896	GBWJF96	GBWJI96	GBWJ796
Dry Core									
GBWJ (Unitized 12-Fiber Subunits)									
108	GBWJ108	GBWJ208	GBWJD08	GBWJE08	GBWJC08	GBWJ808	GBWJF08	GBWJI08	GBWJ708
120	GBWJ120	GBWJ220	GBWJD20	GBWJE20	GBWJC20	GBWJ820	GBWJF20	GBWJI20	GBWJ720
132	GBWJ132	GBWJ232	GBWJD32	GBWJE32	GBWJC32	GBWJ832	GBWJF32	GBWJI32	GBWJ732
144	GBWJ144	GBWJ244	GBWJD44	GBWJE44	GBWJC44	GBWJ844	GBWJF44	GBWJI44	GBWJ744

Rack & Cabinet System

Belden—the most trusted brand for reliable signal transmission solutions—offers a complete selection of racking, cabinets, power distribution units, monitoring and airflow management products to meet your infrastructure needs and optimize system performance.

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Faster.
Easier.
Better.



ADN Series, LAN & Data Centre Cabinets 800Kg

ADN Series LAN & Data Center Cabinets 800kg

Features

- 4 Sliding vertical rails for mounting
- Removable side panels for easy access
- Several styles of front and rear doors available
- Removable parts can be connected to the frame with grounding wires
- Maximum permissible load: 800kg
- Cable entries in top and bottom cover with adjustable sizes
- Optional installation of base to enable cabinets fixation, to provide cable access from underneath or ventilation
- Cabinet can be delivered as flat pack (disassembled packing) or pre-assembled

Applications

Belden Enclosures for use in 19" Data, Telecommunication, LAN and Server applications. Varying depths are available for various applications

Standards

- EIA/ECA-310-E
- IEC 60297-2-100
- DIN 41494; PART 1 and 7
- RoHS compliant

ADN Series Cabinets

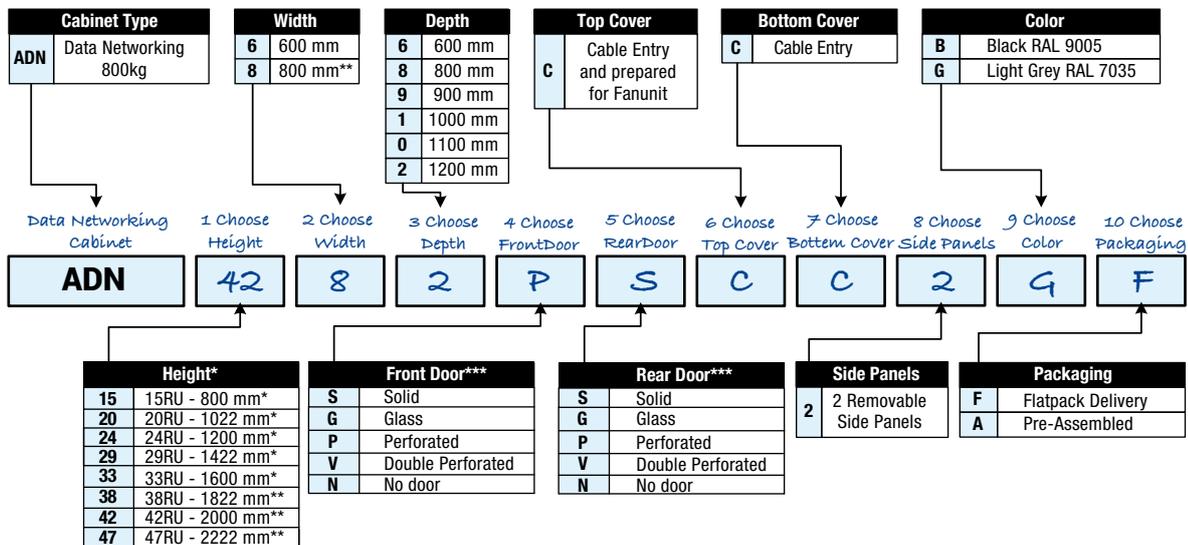
Belden Part Number	Description	Package
ADN2468GVCC2BF	24U, 600 (W) *800 (D), front single glass hinge door and split perforated rear doors, Black	Flatpack*
ADN2468GVCC2BA	24U, 600 (W) *800 (D), front single glass hinge door and split perforated rear doors, Black	Assembled*
ADN2968GVCC2BF	29U, 600 (W) *800 (D), front single glass hinge door and split perforated rear doors, Black	Flatpack
ADN2968GVCC2BA	29U, 600 (W) *800 (D), front single glass hinge door and split perforated rear doors, Black	Assembled
ADN3381GPCC2BF	33U, 800 (W) *1000 (D), front single glass hinge door and perforated rear doors, Black	Flatpack
ADN3381GPCC2BA	33U, 800 (W) *1000 (D), front single glass hinge door and perforated rear doors, Black	Assembled
ADN3868PVCC2BF	38U, 600 (W) *800 (D), front single perforated hinge door and split perforated rear doors, Black	Flatpack
ADN3868PVCC2BA	38U, 600 (W) *800 (D), front single perforated hinge door and split perforated rear doors, Black	Assembled
ADN4288PVCC2BF	42U, 800 (W) *800 (D), front single perforated hinge door and split perforated rear doors, Black	Flatpack
ADN4288PVCC2BA	42U, 800 (W) *800 (D), front single perforated hinge door and split perforated rear doors, Black	Assembled
ADN4282PVCC2BF	42U, 800 (W) *1200 (D), front single perforated hinge door and split perforated rear doors, Black	Flatpack
ADN4282PVCC2BA	42U, 800 (W) *1200 (D), front single perforated hinge door and split perforated rear doors, Black	Assembled

*Flatpack package: All cabinet components packed together for delivery and need to be assembled on site.

**Assembled package: The cabinet has been assembled before factory delivery.

Tailored ADN Cabinets

Building a Smart Part Number



Notes

* Height 15U, 20U, 24U, 29U, 33U in combination 600mm wide is only available for depths of 600mm and 800 mm

** 800mm wide cabinets only available in heights 38U, 42U and 47U.

*** Single doors are left hand out swing

ASN Series

LAN & Data Center Cabinets 1300kg

Features

- 4 Sliding vertical rails for mounting
- Side panels: split into 2 lockable parts for 42U cabinet
- Front and rear door: pluggable front door and rear doors, with external hinges
Turning angle up to 180 degrees
- Removable parts can be connected to the frame with grounding wires
- Maximum permissible load: 1300kg
- Casters: built-in design
- Sliding and adjustable cable entries on top and bottom. Entries are with the design to prevent wires from scratching
- Cabinet can be delivered as flat pack (disassembled packing) or pre-assembled

Applications

Belden Enclosures for use in 19" Data, Telecommunication, LAN and Server applications. Varying depths are available for various applications

Standards

- EIA/ECA-310-E
- IEC 60297-2-100
- DIN 41494; PART 1 and 7
- RoHS compliant



ASN Series, LAN & Data Centre Cabinets 1300kg

ASN Series Cabinets

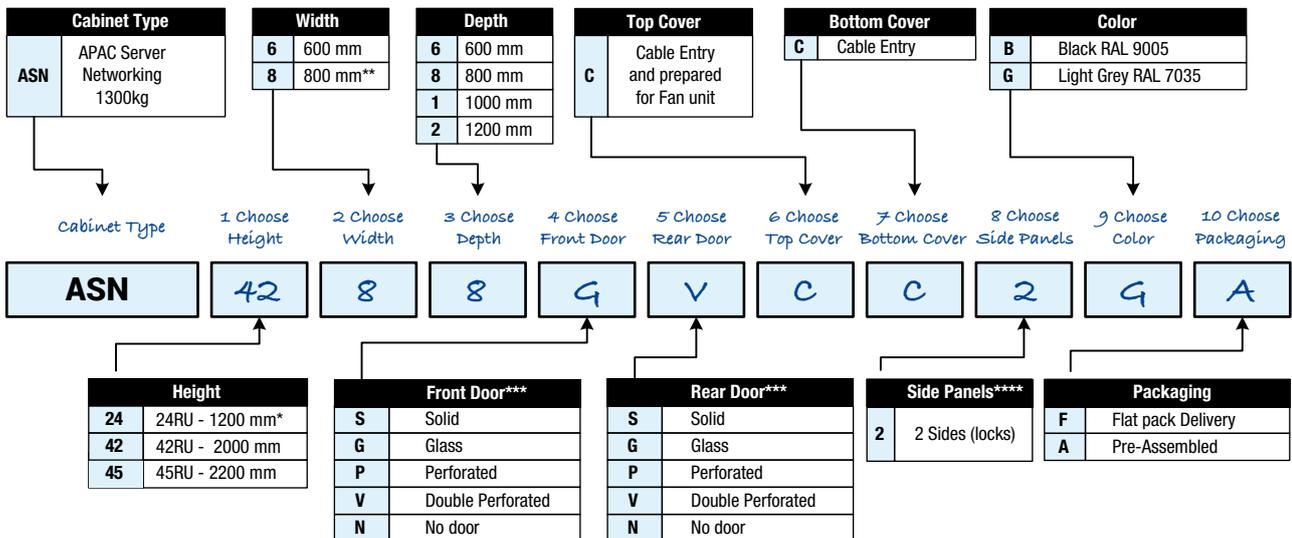
Belden Part Number	Description	Package
ASN4288PVCC2BF	42U, 800(W)* 800(D), front single perforated hinge door and split perforated rear doors, Black	Flatpack*
ASN4288PVCC2BA	42U, 800(W)* 800(D), front single perforated hinge door and split perforated rear doors, Black	Assembled*
ASN4281PVCC2BF	42U, 800(W)* 1000(D), front single perforated hinge door and split perforated rear doors, Black	Flatpack
ASN4281PVCC2BA	42U, 800(W)* 1000(D), front single perforated hinge door and split perforated rear doors, Black	Assembled
ASN4282PVCC2BF	42U, 800(W)* 1200(D), front single perforated hinge door and split perforated rear doors, Black	Flatpack
ASN4282PVCC2BA	42U, 800(W)* 1200(D), front single perforated hinge door and split perforated rear doors, Black	Assembled

*Flatpack package: All cabinet components are packed together for delivery and need to be assembled on site.

*Assembled package: The cabinet has been assembled before factory delivery.

Tailored ASN Cabinets

Building a Smart Part Number



Notes

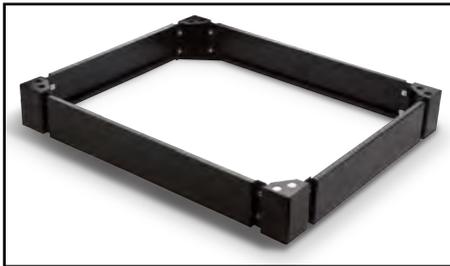
* 24U only available for 600wide in combination with 600 or 800mm deep cabinet

** 800mm wide cabinet not available for 600mm deep cabinet

*** Single doors are left hand out swing

**** 2 sides with 2 split panels each, for 42U cabinet

Faster.
Easier.
Better.



Bases for ADN Series Cabinets

Enclosure Accessories

Bases for ADN Series Cabinets

Application

Bases can be used to lift the cabinet to provide cable access from underneath. Suitable for ADN-series cabinets loaded up to 1000 kg

Construction

The profile is constructed out of SPCC cold rolled steel. The base's width and length measures should correspond to the depth and width of the cabinet. Height of the bases is 100mm and can support maximum capacity of 1000kg. Available in two colors: Black RAL9005 and Light Grey RAL7035.

Tailored Part Number

Building a Smart Part Number

Choose
Accessory Cabinet

ADAB2

Accessory Cabinet	
ADAB2	Bases 1000Kg

Choose
Width

8

Width	
6	600 mm
8	800 mm

Choose
Depth

1

Depth	
6	600 mm
8	800 mm
9	900 mm
1	1000 mm
2	1200 mm

Choose
Color

1

Color	
1	Grey RAL 7035
2	Black RAL 9005

The 800mm width Base only has options of 600mm, 800mm and 1200mm depth



Bases for ASN Series Cabinets

Bases for ASN Series Cabinets

Application

Bases can be used to lift the cabinet to provide cable access from underneath. Suitable for ASN-series cabinets loaded up to 1500kg

Construction

The profile is constructed out of SPCC cold rolled steel. The base's width and length measures should correspond to the depth and width of the cabinet. Height of the bases is 100mm and can support maximum capacity of 1500kg. Available in two colors: Black RAL9005 and Light Grey RAL7035

Tailored Part Number

Building a Smart Part Number

Choose
Accessory Cabinet

ADAB3

Accessory Cabinet	
ADAB3	Base 1500Kg

Choose
Width

8

Width	
6	600 mm
8	800 mm

Choose
Depth

1

Depth	
6	547 mm (suitable for 600 mm depth cabinet)
8	747 mm (suitable for 800 mm depth cabinet)
9	847 mm (suitable for 900 mm depth cabinet)
1	947 mm (suitable for 1000 mm depth cabinet)
2	1147 mm (suitable for 1200 mm depth cabinet)

Choose
Color

1

Color	
1	Grey RAL 7035
2	Black RAL 9005

Fan top unit with thermostat For 19" A-series enclosures

Application

Fan units especially made to fit all belden A-series free standing cabinets (part number starting with AD or AS), where they can be installed into the top cover of the enclosure where a blind panel is available. The unit can be installed in the top cover from outside of the enclosure, fixing it by 4 bolts. ADAF1xxx models are equipped with a thermostat (setting range 0-60 degree Celsius)

Construction

- Available in two colors: Black RAL9005 and Light Grey RAL7035
- Units available with 2 or 4 fans
- Available with several plug types: UK: BS1363, German: Schuko DIN 49441, US: NEMA 5-15P, C14: IEC 60320, GB type: IEC 884-2-5



Fan unit with 4 fans – ADAF1x42

Tailored Part Number

Building a Smart Part Number

Choose
Accessory Cabinet

ADAF1

Choose
Plug Type

N

Choose
Fans

2

Choose
Color

1

Accessory Cabinet	
ADAF1	Fan Top Unit With Thermostat

Plug type	
A	GB Type
B	UK Type
C	C14
G	German Type
N	US Type

Fans	
2	2 Fans
4	4 Fans

Color	
1	Grey RAL 7035
2	Black RAL 9005



Fan unit with 4 fans – ADAF1x42

Fan top unit For 19" A-series cabinets

Application

Fan units especially made to fit all Belden A-series free standing cabinets. Can be installed into the top cover of the enclosure where a blind panel is available. The unit can be installed in the top cover from outside of the enclosure, fixing it by 4 bolts

Construction

- Available in two colors: Black RAL9005 and Light Grey RAL7035
- Units available with 2 or 4 fans
- Available with several plug types: UK: BS1363, German: Schuko DIN49441, US: NEMA 5-15P, C14: IEC60320, GB type: IEC884-2-5



Fan unit with 4 fans – ADAF4x42

Tailored Part Number

Building a Smart Part Number

Choose
Accessory Cabinet

ADAF4

Choose
Plug Type

N

Choose
Fans

2

Choose
Color

1

Accessory Cabinet	
ADAF4	Fan Top Unit

Plug Type	
A	GB Type
B	UK Type
C	C14
G	German Type
N	US Type

Fans	
2	2 Fans
4	4 Fans

Color	
1	Grey RAL 7035
2	Black RAL 9005

Faster.
Easier.
Better.



Fan unit with 2 fans – ADAF2x22

1U fan unit for 19" A-series cabinets

Application

Fan unit especially made to fit Belden A-series, free standing cabinets. The unit can be installed horizontally inside the enclosure, fixed to the verticals

Construction

- Available in two colors: Black RAL9005 and Light Grey RAL7035
- Units available with 2, 3 or 4 fans
- Available with several plug types: UK: BS1363, German: Schuko DIN 49441, US: NEMA 5-15P, C14: IEC 60320, GB type: IEC 884-2-5

Tailored Part Number

Building a Smart Part Number

Choose
Accessory Cabinet

ADAF2

Choose
Plug Type

N

Choose
Fans

2

Choose
Color

1

Accessory Cabinet	
ADAF2	1U Fan Unit

Plug Type	
A	GB Type
B	UK Type
C	C14
G	German Type
N	US Type

Fans	
2	2 Fans
3	3 Fans
4	4 Fans

Color	
1	Grey RAL 7035
2	Black RAL 9005



Fan unit with 2 fans – ADAF3x22

3U fan unit for 19" A-series cabinets

Application

Fan unit especially made to fit Belden A-series, free standing cabinets. The unit can be installed horizontally inside the enclosure, fixed to the verticals

Construction

- Available in two colors: Black RAL9005 and Light Grey RAL7035
- Units available with 2 or 3 fans
- Available with several plug types: UK: BS1363, German: Schuko DIN 49441, US: NEMA 5-15P, C14: IEC 60320, GB type: IEC 884-2-5

Tailored Part Number

Building a Smart Part Number

Choose
Accessory Cabinet

ADAF3

Choose
Plug Type

N

Choose
Fans

2

Choose
Color

1

Accessory Cabinet	
ADAF3	3U Fan Unit

Plug Type	
A	GB Type
B	UK Type
C	C14
G	German Type
N	US Type

Fans	
2	2 Fans
3	3 Fans

Color	
1	Grey RAL 7035
2	Black RAL 9005

Regular Shelf with perforation For 19" A-Series Cabinets

Application

Regular 19" Shelf for supporting equipment up to 90kg load. Available in several depths and is mounted on each corner to the frame for maximum stability.

Construction

The maximum load capacity is 90kg. Available in two colors: Black RAL9005 and Light Grey RAL7035. Material: SPCC 1.2 cold rolled steel



19" shelf

Tailored Part Number Building a Smart Part Number

Choose
Accessory Cabinet

ADAP52

Choose
Cabinet Depth

1

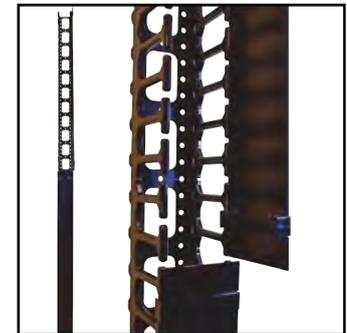
Choose
Color

1

Accessory Cabinet	
ADAP52	19" Shelf

Cabinet Depth	
6	600 mm
8	800 mm
9	900 mm
1	1000 mm
2	1200 mm

Color	
1	Grey RAL 7035
2	Black RAL 9005



Cable manager for 800mm wide Free Standing A-Series Cabinets

Cable manager for 800mm wide Free Standing A-Series Cabinets

Application

Vertical Cable Management Double finger strip for A-Series. Material: Metal and plastic moulded fingers on two sides with cover

Part#	Height	Width	Depth	Application Max. cabinet size
ADAV6242	978 mm	97 mm	115 mm	24U
ADAV6282	1156 mm	97 mm	115 mm	28U
ADAV6322	1334 mm	97 mm	115 mm	32U
ADAV6382	1601 mm	97 mm	115 mm	38U
ADAV6422	1778 mm	97 mm	115 mm	42U

PDU Bracket for A-Series Cabinets

Application

Bracket mated with A-series standing cabinets for PDU mounting Material: SPCC Metal



ASAPDUB - PDU bracket for ASN series cabinets shall be used in pairs



ADAPDUB - PDU bracket for ADN series cabinets

Cabinet Joint Accessories for A-Series Cabinets

Application

For A-series cabinets joint when required Material: SPCC Metal



ASAJ - Joint for ASN series cabinets
4 bay kits for each 2 cabinets



ADAJ - Joint for ADN series cabinets
4 bay kits for each 2 cabinets

Faster.
Easier.
Better.

AWD Series

Wall Mount Double Section Cabinets with Removable Side Panels



AWD Series, Wall Mount Cabinets

Features

- Welded steel frame with a maximum load capacity of 30kg
- The range from 06RU to 22RU wall mount cabinet
- The cabinet has fully glass door in standard
- Removable side panels provide easy side access
- Top and bottom knockouts for cable entry
- The hinge system allows the door to open over 180°
- Lockable front door and rear section prevent unauthorized access to the cabinet
- Steel with durable powder coat finish
- Pre-assembled packaging to save field installation time

Applications

Ideal for a wide range of applications in Telecommunications, Networking and Industrial automation factory from small IT installs to collocation.

Standards

- EIA/ECA-310-E
- IEC 60297-2
- DIN 41494 part 1 and part 7

AWD Series Cabinets

Belden Part Number	Description	Package
AWD066055GFBAA	6U, 600(W)*550(D), Glass door, Double section wall mount cabinets, Black	Assembled
AWD096055GFBAA	9U, 600(W)*550(D), Glass door, Double section wall mount cabinets, Black	Assembled
AWD126055GFBAA	12U, 600(W)*550(D), Glass door, Double section wall mount cabinets, Black	Assembled
AWD156055GFBAA	15U, 600(W)*550(D), Glass door, Double section wall mount cabinets, Black	Assembled
AWD186055GFBAA	18U, 600(W)*550(D), Glass door, Double section wall mount cabinets, Black	Assembled
AWD226055GFBAA	22U, 600(W)*550(D), Glass door, Double section wall mount cabinets, Black	Assembled

AWR Series

Wall Mount Single Section Cabinets with Removable Side Panels

Features

- Welded steel frame with a maximum load capacity of 60kg
- The range from 06RU to 22RU wall mount cabinet
- The cabinet has fully glass door in standard
- Removable side panels provide easy side access
- Top and bottom knockouts for cable entry
- The hinge system allows the door to open over 180°
- Lockable front door to prevent unauthorized access to the cabinet
- Steel with durable powder coat finish
- Pre-assembled packaging to save field installation time

Applications

Ideal for a wide range of applications in Telecommunications, Networking and Industrial automation factory from small IT installs to collocation

Standards

- EIA/ECA-310-E
- IEC 60297-2
- DIN 41494 part 1 and part 7



AWR Series, Wall Mount Cabinets

AWR Series Cabinets

Belden Part Number	Description	Package
AWR066045GFBAA	6U, 600(W)*450(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR066060GFBAA	6U, 600(W)*600(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR096045GFBAA	9U, 600(W)*450(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR096060GFBAA	9U, 600(W)*600(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR126045GFBAA	12U, 600(W)*450(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR126060GFBAA	12U, 600(W)*600(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR156045GFBAA	15U, 600(W)*450(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR156060GFBAA	15U, 600(W)*600(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR186045GFBAA	18U, 600(W)*450(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR186060GFBAA	18U, 600(W)*600(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR226045GFBAA	22U, 600(W)*450(D), Glass door, Single section wall mount cabinets, Black	Assembled
AWR226060GFBAA	22U, 600(W)*600(D), Glass door, Single section wall mount cabinets, Black	Assembled

Faster.
Easier.
Better.

PDU



PDU

Features

- High Durability: $\geq 5,000$ cycles
- Wide Temperature Range
Operation Temperature: $-10 - 45^{\circ}\text{C}$
Storage Temperature: $-10 - 45^{\circ}\text{C}$
- Max. Input Current per Phase: 32A
- Max. Input Power: 18.4kW
- Receptacle Type: IEC C13:10A & IEC C19:16A
- Input Plug Form with IEC C14(10A) & C20(16A)
- Surge Protection Device (SPD), Overload Protection (Air Switch), On/off Switch on request
- Pre-assembled packaging to save field installation time
- Highly customizable to meet most applications
- RoHS Compliant

Applications

Belden in-cabinet mounted basic Power Distribution Units (PDUs) distribute power to mission critical computing and networking equipment. Basic PDU's range covers multiple power configurations such as for inputs (Single or Three phase) and receptacles (C13, C19)

Standards

- IEC 60950
- IEC 60320
- IEC 60309

PDU

Parts#	Description	Quantity	Color
PDUA-B6AA0800000	Basic Power Distribution Unit, 230V, 10A, 2.3kW , Single Phase, 8xC13, 1U Horizontal, China standard plug(3pin,10A)	1	Black
PDUA-B1AA0800000	Basic Power Distribution Unit, 230V, 16A, 3.6kW , Single Phase, 8xC13, 1U Horizontal, IEC 60309 2P+E plug(IP44)	1	Black
PDUA-B1AB0800000	Basic Power Distribution Unit, 230V, 16A, 3.6kW , Single Phase, 8xC19, 1U Horizontal, IEC 60309 2P+E plug(IP44)	1	Black
PDUA-B2BA18B0600	Basic Power Distribution Unit, 230V, 32A, 7.3kW , Single Phase, 18xC13 & 6xC19, Vertical, IEC 60309 2P+E plug(IP44)	1	Black
PDUA-B3CA18B0600	Basic Power Distribution Unit, 230/400V, 16A, 9.2kW , Three Phase, 18xC13 & 6xC19, Vertical, IEC 60309 3P+N+E plug(IP44)	1	Black
PDUA-B3CA30B0600	Basic Power Distribution Unit, 230/400V, 16A, 9.2kW , Three Phase, 30xC13 & 6xC19, Vertical, IEC 60309 3P+N+E plug(IP44)	1	Black
PDUA-B4DA18B0600	Basic Power Distribution Unit, 230/400V, 32A, 18.4kW , Three Phase, 18xC13 & 6xC19, Vertical, IEC 60309 3P+N+E plug(IP44)	1	Black
PDUA-B4DA30B0600	Basic Power Distribution Unit, 230/400V, 32A, 18.4kW , Three Phase, 30xC13 & 6xC19, Vertical, IEC 60309 3P+N+E plug(IP44)	1	Black

Notes

- Surge Protection Device (SPD), Overload Protection (Air Switch), On/Off Switch will be upon Request
- Standard cord length is 3 meter
- PDU brackets are required when installed. ASAPDUB for ASN series cabinets and ADAPDUB for ADN series cabinets

DCX System Optical Distribution Frame

Handle high amounts of fibers cable, and add density to fiber frames without compromising on ease-of-use, with the new DCX Optical Distribution Frame, which features innovations like slide-out cassette trays, complete bend radius protection and multiple frame and cabinet vonfiguration options. This solution optimizes and futreproofs the ROI of fiber infrastructure, ensuring the ability to support ever-increasing data center bandwidths, IP migration and new types of technology requiring more fiber connection.



Scalable

Cable Management to support a potentially unlimited number of fiber connection

Customizable

Side-by-side, back-to-back and left or right configurations

High Density

4608 fibers per frame; up to 55% higher density without compromising ease-of-use

Modular

Migrate from Base-12 to Base-8/16/24 without changing housings

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