BELDEN
SENDING ALL THE RIGHT SIGNALS

15 Commercial Networking – Copper

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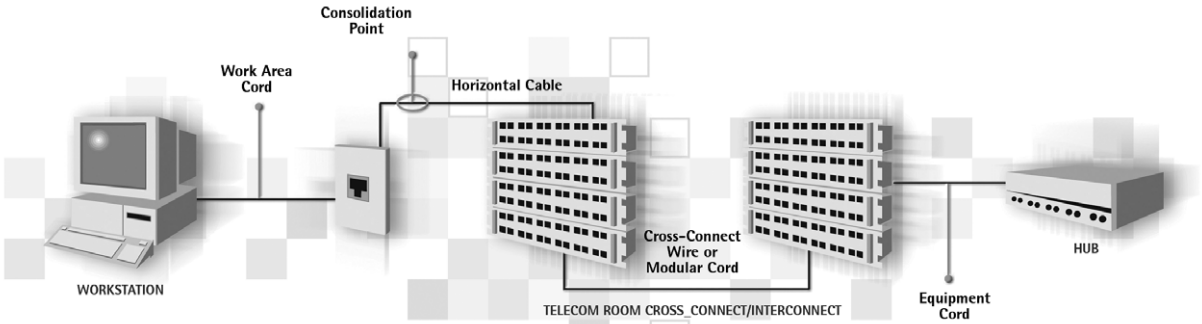
Introduction

Belden IBDN Networking Components and Systems Overview



The System: Workstation through Hub

Cables that Communicate

Each of the copper cabling components depicted on the following pages is vital to the overall performance of the network, but to achieve optimum network performance you should consider Belden IBDN end-to-end structured cabling systems. Belden IBDN copper structured cabling systems are recognized the world over for their high quality since they are the result of both Belden's exceptional design and manufacturing expertise and the system's ability to outperform the standards.

The Revolutionary Belden IBDN System 10GX (Cat. 6a | 10 Gb/s | 625 MHz)

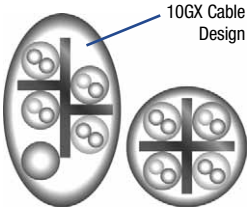
What differentiates our 10GX system from other 10 Gigabit ethernet offerings? The Belden IBDN system 10GX is not an improved or boosted category 6 system, but a revolutionary innovation designed around a series of dynamic enabling technologies. Because the 10GX system solves two major performance issues: (1) a reduction in alien crosstalk to about 15 dB, or 30 times lower than the alien NEXT for 1000BASE-T at a distance of 100 meters, and (2) the system's ability to control insertion loss, return loss, NEXT, PSNEXT, Alien PSNEXT, ELFEXT, PSELFEXT and alien PSFEXT characteristics during high frequency operation – it not only meets the high speed, high bandwidth demands of today's networks, but this advanced solution is ready to meet the challenges of the networks of tomorrow.

System 10GX Performance-Enabling Technologies

The performance of each critical component of the 10GX solution has been optimized through use of the following performance-enabling technologies:

- The system's cable is based upon an innovative SpiralFleX™ design that serves to reduce Alien crosstalk by randomizing the distance between the cables.
- A patent pending IDC design and patch panel circuit layout called MatriX IDC™ technology is utilized to substantially eliminate the issue of Alien crosstalk between the system's modules.
- X-Bar™ technology: The X-Bar is a control device that enables the accurate positioning of each UTP pair before the pair is terminated on the 10GX module's IDC pins.
- A patent pending FleXPoint PCB (printed circuit board) is used within the module housing to position the compensation circuitry directly at the plug's point of contact. Instant compensation delivers excellent crosstalk performance up to 625 MHz!

10GX Cable Design Improves Alien Crosstalk



The major technical challenge for traditional UTP cables resides with the electromagnetic coupling between a cable and its neighboring cables. This coupling is typically enhanced by the fact that all the cable pairs have the same twisting lay and therefore have the same resonance frequencies. Belden's use of SpiralFleX technology introduces randomization in the cable in two ways: (1) it induces with neighboring cables – to accomplish this, a filler is twisted around the four cable pairs – and, (2) to create additional randomization along the full length of the cable, a unique internal cross-web is incorporated into the cable design.

Since these features both increase and randomize the distance between a cable and its neighboring cables, both the ANEXT coupling and RL channel characteristics of the cable are improved. In fact, 10GX Cables were tested in a worst-case scenario – a six-around-one cable environment – and still exhibited performance well over proposed standards. In addition, this unique 10GX Cable design is more flexible and installer-friendly than other 10G cables.

Statistically Controlled Modular Cord Manufacturing

To achieve consistent high performance, Belden uses a statistical process control methodology in its modular cord manufacturing process. This assures perfect tuning between the module and the modular cord and offers improved channel performance. The design of the 10GX modular cord is also based upon a patent pending plug management design that controls dNEXT and delivers extended channel performance.

Introduction
(continued)

10GX IDC Design Cancels Out Alien Crosstalk

Traditional Technology

The IDC is one of the most sensitive areas for alien crosstalk management. In traditional designs, all of the IDC contacts are aligned so they become perfect antennas, allowing adjacent pairs to both emit and receive noise.

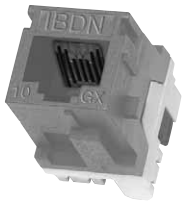
Belden's patent-pending design, called MatriX IDC technology, positions each IDC at 90 degrees to its neighbor – effectively canceling out ANEXT by 15 dB as compared with traditional technology!

MatriX IDC technology

10GX Module Eliminates Signal Degradation

Traditional jack designs are performance handicapped at high frequencies because of an inherent crosstalk in the plug that cannot be fully compensated for by the jack. This crosstalk occurs because the compensation circuitry is located at some physical distance from the source of the noise, which is at the plug interface. Even a very small physical distance can have a major impact at high frequencies.

The 10GX modules feature FleXPoint PCB technology. This technology incorporates the use of a flexible PCB that allows the compensation circuitry to be located directly at the point of the plug contact. This reduces the delay between the source of the crosstalk in the plug and the crosstalk cancellation circuitry on the PCB. As a result the crosstalk noise at high frequencies is dramatically reduced for outstanding channel performance to 625 MHz!



FleXPoint PCB Technology

Error-Free Termination Practices – Installable Performance®

Since structured cabling systems for Category 6 and beyond are extremely sensitive to installation practices, the 10GX system mitigates and simplifies installation issues to ensure overall 10G system performance. To ensure optimum termination of the cable to the module, a new patent-pending technology called the X-Bar was developed. The X-Bar is a plastic device that affixes to the module to ensure that each UTP pair is consistently positioned for termination on the 10GX module's IDC pins. The X-Bar also controls the amount of unjacketed cable, plus it maintains the conductor twist lays during installation to prevent untwisting. With this consistent termination feature, the superior NEXT and ANEXT performance achieved through use of the system's innovative component designs will be maintained and remain stable throughout the installation process. We call this after-installation assurance installable performance.

FleXPoint PCB Technology

The 10GX Patch Panel with 10GX Modules

Alien crosstalk control within a patch panel is critical to the success of the system. The high density environment of a patch panel can be subjected to crippling amounts of alien crosstalk. The unique design of the 10GX module's IDC, and its ability to cancel the "antenna" effect between modules eliminates the Alien crosstalk issue. Because superior ANEXT performance is assured by the module-related technologies, this allows the patch panel ports to be in line. There is no need to compromise on density, and labeling and cable management features are greatly improved. In fact, the module technology is so powerful, Belden is the only manufacturer to be able to offer an ultra high-density solution with 48 ports in a 1U space!

Belden IBDN Category 5e/Enhanced Category 6 Components and Systems

Belden IBDN Cat. 5e, Cat. 6 and beyond Cat. 6 systems can be designed and installed using either Bonded-Pair UTP cables or non-bonded-pair UTP cables. Both types of cable offer performance well beyond the standards. Bonded-Pair UTP cables – DataTwist® 350, MediaTwist® and DataTwist® 600e – feature a patented design that bonds the individual insulated conductors of each pair along the full length of the cable. This bonded construction delivers installable performance. That is, bonded-pair cables are consistent in the distance between the conductors and in the amount of twist, throughout the installation process, so they deliver the same, superior electrical performance both before and after the cable's installation.

Our non-bonded-pair family of cables include GigaFlex® 1200, 2400 and 4800LX cables. These cables incorporate a patented design which provides complete quality control during the manufacturing process. This allows us to provide high quality cables that consistently offer improved channel performance and large margins over the standards. These cables will provide the capacity and performance to maximize your overall network performance.

Belden IBDN punch-down GigaFlex modules are based on a patented encapsulated lead frame technology that ensures long-term reliability, as well as extremely stable transmission performance. Lead frame technology is inherently more reliable than traditional connector technologies as it uses a single, uninterrupted copper contact path through the connector. The design of the GigaFlex module allows signals to pass virtually unchanged through the connector, providing greater system performance.

GigaBIX® distribution connectors, featuring Belden's BIX technology, are a uniquely designed solution centered around an extremely compact connector equipped with double-sided Insulation displacement connection (IDC) clips. The benefit of this unique design is a considerable reduction in the space that would be required by conventional connecting systems of the same pair count. The density of BIX technology is second to none, allowing up to three hundred pairs to be terminated in a very small area – a real space saver, especially in today's office environment where real estate is at a premium.

Belden IBDN System 1200 (Cat. 5e | 1.2 Gb/s | 160 MHz)

If your business is riding the current wave of growth and expansion, you may be considering new ways of doing business and a new or upgraded IT system to support these new strategies. This is the ideal time to plan and implement a new cabling system or to upgrade your existing infrastructure.

This Category 5e system was developed to support high-speed network applications such as Gigabit ethernet and provides clear bandwidth up to 160 MHz; an increase of 60% over the Category 5e standard of 100 MHz. Standards organizations such as TIA/EIA and IEEE now recommend Category 5e cabling systems for all new cabling installations.

Introduction
(continued)

Belden IBDN System 2400 (Cat. 6 | 2.4 Gb/s | 250 MHz)

If leading-edge communication systems are an element of your competitive strategy and if you consider information technology as one of the drivers of your bottom line, you should consider the speed, reliability and performance advantages of this system.

This Category 6 system meets or exceeds all requirements of the TIA/EIA Category 6 standard specifications and delivers 250 MHz bandwidth, a 25% increase over the 200 MHz bandwidth of typical Category 6 compliant channels. The Belden IBDN system 2400 provides the performance, throughput and reliability necessary to keep your critical applications operating at peak performance.

Belden IBDN System 4800LX (Beyond Cat. 6 | 4.8 Gb/s | 300 MHz)

If every bit of information that your company processes is mission critical, you need the performance and reliability that is built into the Belden IBDN system 4800LX.

This enhanced Category 6 system was conceived to support the most demanding, ultra-high speed and multi-Gigabit protocols, providing blistering performance.

The Belden IBDN system 4800LX is the industry's first 300 MHz system, far exceeding all TIA/EIA Category 6 specifications.

Solutions			Backbone Cable†		Telecom Room
Available Channel Bandwidth	Guaranteed Data Rate	UTP Channel STD Compliance	4-Pair Cables	Page	Cross-Connect Hardware
Belden IBDN System 1200					
160 MHz PowerSum	1.2 Gb/s	Cat. 5e* TIA/EIA ISO/IEC IEEE Gigabit	DataTwist® 350 1700R (CMR) DataTwist® 350 1700E (PVC) DataTwist® 350 1700ENH (LSNH) see Plenum: 1701A and 1701LC GigaFlex 1212 (CMR) GigaFlex 1213 (CMP) GigaFlex 1224 (LSOH)	15.49 15.49 15.49 15.50 15.50 15.50	GigaBIX® Cross-Connect System PS5E BIX Patch Panel PS5E HD-BIX Patch Panel PS5E HD-110 Patch Panel Flex Patch Panel/EZ-MDVO PS5E Module Flex Patch Panel/GigaFlex PS5E Module 110 Cross-Connect System
Belden IBDN System 2400					
250 MHz PowerSum	2.4 Gb/s	Cat. 6** TIA/EIA ISO/IEC IEEE Gigabit	7812E (PVC) 7812ENH (LSNH) GigaFlex 2412 (CMR) GigaFlex 2413 (CMP) GigaFlex 2424 (LSOH)	15.46 15.46 15.47 15.47 15.47	GigaBIX Cross-Connect System GigaFlex PS6+ Patch Panel Flex Patch Panel/GigaFlex PS6+ Module
Belden IBDN System 4800LX					
300 MHz PowerSum	4.8 Gb/s	Beyond Cat6®** TIA/EIA ISO/IEC IEEE Gigabit	DataTwist® 600e 7851A (CMR) DataTwist® 600e 7852A (CMP) DataTwist® 600e 7851NH (LSNH) GigaFlex 4812LX (CMR) GigaFlex 4813LX (CMP) GigaFlex 4824LX (LSOH)	15.44 15.44 15.44 15.45 15.45 15.45	GigaBIX Cross-Connect System GigaFlex PS6+ Patch Panel Flex Patch Panel/GigaFlex PS6+ Module
Belden IBDN System 10GX					
625 MHz	10 Gb/s	Beyond 10G Proposed TIA ISO/IEC IEEE 10 Gigabit	10GX 10GX12 (CMR, Non-bonded-Pair) 10GX 10GX13 (CMP, Non-bonded-Pair) 10GX 10GX24 (LSZH, Non-bonded-Pair) 10GX 10GX16 (LC, Non-bonded-Pair) 10GX 10GX32 (CMR, Bonded-Pair) 10GX 10GX44 (LSZH, Bonded-Pair) 10GX 10GX66 (LC, Bonded-Pair)	15.8 15.8 15.8 15.8 15.8 15.8 15.8	10GX Ultra High-Density Patch Panel (1U, 48 ports) 10GX Patch Panel Flex Patch Panel/10GX Module

* ANSI/TIA/EIA-568-B.1, ISO/IEC 11801 2nd Edition and IEEE 802.3ab. • ** ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd Edition and IEEE 802.3ab.
† Backbone can be configured with Belden IBDN Fiber*Express* Optical Fiber Cable.
Installable Performance guarantees are available on Bonded-Pair cables. Since the insulated conductors of the pairs are bonded along their longitudinal axes, Bonded-Pair cables remain intact during the installation process, so there is no separation of pair conductors and no degradation of the cables' electrical characteristics.

Introduction
(continued)

Quality Installation and Service

Belden IBDN systems are designed, installed and field-tested by full trained and certified system contractors and integrators to further assure superior systems performance. They are also backed by a strict system certification and warranty program.

System Certification and Warranty Program

The Belden IBDN certification program is a rigorous process that ensures that your Belden IBDN 'certified' system is composed of Belden IBDN components, and that it has been designed and installed by a factory-trained certified system vendor. Belden IBDN 'certified' systems are supported by a series of warranties that surpass conventional product warranties.

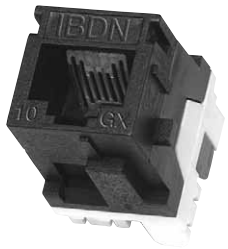
Certification adds important end-to-end system performance guarantees and ensures full compliance with cabling industry standard specifications – even after system installation (installable performance). A 25-year product warranty and a lifetime application assurance program accompany each Belden IBDN 'certified' system installation. These warranty programs include coverage for both parts and labor.

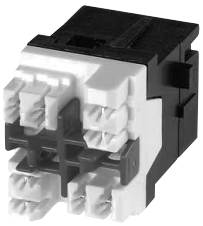
	Horizontal Cable			Work Area	
Cross-Connect Patch System	4-Pair Cables	Page	Installable Performance®††	Outlets — Connectors, Faceplates & Adapters	Modular Cords
GigaBIX Cross-Connect Wire	DataTwist® 350 1700R (CMR)	15.49	●	PS5E BIX DVO Outlet	GigaFlex Cords
	DataTwist® 350 1700E (PVC)	15.49		PS5E	
	DataTwist® 350 1700ENH (LSNH)	15.49		Modular	
GigaBIX Patch Cords	see Plenum: 1701A and 1701LC			EZ-MDVO PS5E Module	
GigaFlex PS5E Modular Cords	GigaFlex 1212 (CMR)	15.50		GigaFlex PS5E Module	
	GigaFlex 1213 (CMP)	15.50		MediaFlex Outlets	
	GigaFlex 1224 (LSOH)	15.50		Interface Plates	
				MDVO Faceplates	
				MDVO Adapters	
				European-style Faceplates	
PS5E 110 Patch Cords				French-style Faceplates	
GigaBIX Cross-Connect Wire	7812E (PVC)	15.46	●	GigaFlex PS6+ Module	GigaFlex PS6+ Modular Cords
GigaBIX PS6+ Patch Cords	7812ENH (LSNH)	15.46	●	MediaFlex Outlets	
	GigaFlex 2412 (CMR)	15.47		Interface Plates	
GigaFlex PS6+ Modular Cords	GigaFlex 2413 (CMP)	15.47		MDVO Faceplates	
	GigaFlex 2424 (LSOH)	15.47		MDVO Adapters	
				European-style Faceplates	
				French-style Faceplates	
GigaBIX Cross-Connect Wire	DataTwist® 600e 7851A (CMR)	15.44	●	GigaFlex PS6+ Module	GigaFlex PS6+ Modular Cords
GigaBIX PS6+ Patch Cords	DataTwist® 600e 7852A (CMP)	15.44	●	MediaFlex Outlets	
	DataTwist® 600e 7851NH (LSNH)	15.44			
	GigaFlex 4812LX (CMR)	15.45		Interface Plates	
GigaFlex PS6+ Modular Cords	GigaFlex 4813LX (CMP)	15.45		MDVO Faceplates	
	GigaFlex 4824LX (LSOH)	15.45		MDVO Adapters	
				European-style Faceplates	
				French-style Faceplates	
10GX Modular Cords	10GX 10GX12 (CMR, Non-bonded-Pair)	15.8		10GX Module	10GX Modular Cords
	10GX 10GX13 (CMP, Non-bonded-Pair)	15.8		MediaFlex Outlets	
	10GX 10GX24 (LSZH, Non-bonded-Pair)	15.8		Interface Plates	
	10GX 10GX16 (LC, Non-bonded-Pair)	15.8		MDVO Faceplates	
	10GX 10GX32 (CMR, Bonded-Pair)	15.8	●	MDVO Adapters	
	10GX 10GX33 (CMP, Bonded-Pair)	15.8	●		
	10GX 10GX44 (LSZH, Bonded-Pair)	15.8	●		
	10GX 10GX66 (LC, Bonded-Pair)	15.8	●		

Belden IBDN System 10GX

10GX Modules and 10GX Patch Panels

AX102272 10GX Module, Black





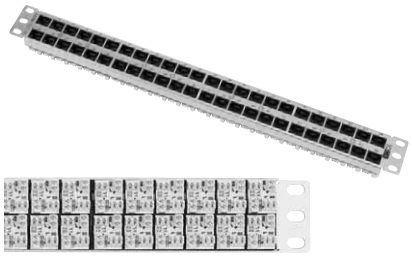
10GX Module

The 10GX module is a revolutionary punch down UTP connector designed to be used within the new Belden IBDN system 10GX. In order to achieve true 10G performance, Belden has designed the 10GX module based on three revolutionary module technologies making the 10GX module the most advanced 10G module available. It is designed to work in existing hardware including the Flex modular patch panel and MediaFlex outlet series. It can also be mixed and matched with a wide variety of adapters and boxes to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications closet applications. The unmatched Beyond 10G™ performance exceeds all parameters specified in the proposed augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, insertion loss and return loss have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Belden IBDN System 10GX		
10GX Module, Augmented Category 6		
MDVO-Style, T568A/B, Grey	**AX102269**	**AX102280**
MDVO-Style, T568A/B, White	**AX102271**	**AX102282**
MDVO-Style, T568A/B, Black	**AX102272**	**AX102283**
MDVO-Style, T568A/B, Red	**AX102274**	**AX102285**
MDVO-Style, T568A/B, Yellow	**AX102275**	**AX102286**
MDVO-Style, T568A/B, Green	**AX102276**	**AX102287**
MDVO-Style, T568A/B, Blue	**AX102277**	**AX102288**
MDVO-Style, T568A/B, Ivory	**AX102562**	**AX102281**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

AX102488 10GX Ultra High-Density Patch Panel 1U, 48-port, Titanium



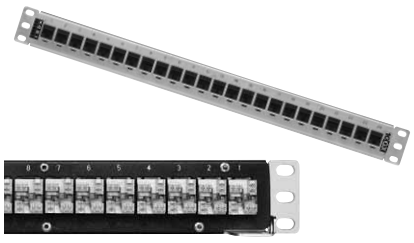
10GX Patch Panel

The 10GX patch panel is a fully loaded patch panel designed to be used within the Belden IBDN system 10GX. The 10GX patch panel features the revolutionary 10GX module, specifically designed to meet the difficult challenges of 10 Gb/s transmission. 10GX 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 module has allowed Belden to also support an ultra high-density option offering the 10GX ultra high-density patch panel supporting 48 ports in 1U. The unmatched beyond 10G™ performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, insertion loss and return loss have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number
Belden IBDN System 10GX	
10GX Ultra High-Density Patch Panel, Augmented Category 6	
1U, 48-port, Titanium	**AX102488**
10GX Patch Panel, Augmented Category 6	
1U, 24-port, Titanium	**AX102293**
2U, 48-port, Titanium	**AX102296**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

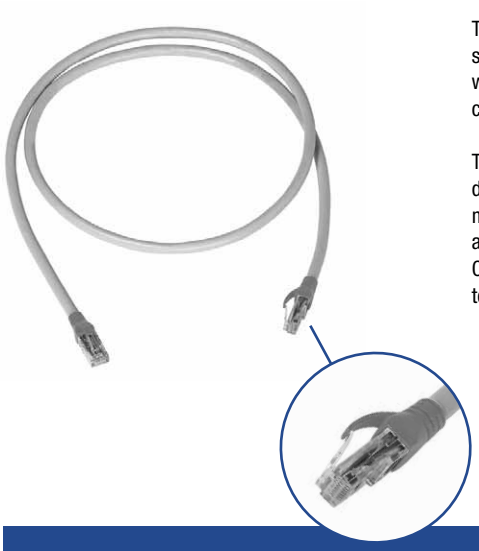
AX102293 10GX Patch Panel 1U, 24-port, Titanium



Belden IBDN System 10GX

10GX Modular Cords

AX360015 10GX Modular Cord, Blue



10GX Modular Cords

The 10GX modular cords are 4-pair 23 AWG UTP modular cords designed to be used within the Belden IBDN system 10GX. Belden has designed the 10GX modular cord based on a patent pending management bar design which allows for very good control of the internal plug NEXT. The patch cable design offers very good Alien crosstalk performance, while maintaining the important mechanical characteristics such as flexibility.

The 10GX modular cords' design, with a very small footprint, makes them fully compatible with the highest density hubs that utilize RJ45 jack connections. The 10GX modular cords are available in pantone colors that match the colors per the TIA/EIA-606 standard and the product line encompasses CMR modular cords, as well as open-ended cords. The unmatched performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 10GX						
10GX Modular Cord, 4-Pair, 23 AWG Solid, T568A/B - T568A/B, CMR						
2.1 m (7 ft.)	AX360015	AX360051	AX360027	AX360021	AX360045	AX360057
3.0 m (10 ft.)	AX360016	AX360052	AX360028	AX360022	AX360046	AX360058
4.6 m (15 ft.)	AX360017	AX360053	AX360029	AX360023	AX360047	AX360059
7.6 m (25 ft.)	AX360018	AX360054	AX360030	AX360024	AX360048	AX360060
10GX Pigtail, 4-Pair, 23 AWG Solid, T568A - Open, CMR						
4.6 m (15 ft.)	–	–	AX360265	–	–	–
7.6 m (25 ft.)	–	–	AX360266	–	–	–
10.6 m (35 ft.)	–	–	AX360267	–	–	–
15.0 m (50 ft.)	–	–	AX360268	–	–	–
10GX Pigtail, 4-Pair, 23 AWG Solid, T568B - Open, CMR						
4.6 m (15 ft.)	–	–	AX360269	–	–	–
7.6 m (25 ft.)	–	–	AX360270	–	–	–
10.6 m (35 ft.)	–	–	AX360271	–	–	–
15.0 m (50 ft.)	–	–	AX360272	–	–	–

These products are in the process of being assessed for Gb/s compliance. Please check our website for the most current RoHS status.

Belden IBDN System 10GX

10GX Cables

24826395 10GX Cable Series, White

10GX Cable

The 10GX cables are 4-pair 23 AWG UTP cables designed to be used within the Belden IBDN system 10GX. The GX cable incorporates the use of patent pending SpiralFleX™ technology, which improves the ANEXT coupling by increasing and randomizing the distance between a cable and the neighboring cables surrounding it. The unmatched beyond 10G™ performance exceeds all parameters specified in the proposed augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee channel transmission performance up to 625 MHz. The 10GX cable series is very complete with cable available with bonded-pairs and non-bonded-pairs, and is available in plenum, non-plenum, and limited combustible versions.

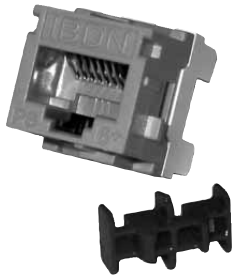
Description	Belden Part Number
10GX Cable, Bonded-Pairs	
10GX Cable, CMR	
10GX32 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White	**24826395**
10GX32 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Blue	**24826995**
10GX Cable, CMP	
10GX33 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White	**24827395**
10GX33 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Blue	**24827995**
10GX Cable, LSZH	
10GX44 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Purple	**24828095**
10GX Cable, Limited Combustible	
10GX66 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White*	**24822395**
10GX Cable, Non-Bonded-Pairs	
10GX Cable, CMR	
10GX12 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White	**24816395**
10GX12 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Blue	**24816995**
10GX Cable, CMP	
10GX13 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White	**24817395**
10GX13 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Blue	**24817995**
10GX Cable, LSZH	
10GX24 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Purple	**24818095**
10GX Cable, Limited Combustible	
10GX16 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White*	**24812395**

* DuPont™ certified limited combustible cable

Belden IBDN System 4800LX

Beyond Category 6, 4.8 Gb/s – 300 MHz

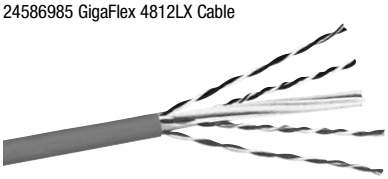
AX101067 GigaFlex PS6+ Module



AX101613 GigaFlex PS6+ Patch Panel

AX350061 GigaFlex PS6+ Modular Cord

24586985 GigaFlex 4812LX Cable



This systems overview page is intended to give you a basic list of the main components used in the system. For a more complete listing of product options and for more detailed product information, see the individual catalog pages listed in this section.

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

System 4800LX

The Belden IBDN system 4800LX combines the power and performance of our PS6 connectivity products with our break-through series 4800LX UTP cables to provide industry's first true end-to-end 300 MHz cabling system.

Systems components include: GigaFlex 4800LX unbonded-pair UTP Cables, DataTwist® 600e bonded-pair UTP cables, GigaBIX cross-connect systems, PS6+ patch panels (including fully loaded and modular versions) and related patch cords, outlets, modules, faceplates and adapters.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Belden IBDN System 4800LX, Modules*		
GigaFlex PS6+ Module		
T568A/B, White	**AX101065**	**AX101320**
T568A/B, Black	**AX101066**	**AX101321**

* See page 15.27 for a more complete listing of products and for more detailed product information.

Description	Belden Part Number
Belden IBDN System 4800LX, Patch Panels*	
GigaFlex PS6+ Patch Panel	
GigaFlex PS6+ Patch Panel, 1U, 24-port, Black, loaded	**AX101611**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Black, loaded	**AX101613**
Flex Patch Panel, 1U, 24-port, Black, unloaded	**AX101571**
Flex Patch Panel, 2U, 48-port, Black, unloaded	**AX101458**

* See page 15.25 for a more complete listing of products and for more detailed product information.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 4800LX, Modular Cords*						
GigaFlex PS6+ Modular Cord, LSZH 4-pair, 23 AWG solid, T568B - T568B						
0.5 m (1.6 ft.)	**AX102356**	**AX102350**	**AX102392**	**AX102544**	**AX102550**	**AX102556**
1.0 m (3.3 ft.)	**AX102357**	**AX102351**	**AX102393**	**AX102545**	**AX102551**	**AX102557**
2.0 m (6.5 ft.)	**AX102358**	**AX102352**	**AX102394**	**AX102546**	**AX102552**	**AX102558**
3.0 m (10 ft.)	**AX102359**	**AX102353**	**AX102395**	**AX102547**	**AX102553**	**AX102559**
5.0 m (16.4 ft.)	**AX102360**	**AX102354**	**AX102396**	**AX102548**	**AX102554**	**AX102560**
10.0 m (33 ft.)	**AX102361**	**AX102355**	**AX102397**	**AX102549**	**AX102555**	**AX102561**

* See pages 15.38 – 15.39 for a more complete listing of products and for more detailed product information.

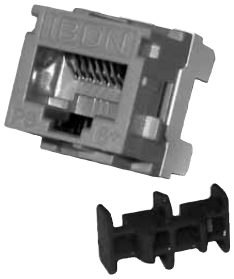
Description	Belden Part Number		
	Blue	White	Purple
Belden IBDN System 4800LX, Cables*			
Beyond Category 6			
GigaFlex 4812LX Cable, CMR, 23 AWG, 305 m Spool	**24586985**	**24586385**	**–**
GigaFlex 4813LX Cable, CMP, 23 AWG, 305 m Spool	**24587985**	**24587385**	**–**
GigaFlex 4824LX Cable, LSZH, 23 AWG, 305 m Spool	**–**	**–**	**24588085**
DataTwist 600e, CMR, 23 AWG, 305 m Reel	**7852A 0061000**	**7852A 0091000**	**–**
DataTwist 600e, CMP, 23 AWG, 305 m Reel	**7852A D151000**	**7852A 0091000**	**–**

* See pages 15.44 – 15.45 for a more complete listing of products and for more detailed product information.

Belden IBDN System 2400

Category 6, 2.4 Gb/s – 250 MHz

AX101067 GigaFlex PS6+ Module



AX101613 GigaFlex PS6+ Patch Panel

AX350061 GigaFlex PS6+ Modular Cord

24568015 GigaFlex 2424 Cable

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System 2400

The Belden IBDN system 2400 installations provide the additional throughput and enhanced error-free performance needed to support high-traffic and high-bit-rate applications. It delivers 250 MHz of user bandwidth as well as support for data rates up to 2.4 gigabits per second.
Systems components include: GigaFlex 2400 unbonded-pair UTP cables, MediaTwist® bonded-pair UTP cables, GigaBIX cross-connect systems, PS6+ patch panels (including fully loaded and modular versions) and related patch cords, outlets, modules, faceplates and adapters.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Belden IBDN System 2400, Modules*		
GigaFlex PS6+ Module		
T568A/B, White	**AX101065**	**AX101320**
T568A/B, Black	**AX101066**	**AX101321**

* See page 15.27 for a more complete listing of products and for more detailed product information.

Description	Belden Part Number
Belden IBDN System 2400, Patch Panels*	
GigaFlex PS6+ Patch Panel	
GigaFlex PS6+ Patch Panel, 1U, 24-port, Black, loaded	**AX101611**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Black, loaded	**AX101613**
Flex Patch Panel, 1U, 24-port, Black, unloaded	**AX101571**
Flex Patch Panel, 2U, 48-port, Black, unloaded	**AX101458**

* See page 15.25 for a more complete listing of products and for more detailed product information.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 2400, Modular Cords*						
GigaFlex PS6+ Modular Cord, LSZH 4-pair, 23 AWG solid, T568B - T568B						
0.5 m (1.6 ft.)	**AX102356**	**AX102350**	**AX102392**	**AX102544**	**AX102550**	**AX102556**
1.0 m (3.3 ft.)	**AX102357**	**AX102351**	**AX102393**	**AX102545**	**AX102551**	**AX102557**
2.0 m (6.5 ft.)	**AX102358**	**AX102352**	**AX102394**	**AX102546**	**AX102552**	**AX102558**
3.0 m (10 ft.)	**AX102359**	**AX102353**	**AX102395**	**AX102547**	**AX102553**	**AX102559**
5.0 m (16.4 ft.)	**AX102360**	**AX102354**	**AX102396**	**AX102548**	**AX102554**	**AX102560**
10.0 m (33 ft.)	**AX102361**	**AX102355**	**AX102397**	**AX102549**	**AX102555**	**AX102561**

* See pages 15.38 – 15.39 for a more complete listing of products and for more detailed product information.

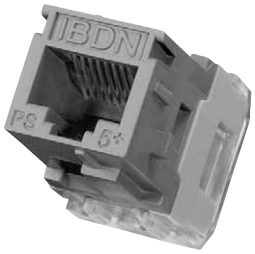
Description	Belden Part Number		
	Blue	White	Purple
Belden IBDN System 2400, Cables*			
Category 6			
GigaFlex 2412LX Cable, CMR, 24 AWG, 305 m box	**24566915**	**24566315**	–
GigaFlex 2413LX Cable, CMP, 24 AWG, 305 m box	**24567915**	**24567315**	–
GigaFlex 2424LX Cable, LSZH, 24 AWG, 305 m box	–	–	**24568015**
GigaFlex 2424LX Cable, LSZH, 24 AWG, 305 m reel	–	**24568315**	–
GigaFlex 2424LX Cable, LSZH, 24 AWG, 500 m reel	–	**24568331**	–
CMR, UTP Bonded-Pair, 23 AWG, 305 m box	**7812E.01U305**	–	–
LSNH, UTP Bonded-Pair, 23 AWG, 305 m box	**7812ENH.01U305**	–	–

* See pages 15.46 – 15.47 for a more complete listing of products and for more detailed product information.

Belden IBDN System 1200

Category 5e, 1.2 Gb/s – 160 MHz

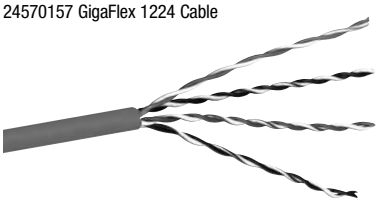
AX101046 GigaFlex PS5E Module



AX101571 Flex Patch Panel, Black

AX102344 GigaFlex PS5E Modular Cord

24570157 GigaFlex 1224 Cable



This systems overview page is intended to give you a basic list of the main components used in the system. For a more complete listing of product options and for more detailed product information, see the individual catalog pages listed in this section.

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System 1200

The Belden IBDN system 1200 installations provide the additional throughput and enhanced error-free performance needed to support high-traffic and high-bit-rate applications. It delivers 160 MHz of user bandwidth as well as support for data rates up to 1.2 gigabits per second.
Systems components include: GigaFlex 1200 unbonded-pair UTP cables, DataTwist® 350 bonded-pair UTP cables, GigaBIX and 110 cross-connect systems, PS5E patch panels (including high density and modular versions) and related patch cords, outlets, modules, faceplates and adapters.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Belden IBDN System 1200, Modules*		
GigaFlex PS5e Module		
T568A/B, White	**AX101046**	**AX101309**
T568A/B, Black	**AX101047**	**AX101310**

* See pages 15.28 – 15.29 for a more complete listing of products and for more detailed product information.

Description	Belden Part Number
Belden IBDN System 1200, Patch Panels*	
GigaFlex PS5e Patch Panel	
GigaFlex PS5e HD-110 Patch Panel, 1U, 24-port, Black, T568B, loaded	**AX100452**
GigaFlex PS5e HD-110 Patch Panel, 2U, 48-port, Black, T568B, loaded	**AX100454**
Flex Patch Panel, 1U, 24-port, Black, unloaded	**AX101571**
Flex Patch Panel, 2U, 48-port, Black, unloaded	**AX101458**

* See page 15.26 for a more complete listing of products and for more detailed product information.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 1200, Modular Cords*						
GigaFlex PS5e Modular Cord, LSZH 4-pair, 24 AWG stranded, T568B - T568B						
0.5 m (1.6 ft.)	**AX102344**	**AX102338**	**AX102386**	**AX102526**	**AX102532**	**AX102538**
1.0 m (3.3 ft.)	**AX102345**	**AX102339**	**AX102387**	**AX102527**	**AX102533**	**AX102539**
2.0 m (6.5 ft.)	**AX102346**	**AX102340**	**AX102388**	**AX102528**	**AX102534**	**AX102540**
3.0 m (10 ft.)	**AX102347**	**AX102341**	**AX102389**	**AX102529**	**AX102535**	**AX102541**
5.0 m (16.4 ft.)	**AX102348**	**AX102342**	**AX102390**	**AX102530**	**AX102536**	**AX102542**
10.0 m (33 ft.)	**AX102349**	**AX102343**	**AX102391**	**AX102531**	**AX102537**	**AX102543**

* See page 15.40 for a more complete listing of products and for more detailed product information.

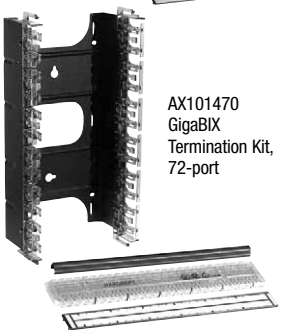
Description	Belden Part Number			
	Blue	White	Purple	Grey
Belden IBDN System 1200, Cables*				
Category 5e • 24 AWG • UTP, 4-pair				
GigaFlex 1212, CMR, 305 m Box	**24570161**	**24570166**	**–**	**–**
GigaFlex 1213, CMP, 305 m Box	**24570800**	**24570810**	**–**	**–**
GigaFlex 1224, LSZH, 305 m Box	**–**	**–**	**24570157**	**–**
GigaFlex 1224, LSZH, 305 m Reel	**–**	**24598301**	**–**	**–**
GigaFlex 1224, LSZH, 500 m Reel	**–**	**24598331**	**–**	**–**
DataTwist® 350, LSZH, 305 m Box	**–**	**–**	**–**	**1700ENH.004305**

* See pages 15.49 – 15.50 for a more complete listing of products and for more detailed product information.

GigaBIX Multi System

Termination Kits and Basic Components

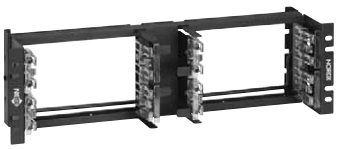
AX101985 GigaBIX Rack Mount Termination Kit, 48-port



AX101470
GigaBIX
Termination Kit,
72-port

AX101447 GigaBIX Connector,
6-port

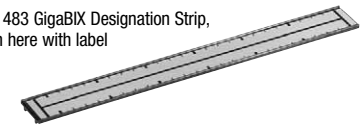
AX101986 GigaBIX Rack Mount Panel



AX101472
GigaBIX Mount

AX101486 GigaBIX Wire Guard

AX101483 GigaBIX Designation Strip,
shown here with label



AX101987 GigaBIX/MediaFlex Adapter

GigaBIX Termination Kits

The GigaBIX termination kits contains all components required to terminate cables in a GigaBIX cross-connect or interconnect system. The termination kits allow for the most cost-effective Category 6 cross-connect or interconnect installations using GigaBIX cross-connect wire or GigaBIX PS6+ patch cords. The GigaBIX mount is designed to accommodate high-performance cables. The GigaBIX connectors have color-coded edges, separation marks and a keying feature that prevents connector insertion in the wrong orientation. Each kit also contains wire guards, designation strips, designation labels, velcro ties and a detailed installation guide.

GigaBIX Connector

The GigaBIX connector is the core component of the GigaBIX multi system. Its symmetrical construction allows termination of high-performance cables on one side and GigaBIX cross-connect wires or GigaBIX patch cords on the other. Each GigaBIX connector is equipped with 50 double-ended Insulation Displacement Connection (IDC) clips for terminating plastic insulated solid copper conductors without stripping. The connector is built with two staggered rows of IDC clips enclosed in a three-layer construction of fire-retardant plastic wafers. The GigaBIX connectors have color-coded edges, separation marks and a keying feature that prevents connector insertion in the wrong orientation. The GigaBIX connector offers exceptional performance that goes beyond Category 6 which makes it the ideal choice for gigabit cabling networks.

GigaBIX Mount

The GigaBIX mount for wall installations holds 12 GigaBIX connectors and is designed to accommodate up to 144 high-performance cables when used in a top-to-bottom cross-connect layout.
The GigaBIX rack mount panel allows for customizing rack mount installations for data, voice or multimedia installations. This panel can accommodate up to 8 GigaBIX connectors, for a total of 48 terminations of 4-pair UTP cables, or up to 4 GigaBIX/MediaFlex adapters for a total of 48 multimedia ports.

GigaBIX Wire Guard

The GigaBIX wire guards are plastic strips that snap behind the GigaBIX connectors after termination to provide strain relief to the twisted pairs. They come as part of the GigaBIX termination kits and can also be ordered separately as replacement components.

GigaBIX Designation Strip

The GigaBIX designation strips are plastic strips that snap between the GigaBIX connectors to apply the designation labels. They come as part of the GigaBIX termination kits and can also be ordered separately as replacement components. (See the LabelFlex section for designation labels.)

GigaBIX/MediaFlex Adapter

The GigaBIX/MediaFlex adapter allows for mixed media installation within the expanded GigaBIX multi-family of connectivity. The GigaBIX/MediaFlex adapter can accommodate a variety of MediaFlex inserts including UTP and multimedia inserts to customize multimedia installation in telecommunications rooms, equipment rooms, or consolidation points (see page 15.30 for the accessories).

Description	Belden Part Number
GigaBIX Multi System	
Termination Kits	
GigaBIX Termination Kit, 72-port	**AX101470**
GigaBIX Termination Kit, 300-pair	**AX101471**
GigaBIX Rack Mount Termination Kit, 48-port	**AX101985**
Basic Components	
GigaBIX Connector, 6-port	**AX101447**
GigaBIX Connector, 25-pair	**AX101448**
GigaBIX Mount, 12-connector	**AX101472**
GigaBIX Rack Mount Panel, 48-port	**AX101986**
GigaBIX Wire Guard	**AX101486**
GigaBIX Designation Strip	**AX101483**
GigaBIX/MediaFlex Adapter	**AX101987**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

GigaBIX Multi System

Patch Cords and Cross-Connect Wire

AX101945 GigaBIX PS6+ Patch Cord, BIX-BIX, 1.2 m (4 ft.)

AX101951 GigaBIX PS6+ Patch Cord, BIX-8MOD, 1.2 m (4 ft.)

GigaBIX Patch Cords

GigaBIX patch cords allow for high-density connections, coupled with flexibility for cost-effective installation and administration. Plug-and-go installation and rearrangement of patch cords do not require any special tools or training. GigaBIX patch cords are available in two different configurations: BIX-BIX patch cord configurations for easy cross-connection between equipment and distribution fields, and BIX-8MOD patch cord configurations to easily interconnect equipment utilizing 8-position modular jacks directly into GigaBIX connectors in the distribution field.

The GigaBIX PS6+ patch cords are 4-pair 23 AWG UTP cords. They are used in GigaBIX multi system as part of a Belden IBDN system 2400 and system 4800LX, providing a channel bandwidth of 250 MHz and 300 MHz respectively.

The GigaBIX PS5E patch cords are used in the GigaBIX multi system as part of a Belden IBDN system 1200, providing outstanding channel bandwidth of 160 MHz.

Description	Belden Part Number		
	BIX-BIX	BIX-8MOD T568A-ISDN	BIX-8MOD T568B-ALT
GigaBIX Multi System			
PS6+ Patch Cords			
1.2 m (4 ft.)	**AX101945**	**AX101951**	**AX101957**
1.8 m (6 ft.)	**AX101946**	**AX101952**	**AX101958**
2.4 m (8 ft.)	**AX101947**	**AX101953**	**AX101959**
3.0 m (10 ft.)	**AX101948**	**AX101954**	**AX101960**
4.6 m (15 ft.)	**AX101949**	**AX101955**	**AX101961**
7.6 m (25 ft.)	**AX101950**	**AX101956**	**AX101962**
PS5E Patch Cords			
1.2 m (4 ft.)	**AX101963**	**AX101969**	**AX101975**
1.8 m (6 ft.)	**AX101964**	**AX101970**	**AX101976**
2.4 m (8 ft.)	**AX101965**	**AX101971**	**AX101977**
3.0 m (10 ft.)	**AX101966**	**AX101972**	**AX101978**
4.6 m (15 ft.)	**AX101967**	**AX101973**	**AX101979**
7.6 m (25 ft.)	**AX101968**	**AX101974**	**AX101980**

These products are in the process of being assessed for RoHS compliance.
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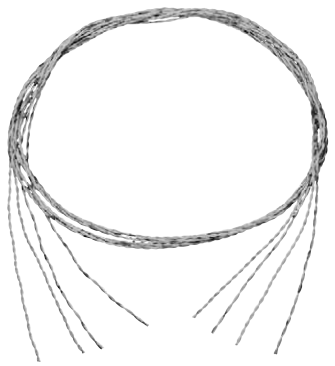
24570521 GigaBIX Cross-connect Wire, 4-pair



GigaBIX Cross-Connect Wire

GigaBIX cross-connect wire is intended for use between GigaBIX cross-connect fields in a telecommunications room or in a main cross-connect frame. Using GigaBIX cross-connect wire allows for very flexible and cost-effective installations. The cut-to-length jumper eliminates need for slack management and guarantees permanent installation aesthetics. The GigaBIX cross-connect wire offers transmission performance that goes beyond Category 6 providing additional margin to support Gigabit applications.

Color Code: White/Blue, White/Orange, White/Green, White/Brown

Description	Belden Part Number
GigaBIX Multi System	
Cross-Connect Wire	
4-pair, 305 m (1000 ft.), Spool	**24570521**
4-pair, 305 m (1000 ft.), Spool-in-Box	**24577B15**

These products are in the process of being assessed for RoHS compliance.
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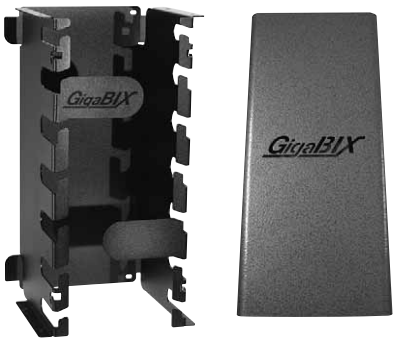
GigaBIX Multi System
Cable Management Accessories

AX102154 GigaBIX Color-Coded Clip

AX101469 GigaBIX
Cable Management Module

AX101468 GigaBIX Patch Cord Organizer
and AX101521 GigaBIX Patch Cord Organizer Cover



AX101520 GigaBIX
Horizontal Channel Plate

AX101478 GigaBIX
Management Ring

GigaBIX Colored Service Clips

The GigaBIX colored service clip is a single-pair plastic clip that snaps on the GigaBIX connectors to visually identify various services when using GigaBIX cross-connect wire.

GigaBIX Cable Management Module

The GigaBIX cable management module is designed to be used with a wall mount solution. The accessory allows all terminated cables to be brought from the same side (top or bottom) in a high-density GigaBIX installation (4-mount stack). The modules are stackable side-to-side and top-to-bottom with alignment features to ease installation. The modules can be used horizontally to create a horizontal management channel for more flexibility in a side-to-side patching layout using GigaBIX patch cords.

GigaBIX Patch Cord Organizer

The GigaBIX patch cord organizer is designed to be used with a wall mount solution. The patch cord organizer is a metal trough that interlocks with GigaBIX mounts to create a vertical management channel for GigaBIX patch cords. The patch cord organizer has six (6) openings per side to nicely dress the patch cords while clearing the labeling area on the GigaBIX mount. The organizer can be assembled over cable management modules in large patch cord installations. A patch cord organizer cover can be purchased separately to hide the patch cords and give a very professional and high-tech look to the installation.

GigaBIX Horizontal Channel Plate

GigaBIX horizontal channel plates are metal plates that attach to the patch cord organizers to create a horizontal management channel for GigaBIX patch cords. The plates are used in pairs and are designed to keep patch cords inside the horizontal channel.

GigaBIX Management Ring

The GigaBIX management ring is a plastic ring that interlocks with the GigaBIX mounts to create a high-density wall mount cross-connect system. The rings are assembled in systems when using cross-connect wire and have a capacity of 450 GigaBIX cross-connect wires (1800-pairs total).

Description	Belden Part Number
GigaBIX Multi System	
Cable Management Accessories	
GigaBIX Color-Coded Clip, Grey	**AX102146**
GigaBIX Color-Coded Clip, Almond	**AX102147**
GigaBIX Color-Coded Clip, White	**AX102148**
GigaBIX Color-Coded Clip, Black	**AX102149**
GigaBIX Color-Coded Clip, Orange	**AX102150**
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, Purple	**AX102155**
GigaBIX Color-Coded Clip, Brown	**AX102156**
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**

These products are in the process of being assessed for RoHS compliance.
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GigaBIX Multi System
Cable Management Accessories

GigaBIX Distribution Frame & Accessories

GigaBIX distribution frames provide a compact mounting unit for large cross-connect installations of data or voice services.

The GigaBIX distribution frame can accommodate up to (16) 12-connector GigaBIX mounts, eight on the equipment side and eight on the distribution side. The GigaBIX distribution frame has a capacity of 1152 ports or 4800 pairs. It is backwards compatible with BIX mounts (QMBIX12E) and can be used to continue a row of BIX distribution frames (QFBIX24E).

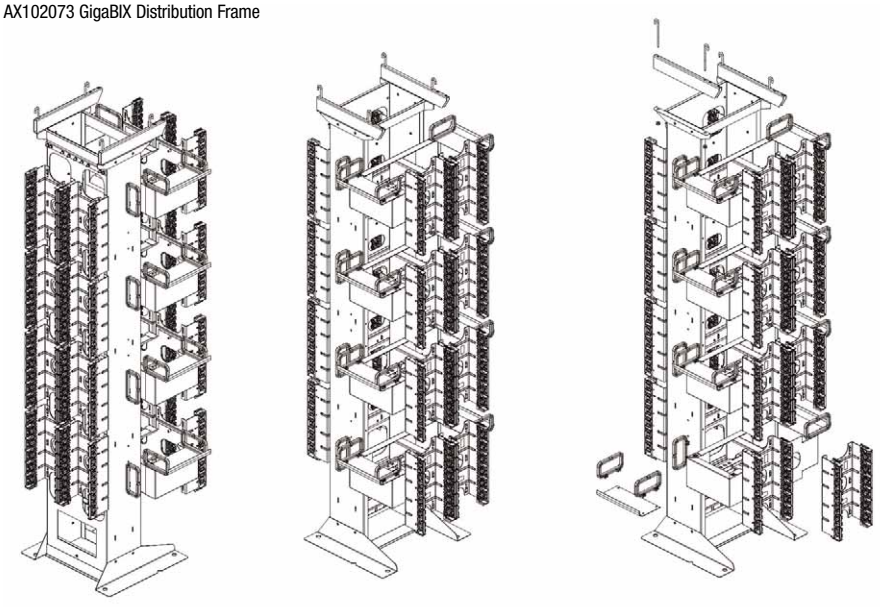
The GigaBIX frame end kit consists of eight (8) cable trays and eight (8) distribution rings plus appropriate mounting hardware. One kit is required to support GigaBIX cross-connect wires on the sides of a single-frame installation or on the end frames of a multi-frame installation.

The GigaBIX overhead kit consists of two (2) metal bars and four (4) "J" bolts plus appropriate mounting hardware to support cable ladder (not included) running over a row of GigaBIX distribution frames.

Description	Belden Part Number
GigaBIX Multi System	
Cable Management Accessories	
Distribution Frame, 1152-ports/4800-pairs	**AX102073**
Frame End Kit	**AX102082**
Frame Overhead Kit	**AX102145**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

AX102073 GigaBIX Distribution Frame



BIX Cross-Connect System

Distribution Connectors, Multiplying Connectors and Modular Jack Connectors

A0393146 QCBIX1A4 Connector

BIX Distribution Connector

The BIX distribution connector is a 25-pair connector. The connector's symmetrical construction allows termination of cables on one side and cross-connect jumper wires or BIX patch cords on the other. Each BIX connector is equipped with 50 double-ended Insulation Displacement Connection (IDC) clips for terminating plastic insulated solid copper conductors without stripping and pair splitters on each side of the connector facilitate wire insertion.

A0266827 QCBIX5A Multiplying Connector

BIX Multiplying Connector

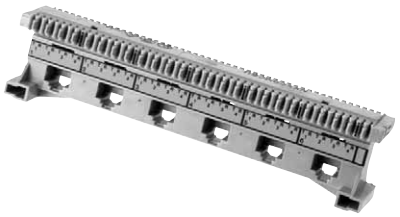
BIX multiplying connectors are used to generate multiple outputs from a single input. Construction of these connectors is identical to that of BIX distribution connectors, except for the IDC clips which are bridged. BIX multiplying connectors are typically used in voice applications.

The QCBIX2A connector is built using 24 sets of bridged clips (2 clips each). It is used to terminate various facilities where multiples of 2 are required.

The QCBIX5A connector is built using 10 sets of bridged clips (5 clips each). It is used for multiple jumper connections to the same equipment.

The QCBIX7A connector is built using 10 sets of bridged clips (four 2-clip and six 7-clip bridged arrangements). It is primarily intended for use with 1A type key telephone systems. Each connector can terminate up to three lines of key equipment providing service to as many as seven key telephone sets per line.

AX100798 BIX Modular Jack Connector



BIX Modular Jack Connector

BIX modular jack connectors provide a fast and flexible method to manage small-to-medium cross-connect installations. These connectors are built with a BIX connector pre-wired to standard modular jacks. They allow front-access termination and patching.

The NXXCBMC6U connector is a 6-port, 8-position modular connector used for data applications. It exceeds all Category 5e channel requirements when used with PS5E modular cords in a Belden IBDN 1200 system.

QCBIX36-type connectors are used mostly for voice applications. The QCBIX36D connector is a 6-port, 8-position modular connector. It is pre-wired to USOC 8-wire wiring scheme specifications. The QCBIX36C connector is an 8-port, 6-position modular connector. It is pre-wired to USOC 6-wire wiring scheme specifications. The QCBIX36B connector is a 12-port, 6-position modular connector. It is pre-wired to USOC 4-wire wiring scheme specifications.

Description	Belden Part Number
BIX Cross-Connect System	
Distribution Connector	
BIX Distribution Connector, 5-pair Marking	**A0266828**
BIX Distribution Connector, 4-pair Marking	**A0393146**
Multiplying Connector	
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**
Modular Jack Connector	
BIX Modular Jack Connector, NXXCBMC6U, 6-port, PS5E, 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**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

BIX Cross-Connect System

Mounts, Covers and Wire Management Accessories

A0340836 QMBIX12E BIX Mount, 300-pair

A0284798 QMBIX10C BIX Mount, 50-pair

A0277853 QMBIX31A 50-pair Mount with Locking Cover

A0285986 Locking Cover for 250-pair Mount

A0276396 BIX Cover, QMBIX10A, Stand-alone installation, Locking

A0270168 Distribution Ring

BIX Mount

BIX mounts are basic components used in building a cross-connect system. They can accept BIX distribution, multiplying or modular jack connectors. The 300 and 250-pair mounts can be wall-mounted or installed on BIX frames. These mounts feature an interlocking design allowing them to be stacked for larger cross-connect installations.

The BIX 50-pair mount is typically used in small cross-connect installations. Also available is a 50-pair mount with cover that is sold as an assembly and is typically used in small cross-connect installations where security and/or dust protection is required.

BIX Cover

BIX covers can be used to restrict access of cross-connect installations for better protection and security. Two sizes are available to suit either the QMBIX12E 300-pair mount or the QMBIX10A 250-pair mount. The two locking covers used in wall or frame-mounted installations are molded with translucent plastic allowing visual inspection. Also available are two covers used exclusively in stand-alone QMBIX10A 250-pair mount installations: one locking, the other non-locking – both have four cable entries, one at each corner.

Distribution Ring

The distribution ring is used in wall mount installations providing a cross-connect channel for jumper wires, patch cords and cables. The distribution ring interlocks with the QMBIX12E or QMBIX10A mounts, providing proper spacing and alignment.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Mount	
BIX Mount, QMBIX12E (300-pair)	**A0340836**
BIX Mount, QMBIX10A (250-pair)	**A0270164**
BIX Mount, QMBIX10C (50-pair)	**A0284798**
BIX Mount with Cover	
BIX Mount with Cover, (Locking), 50-pair	**A0277853**
BIX Mount with Cover, (Snap-on), 50-pair	**A0277854**
BIX Locking Cover	
BIX Locking Cover, for QMBIX12E (300-pair)	**A0340838**
BIX Locking Cover, for QMBIX10A (250-pair)	**A0285986**
BIX Cover	
BIX Cover, QMBIX10A, Stand-alone installation, locking	**A0276396**
BIX Cover, QMBIX10A, Stand-alone installation, non-locking	**A0276394**
Distribution Ring	
Distribution Ring	**A0270168**

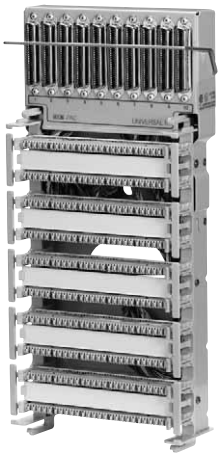
These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

BIX Cross-Connect System

BIX Distribution Frames, Universal BIX-PAC and Trunk Access Blocks

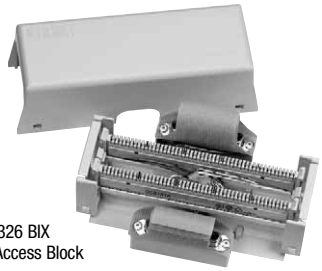
A0340837 BIX Frame

A0321776 Universal BIX-PAC Version 10-10



A0318897 BIX PAC Enclosure

A0327326 BIX Trunk Access Block



BIX Distribution Frame

BIX distribution frames provide a compact mounting unit for large cross-connect installations. The QFBIX24E BIX Frame can accommodate up to 16 QMBIX12E 300-pair mounts, eight on the vertical side and eight on the horizontal side. The QFBIX24E BIX frame has a capacity of 4800-pair. The QFBIX24A BIX Frame can accommodate up to 16 QMBIX10A 250-pair mounts, eight on the vertical side and eight on the horizontal side. The QFBIX24A BIX Frame has a capacity of 4000-pair.

The BIX frame end kit consists of eight cable trays and eight distribution rings plus appropriate mounting hardware. One kit is required to support cross-connect wires on the sides of the shelves in a single-frame installation or on the end frames of a multi-frame installation.

The distribution rings are plastic rings used to manage cross-connect wires.

Universal BIX-PAC

The universal BIX-PAC provides a fast, factory-wired, pre-tested and easy-to-install method of terminating wiring for the voice environment. A typical application for this product is in the main distribution terminal system or the riser terminal system, where it can provide connectivity and cross-connection for up to 250 pairs. The units come equipped with up to 10 QCBIX1A connectors and 10 fifty-pin type telco connectors for the termination of connectorized cables. Also available is a BIX-PAC enclosure, which is a fire-retardant polystyrene structural foam box that can house one BIX-PAC. The enclosure has a snap-on cover and removable panels for cable entry on top, bottom and sides.

BIX Trunk Access Block

BIX trunk access blocks provide a fast, factory-wired, pre-tested and easy-to-install method for demarcation or testing points on customer premises. Typical applications are in the building entrance system or the main distribution terminal system, where the demarcation point between the network provider and the customer equipment usually can be found.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Distribution Frame	
BIX Distribution Frame, 4800-pair (4 Shelves for 16 Mounts, 300-pair)	**A0340837**
BIX Distribution Frame, 4000-pair (4 Shelves for 16 Mounts, 250-pair)	**A0275511**
BIX Distribution Frame Accessories	
BIX Distribution Frame Accessories, End Kit (4 Shelves)	**A0275512***
BIX Distribution Frame Accessories, Distribution Ring	**P0596540***
Universal BIX-PAC	
Universal BIX-PAC, 10-8, 8 RJ21X Female to 8 QCBIX1A Connectors	**A0321775**
Universal BIX-PAC, 10-10, 10 RJ21X Female to 10 QCBIX1A Connectors	**A0321776**
BIX PAC Enclosure	
BIX PAC Enclosure, Grey	**A0318897**
BIX Trunk Access Block	
BIX Trunk Access Block, 1 RJ21X Female to 1 QCBIX1A Connector	**A0327325**
BIX Trunk Access Block, 2 RJ21X Female to 2 QCBIX1A Connector	**A0327326**

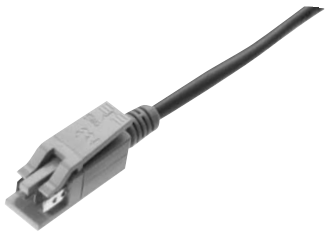
* Eight distribution rings come as part of the BIX distribution frame end kit.
Additional distribution rings can be ordered separately. Use (1) end kit per row of frames.

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

BIX Cross-Connect System

BIX Patch Cords and B-Plus Cross-Connect Wire

A0410494 BIX Patch Cord, BIX-BIX, 2-pair



A0410469 BIX Patch Cord, BIX-BIX, 1-pair

22208260 B-Plus Cross-Connect Wire

BIX Patch Cords

BIX patch cords allow for high-density connections, coupled with flexibility for cost-effective installation and administration. Installation and rearrangement of patch cords do not require any special tools or training. BIX patch cord plugs terminate directly into QCBIX1A/1A4 connectors.

B-Plus Cross-Connect Wire

B-Plus cross-connect wire is intended primarily for use between incoming cables and station equipment in a telecommunications room or at a main cross-connect.

Z cross-connect wire is intended primarily for use in voice applications such as cross-connecting PBX or key telephone system equipment to backbone or horizontal distribution cables.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Patch Cord	
BIX Patch Cord, BIX-BIX, 2-pair, 1.2 m (4 ft.)	**A0410494**
BIX Patch Cord, BIX-BIX, 1-pair, 1.2 m (4 ft.)	**A0410469**
BIX Patch Cord, BIX-BIX, 2-pair, 2.1 m (7 ft.)	**A0410495**
BIX Patch Cord, BIX-BIX, 1-pair, 2.1 m (7 ft.)	**A0410471**
BIX Patch Cord, BIX-BIX, 2-pair, 3.0 m (10 ft.)	**A0410496**
BIX Patch Cord, BIX-BIX, 1-pair, 3.0 m (10 ft.)	**A0410473**
BIX Patch Cord, BIX-BIX, 2-pair, 4.6 m (15 ft.)	**A0410497**
BIX Patch Cord, BIX-BIX, 1-pair, 4.6 m (15 ft.)	**A0410475**
BIX Patch Cord, BIX-BIX, 1-pair, 7.6 m (25 ft.)	**A0410493**

For 4-pair connections, please see the GigaBIX patch cord section.

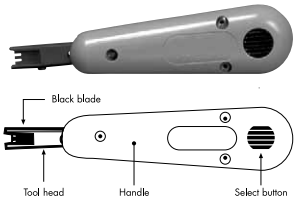
B-Plus Cross-Connect Wire	
24 AWG, 1-pair, Wh/Bl, 305 m (1000 ft.), K-Carton	**22208250**
24 AWG, 1-pair, Wh/Bl, 305 m (1000 ft.), Spool (S77)	**22208253**
24 AWG, 2-pair, Wh/Bl/Wh/Or, 305 m (1000 ft.), K-Carton	**22208260**
24 AWG, 2-pair, Wh/Gr/Wh/Or, 305 m (1000 ft.), K-Carton	**22208231**
24 AWG, 3-pair, Wh/Bl/Wh/Or/Wh/Gr, 152 m (500 ft.), K-Carton	**22208265**
24 AWG, 3-pair, Wh/Bl/Wh/Or/Wh/Gr, 200 m, K-Carton	**22208235**
24 AWG, 4-pair, Wh/Bl/Wh/Or/Wh/Gr/Wh/Br, 152 m (500 ft.), K-Carton	**22208270**
Z Cross-Connect Wire	
Z Cross-Connect Wire, 24 AWG, 1-pair, Bl/Ye, 300 m (984 ft.), Spool	**22208010**
Z Cross-Connect Wire, 24 AWG, 1-pair, Bl/Rd, 300 m (984 ft.), Spool	**22208067**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

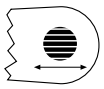
BIX Cross-Connect System

BIX Tools, Testing Tools, Accessories and Designation Strip

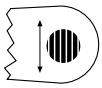
A0270165 BIX Connecting Tool



Tool in CUT position



Tool in NO CUT position



C0054642
Tool Pouch

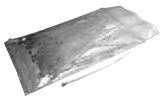
A0270166 BIX
Test Probe

A0270172
Special Service Guard

A0325493
Bridging Clip

P0660798 BIX
Wire Retainer

C0039222 BIX
Cable Tie



19″/23″ (0.48 m/0.58 m)
Rack Bracket Kits

A0270169 BIX
Designation Strip

BIX Connecting Tool

The BIX connecting tool is the only tool required to terminate cables, pigtails or jumper wires on all GigaBIX and BIX connection products. The BIX connecting tool is a spring-activated hand tool. A single forward movement will seat the wire into the BIX IDC clip and cut off the excess wire. The tool will terminate 22-26-AWG plastic insulated solid copper conductors. A separate leather BIX tool pouch to carry and protect the BIX tool can be ordered.

BIX Test Probe

The BIX test probe is a single-pair probe that clips onto the termination clip of BIX distribution or BIX modular jack connectors to facilitate testing.

BIX Accessories

The BIX special service guard is a single-pair red plastic clip used to identify a connection within a BIX distribution field that requires special attention prior to any maintenance work.

The BIX bridging clip is a single-pair clip used to bridge single-pair connections of two BIX connectors.

The BIX wire retainer is a plastic extrusion that fits over the terminated wires on a BIX connector to prevent them from being pulled out of the IDC contacts. It can be used to secure a permanent connection on either side of a BIX connector.

This 19″ (0.48 m) rack bracket kit provides the hardware for BIX mount installation into a 19″ (0.48 m) rack. This kit comes complete with two mounting bars, four screws for rack mounting, four screws for BIX mount assemblies and an installation guide.
BIX cable ties are used for securing wire bundles to the BIX connector.

BIX Designation Strip

The BIX designation strip is designed to be used in conjunction with all BIX mounts and BIX connectors. It snaps in between two connectors and provides space for self adhesive BIX labels. The strip is made of white fire-retardant plastic, with ridges on the top and bottom for easy alignment and placement of designation labels. (See the LabelFlex section for designation labels.)

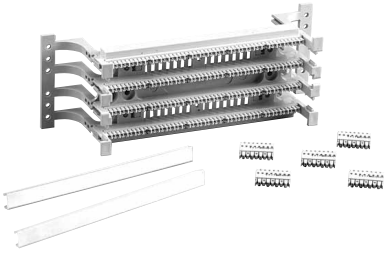
Description	Belden Part Number
BIX Cross-Connect System	
BIX Tools	
BIX Connecting Tool	**A0270165**
Tool Pouch	**C0054642**
BIX Test Probe	
BIX Test Probe, 1-pair, 1/pack	**A0270166**
BIX Accessories	
BIX Special Service Guard, 1-pair, Red, 50/pack	**A0270172**
BIX Bridging Clip, 1-pair, Grey, 50/pack	**A0325091**
BIX Bridging Clip, 1-pair, White, 50/pack	**A0325493**
BIX Wire Retainer, 100/pack	**P0660798**
19″ (0.48 m) Rack Bracket Kit, 2 bars/pack	**A0352331**
23″ (0.58 m) Rack Bracket Kit, 2 bars/pack	**NN00043**
BIX Cable Tie, 100/pack	**C0039222**
BIX Designation Strip	
BIX Designation Strip, White, 50/pack	**A0270169**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

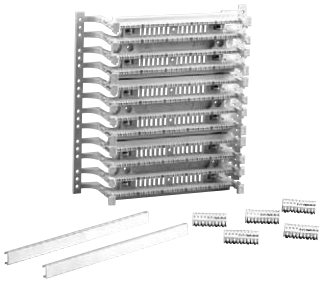
110 Cross-Connect System

110 Cross-Connect Kits, 110 Connecting Blocks, 110 Wall Mount Frame Kits and 110 Wiring Blocks

AX100694 110 Cross-Connect Kit, 100-pair



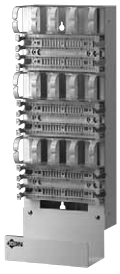
AX100696 110 Cross-Connect Kit, 300-pair



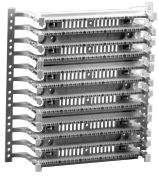
AX100707 110 Connecting Block, 4-pair

AX100708 110 Connecting Block, 5-pair

AX100697 110 Wall Mount Frame Kit, 300-pair



AX100692 Wiring Block, 300-pair



AX100691 Wiring Block, 100-pair

110 Cross-Connect Kit

110 cross-connect kits contain all material required to terminate distribution or equipment cables into a 110 cross-connect system. Kits consist of one wiring block (100-pair or 300-pair) with legs, connecting blocks (4-pair or 5-pair), designation strips and labels.

110 Connecting Block

The 110 connecting blocks are modular connectors equipped with double-sided Insulation Displacement Connection (IDC) clips that are used to terminate plastic insulated solid copper conductors in 110 wiring blocks. The color-coded connecting blocks are available in 4-pair and 5-pair configurations. These blocks are compatible with other existing 110 cross-connect systems.

110 Wall Mount Frame Kit

110 wall mount frame kits simplify planning, organizing and implementation of wall mounted cross-connect systems. They are available in 300-pair and 900-pair configurations making them ideal for small telecommunications room installations. Kits consist of wiring blocks and cable management troughs to be mounted on a cable channel. Kits include all components required to complete a 110 cross-connect installation with either 4-pair or 5-pair connecting blocks.

110 Wiring Block

110 wiring blocks are rigid plastic indexing strip assemblies designed to hold and align wires prior to terminating 110 connecting blocks. 110 wiring blocks are available in 100-pair and 300-pair configurations with legs and 100-pair without legs. 110 wiring blocks are compatible with 22 to 26 AWG wires and accept 4-pair or 5-pair connecting blocks. They are specially designed to simplify data cabling installations. A deeper channel and open slots in the base allow cable to be brought close to the termination point. These blocks are compatible with other existing 110 cross-connect systems.

Description	Belden Part Number
110 Cross-Connect System	
110 Cross-Connect Kit	
110 Cross-Connect Kit, 100-pair, with 4-pair Connecting Blocks	**AX100693**
110 Cross-Connect Kit, 100-pair, with 5-pair Connecting Blocks	**AX100694**
110 Cross-Connect Kit, 300-pair, with 4-pair Connecting Blocks	**AX100695**
110 Cross-Connect Kit, 300-pair, with 5-pair Connecting Blocks	**AX100696**
110 Connecting Block	
110 Connecting Block, 110C4, 4-pair	**AX100707**
110 Connecting Block, 110C5, 5-pair	**AX100708**
110 Wall Mount Frame Kit	
110 Wall Mount Frame Kit, 300-pair, with 4-pair Connecting Blocks	**AX100697**
110 Wall Mount Frame Kit, 300-pair, with 5-pair Connecting Blocks	**AX100698**
110 Wall Mount Frame Kit, 900-pair, with 4-pair Connecting Blocks	**AX100699**
110 Wall Mount Frame Kit, 900-pair, with 5-pair Connecting Blocks	**AX100700**
110 Wiring Block	
110 Wiring Block, 100-pair, without legs	**AX100690**
110 Wiring Block, 100-pair, with legs	**AX100691**
110 Wiring Block, 300-pair, with legs	**AX100692**

The 110 cross-connect system is not available in all countries.

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

110 Cross-Connect System

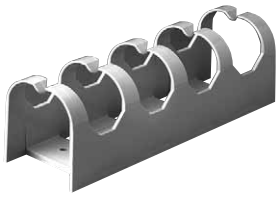
110 Designation Strip and Management Accessories

AX100721 110 Designation Strip

110 Designation Strip

The 110 designation strip is designed to be used in conjunction with all 110 wiring blocks. It snaps in between two rows of 110 connecting blocks and provides space to insert a designation label. The strip is made of clear PVC.

AX100705 Cable Management Trough



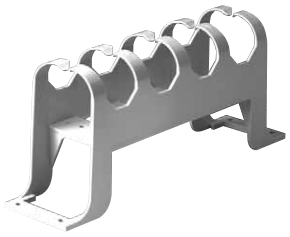
110 Management Accessories

Cable management troughs are utilized as channels positioned between wiring blocks for horizontal or vertical dressing of cross-connect wires and patch cords. They are available with and without mounting legs.

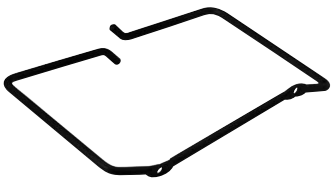
Cable management rings are used for management of cross-connect wires and cables in 110 cross-connect systems. They can be mounted directly onto a plywood backboard between columns of wiring blocks. They are available in two different sizes.

Wall mount cable management frames are pre-assembled vertical cable managers that are used between 110 wall mount frame kits for vertical management of patch cords. They simplify planning and installation of 110 cross-connect systems. They are available in two sizes to use with 300-pair and 900-pair wall mount frame kits.

AX100706 Cable Management Trough with Legs



AX100703 Cable Management Ring



AX100701 Wall Mount Cable Management Frame, 300-pair

Description	Belden Part Number
110 Cross-Connect System	
110 Designation Strip	
110 Designation Strip	**AX100721**
110 Management Accessories	
Cable Management Trough, without legs	**AX100705**
Cable Management Trough, with legs	**AX100706**
Cable Management Ring, Small 144.8 mm (5.7″)	**AX100703**
Cable Management Ring, Large 216 mm (8.5″)	**AX100704**
Wall Mount Cable Management Frame, 300-pair	**AX100701**
Wall Mount Cable Management Frame, 900-pair	**AX100702**

The 110 cross-connect system is not available in all countries.

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

110 Cross-Connect System

110 Patch Cords

AX300001 PS5E 110 Patch Cord, 110-110, 4-pair

AX300010 PS5E 110 Patch Cord, 110-8MOD, 4-pair

AX300013 110 Patch Cord, 110-110, 2-pair

110 Patch Cord

110 patch cords allow for high density connections in a 110 cross-connect system. 110 patch cord rearrangements do not require any special tools or training thus providing flexibility for cost-effective installation and administration. 110 patch cords are available in two different configurations. 110-110 patch cord configurations are used for easy cross-connection between equipment and distribution fields.

110-8MOD patch cord configurations are used to easily interconnect equipment utilizing 8-position modular jacks directly into 110C4/C5 connecting blocks in the distribution field. PS5E 110 patch cords offer Category 5e performance. These patch cords are compatible with other existing 110 cross-connect systems.

110 Patch Cord Connector

110 patch cord connectors are available in 1, 2 and 4-pair configurations for field assembly of Category 5 patch cords. They can terminate plastic insulated stranded copper conductors 24 AWG.

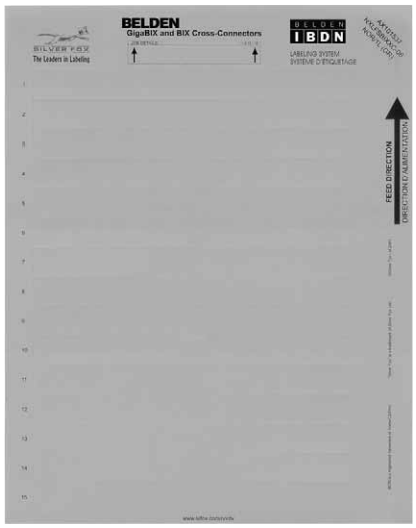
Description	Belden Part Number
110 Cross-Connect System	
110 Patch Cord	
110 Patch Cord, PS5E 110-110, 4-pair, 1.2 m (4 ft.)	**AX300001**
110 Patch Cord, PS5E 110-110, 4-pair, 1.8 m (6 ft.)	**AX300002**
110 Patch Cord, PS5E 110-110, 4-pair, 2.4 m (8 ft.)	**AX300025**
110 Patch Cord, PS5E 110-110, 4-pair, 3.0 m (10 ft.)	**AX300026**
110 Patch Cord, PS5E 110-110, 4-pair, 6.1 m (20 ft.)	**AX300027**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 1.2 m (4 ft.)	**AX300010**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 1.8 m (6 ft.)	**AX300009**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 2.4 m (8 ft.)	**AX300029**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 3.0 m (10 ft.)	**AX300030**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 6.1 m (20 ft.)	**AX300032**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 1.2 m (4 ft.)	**AX300008**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 1.8 m (6 ft.)	**AX300005**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 2.4 m (8 ft.)	**AX300011**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 3.0 m (10 ft.)	**AX300034**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 6.1 m (20 ft.)	**AX300017**
110 Patch Cord, 110-110, 2-pair, 1.2 m (4 ft.)	**AX300013**
110 Patch Cord, 110-110, 2-pair, 1.8 m (6 ft.)	**AX300014**
110 Patch Cord, 110-110, 2-pair, 2.4 m (8 ft.)	**AX300015**
110 Patch Cord, 110-110, 2-pair, 3.0 m (10 ft.)	**AX300037**
110 Patch Cord, 110-110, 2-pair, 6.1 m (20 ft.)	**AX300038**
110 Patch Cord, 110-110, 1-pair, 0.6 m (2 ft.)	**AX300039**
110 Patch Cord, 110-110, 1-pair, 1.2 m (4 ft.)	**AX300006**
110 Patch Cord, 110-110, 1-pair, 1.8 m (6 ft.)	**AX300007**
110 Patch Cord, 110-110, 1-pair, 2.4 m (8 ft.)	**AX300012**
110 Patch Cord, 110-110, 1-pair, 3.0 m (10 ft.)	**AX300021**
110 Patch Cord, 110-110, 1-pair, 6.1 m (20 ft.)	**AX300040**
110 Patch Cord Connector	
110 Patch Cord Connector, 4-pair	**AX100711**
110 Patch Cord Connector, 2-pair	**AX100710**
110 Patch Cord Connector, 1-pair	**AX100709**

The 110 cross-connect system is not available in all countries.
Other lengths are available, please contact customer service for further details.

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Labels
LabelFlex

AX101537 LabelFlex Labels



LabelFlex – Automated Labeling Solution

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

The range of Belden IBDN products covered by the labeling system is:

- GigaBIX & BIX cross-connect systems
- Flex patch panels
- ID tubes
- BIX Modular jack connectors
- Workstation outlets
- PS5E HD patch panels
- 110 cross-connect system
- MediaFlex faceplates series
- GigaFlex PS6+ patch panels
- Cable applications, 4-pair and 25-pair

Description	Belden Part Number
Labels for MediaFlex Faceplates	
Almond/Silver, 30 labels/sheet, 10 sheets/pack	**AX101820**
White, 30 labels/sheet, 10 sheets/pack	**AX101821**
Labels for BIX and GigaBIX	
Grey, 15 labels/sheet, 5 sheets/pack	**AX101532**
White, 15 labels/sheet, 5 sheets/pack	**AX101533**
Orange, 15 labels/sheet, 5 sheets/pack	**AX101534**
Red, 15 labels/sheet, 5 sheets/pack	**AX101535**
Yellow, 15 labels/sheet, 5 sheets/pack	**AX101536**
Green, 15 labels/sheet, 5 sheets/pack	**AX101537**
Blue, 15 labels/sheet, 5 sheets/pack	**AX101538**
Purple, 15 labels/sheet, 5 sheets/pack	**AX101539**
Brown, 15 labels/sheet, 5 sheets/pack	**AX101540**
Silver, 15 labels/sheet, 5 sheets/pack	**AX101541**
Labels for BIX Modular Jack Connector	
Grey, 28 labels/sheet, 5 sheets/pack	**AX101542**
White, 28 labels/sheet, 5 sheets/pack	**AX101543**
Orange, 28 labels/sheet, 5 sheets/pack	**AX101544**
Red, 28 labels/sheet, 5 sheets/pack	**AX101545**
Yellow, 28 labels/sheet, 5 sheets/pack	**AX101546**
Green, 28 labels/sheet, 5 sheets/pack	**AX101547**
Blue, 28 labels/sheet, 5 sheets/pack	**AX101548**
Purple, 28 labels/sheet, 5 sheets/pack	**AX101549**
Brown, 28 labels/sheet, 5 sheets/pack	**AX101550**
Silver, 28 labels/sheet, 5 sheets/pack	**AX101584**
Labels for Patch Panels, Outlets and Cables	
Labels for Flex Patch Panels, White, 28 labels/sheet, 5 sheets/pack	**AX101551**
Labels for Workstation Faceplates, White, 80 labels/sheet, 25 sheets/pack	**AX101552**
Labels for Workstation Single Port ID, White, 450 labels/sheet, 5 sheets/pack	**AX101553**
Labels for HD Patch Panels, White, 18 labels/sheet, 5 sheets/pack	**AX101554**
Labels for GigaFlex PS6+ Patch Panels, White, 28 labels/sheet, 5 sheets/pack	**AX101626**
Labels for 4-pair cables, Grey, 48 labels/sheet, 25 sheets/pack	**AX101555**
Labels for 25-pair cables, White, 24 labels/sheet, 25 sheets/pack	**AX101556**
Labels for 110 Cross-Connect	
Grey, 18 labels/sheet, 5 sheets/pack	**AX101557**
White, 18 labels/sheet, 5 sheets/pack	**AX101558**
Orange, 18 labels/sheet, 5 sheets/pack	**AX101559**
Red, 18 labels/sheet, 5 sheets/pack	**AX101560**
Yellow, 18 labels/sheet, 5 sheets/pack	**AX101561**
Green, 18 labels/sheet, 5 sheets/pack	**AX101562**
Blue, 18 labels/sheet, 5 sheets/pack	**AX101563**
Purple, 18 labels/sheet, 5 sheets/pack	**AX101564**
Brown, 18 labels/sheet, 5 sheets/pack	**AX101565**
Labels for ID Tubes	
3.1″ (0.08 m) long, White, 32 labels/sheet, 5 sheets/pack	**AX101566**
4.4″ (0.11 m) long, White, 30 labels/sheet, 5 sheets/pack	**AX101567**
7.4″ (0.19 m) long, White, 19 labels/sheet, 5 sheets/pack	**AX101568**
Software	
Automated LabelFlex Advanced Software, 1 CD/pack	**AX101569**

The 110 cross-connect system is not available in all countries.
Other lengths are available, please contact customer service for further details.

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Patch Panels

GigaFlex PS6+ Patch Panels Category 6, Telepanel

AX101613 GigaFlex PS6+ Patch Panel, 2U, 48-port

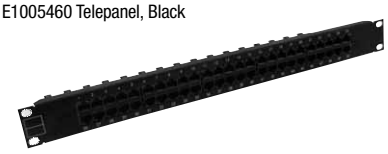
GigaFlex PS6+ Patch Panel

The GigaFlex PS6+ patch panel is a fully loaded patch panel using black GigaFlex PS6+ modules. The unmatched performance of the GigaFlex PS6+ module exceeds all parameters specified in the Category 6 standard. All performance characteristics including NEXT, FEXT, Attenuation and Return Loss have been set to guarantee transmission performance up to 300 MHz and a data-rate of up to 4.8 Gb/s.

Description	Belden Part Number
Patch Panels	
GigaFlex PS6+ Patch Panel	
GigaFlex PS6+ Patch Panel, 1U, 24-port, Grey	**AX101612**
GigaFlex PS6+ Patch Panel, 1U, 24-port, Black	**AX101611**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Grey	**AX101614**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Black	**AX101613**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

E1005460 Telepanel, Black



Telepanel

The 50-ports telepanel is supplied in an easy and functional design with fixed cable guide prepared for use of Velcro tape or strips. All jacks are mounted as RJ45, enabling the use of general patch cables. The panel is available in white and black color with numbering from 1 to 50. Mounting is carried out by means of a “KRONE” tool.

Description	Belden Part Number
Telepanel	
Telepanel, 1U, 50-ports, Black	**E1005460**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Patch Panels

PS5E HD Patch Panels Category 5e, PS5E BIX Patch Panels Category 5e and Flex Patch Panels

AX100465 PS5E HD Patch Panel, 1U, 24-port

PS5E HD Patch Panel

The Universal PS5E HD patch panels series includes a variety of product styles, sizes and wiring configurations. PS5E HD patch panels are robust and installer-friendly products by design, combining punch down connectors with standard modular jacks. They are available in both BIX and 110 Insulation Displacement Connection (IDC) options. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately). PS5E HD patch panels offer Category 5e performance.

AX100473 PS5E HD Patch Panel, 2U, 48-port

PS5E BIX Patch Panel

The PS5E BIX patch panel is a medium density panel, 24-port in 2 rack space units, for easier installation and cable management than high density panels. The PS5E BIX patch panel is a robust and installer-friendly product by design, combining BIX punch down connectors with standard modular jacks. The patch panel features built-in wire management to secure cable bundles and to control and maintain patch cord bend radius. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately). The PS5E BIX patch panel offers Category 5e performance.

AX100506 BIX Patch Panel, 2U, 24-port

Flex Patch Panel

Flex patch panels provide a flexible and versatile termination solution for telecommunications room rack-mounted installations. The panels can be custom configured in the field to suit practically any particular configuration. Flex patch panels are compatible with GigaFlex and EZ-MDVO modules as well as MDVO-style multimedia modules. Modules are ordered separately.

AX101456 Flex Patch Panel

Description	Belden Part Number
Patch Panels	
PS5E HD Patch Panel	
PS5E HD-BIX Patch Panel, 1U, 24-port, Grey, T568A/B	**AX100464**
PS5E HD-BIX Patch Panel, 1U, 24-port, Black, T568A/B	**AX100465**
PS5E HD-BIX Patch Panel, 2U, 48-port, Grey, T568A/B	**AX100472**
PS5E HD-BIX Patch Panel, 2U, 48-port, Black, T568A/B	**AX100473**
PS5E HD-110 Patch Panel, 1U, 24-port, Black, T568B/A	**AX100452**
PS5E HD-110 Patch Panel, 2U, 48-port, Black, T568B/A	**AX100454**

The PS5E HD-110 Patch Panel is not available in all countries.
Other configurations are available, please contact customer service for further details.

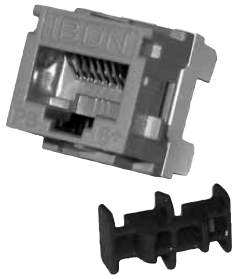
PS5E BIX Patch Panel	
PS5E BIX Patch Panel, 2U, 24-port, Grey, T568A-ISDN	**AX100505**
PS5E BIX Patch Panel, 2U, 24-port, Black, T568A-ISDN	**AX100506**
Flex Patch Panel	
Flex Patch Panel, 1U, 24-port, Grey	**AX101571**
Flex Patch Panel, 1U, 24-port, Black	**AX101456**
Flex Patch Panel, 2U, 48-port, Grey	**AX101573**
Flex Patch Panel, 2U, 48-port, Black	**AX101458**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Workstation Outlets

GigaFlex PS6+ Modules Category 6

AX101067 GigaFlex PS6+Module



GigaFlex PS6+ Module

The GigaFlex PS6+ module is a punch down UTP connector based on a patented encapsulated lead frame technology ensuring excellent long-term reliability as well as extremely stable transmission performance. The unmatched Beyond Cat 6 performance exceeds all parameters specified in the Category 6 standard. All performance characteristics have been set to guarantee transmission performance up to 300 MHz and a data-rate of up to 4.8 Gb/s.

The GigaFlex PS6+ is the module of choice for terminating UTP cables into the MediaFlex and interface outlet series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications room applications.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

Also available is the GigaFlex PS6+ module, clipsal-style which is fully compatible with clipsal faceplates and mounting hardware.

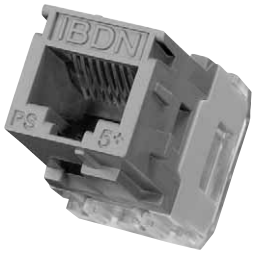
Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Workstation Outlets		
GigaFlex PS6+ Module		
T568A/B, Grey	**AX101063**	**AX101318**
T568A/B, Almond	**AX101064**	**AX101319**
T568A/B, White	**AX101065**	**AX101320**
T568A/B, Black	**AX101066**	**AX101321**
T568A/B, Orange	**AX101067**	**AX101322**
T568A/B, Red	**AX101068**	**AX101323**
T568A/B, Yellow	**AX101069**	**AX101324**
T568A/B, Green	**AX101070**	**AX101325**
T568A/B, Blue	**AX101071**	**AX101326**
T568A/B, Purple	**AX101072**	**AX101327**
T568A/B, Brown	**AX101073**	**AX101328**
T568A/B, Ivory	**AX102563**	**–**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Workstation Outlets

GigaFlex PS5E Modules Category 5e

AX101051 GigaFlex PS5E Module



GigaFlex PS5E Module

The GigaFlex PS5E module is a punch down UTP connector based on a patented encapsulated lead frame technology ensuring excellent long term reliability as well as extremely stable transmission performance. The PS5E-rated performance exceeds all requirements specified in the Category 5e standard. All performance parameters including NEXT, FEXT, Attenuation and Return Loss have been set to guarantee transmission performance up to 160 MHz and a data-rate of up to 1.2 Gb/s.

The GigaFlex PS5E is the module of choice for terminating UTP cables into the MediaFlex and interface outlet series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications room applications.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Workstation Outlets		
GigaFlex PS5E Module		
T568A/B, Grey	**AX101044**	**AX101307**
T568A/B, Almond	**AX101045**	**AX101308**
T568A/B, White	**AX101046**	**AX101309**
T568A/B, Black	**AX101047**	**AX101310**
T568A/B, Orange	**AX101048**	**AX101311**
T568A/B, Red	**AX101049**	**AX101312**
T568A/B, Yellow	**AX101050**	**AX101313**
T568A/B, Green	**AX101051**	**AX101314**
T568A/B, Blue	**AX101052**	**AX101315**
T568A/B, Purple	**AX101053**	**AX101316**
T568A/B, Brown	**AX101054**	**AX101317**
T568A/B, Ivory	**AX102564**	**–**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Workstation Outlets

EZ-MDVO PS5E Modules Category 5e

AX100654 EZ-MDVO PS5E Module

EZ-MDVO PS5E Module

The EZ-MDVO module is built with a patented lead frame design and encapsulated insulation displacement contacts, ensuring reliable connections and performance well above Category 5e standards. The EZ-MDVO module termination cap is what is so unique about this product. It allows for a simple and fast "press-fit" installation while ensuring consistent wire termination every time it is snap-locked. The module termination cap is color-coded to facilitate wire arrangement and speed up installation time. The termination cap is printed with the T568A/B color-codes. The EZ-MDVO modules can be mixed and matched with a wide variety of MediaFlex, Interface and MDVO-style faceplates, adapters and boxes to suit practically any installation configuration for workstation outlet installations.

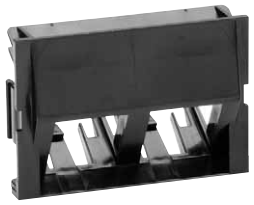
A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices. Clipsal-style EZ-MDVO modules are available for installations using commercially available clipsal faceplates and HPM-style EZ-MDVO modules are available for installations using commercially available HPM faceplates.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Workstation Outlets		
EZ-MDVO PS5E Module		
T568A/B coded, Grey	**AX100645**	**AX100577**
T568A/B coded, Almond	**AX100646**	**AX100578**
T568A/B coded, White	**AX100647**	**AX100579**
T568A/B coded, Black	**AX100648**	**AX100580**
T568A/B coded, Orange	**AX100649**	**AX100581**
T568A/B coded, Red	**AX100650**	**AX100582**
T568A/B coded, Yellow	**AX100651**	**AX100583**
T568A/B coded, Green	**AX100652**	**AX100584**
T568A/B coded, Blue	**AX100653**	**AX100585**
T568A/B coded, Purple	**AX100654**	**AX100586**
T568A/B coded, Brown	**AX100655**	**AX100587**

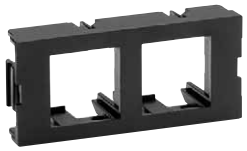
These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Workstation Outlets
MediaFlex Inserts

AX101756 MediaFlex MDVO (style) Insert, 2-port, Angled



AX101752 MediaFlex MDVO (style) Insert, 2-port, Flush



AX101760 MediaFlex Filler Insert, 1-unit

AX101764 MediaFlex Filler Insert, 2-unit

AX101768 PS6+ MediaFlex GigaFlex Insert, 2-port

MediaFlex Insert

MediaFlex inserts provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex MDVO-style Inserts along with MediaFlex filler inserts and MediaFlex GigaFlex inserts allow for the easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex plates for simple installation and maintenance.

MediaFlex MDVO-style inserts are available in a 2-port configuration in both flush and angled versions. They are compatible with all GigaFlex and MDVO modules (EZ-MDVO and multimedia). The inserts are two units high for the flush version and three units high for the angled version. Therefore three flush inserts or two angled inserts are required to fully populate a single gang MediaFlex plate.

MediaFlex GigaFlex Inserts are available in a 2-port configuration in both PS5E (Category 5e) and PS6+ (beyond Category 6) performance levels. The inserts are two units high, therefore three inserts can be used to fully populate a single gang MediaFlex plate making up a 6-port outlet.

MediaFlex filler inserts are used to fill the unused spaces in low density workstation outlets. They are available in one unit and two unit sizes.

Description	Belden Part Number	
Workstation Outlets		
MediaFlex MDVO (style) Insert	**Flush**	**Angled**
2-port, Grey, bag of 10 units	**AX101749**	**AX101753**
2-port, Almond, bag of 10 units	**AX101750**	**AX101754**
2-port, Elec. White, bag of 10 units	**AX101751**	**AX101755**
2-port, Black, bag of 10 units	**AX101752**	**AX101756**
2-port, White, bag of 10 units	**AX102612**	**AX102613**
2-port, Ivory, bag of 10 units	**AX102572**	**AX102573**
MediaFlex GigaFlex Insert	**PS6+**	**PS5E**
2-port, Grey	**AX101765**	**AX101769**
2-port, Almond	**AX101766**	**AX101770**
2-port, Elec. White	**AX101767**	**AX101771**
2-port, Black	**AX101768**	**AX101772**
2-port, Ivory	**AX102574**	**AX102575**
MediaFlex Filler Insert	**1-Unit**	**2-Unit**
Grey, bag of 10 units	**AX101757**	**AX101761**
Almond, bag of 10 units	**AX101758**	**AX101762**
Elec. White, bag of 10 units	**AX101759**	**AX101763**
Black, bag of 10 units	**AX101760**	**AX101764**
White, bag of 10 units	**AX102614**	**AX102615**
Ivory, bag of 10 units	**AX102576**	**AX102577**

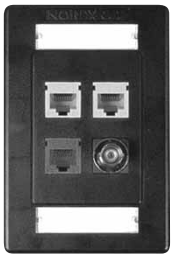
These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Workstation Outlets

Interface Plate and Surface Adapter Boxes

AX101431 Interface Plate, 2-port, shown here with modules

AX101438 Interface Plate, 4-port, shown here with modules



AX101441 Interface Plate, 6-port, shown here with modules

AX101474 Interface/MDVO Surface Adapter Box

Interface Plate, Flush

Interface plates combine flexibility and ease of use in work area installations. They are designed to accept the EZ-MDVO and GigaFlex UTP modules as well as all the MDVO multimedia modules. The interface plates are available in Single gang and can accept up to 6 modules. They also have labeling capabilities using built-in labeling windows. The faceplates can be attached to standard electrical boxes or wall-mounting hardware for flush-mount installations. The faceplates can also fit over the interface adapter boxes for surface mount installations.

Interface/MDVO Surface Adapter Box

The Interface/MDVO surface adapter box allows surface mounting of interface plates as well as MDVO flush and angled entry faceplates. The box can be mounted on any flat surface or can be attached to standard electrical boxes or wall-mounting hardware for additional storage space.

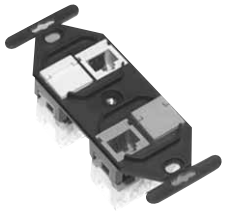
Description	Belden Part Number
Workstation Outlets	
Interface Plate	
Flush, 2-port, Grey	**AX101431**
Flush, 2-port, Almond	**AX101432**
Flush, 2-port, White	**AX101433**
Flush, 2-port, Black	**AX101434**
Flush, 2-port, Ivory	**AX102582**
Flush, 4-port, Grey	**AX101435**
Flush, 4-port, Almond	**AX101436**
Flush, 4-port, White	**AX101437**
Flush, 4-port, Black	**AX101438**
Flush, 4-port, Ivory	**AX102583**
Flush, 6-port, Grey	**AX101439**
Flush, 6-port, Almond	**AX101440**
Flush, 6-port, White	**AX101441**
Flush, 6-port, Black	**AX101442**
Flush, 6-port, Ivory	**AX102584**
Interface/MDVO Surface Adapter Box	
Single Gang, Grey	**AX101474**
Single Gang, Almond	**AX101475**
Single Gang, White	**AX101476**
Single Gang, Black	**AX101477**
Single Gang, Ivory	**AX102589**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Workstation Outlets
MDVO Adapters

A0645271 MDVO Side Entry Box, shown here with modules

AX100311 MDVO 106 Adapter, 4-port, shown here with modules



A0409654 MDVO Deco Adapter, shown here with modules

AX100925 MDVO Modular Furniture Adapter, 4-port, shown here with modules

MDVO Adapters

All MDVO adapters are compatible with GigaFlex, EZ-MDVO and MDVO multimedia modules.

The MDVO side entry box can be easily mounted directly on the wall, as well as on modular furniture panels, baseboards and utility poles. The compact size of the box allows secure installation in confined areas such as behind a desk or underneath a workstation.

The MDVO 106 adapters are designed for installations using standard NEMA electrical-style faceplates also referred to as 106-type or duplex wall plates.

The MDVO deco adapter is designed for installations using Decora style wall plates.

MDVO modular furniture adapters are the ideal outlet adapters for open office furniture applications. They can be snapped into any standard opening, in modular furniture settings.

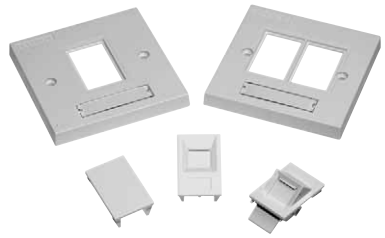
Description	Belden Part Number
Workstation Outlets	
MDVO Adapters	
MDVO Side Entry Box, 2-port, Grey	**A0645271**
MDVO Side Entry Box, 2-port, Almond	**A0645272**
MDVO Side Entry Box, 2-port, White	**A0645273**
MDVO Side Entry Box, 2-port, Black	**A0645274**
MDVO Side Entry Box, 2-port, Ivory	**AX102590**
MDVO 106 Adapter, 2-port, Grey	**AX100304**
MDVO 106 Adapter, 2-port, Almond	**AX100305**
MDVO 106 Adapter, 2-port, White	**AX100306**
MDVO 106 Adapter, 2-port, Black	**AX100307**
MDVO 106 Adapter, 2-port, Ivory	**AX102591**
MDVO 106 Adapter, 4-port, Grey	**AX100308**
MDVO 106 Adapter, 4-port, Almond	**AX100309**
MDVO 106 Adapter, 4-port, White	**AX100310**
MDVO 106 Adapter, 4-port, Black	**AX100311**
MDVO 106 Adapter, 4-port, Ivory	**AX102592**
MDVO Deco Adapter, 3-port, Grey	**A0409651**
MDVO Deco Adapter, 3-port, Almond	**A0409652**
MDVO Deco Adapter, 3-port, White	**A0409653**
MDVO Deco Adapter, 3-port, Black	**A0409654**
MDVO Deco Adapter, 3-port, Ivory	**AX102593**
MDVO Modular Furniture Adapter, 3-port, Grey	**A0407071**
MDVO Modular Furniture Adapter, 3-port, Almond	**A0407072**
MDVO Modular Furniture Adapter, 3-port, White	**A0407073**
MDVO Modular Furniture Adapter, 3-port, Black	**A0407074**
MDVO Modular Furniture Adapter, 3-port, Ivory	**AX102648**
MDVO Modular Furniture Adapter, 4-port, Grey	**AX100925**
MDVO Modular Furniture Adapter, 4-port, Almond	**AX100926**
MDVO Modular Furniture Adapter, 4-port, White	**AX100927**
MDVO Modular Furniture Adapter, 4-port, Black	**AX100928**
MDVO Modular Furniture Adapter, 4-port, Ivory	**AX102594**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

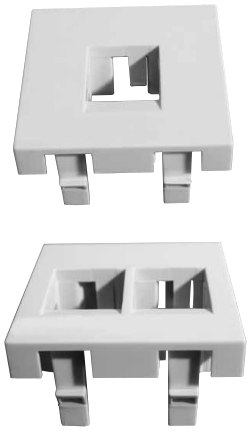
Workstation Outlets

European Style Faceplates and Inserts

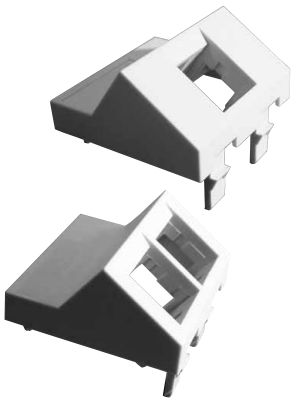
AX101372-73 European "6C" Style Faceplates and AX101377-75-76 European "6C" Inserts



AX101413-14 French Style Faceplates



AX101415-16 French Style Faceplates



European "6C" Style Faceplate

The European "6C" style faceplates and inserts are designed to accept the GigaFlex and EZ-MDVO UTP modules. They include a shutter to protect the module against dust and other contaminants.

French Style Faceplate

The french style faceplates are designed to accept the EZ-MDVO and GigaFlex UTP modules as well as all the MDVO multimedia modules. The faceplates can be attached to standard 45 mm x 45 mm boxes or mounting hardware for flush-mount installations.

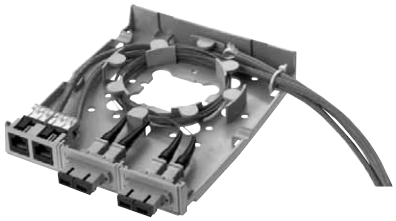
Description	Belden Part Number
Workstation Outlets	
European "6C" Style Faceplate	
European "6C" Style Faceplate, Single Gang, Single Aperture, White	**AX101372**
European "6C" Style Faceplate, Single Gang, Dual Aperture, White	**AX101373**
European "6C" Style Faceplate, Double Gang, Quad Aperture, White	**AX101374**
European "6C" Shuttered Module Holder, 1-port, Flush, White	**AX101375**
European "6C" Shuttered Module Holder, 1-port, Angled, White	**AX101376**
European "6C" Blank Insert, White	**AX101377**
French Style Faceplate	
1-port, Flush, White	**AX101413**
2-port, Flush, White	**AX101414**
1-port, Angled, White	**AX101415**
2-port, Angled, White	**AX101416**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Workstation Outlets

MDVO Multimedia Outlet Boxes, Multi-User Outlet Boxes and Multi-User Adapter Strips

A0643205 MDVO Multimedia Outlet Box, shown here as terminated



AX100222 Multi-User Outlet Box, shown here with modules

AX100223 MDVO Adapter Strip, 12-port

MDVO Multimedia Outlet Box

The MDVO multimedia outlet box brings unique versatility for 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 EZ-MDVO, GigaFlex or MDVO multimedia modules or three SC duplex adapters.

The MDVO multimedia outlet box can be mounted directly on the wall or attached to standard electrical boxes. Included with the MDVO multimedia box are three SC duplex mounting bezels and three MDVO adapters.

Multi-User Outlet Box

The multi-user outlet box is a versatile box that can be used in many different applications. The outlet box can accommodate up to 24 connections of any type, UTP, fiber or coax. The outlet box is ideal for use as a multi-user telecommunications assembly, or simply as a high-density multimedia telecommunications outlet. The multi-user outlet box can also be used as a wall mounted patch panel in confined areas, such as shallow rooms and cabinets.

Multi-User Adapter Strips

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, PS5E HD connector module strips (BIX or 110), or a combination of both for a maximum of 24 connections.

Description	Belden Part Number
Workstation Outlets	
MDVO Multimedia Outlet Box	
6-port, Grey	**A0643205**
6-port, Almond	**A0643206**
6-port, White	**A0643207**
6-port, Black	**A0643208**
6-port, Ivory	**AX102595**
Multi-User Outlet Box	
24-port, Grey	**AX100219**
24-port, Almond	**AX100220**
24-port, White	**AX100221**
24-port, Black	**AX100222**
Multi-User Adapter Strips	
MDVO Adapter Strip, 12-port, Empty, Black	**AX100223**
PS5E HD-BIX Connector Module Strip, Universal Wiring 12-port, T568A/B	**AX100224**
PS5E HD-110 Connector Module Strip, Universal Wiring 12-port, T568B/A	**AX100494**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

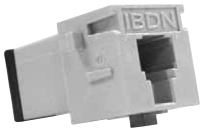
Workstation Outlets
MDVO Multimedia Modules

A0407005 MDVO SC Fiber Module

A0649254 SC Duplex Adapter

A0407010 MDVO ST Compatible Fiber Module

AX101467 MDVO MTRJ Fiber Module



A0406997 MDVO BNC Coaxial Module

A0406999 MDVO Video F Coaxial Module

MDVO Multimedia Module

MDVO multimedia modules address audio/video and fiber applications. Fiber modules are available for LC Duplex, SC Simplex, ST compatible multimode and MT-RJ multimode & single-mode connections. The SC duplex adapter is a fiber adapter sleeve with flanges that mounts into the SC duplex mounting bezel (included in the MDVO multimedia outlet box). Audio/video modules are available for SVHS, RCA, BNC and video F connections.

Description	Belden Part Number				
	Grey	Almond	White	Black	Ivory
Workstation Outlets					
MDVO Multimedia Module					
LC Duplex, Multimode	**AX102209**	**AX102210**	**AX102211**	**AX102619**	**–**
LC Duplex, Single-mode	**AX102213**	**AX102214**	**AX102215**	**AX102216**	**–**
SC Simplex, Multimode	**A0407003**	**A0407004**	**A0407005**	**A0407006**	**AX102596**
SC Duplex Adapter, Multimode	**–**	**A0649254**	**–**	**–**	**–**
ST Compatible, Multimode	**A0407007**	**A0407008**	**A0407009**	**A0407010**	**AX102597**
MT-RJ, Multimode	**–**	**AX101467**	**–**	**–**	**–**
MT-RJ, Single-mode, Blue	**–**	**AX101466**	**–**	**–**	**–**

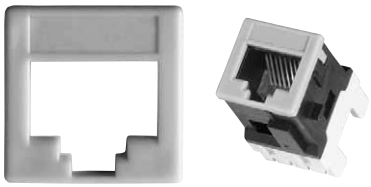
Description	Belden Part Number				
	Grey Holder	Almond Holder	White Holder	Black Holder	Ivory Holder
Coaxial, BNC	**A0406995**	**A0406996**	**A0406997**	**A0406998**	**AX102598**
Coaxial, Video F	**A0406999**	**A0407000**	**A0407001**	**A0407002**	**AX102599**
RCA, feedthrough, White insert	**AX101823**	**AX101824**	**AX101825**	**AX101826**	**AX102601**
RCA, feedthrough, Yellow insert	**AX101827**	**AX101828**	**AX101829**	**AX101830**	**AX102602**
RCA, feedthrough, Red insert	**AX101831**	**AX101832**	**AX101833**	**AX101834**	**AX102603**
RCA, feedthrough, Black insert	**AX101835**	**AX101836**	**AX101837**	**AX101838**	**AX102604**
SVHS, feedthrough	**AX101839**	**AX101840**	**AX101841**	**AX101842**	**AX102605**
3.5 mm Stereo	**AX102624**	**AX102625**	**AX102626**	**AX102627**	**AX102628**

Custom multimedia connectors are also available, please contact customer service for more details.
These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Workstation Outlets
Outlet Accessories

A0405538 MDVO Blank Insert

AX102022 Colored Bezel



AX100196 ID Tab

MDVO Blank Insert

MDVO blank inserts can be used in any MediaFlex outlets, interface plates, MDVO faceplates, adapters or boxes to fill in unused ports.

Colored Bezel

The colored bezels are plastic inserts that fit over the face of GigaFlex and EZ-MDVO 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 Tab

ID tabs are color-coded identification caps that can be inserted over the GigaFlex and EZ-MDVO 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.

Description	Belden Part Number
Workstation Outlets	
MDVO Blank Insert	
Grey	**A0405536**
Almond	**A0405537**
White	**A0405538**
Black	**A0405539**
Electric White	**AX102607**
Ivory	**AX102600**
Colored Bezel	
Grey	**AX102014**
Almond	**AX102015**
White	**AX102016**
Black	**AX102017**
Orange	**AX102018**
Red	**AX102019**
Yellow	**AX102020**
Green	**AX102021**
Blue	**AX102022**
Purple	**AX102023**
Brown	**AX102024**
Ivory	**AX102606**

Description	Belden Part Number		
	Blank	Data	Voice
ID Tab			
Grey	**AX100182**	**AX100193**	**AX100204**
Almond	**AX100183**	**AX100194**	**AX100205**
White	**AX100184**	**AX100195**	**AX100206**
Black	**AX100185**	**AX100196**	**AX100207**
Orange	**AX100186**	**AX100197**	**AX100208**
Red	**AX100187**	**AX100198**	**AX100209**
Yellow	**AX100188**	**AX100199**	**AX100210**
Green	**AX100189**	**AX100200**	**AX100211**
Blue	**AX100190**	**AX100201**	**AX100212**
Purple	**AX100191**	**AX100202**	**AX100213**
Brown	**AX100192**	**AX100203**	**AX100214**

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

Workstation Outlets
Tools

AX100749 GigaFlex Connecting Tool

GigaFlex Connecting Tool

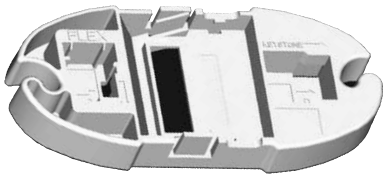
The GigaFlex connecting tool is a no-impact connecting tool used to terminate cables, pigtails or cross-connect wires on any GigaFlex module or 110 product. The GigaFlex tool is a spring-activated hand tool. A single forward movement will seat the wire into the IDC clip and cut off the excess wire. The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

1797B Cable Preparation Tool

Bonded-Pair 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's DataTwist® 350, MediaTwist®, and DataTwist® 600e bonded-pair cables, providing special features that help separate twisted pairs. It can also be used to prepare any non-bonded-pair cable for installation.

AX101852 Termination Station



Termination Station

The termination station is an ergonomically designed holder that provides stability to the GigaFlex module during the termination process. The station has pockets with locking features that steadily holds either MDVO-style or Keystone-style GigaFlex 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 placements process. The flat bottom surface will provide the required stability to safely terminate the modules. The tool is made of very durable plastic and its low profile makes it an easy tool to use and carry.

Outlet Release Tool

The outlet release tool is a very convenient tool for servicing the 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 to extract GigaFlex modules from miscellaneous mounting hardware and to remove the protective cap for GigaFlex module re-termination.

AX101185 Outlet Release Tool

Description	Belden Part Number
Workstation Outlets	
Tools	
GigaFlex Connecting Tool	**AX100749**
Bonded-Pair Cable Preparation Tool	**1797B**
Termination Station	**AX101852**
Outlet Release Tool	**AX101185**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Modular Cords

Belden IBDN System 4800LX and 2400 Modular Cords
Enhanced Category 6

AX350061 GigaFlex PS6+ Modular Cord

GigaFlex PS6+ Modular Cord

The GigaFlex PS6+ modular cords are 4-pair 23 AWG UTP modular cords designed for use with the Belden IBDN systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ modular cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ modular cord's patented design, with a very small footprint, makes them fully compatible with any of the highest density hubs with RJ45 jack connections.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 2400, Modular Cords*						
GigaFlex PS6+ Modular Cord, LSZH 4-pair, 23 AWG solid, T568B - T568B						
0.5 m (1.6 ft.)	**AX102356**	**AX102350**	**AX102392**	**AX102544**	**AX102550**	**AX102556**
1.0 m (3.3 ft.)	**AX102357**	**AX102351**	**AX102393**	**AX102545**	**AX102551**	**AX102557**
2.0 m (6.5 ft.)	**AX102358**	**AX102352**	**AX102394**	**AX102546**	**AX102552**	**AX102558**
3.0 m (10 ft.)	**AX102359**	**AX102353**	**AX102395**	**AX102547**	**AX102553**	**AX102559**
5.0 m (16.4 ft.)	**AX102360**	**AX102354**	**AX102396**	**AX102548**	**AX102554**	**AX102560**
10.0 m (33 ft.)	**AX102361**	**AX102355**	**AX102397**	**AX102549**	**AX102555**	**AX102561**

Description	Belden Part Number		
	Purple	White	Grey
Belden IBDN System 2400, Modular Cords*			
GigaFlex PS6+ Modular Cord, LSZH 4-pair, 23 AWG solid, T568B - T568B			
6 m (20 ft.)	**AC301311**	**–**	**–**
10 m (33 ft.)	**AC300656**	**–**	**–**
15 m (50 ft.)	**AC301215**	**–**	**AC301325**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Modular Cords

Belden IBDN System 4800LX and 2400 Modular Cords
Enhanced Category 6

AX350061 GigaFlex PS6+ Modular Cord

GigaFlex PS6+ Modular Cord

The GigaFlex PS6+ modular cords are 4-pair 23 AWG UTP modular cords designed for use with the Belden IBDN systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ modular cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ modular cord's patented design, with a very small footprint, makes them fully compatible with any of the highest density hubs with RJ45 jack connections.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Modular Cords						
GigaFlex PS6+ Modular Cord, CMR 4-pair, 23 AWG solid, T568A - T568A						
0.6 m (2 ft.)	**AX350037**	**AX350043**	**AX350049**	**AX350055**	**AX350061**	**AX350067**
1.2 m (4 ft.)	**AX350038**	**AX350044**	**AX350050**	**AX350056**	**AX350062**	**AX350068**
2.1 m (7 ft.)	**AX350039**	**AX350045**	**AX350051**	**AX350057**	**AX350063**	**AX350069**
3.0 m (10 ft.)	**AX350040**	**AX350046**	**AX350052**	**AX350058**	**AX350064**	**AX350070**
4.6 m (15 ft.)	**AX350041**	**AX350047**	**AX350053**	**AX350059**	**AX350065**	**AX350071**
7.6 m (25 ft.)	**AX350042**	**AX350048**	**AX350054**	**AX350060**	**AX350066**	**AX350072**
CMR 4-pair, 23 AWG solid, T568A/B - open						
4.6 m (15 ft.)	–	–	**AX350160**	–	–	–
7.6 m (25 ft.)	–	–	**AX350161**	–	–	–
10.6 m (35 ft.)	–	–	**AX350162**	–	–	–
15.0 m (50 ft.)	–	–	**AX350163**	–	–	–

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

AX380014 GigaFlex PS6+ Bonded Modular Cord

GigaFlex PS6+ Bonded Modular Cords

The GigaFlex PS6+ bonded modular cords are 4-pair 24 AWG bonded-pair UTP modular cords designed for use with the Belden IBDN systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ bonded modular cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ bonded modular cord's patented design, with a very small footprint, makes them fully compatible with the highest density hubs, with any RJ45 jack connections. The special cord design offers increased stability in crosstalk and impedance performance to support the many moves, adds and changes performed in the lifetime of the system.

Description	Belden Part Number			
	Blue	Grey	White	Yellow
Modular Cords				
GigaFlex PS6+ Bonded Mod. Cord, CMR, 4-pair, Bonded 24 AWG Solid, T568A - T568A				
1.2 m (4 ft.)	**AX380014**	**AX380026**	**AX380050**	**AX380056**
2.1 m (7 ft.)	**AX380015**	**AX380027**	**AX380051**	**AX380057**
3.0 m (10 ft.)	**AX380016**	**AX380028**	**AX380052**	**AX380058**
4.6 m (15 ft.)	**AX380017**	**AX380029**	**AX380053**	**AX380059**
7.6 m (25 ft.)	**AX380018**	**AX380030**	**AX380054**	**AX380060**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Modular Cords

GigaFlex PS5e Modular Cords and GigaFlex PS5e VoIP Cords Category 5e

AX102344 GigaFlex PS5e Modular Cord

GigaFlex PS5e Modular Cords

The GigaFlex PS5e modular cords are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN Plus cabling system and the Belden IBDN system 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively.

The GigaFlex PS5e modular cord's patented design features a very small footprint, making them fully compatible with the highest density hubs which use RJ45 jack connections. The GigaFlex PS5e modular cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 1200, Modular Cords						
GigaFlex PS5e Modular Cord, LSZH 4-pair, 24 AWG stranded, T568B - T568B						
0.5 m (1.6 ft.)	**AX102344**	**AX102338**	**AX102386**	**AX102526**	**AX102532**	**AX102538**
1.0 m (3.3 ft.)	**AX102345**	**AX102339**	**AX102387**	**AX102527**	**AX102533**	**AX102539**
2.0 m (6.5 ft.)	**AX102346**	**AX102340**	**AX102388**	**AX102528**	**AX102534**	**AX102540**
3.0 m (10 ft.)	**AX102347**	**AX102341**	**AX102389**	**AX102529**	**AX102535**	**AX102541**
5.0 m (16.4 ft.)	**AX102348**	**AX102342**	**AX102390**	**AX102530**	**AX102536**	**AX102542**
10.0 m (33 ft.)	**AX102349**	**AX102343**	**AX102391**	**AX102531**	**AX102537**	**AX102543**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

AX350013 GigaFlex PS5e Modular Cord

GigaFlex PS5e Modular Cords

The GigaFlex PS5e modular cords are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN plus cabling system and the Belden IBDN system 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively.

The GigaFlex PS5e modular cord's patented design features a very small footprint, making them fully compatible with the highest density hubs which use RJ45 jack connections. The GigaFlex PS5e modular cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Modular Cords						
GigaFlex PS5e Mod. Cord, CMR 4-pair, 24 AWG stranded, T568A - T568A						
0.6 m (2 ft.)	**AX350001**	**AX350007**	**AX350013**	**AX350019**	**AX350025**	**AX350031**
1.2 m (4 ft.)	**AX350002**	**AX350008**	**AX350014**	**AX350020**	**AX350026**	**AX350032**
2.1 m (7 ft.)	**AX350003**	**AX350009**	**AX350015**	**AX350021**	**AX350027**	**AX350033**
3.0 m (10 ft.)	**AX350004**	**AX350010**	**AX350016**	**AX350022**	**AX350028**	**AX350034**
4.6 m (15 ft.)	**AX350005**	**AX350011**	**AX350017**	**AX350023**	**AX350029**	**AX350035**
7.6 m (25 ft.)	**AX350006**	**AX350012**	**AX350018**	**AX350024**	**AX350030**	**AX350036**
GigaFlex PS5e Mod. Cord, CMR 4-pair, 24 AWG solid, T568A to open						
4.6 m (15 ft.)	–	–	**AX350149**	–	–	–
7.6 m (25 ft.)	–	–	**AX350093**	–	–	–

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Modular Cords

GigaFlex PS5e VoIP Cords Category 5e

AX330015 GigaFlex PS5E VoIP Modular Cord

VoIP Modular Cord features very short body RJ 45 phone connector on other end

GigaFlex PS5E VoIP Modular Cords

The GigaFlex PS5E VoIP modular cords are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN plus cabling system and the Belden IBDN system 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively. The GigaFlex PS5E VoIP modular cord is designed for use with VoIP phones that can not accommodate standard booted patch cords which would make the phone unstable or difficult to wall mount. The GigaFlex PS5E VoIP modular cord is designed with a regular booted RJ 45 plug on one end (at the wall) and a bootless very short body RJ 45 plug on the other end (at the phone). The GigaFlex PS5E VoIP modular cords meet all the enhanced Category 5 modular cord requirements as per the Category 5e standard, and are completely backward compatible with Category 5 jacks. The GigaFlex PS5E VoIP modular cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard. The GigaFlex PS5E VoIP modular cord product line encompass CMR-rated cords.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Modular Cords						
GigaFlex PS5E VoIP Mod.Cord, CMR, 4-pair, 24 AWG stranded, T568A - T568A						
0.6 m (2 ft.)	**AX330013**	**AX330049**	**AX330025**	**AX330019**	**AX330043**	**AX330055**
1.2 m (4 ft.)	**AX330014**	**AX330050**	**AX330026**	**AX330020**	**AX330044**	**AX330056**
2.1 m (7 ft.)	**AX330015**	**AX330051**	**AX330027**	**AX330021**	**AX330045**	**AX330057**
3.0 m (10 ft.)	**AX330016**	**AX330052**	**AX330028**	**AX330022**	**AX330046**	**AX330058**
4.6 m (15 ft.)	**AX330017**	**AX330053**	**AX330029**	**AX330023**	**AX330047**	**AX330059**
7.6 m (25 ft.)	**AX330018**	**AX330054**	**AX330030**	**AX330024**	**AX330048**	**AX330060**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Network Connectivity Products

Media Converters, Transceivers & Hubs and Network Tester

Media Converters

AX-1912 Media Converter Rack

AX050, 70 and 80 Transceivers and AX-509 Ethernet Hub

AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit

Media Converters for Ethernet and Fast Ethernet

Media converters enable the connection of dissimilar network cabling types, while maintaining the same network speed. A legacy Thinnet segment can be connected to a 10Base-T Hub or switch port with a AX-200 converter or, link two different 10Base-T networks together over a multimode fiber optic link with a pair of AX-270s. Connect a legacy Thinnet segment over fiber with the AX-280 converter. The AX-5270 can be used for interbuilding links or attached to a fiber backbone.

Transceivers and Ethernet Hubs

The AX-50, 70 and 80 transceivers enable the connection of a legacy AUI port to 10Base-T, Thinnet, or fiber optic media. The transceiver is powered from the host and requires no external power supply.

The AX-509 Ethernet Hub has an AUI port which accepts UTP, Fiber Optic or BNC transceivers. Specified for use by many U.S. Government Agencies. Includes a 110v/12v power supply.

Realtime 10/100 Base-TX Ethernet Network Test Unit

The AX-110BT Realtime 10/100 Base-TX ethernet network test unit is a cost effective way to quickly determine a network's operating condition. Plug the unit's patch cord into the tester then into any open RJ-45 jack in an office, cubicle or conference room. Immediately see if the jack is a live network node capable of either 100 Mb/s or 10 Mb/s. Next check patch cord continuity and polarity. Connect the downlink to a PC to check NIC card link, speed and full or half duplex capabilities. Connect the uplink to a hub or switch port to verify link and speed.

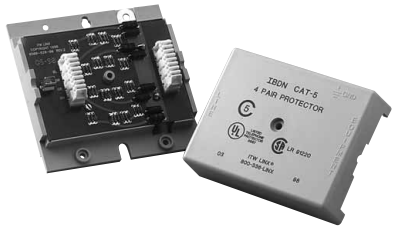
Description	Belden Part Number
Network Connectivity Products	
Media Converter	
10Base-T/10Base2, RJ-45 to BNC	**AX-200**
10Base-T/10Base-FL, RJ-45 to ST-Compatible fiber connectors	**AX-270**
10Base2/10Base-FL, BNC to ST-Compatible fiber connectors	**AX-280**
100Base-TX/100Base-FX, SC-Compatible fiber connectors	**AX-5270SC**
100Base-TX/100Base-FX, ST-Compatible fiber connectors	**AX-5270ST**
Media Converter Rack	
Holds up to 12 converters and multi lead power supplies, 19″ (0.48 m) rack-mount ready	**AX-1912-MCR**
Power Supply, 4-lead 110v/12v, powers up to 4 converters	**AX-270P4U**
Power Supply, 8-lead 110v/12v, powers up to 8 converters	**AX-270P8U**
Transceivers and Ethernet Hubs	
UTP Transceiver, 10Base-T, AUI to RJ-45, side port	**AX-50**
UTP Transceiver, 10Base-T, AUI to RJ-45, rear port	**AX-50R**
Fiber Transceiver, 10Base-FL, AUI to ST-Compatible	**AX-70**
Thinnet Transceiver, 10Base2, AUI to BNC	**AX-80**
Ethernet Hub with 8 RJ-45 10Base-T ports and 1 AUI port	**AX-509**
Network Tester	
Realtime 10/100 Base-TX Ethernet Network Test Unit	**AX-110BT**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Line Protection and Bonding & Grounding

IDC 4-pair Protector Modules, PVCI Ground Wires, Bond Clamp and Accessories

AX100826 Cat-5e, 4-pair Protector



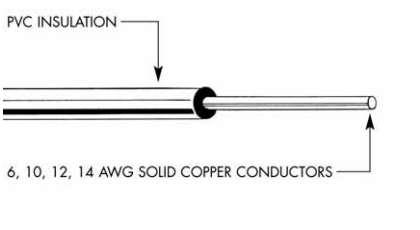
IDC 4-pair Protector Module

The IDC 4-pair protector module is a high-performance Category 5e, solid-state protection for local area networks. Protects sensitive electronic workstations, network equipment, and cables from damage caused by transient voltage surges. Provides 100% protection with easy-to-install BIX or 110 IDC termination in a convenient 4-pair module.

Description	Belden Part Number
Line Protection	
IDC 4-pair Protector Module	
IDC Protector Module, Category 5e, 4-pair, BIX Protector, 1/pack	**AX100826**
IDC Protector Module, Category 5e, 4-pair, 110 Protector, 1/pack	**AX100827**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

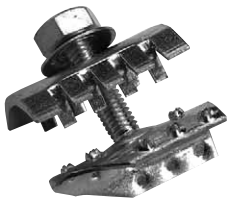
PVCI Ground Wire



PVCI Ground Wire

PVCI ground wire consists of 6, 10, 12 and 14 AWG solid annealed copper conductors individually insulated with polyvinyl chloride compound.

X9905753 Bond Clamp



Bond Clamp

The bond clamps are used to attach the cable shield to the ground via ground wire. They are recommended for use with riser cables and outside plant cables. The bond clamps consist of heavy plates and a securing nut with an integral spring washer. The plates are curved to conform to the contours of the cable. The upper plate has "teeth" which penetrate the polyethylene cable jacket and align with the perforations in the lower plate. The lower plate has burred perforations that penetrate into the metallic sheath of the cable.

Accessories

A six-position ground bracket is used to terminate and ground up to 5 cable sheaths. The sixth position on the bracket is used to provide the ground return to the distribution terminal and is not available to ground a cable. Two ground wire clips on each side of the ground wire are required to ground one cable.

AX100226 Six-position Ground Bracket

X9908359 6 AWG Ground Wire Clip

Description	Belden Part Number
Bonding & Grounding	
PVCI Ground Wire	
PVCI Ground Wire, 6 AWG, Black, 75 m (246 ft.), Coil	**22214348**
PVCI Ground Wire, 10 AWG, Black, 50 m (164 ft.), Coil	**22214500**
PVCI Ground Wire, 12 AWG, Almond, 50 m (164 ft.), Coil	**22214700**
PVCI Ground Wire, 14 AWG, Olive Grey, 75 m (246 ft.), Coil	**22214900**
Bond Clamp	
Bond Clamp, QCF1A 19 mm (0.75″) cable and above	**X9905753**
Bond Clamp, QCF2A 19 mm (0.75″) cable and below	**X9905754**
Accessories	
Bond Clamp Accessories, Six-position Ground Bracket	**AX100226**
Bond Clamp Accessories, 6 AWG Ground Wire Clip	**X9908359**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

DataTwist® 600e U/UTP Cables

TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6 Bonded-Pair Cables

Certified System 4800LX

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Patented E-Spline Center Member • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, Blue, Black, White and Grey)																			
	7851A	NEC:	1000	305	37.9	17.2	0.57 mm	0.044	1.13	**Bonded-Pair**	0.227	5.77	1	1.9	80.3	78.5	70.8	100 ± 12	20.0
		CMR	A-1000	A-305	47.0	21.3	23 AWG			Unshielded	x	x	10	5.7	65.3	59.6	50.8	100 ± 12	25.0
		CEC:					Solid BC			U/UTP	0.315	8.00	31.25	10.2	57.9	47.7	40.9	100 ± 15	25.0
		CMR											62.5	14.7	53.4	38.7	34.9	100 ± 15	25.0
													100	18.9	50.3	31.4	30.8	100 ± 15	25.0
													155	23.9	47.5	23.5	27.0	100 ± 15	22.8
													200	27.5	45.8	18.3	24.8	100 ± 15	21.7
													250	31.2	44.3	13.2	22.8	100 ± 20	20.5
													350	37.7	40.2	4.5	19.9	100 ± 22	19.8
													400	40.6	39.3	0.6	18.8	100 ± 22	19.5
													500	46.2	37.8	> 0*	16.8	100 ± 22	18.4
													550	48.8	37.2	–	16.0	100 ± 22	18.0
													600	51.4	36.6	–	15.2	100 ± 22	17.6
Rip Cord			Color Code: see chart below																
4-Pair																			
													Third party verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Jacket sequentially marked at 0.6 m intervals. Features descending length marking.						
Polyolefin Insulation • Grey Haloarrest® Jacket																			
	7851NH		1000	305	39.0	17.7	0.57 mm	0.044	1.13	**Bonded-Pair**	0.241	6.12							see above
			A-1000	A-305	48.1	21.8	23 AWG			Unshielded	x	x							
							Solid BC			U/UTP	0.329	8.36							
Rip Cord			Color Code: see chart below																
4-Pair																			
													Third party verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Jacket sequentially marked at 1 m intervals. Features descending length marking.						
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Blue, Black, White and Grey)																			
	7852A	NEC:	1000	305	39.9	18.1	0.57 mm	0.043	1.08	**Bonded-Pair**	0.218	5.54							see above
		CMP	A-1000	A-305	48.9	22.2	23 AWG			Unshielded	x	x							
		CEC:					Solid BC			U/UTP	0.290	7.37							
		CMP																	
Rip Cord			Color Code: see chart below A-305 m put-up not available in Red.																
4-Pair																			
													Third party verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Jacket sequentially marked at 0.6 m intervals. Features descending length marking.						

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio •
ELFEXT = Equal Level Far-end Crosstalk •
NEXT = Near-end Crosstalk • PSUM = Power Sum •
RL = Return Loss • DCR = DC resistance
* PSUM ACR > 0 is guaranteed to 460 MHz.

Teflon® is a DuPont trademark.

Not RoHS compliant at time of printing.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

DataTwist 600e: Beyond Category 6

Belden DataTwist 600e data cable is a revolutionary UTP cable engineered specifically to perform well beyond Category 6 standards. While Category 6 cable is specified only to 250 MHz, DataTwist 600e is the only Cat 6 UTP cable in the industry fully characterized with guaranteed performance to 600 MHz. So users have far more headroom to compensate for unforeseen factors that can inhibit the performance of a cabling system today…and protection of their technology investment for the future.

Handy Cable Preparation Tool Speeds Installation of Bonded-Pair Cables

You know the high-performance benefits of using data cables featuring Belden's unique Bonded-Pair technology. The Belden cable preparation tool (1797B) now makes it faster and easier than ever to prepare cables for connector termination providing special features that help separate twisted pairs. The cable preparation tool is packed with every spool of DataTwist® 600e. See page 15.37 for more information.

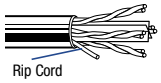
GigaFlex 4800LX Cables Series

ANSI/TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6 Non-Bonded-Pair Cables

Certified System 4800LX

Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Central Cross Web Filler • Rip Cord

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Polyolefin Insulation • PVC Jacket																			
White-Reel	**24586385**	NEC:	1000	305	29.1	13.2	0.57 mm	0.044	1.11	Non-	0.245	6.22	0.772	1.7	80.0	78.3	74.0	100 ± 12	–
Blue-Reel	**24586985**	CMR					23 AWG			Bonded-Pair			1	1.8	78.3	76.5	71.8	100 ± 12	20.0
		CEC:					Solid BC			Unshielded			4	3.4	69.3	65.9	59.7	100 ± 12	23.0
		CMR								U/UTP			8	4.8	64.8	60.0	53.7	100 ± 12	25.0
													10	5.3	63.3	58.0	51.8	100 ± 12	25.0
													16	6.8	60.3	53.5	47.7	100 ± 12	25.0
													20	7.6	58.8	51.2	45.7	100 ± 12	25.0
													25	8.5	57.3	48.8	43.8	100 ± 15	24.6
													31.25	9.6	55.9	46.3	41.9	100 ± 15	24.2
													62.5	13.8	51.4	37.6	35.8	100 ± 15	23.0
													100	17.8	48.3	30.5	31.8	100 ± 15	22.1
													200	26.2	43.8	17.6	25.7	100 ± 15	20.9
													250	29.7	42.3	12.6	23.8	100 ± 20	20.5
													300	33.0	41.2	8.2	22.2	100 ± 20	20.2
													350	36.1	40.2	4.1	20.9	100 ± 22	19.9
													400	39.0	39.3	0.3	19.7	100 ± 22	19.7
													450*	41.8	38.5	- 3.3	18.7	100 ± 22	19.5
													500*	44.5	37.8	- 6.7	17.8	100 ± 22	19.3
													550*	47.1	37.2	- 9.9	16.9	100 ± 22	19.1

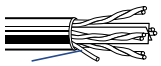


4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially market at 0.6 m intervals. Features descending length marking.

Polyolefin Insulation • FRNC/LSNH Polymer Alloy																			
Violet-Reel	**24588085**	NEC:	1000	305	31.1	14.1	0.57 mm	0.044	1.11	Non-	0.240	6.10							see above
		CMR					23 AWG			Bonded-Pair									
		CEC:					Solid BC			Unshielded									
		CMR								U/UTP									

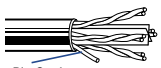


4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially market at 0.6 m intervals. Features descending length marking.

Plenum • FEP Insulation • FRNC/LSNH Polymer Alloy																			
White-Reel	**24587385**	NEC:	1000	305	30.6	13.9	0.57 mm	0.043	1.10	Non-	0.229	5.81							see above
Blue-Reel	**24587985**	CMP					23 AWG			Bonded-Pair									
		CEC:					Solid BC			Unshielded									
		CMP								U/UTP									



4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially market at 0.6 m intervals. Features descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.

Color Code

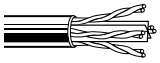
Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Category 6 U/UTP Cables

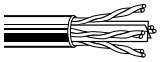
TIA/EIA-568-B.2, Category 6,
Bonded-Pair Cables

Certified System 2400

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Twisted Pair																			
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	7812E	B-328	B-100	9.5	4.3	0.57 mm	0.042	1.06	**Bonded-Pair**	0.256	6.50	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
		U-1000	U-305	28.9	13.1	23 AWG			Unshielded			4	3.8	63.0	59.4	53.0	100 ± 15	23.0
		1640	500	47.4	21.5	Solid BC			U/UTP			10	6.0	57.0	51.3	45.0	100 ± 15	25.0
		3280	1000	94.8	43.0							16	7.6	54.0	46.6	41.0	100 ± 15	25.0
												20	8.5	53.0	44.3	39.0	100 ± 15	25.0
												25	9.6	51.0	41.8	37.0	100 ± 15	24.3
												31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
												62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
												100	19.9	42.0	22.4	25.0	100 ± 15	20.1
												155	25.3	39.0	14.1	21.0	100 ± 22	18.8
												200	29.1	38.0	8.6	19.0	100 ± 22	18.0
												250	33.0	36.0	3.3	17.0	100 ± 22	17.3
		Color Code: see chart below								Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2									
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	7812ENH	B-328	B-100	9.5	4.3	0.57 mm	0.042	1.06	**Bonded-Pair**	0.256	6.50							see above	
		1000	305	28.9	13.1	23 AWG			Unshielded										
		1640	500	47.4	21.5	Solid BC			U/UTP										
		Color Code: see chart below								Burning Energy: 535 kJ/m Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2									



4-Pair



4-Pair

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)

GigaFlex 2400 Cables Series

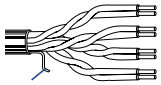
ANSI/TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6 Non-Bonded-Pair Cables

Certified System 2400

Cat 6 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord

Polyolefin Insulation • PVC Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
White †	**24566315**	NEC:	1000	305	26.0	11.8	0.51 mm	0.042	1.06	Non-	0.214	5.44	0.772	1.8	75.0	73.2	70.0	100 ± 15	19.7
Blue †	**24566915**	CMR					24 AWG			Bonded-Pair			1	2.0	73.3	71.3	67.8	100 ± 15	20.0
White	**24566345**	CEC:					Solid BC			Unshielded			4	3.7	64.3	60.6	55.8	100 ± 15	23.0
Blue	**24566945**	CMR								U/UTP			8	5.2	59.8	54.6	49.7	100 ± 15	24.5
													10	5.8	58.3	52.5	47.8	100 ± 15	25.0
													16	7.4	55.2	47.9	43.7	100 ± 15	25.0
													20	8.3	53.8	45.5	41.8	100 ± 15	25.0
													25	9.3	52.3	43.1	39.8	100 ± 15	24.3
													31.25	10.4	50.9	40.5	37.9	100 ± 15	23.6
													62.5	15.0	46.4	31.4	31.9	100 ± 15	21.5
													100	19.3	43.3	24.0	27.8	100 ± 15	20.1
													200	28.3	38.8	10.5	21.8	100 ± 15	18.0
													250	32.1	37.3	5.3	19.8	100 ± 32	17.3
													300*	35.6	36.1	0.5	18.3	100 ± 32	16.8
													350*	38.9	35.1	- 3.7	16.9	100 ± 32	16.3
													400*	42.0	34.3	- 7.7	15.8	100 ± 32	15.9
													450*	45.0	33.5	- 11.5	14.7	100 ± 32	15.5



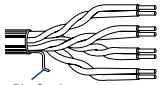
4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Polyolefin Insulation • FRNC/LSNH Polymer Alloy

Violet-Reel	**24568005**	NEC:	1000	305	28.0	12.7	0.51 mm	0.043	1.08	Non-	0.214	5.44		see above
Violet-Box	**24568015**	CMR	1000	305	28.0	12.7	24 AWG			Bonded-Pair				
White-Box	**24568315**	CEC:	1000	305	28.0	12.7	Solid BC			Unshielded				
White-Reel	**24568331**	CMR	1640	500	45.9	20.8				U/UTP				



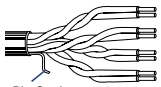
4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Plenum • FEP Insulation • Low-Smoke PVC Jacket

White †	**24567315**	NEC:	1000	305	24.0	10.9	0.51 mm	0.042	1.06	Non-	0.210	5.33		see above
Blue †	**24567915**	CMR					24 AWG			Bonded-Pair				
White	**24567345**	CEC:					Solid BC			Unshielded				
Blue	**24567945**	CMR								U/UTP				



4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.
† Reel-in-Box

Color Code

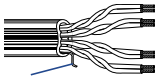
Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

MediaTwist® U/UTP Cables

TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6 Bonded-Pair Cables

Certified System 2400

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Blue, Red, Yellow, Orange, Green, Gold, Violet, White, Black and Grey)																			
	1872A	NEC:	1000	305	37.0	16.8	0.57 mm	0.042	1.06	**Bonded-Pair**	0.365	9.27	1	1.9	72.3	70.0	64.8	100 ± 12	20.0
		CMR	A-1000	A-305	37.0	16.8	23 AWG			Unshielded	x	x	4	3.7	63.3	59.0	52.8	100 ± 12	23.0
		CEC:					Solid BC			U/UTP	0.165	4.19	8	5.3	58.8	53.0	46.7	100 ± 12	24.5
		CMR											10	5.9	57.3	51.0	44.8	100 ± 12	25.0
													16	7.5	54.3	46.0	40.7	100 ± 12	25.0
													25	9.5	51.4	42.0	36.8	100 ± 15	24.3
													31.25	10.6	49.9	39.0	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.9	100 ± 15	21.5
													100	19.8	42.3	25.0	24.8	100 ± 15	21.0
													155	25.1	39.5	14.0	20.9	100 ± 15	21.0
													200	29.0	37.8	10.0	18.8	100 ± 15	21.0
													250	32.8	36.3	3.0	16.8	100 ± 20	18.0
													300	35.2	35.2	> 0	15.2	100 ± 20	18.0
													350	39.8	34.2	–	13.9	100 ± 22	17.0
													400*	43.0	–	–	–	100 ± 32	14.0
													500*	49.0	–	–	–	100 ± 32	14.0

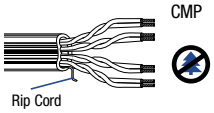


4-Pair

Color Code: see chart below
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151; 5,734,126; 5,821,467
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Blue, Natural, Grey, Red, Yellow, Orange, Green, Gold, Violet, White and Black)																			
	1874A	NEC:	1000	305	37.0	16.8	0.57 mm	0.039	1.00	**Bonded-Pair**	0.365	9.27							see above
		CMP	A-1000	A-305	37.9	17.2	23 AWG			Unshielded	x	x							
		CEC:					Solid BC			U/UTP	0.165	4.19							
		CMP																	



4-Pair

Color Code: see chart below
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151; 5,734,126; 5,821,467
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.

Teflon® is a DuPont trademark.

Not RoHS compliant at time of printing.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)

DataTwist® 350 U/UTP Cables

TIA/EIA-568-B.2, Category 5e,
Enhanced Category 5e Bonded-Pair Cables

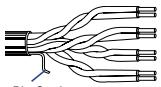
Certified System 1200

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB

Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord

Polyolefin Insulation • PVC Jacket (Red, Orange, White, Black, Yellow, Green, Blue, Violet, Light Grey and Grey)

1700A	NEC:	U-1000	U-305	22.0	10.0	0.51 mm	0.038	0.97	**Bonded-Pair**	0.200	5.08	1	2.0	65.3	63.3	60.8	100 ± 12	20.0
	CM	1000	305	22.0	10.0	24 AWG			Unshielded			4	4.0	56.3	52.3	48.8	100 ± 12	23.0
	CEC:	1640	500	36.2	16.4	Solid BC			U/UTP			8	5.7	51.8	46.1	42.7	100 ± 12	24.5
	CM	3000	914	63.1	28.6							10	6.4	50.3	43.9	40.8	100 ± 12	25.0
		3280	1000	72.3	32.8							16	8.1	47.3	39.1	36.7	100 ± 12	25.0
												25	10.3	44.3	34.1	32.8	100 ± 15	24.3
												31.25	11.6	42.9	31.3	30.9	100 ± 15	23.6
												62.5	16.8	38.4	21.6	24.8	100 ± 15	21.5
												100	21.7	35.3	17.1	20.8	100 ± 15	20.1
												155	27.7	32.5	4.7	16.9	100 ± 18	19.0
												200	32.0	30.8	3.0	14.7	100 ± 18	19.0
												250	36.4	29.3	> 0	12.8	100 ± 20	18.0
												350	44.3	27.2	> 0	9.9	100 ± 22	17.0



4-Pair

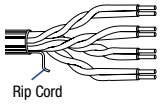
305 m put-up not available in Grey.
914 m put-up available in Red, Blue, White or Light Grey only.
500 m put-up available in Light Grey or Blue only.
1000 m put-up available in Light Grey only.

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Color Code: see chart below

Polyolefin Insulation • PVC Jacket (Grey and Blue)

1700E	B-328	B-100	6.1	2.8	0.51 mm	0.038	0.97	**Bonded-Pair**	0.197	5.00
	U-1000	U-305	18.7	8.5	24 AWG			Unshielded		
	1000	305	18.7	8.5	Solid BC			U/UTP		
	1640	500	30.9	14.0						
	3280	1000	61.7	28.0						



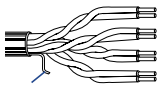
4-Pair

Color Code: see chart below

Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)

1700ENH	60332-1	B-328	B-100	6.1	2.8	0.51 mm	0.038	0.97	**Bonded-Pair**	0.197	5.00	see above
	CSA FT1	U-1000	U-305	18.7	8.5	24 AWG			Unshielded			
	UL CM	1640	500	30.9	14.0	Solid BC			U/UTP			
	UL ISDI (Vertical Tray)	3280	1000	61.7	28.0							



4-Pair

Color Code: see chart below
305 m and 1000 m put-up available in Grey only.

Burning Energy: 298 kJ/m
Flame Test: IEC 60332-2, UL CM UL ISDI Vertical Tray, CAS FT1
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)

GigaFlex 1200 Cables Series

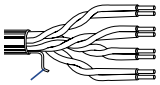
ANSI/TIA/EIA-568-B.2, Category 5e,
Enhanced Category 5e Non-Bonded-Pair Cables

Certified System 1200

Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord

Polyolefin Insulation • PVC Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
White, Box	**24570166**	NEC:	1000	305	24.0	10.9	0.51 mm	0.035	0.89	Non-	0.186	4.72	0.772	1.8	69.0	67.3	63.0	100 ± 15	–
Blue, Box	**24570161**	CMR					24 AWG			Bonded-Pair			1	2.0	67.3	65.3	60.8	100 ± 15	20.0
White, Reel	**24570460**	CEC:					Solid BC			Unshielded			4	4.0	58.3	54.3	48.7	100 ± 15	23.0
Blue, Reel	**24570452**	CMR								U/UTP			8	5.7	53.8	48.1	42.7	100 ± 15	24.5
													10	6.3	52.3	46.0	40.8	100 ± 15	25.0
													16	8.1	49.3	41.2	36.7	100 ± 15	25.0
													20	9.1	47.8	38.7	34.7	100 ± 15	25.0
													25	10.2	46.3	36.1	32.8	100 ± 15	24.3
													31.25	11.5	44.9	33.4	30.9	100 ± 15	23.6
													62.5	16.7	40.4	23.7	24.8	100 ± 15	21.5
													100	21.6	37.3	15.7	20.8	100 ± 15	20.1
													200*	31.9	32.8	0.9	14.7	100 ± 22	18.0
													250*	36.3	31.3	- 4.9	12.8	100 ± 22	17.3
													300*	40.3	30.2	- 10.2	11.2	100 ± 22	16.8
													350*	44.2	29.2	- 15.0	9.9	100 ± 22	16.3



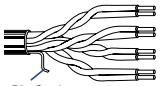
Rip Cord

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially market at 0.6 m intervals. Features descending length marking.

Polyolefin Insulation • FRNC/LSNH Polymer Alloy

Violet, Box	**24570157**	NEC:	1000	305	24.9	11.3	0.51 mm	0.035	0.89	Non-	0.198	5.03							see above
White, Box	**24598301**	CMR	1000	305	24.9	11.3	24 AWG			Bonded-Pair									
White, Reel	**24598331**	CEC:	1640	500	40.8	18.5	Solid BC			Unshielded									
		CMR								U/UTP									



Rip Cord

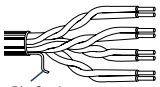
4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Plenum • Polyolefin/FEP Insulation • Low-Smoke PVC Jacket

White, Box	**24570810**	NEC:	1000	305	22.0	9.98	0.51 mm	0.035	0.90	Non-	0.188	4.78							see above
Blue, Box	**24570800**	CMP					24 AWG			Bonded-Pair									
White, Reel	**24570808**	CEC:					Solid BC			Unshielded									
Blue, Reel	**24570812**	CMP								U/UTP									



Rip Cord

4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

DataTwist® 6 U/UTP Cables

TIA/EIA-568-B.2, Category 6,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Unbonded-Pair • Solid 0.6 mm Bare Copper • Twisted Pair																			
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	7965E	B-328	B-100	9.5	4.3	0.57 mm	0.040	1.01	Non-Bonded-Pair Unshielded U/UTP	0.244	6.20	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
		U-1000	U-305	28.9	13.1	23 AWG						4	3.8	63.0	59.4	53.0	100 ± 15	23.0
		1000	305	28.9	13.1	Solid BC						10	6.0	57.0	51.3	45.0	100 ± 15	25.0
		1640	500	47.4	21.5							16	7.6	54.0	46.6	41.0	100 ± 15	25.0
		3280	1000	94.8	43.0							20	8.5	53.0	44.3	39.0	100 ± 15	25.0
												25	9.6	51.0	41.8	37.0	100 ± 15	24.3
												31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
												62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
												100	19.9	42.0	22.4	25.0	100 ± 15	20.1
												155	25.3	39.0	14.1	21.0	100 ± 22	18.8
												200	29.1	38.0	8.6	19.0	100 ± 22	18.0
												250	33.0	36.0	3.3	17.0	100 ± 22	17.3
	4-Pair	Color Code: see chart below 305 m, 500 m and 1000 m put-up available in Blue only.								Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2									
Polyolefin Insulation • FRNC/LSNH Jacket (Grey or Blue)																			
	7965ENH	B-328	B-100	9.5	4.3	0.57 mm	0.040	1.01	Non-Bonded-Pair Unshielded U/UTP	0.244	6.20							see above
		1000	305	28.9	13.1	23 AWG												
		1640	500	47.4	21.5	Solid BC												
		3280	1000	94.8	43.0													
	4-Pair	Color Code: see chart below								Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2 Burning Energy: 478 kJ/m									

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

DataTwist® 5e U/UTP Cables

ANSI/TIA/EIA-568-B.2, Category 5e, Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair																			
Polyolefin Insulation • PVC Jacket (White, Black, Grey, Blue, Red, Orange, Yellow, Green and Pink)																			
	1583A	NEC:	U-1000	U-305	20.9	9.5	0.51 mm	0.037	0.93	Non-	0.195	4.95	1	2.0	62.3	60.3	60.8	100 ± 15	20.0
		CM	1000	305	20.9	9.5	24 AWG			Bonded-Pair			4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CEC:	1640	500	34.6	15.7	Solid BC			Unshielded			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CM	3000	914	63.1	28.6				U/UTP			16	8.2	44.3	36.0	36.7	100 ± 15	25.0
													31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	19.0	24.9	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													200	32.0	27.8	1.0	14.7	100 ± 25	15.0
Rip Cord																			
4-Pair		Color Code: see chart below 500 m put-up available in Dark Grey or Blue only. 914 m put-up available in Dark Grey, White or Blue only.					Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.												
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	1583E		B-328	B-100	6.1	2.8	0.51 mm	0.037	0.93	Non-	0.197	5.00							see above
			U-1000	U-305	18.7	8.5	24 AWG			Bonded-Pair									
			1000	305	18.7	8.5	Solid BC			Unshielded									
			1640	500	30.9	14.0				U/UTP									
			3280	1000	61.7	28.0													
Rip Cord																			
4-Pair		Color Code: see chart below 500 m put-up available in Grey only.					Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2												
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	1583ENH	CSA FT1	B-328	B-100	6.1	2.8	0.51 mm	0.037	0.93	Non-	0.197	5.00							see above
		UL CM	U-1000	U-305	18.7	8.5	24 AWG			Bonded-Pair									
		UL ISDI	1000	305	18.7	8.5	Solid BC			Unshielded									
		(Vertical Tray)	1640	500	30.9	14.0				U/UTP									
			3280	1000	61.7	28.0													
Rip Cord																			
4-Pair		Color Code: see chart below 1000 m put-up available in Grey only.					Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2 Burning Energy: 310 kJ/m												
Polyolefin Insulation • UV Resistant PVC Jacket (Grey, White and Ivory)																			
Indoor/ Outdoor	**1594A**	NEC:	U-1000	U-305	26.0	11.8	0.51 mm	0.034	0.87	Non-	0.220	5.58							see above
		CMR/CMX					24 AWG			Bonded-Pair									
		CEC:					Solid BC			Unshielded									
		CMR/CMX								U/UTP									
Rip Cord																			
4-Pair		Color Code: see chart below					Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.												
Outside Plant • Polyolefin Insulation • Black Gel-Filled Polyethylene Jacket																			
Outdoor	**7997A**		U-1000	U-305	37.9	17.2	0.51 mm	0.041	1.04	Non-	0.251	6.38	1	2.0	68.3	66.3	64.8	100 ± 15	20.0
							24 AWG			Bonded-Pair			4	4.0	59.3	55.3	52.8	100 ± 15	23.0
							Solid BC			Unshielded			10	6.4	53.3	46.9	44.8	100 ± 15	25.0
										U/UTP			16	8.1	50.2	42.1	40.7	100 ± 15	25.0
													31.25	11.4	45.9	34.5	34.9	100 ± 15	23.6
													62.5	16.4	41.4	25.0	28.9	100 ± 15	21.5
													100	21.0	38.3	17.3	24.8	100 ± 15	20.1
													200	30.5	33.8	3.3	18.8	100 ± 22	18.0
Rip Cord																			
4-Pair		Color Code: see chart below					Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.												

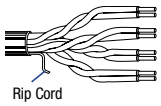
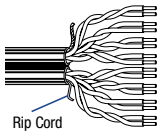
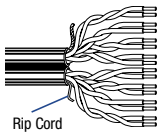
BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

DataTwist® 5e U/UTP Cables

TIA/EIA-568-B.2, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair																			
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Grey, White, Black, Pink, Natural and Blue)																			
	1585A	NEC:	U-1000	U-305	23.1	10.5	0.51 mm	0.035	0.88	Non-	0.198	5.03	1	2.0	62.3	60.3	60.8	100 ± 15	20.0
		CMP	1000	305	24.0	10.9	24 AWG			Bonded-Pair			4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CEC:	3000	915	69.2	31.4	Solid BC			Unshielded			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CMP FT6								U/UTP			16	8.2	44.3	36.0	36.7	100 ± 15	25.0
													31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	19.0	24.9	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													200	32.0	27.8	1.0	14.7	100 ± 25	15.0
 Rip Cord																			
4-Pair			Color Code: see chart below 915 m put-up available in Natural or Blue only.							Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.									
Polyolefin Insulation • Grey PVC Jacket																			
	1667E	CSA FT1	B-328	B-100	12.3	5.6	0.51 mm	0.035	0.89	Non-	0.197	5.00	1	2.1	62.0	60.2	61.0	100 ± 15	20.0
		UL CM	1000	305	37.5	17.0	24 AWG			Bonded-Pair	x	x	4	4.0	53.0	49.3	49.0	100 ± 15	23.0
		UL ISDI	1640	500	61.7	28.0	Solid BC			Unshielded	0.413	10.50	8	5.7	49.0	43.1	43.0	100 ± 15	24.5
		(Vertical Tray)								U/UTP			10	6.3	47.0	41.0	41.0	100 ± 15	25.0
													16	8.0	44.0	36.2	37.0	100 ± 15	25.0
													20	9.0	43.0	33.8	35.0	100 ± 15	23.6
													25	10.1	41.0	31.2	33.0	100 ± 15	24.3
													31.25	11.4	40.0	28.5	31.0	100 ± 15	23.6
													62.5	16.5	35.0	18.8	25.0	100 ± 15	21.5
													100	21.3	32.0	11.0	41.0	100 ± 15	20.1
 Rip Cord																			
8-Pair, Twin			Color Code: see chart below							Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2									
Polyolefin Insulation • Grey FRNC/LSNH Jacket																			
	1667ENH	CSA FT1	B-328	B-100	12.3	5.6	0.51 mm	0.035	0.89	Non-	0.197	5.00							see above
		UL CM	1000	305	37.5	17.0	24 AWG			Bonded-Pair	x	x							
		UL ISDI	1640	500	61.7	28.0	Solid BC			Unshielded	0.413	10.50							
		(Vertical Tray)	3280	1000	123.5	56.0				U/UTP									
 Rip Cord																			
8-Pair, Twin			Color Code: see chart below							Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2 Burning Energy: 621 kJ/m									

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

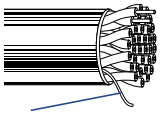
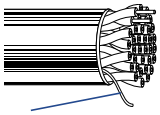
Teflon® is a DuPont trademark.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

IBDN Plus 25-Pair Cat5e U/UTP Cables

TIA/EIA-568-B.2, Category 5e,
Enhanced Category 5e, Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • Grey PVC Jacket																			
Grey, Reel	**24576125**	NEC: CMP CEC: CMR	1000	305	119.0	54.0	0.51 mm 24 AWG Solid BC	0.041	1.03	Non-Bonded-Pair Unshielded U/UTP	0.490	12.45	0.772	1.8	64.0	63.0	–	100 ± 15	19.4
													1	2.0	62.3	63.8	–	100 ± 15	20.0
													4	4.1	53.3	48.8	–	100 ± 15	23.0
													8	15.8	48.8	42.7	–	100 ± 15	24.5
													10	16.5	47.3	40.8	–	100 ± 15	25.0
													16	8.2	44.2	36.7	–	100 ± 15	25.0
													20	9.3	42.8	34.8	–	100 ± 15	25.0
													25	10.4	41.3	32.8	–	100 ± 15	24.3
													31.25	11.7	39.9	30.9	–	100 ± 15	23.6
													62.5	17.0	35.4	24.9	–	100 ± 15	21.5
													100	22.0	32.3	20.8	–	100 ± 15	20.1
 Rip Cord																			
25-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially market at 0.6 m intervals.									
Polyolefin Insulation • Grey FRNC/LSNH Jacket																			
Grey, Reel	**24577125**	NEC: CMP CEC: CMP	1000	305	127.0	57.6	0.51 mm 24 AWG Solid BC	0.041	1.03	Non-Bonded-Pair Unshielded U/UTP	0.429	10.90							see above
 Rip Cord																			
25-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially market at 0.6 m intervals.									

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

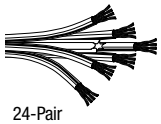
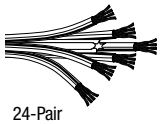
Color Code

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate

Pair No.	Tip	Ring
16	Yellow	Blue
27	Yellow	Orange
38	Yellow	Green
49	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate

DataTwist® 350 Composite U/UTP Cables

ANSI/TIA/EIA-568-B.2, Category 5e,
Banana Peel® Jacketless Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord																			
Polyolefin Insulation • PVC Inner Jacket (Light Blue and Grey) **• No Overall Jacket**																			
	1700S6	NEC:	500	152	77.6	35.2	0.51 mm	0.038	0.97	**Bonded-Pair**	0.204	5.18	1	2.0	65.3	63.3	60.8	100 ± 12	20.0
		CMR	1000	305	149.1	67.7	24 AWG			Unshielded			10	6.4	50.3	43.9	40.8	100 ± 12	25.0
		CEC:					Solid BC			U/UTP			16	8.1	47.3	39.1	36.7	100 ± 12	25.0
		CMG											31.25	11.6	42.9	31.3	30.9	100 ± 15	23.6
													62.5	16.8	38.4	21.6	24.9	100 ± 15	21.5
													100	21.7	35.3	17.1	20.8	100 ± 15	20.1
													200	32.0	30.8	3.0	14.7	100 ± 20	19.0
													250	36.4	29.3	> 0	12.8	100 ± 20	18.0
													350	44.3	27.2	–	9.9	100 ± 22	17.0
 24-Pair																			
1700R Bundled 0.60/15.24			Color Code: see chart below							Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e U.S. Patents 5,606,151; 5,734,126; 7,049,523.								
Plenum • FEP Insulation • Flamarrest® Inner Jacket (Blue and Natural) **• No Overall Jacket**																			
	1701S6	NEC:	500	152	81.6	37.0	0.51 mm	0.036	0.91	**Bonded-Pair**	0.195	4.95							see above
		CMP	1000	305	157.1	71.3	24 AWG			Unshielded									
		CEC:					Solid BC			U/UTP									
		CMP																	
 24-Pair																			
1700R Bundled 0.60/15.24			Color Code: see chart below							Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e U.S. Patents 5,606,151; 5,734,126; 7,049,523.								

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

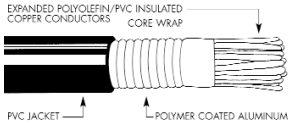
Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Data Grade Armored Riser 25-Pair U/UTP Cables

TIA/EIA-568-A, Category 5,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
Cat 5 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Flame Retardant Polymer Insulation • ALVYAN Sheath • PVC Jacket																			
Grey, Reel	**25500027**	NEC:	8200	2500	205.0	93.0	0.51 mm	0.039	0.98	Non-	0.618	15.70	0.772	1.8	64.0	–	–	100 ± 15	–
Grey, Reel	**25500028**	CMR					24 AWG			Bonded-Pair			1	2.1	62.3	–	–	100 ± 15	23.0
		CEC:					Solid BC			Unshielded			4	4.3	53.3	–	–	100 ± 15	23.0
		CMR								U/UTP			8	5.9	48.8	–	–	100 ± 15	23.0
													10	6.6	47.3	–	–	100 ± 15	23.0
													16	8.2	44.3	–	–	100 ± 15	23.0
													20	9.2	42.8	–	–	100 ± 15	23.0
													25	10.5	41.3	–	–	100 ± 15	22.0
													31.25	11.8	40.9	–	–	100 ± 15	21.0
													62.5	17.1	35.4	–	–	100 ± 15	18.0
													100	22.0	32.3	–	–	100 ± 15	16.0



25-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-A, Category 5
Jacket sequentially market at 0.6 m intervals. Featuring descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

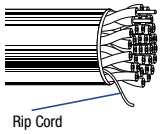
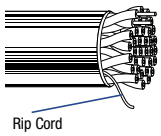
Color Code

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate

Pair No.	Tip	Ring
16	Yellow	Blue
27	Yellow	Orange
38	Yellow	Green
49	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate

DataTwist® 5 U/UTP Cables

TIA/EIA-568-A, Category 5, Non-Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Light Grey and Blue)																			
	1864A	NEC: CMR CEC: CMR FT4	1000	305	144.2	65.4	0.51 mm 24 AWG Solid BC	0.041	1.03	Non-Bonded-Pair Unshielded U/UTP	0.526	13.36	1	2.0	62.3	–	–	100 ± 15	23.0
													10	6.5	47.3	–	–	100 ± 15	23.0
													16	8.2	44.3	–	–	100 ± 15	23.0
													31.25	11.7	39.9	–	–	100 ± 15	21.1
													62.5	17.1	35.4	–	–	100 ± 15	18.0
													100	22.0	32.3	–	–	100 ± 15	16.0
 Rip Cord																			
25-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-A, Category 5 Jacket sequentially marked at 0.6 m intervals.									
Plenum • FEP Teflon® Insulation • FEP Jacket (Blue Tint and White Tint)																			
	1871A	NEC: CMP CEC: CMP	1000	305	131.2	59.5	0.51 mm 24 AWG Solid BC	0.041	1.03	Non-Bonded-Pair Unshielded U/UTP	0.430	10.92							see above
 Rip Cord																			
25-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-A, Category 5 Jacket sequentially marked at 0.6 m intervals.									

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
Teflon® is a DuPont trademark.

Color Code 1864A

Pair No.	Color
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Grey
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Grey
11	Black & Blue
12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Grey
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Grey
21	Purple & Blue
22	Purple & Orange
23	Purple & Green
24	Purple & Brown
25	Purple & Grey

Color Code 1871A

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown
5	White/Grey Stripe, Grey
6	Red/Blue Stripe, Blue
7	Red/Orange Stripe, Orange
8	Red/Green Stripe, Green
9	Red/Brown Stripe, Brown
10	Red/Grey Stripe, Grey
11	Black/Blue Stripe, Blue
12	Black/Orange Stripe, Orange
13	Black/Green Stripe, Green
14	Black/Brown Stripe, Brown
15	Black/Grey Stripe, Grey
16	Yellow/Blue Stripe, Blue
17	Yellow/Orange Stripe, Orange
18	Yellow/Green Stripe, Green
19	Yellow/Brown Stripe, Brown
20	Yellow/Grey Stripe, Grey
21	Purple/Blue Stripe, Blue
22	Purple/Orange Stripe, Orange
23	Purple/Green Stripe, Green
24	Purple/Brown Stripe, Brown
25	Purple/Grey Stripe, Grey

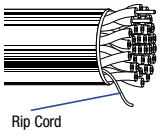
DataTwist® 3 U/UTP Cables

TIA/EIA-568-A, Category 3,
Non-Bonded-Pair Cables

Description	Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

Cat 3 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord

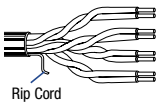
Polyolefin Insulation • Grey PVC Jacket



	NEC: CMR CEC: CMR						0.51 mm 24 AWG Solid BC	0.035	0.90	Non-Bonded-Pair Unshielded U/UTP			100	70%	19.0	62.3	1 4 10 16	7.8 17.0 30.0 40.0	2.6 5.6 9.7 13.1
1227A1	2-Pair	U-1000	U-305	13.2	6.0						0.173	4,39							
1229A1	4-Pair	U-1000	U-305	22.0	10.0						0.197	5.00							
1232A1	25-Pair	† 1000	305	104.1	47.2						0.399	10.14							

Color Code: see chart below
Third party verified to TIA/EIA-568-A, Category 3 • Jacket sequentially marked at 0.6 m intervals.

Plenum • Low-Smoke PVC Insulation • White Low-Smoke PVC Jacket



	NEC: CMP CEC: CMP						0.51mm 24 AWG Solid BC	0.038	0.96	Non-Bonded-Pair Unshielded U/UTP			100	61%	19.0	62.3			see above
1243A2	2-Pair	U-1000	U-305	14.1	6.4						0.170	4.32							
1245A2	4-Pair	U-1000	U-305	22.9	10.4						0.200	5.08							

Color Code: see chart below
Third party verified to TIA/EIA-568-A, Category 3 • Jacket sequentially marked at 0.6 m intervals.

BC = Bare Copper • DCR = DC resistance
† 25-pair NEXT is Power Sum tested.

Not RoHS compliant at time of printing.

Color Code

Pair No.	Color
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Grey Stripe & Grey/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Grey Stripe & Grey/Red Stripe

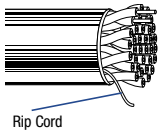
Color Code

Pair No.	Color
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Grey Stripe & Grey/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Grey Stripe & Grey/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Grey Stripe & Grey/Purple Stripe

D-Series Multipair U/UTP Cables

TIA/EIA-568-A, Category 3,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 3 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • LSNH Jacket (Grey or Blue)																			
Olive Grey, Reel							0.51 mm 24 AWG Solid BC	0.031	0.80	Non- Bonded-Pair Unshielded U/UTP			1 4 8 10 16	2.6 5.6 8.5 9.7 13.1	41.0 32.0 28.0 26.0 23.0	– – – – –	– – – – –	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15	12.0 12.0 12.0 12.0 10.0
NN00097	25-Pair	1000 3280	305 1000	107.4 352.0	48.8 160.0						0.417	10.60							
NN00099	50-Pair	1000 3280	305 1000	199.3 653.4	90.6 297.0						0.630	16.00							
NN00101	100-Pair	1575 3280	480 1000	370.4 1214.4	168.4 552.0						0.827	21.00							



Color Code: see chart below
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA-568-A

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

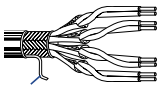
Pair No.	Tip	Ring
1	White/Blue	Blue/White
2	White/Orange	Orange/White
3	White/Green	Green/White
4	White/Brown	Brown/White
5	White/Slate	Slate/White
6	Red/Blue	Blue/Red
7	Red/Orange	Orange/Red
8	Red/Green	Green/Red
9	Red/Brown	Brown/Red
10	Red/Slate	Slate/Red
11	Black/Blue	Blue/Black
12	Black/Orange	Orange/Black
13	Black/Green	Green/Black
14	Black/Brown	Brown/Black
15	Black/Slate	Slate/Black

Pair No.	Tip	Ring
16	Yellow/Blue	Blue/Yellow
27	Yellow/Orange	Orange/Yellow
38	Yellow/Green	Green/Yellow
49	Yellow/Brown	Brown/Yellow
20	Yellow/Slate	Slate/Yellow
21	Violet/Blue	Blue/Violet
22	Violet/Orange	Orange/Violet
23	Violet/Green	Green/Violet
24	Violet/Brown	Brown/Violet
25	Violet/Slate	Slate/Violet

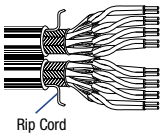
Category 7 S/FTP Cables

EN 50173, ISO/IEC 11801, TIA/EIA-568-TSB 36, Class F, Category 7, Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
Cat 7 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Individual **Beldfoil®** + Overall Tinned Copper Braid • Rip Cord																			
Foam Skin Polyolefin Insulation • PVC Jacket (Grey, Blue and Yellow)																			
	1885ENH		B-328	B-100	13.2	6.0	0.57 mm	0.057	1.45	Non-Bonded-Pair Individual Beldfoil® + Overall TC Braid S/FTP	0.315	8.00	1	2.0	75.0	73.0	75.0	100 ± 15	20.0
			1640	500	66.1	30.0	23 AWG						4	3.7	75.0	71.3	75.0	100 ± 15	23.0
			3280	1000	132.3	60.0	Solid BC						10	5.9	75.0	69.1	71.0	100 ± 15	25.0
													16	7.4	75.0	67.6	67.0	100 ± 15	25.0
													20	8.3	75.0	66.7	65.0	100 ± 15	25.0
													31.25	10.4	75.0	64.6	61.0	100 ± 15	23.6
													62.5	14.9	72.0	57.6	55.0	100 ± 15	21.5
													100	19.0	69.0	50.4	51.0	100 ± 15	20.1
													155	24.0	67.0	42.6	47.0	100 ± 22	18.8
													200	27.5	65.0	37.4	45.0	100 ± 22	18.0
													300	34.2	62.0	28.1	41.0	100 ± 25	16.8
													600	50.1	58.0	7.6	35.0	100 ± 25	14.7
													1000	66.9	54.0	–	31.0	100 ± 25	13.1
			Color Code: see chart below 500 m put-up not available in Grey.							Burning Energy: 500 kJ/m									
Foam Skin Polyolefin Insulation • PVC Jacket (Grey, Blue and Yellow)																			
	1887ENH		328	100	26.5	12.0	0.57 mm	0.057	1.45	Non-Bonded-Pair Individual Beldfoil® + Overall TC Braid S/FTP	0.650	16.50							see above
			1640	500	132.3	60.0	23 AWG Solid BC												
			Color Code: see chart below 100 m put-up available in Grey only.							Burning Energy: 1000 kJ/m									



4-Pair



8-Pair, Twin

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

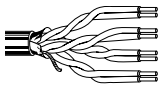
Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Category 6 F/UTP Cables

EN 50173, ISO/IEC 11801, Class E, Category 6,
Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 26 AWG Tinned Copper Drain Wire																			
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	7860ENH		B-328	B-100	11.0	5.0	0.57 mm	0.046	1.17	**Bonded-Pair**	0.287	7.30	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
			1640	500	54.9	24.9	23 AWG			Overall			4	3.8	63.0	59.4	53.0	100 ± 15	23.0
			3280	1000	110.2	50.0	Solid BC			Beldfoil®			10	6.0	57.0	51.3	45.0	100 ± 15	25.0
										+ Drain Wire			16	7.6	54.0	46.6	41.0	100 ± 15	25.0
										(26 AWG TC)			20	8.5	53.0	44.3	39.0	100 ± 15	25.0
										F/UTP			25	9.6	51.0	41.8	37.0	100 ± 15	24.3
													31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
													62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
													100	19.9	42.0	22.4	25.0	100 ± 15	20.1
													155	25.3	39.0	14.1	21.0	100 ± 22	18.8
													200	29.1	38.0	8.6	19.0	100 ± 22	18.0
													250	33.0	36.0	3.3	17.0	100 ± 22	17.3
			Color Code: see chart below							Burning Energy: 560 kJ/m									

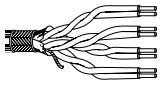


4-Pair

Category 6 SF/UTP Cables

EN 50173, ISO/IEC 11801, Class E, Category 6,
Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 26 AWG TC Drain Wire • Overall TC Braid																			
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	7860ENS		B-328	B-100	12.5	5.7	0.57 mm	0.046	1.17	**Bonded-Pair**	0.295	7.50	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
			1640	500	62.8	28.5	23 AWG			Overall			4	3.8	63.0	59.4	53.0	100 ± 15	23.0
			3280	1000	125.4	56.9	Solid BC			Beldfoil®			10	6.0	57.0	51.3	45.0	100 ± 15	25.0
										+ Drain Wire			16	7.6	54.0	46.6	41.0	100 ± 15	25.0
										(26 AWG TC)			20	8.5	53.0	44.3	39.0	100 ± 15	25.0
										+ TC Braid			25	9.6	51.0	41.8	37.0	100 ± 15	24.3
										SF/UTP			31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
													62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
													100	19.9	42.0	22.4	25.0	100 ± 15	20.1
													155	25.3	39.0	14.1	21.0	100 ± 22	18.8
													200	29.1	38.0	8.6	19.0	100 ± 22	18.0
													250	33.0	36.0	3.3	17.0	100 ± 22	17.3
			Color Code: see chart below							Burning Energy: 560 kJ/m									



4-Pair
Braided 7860E

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

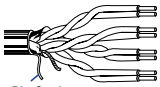
See page 15.37 for details.
(Part No. 1797B)

DataTwist® 5e F/UTP Cables

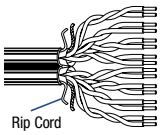
EN 50173, ISO/IEC 11801, Class D, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	1633E		B-328	B-100	9.5	4.3	0.51 mm	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.236	6.00	1	2.1	62.0	60.2	61.0	100 ± 15	20.0
			1000	305	28.7	13.0	24 AWG						4	4.0	53.0	49.3	49.0	100 ± 15	23.0
			1640	500	47.4	21.5	Solid BC						8	5.7	49.0	43.1	43.0	100 ± 15	24.5
			3280	1000	94.8	43.0							10	6.3	47.0	41.0	41.0	100 ± 15	25.0
													16	8.0	44.0	36.2	37.0	100 ± 15	25.0
													20	9.0	43.0	33.8	35.0	100 ± 15	25.0
													25	10.1	41.0	31.2	33.0	100 ± 15	24.3
													31.25	11.4	40.0	28.5	31.0	100 ± 15	23.6
													62.5	16.5	35.0	18.8	25.0	100 ± 15	21.5
													100	21.3	32.0	11.0	21.0	100 ± 15	20.1
			Color Code: see chart below																
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	1633ENH		B-328	B-100	9.5	4.3	0.51 mm	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.236	6.00							see above
			1000	305	28.7	13.0	24 AWG												
			1640	500	47.4	21.5	Solid BC												
			3280	1000	94.8	43.0													
			Color Code: see chart below 500 m put-up available in Blue only.							Burning Energy: 464 kJ/m									
Polyolefin Insulation • Grey PVC Jacket																			
	1668E		B-164	B-50	18.9	8.6	0.51 mm	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.236 x 0.531	6.00 x 13.50							see above
			1000	305	57.3	26.0	24 AWG												
			1640	500	94.8	43.0	Solid BC												
			Color Code: see chart below																
Polyolefin Insulation • FRNC/LSNH Grey Jacket																			
	1668ENH		1640	500	94.8	43.0	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.236 x 0.531	6.00 x 13.50							see above
			Color Code: see chart below							Burning Energy: 929 kJ/m									

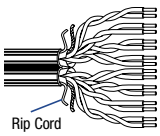
4-Pair



4-Pair



8-Pair, Twin



8-Pair, Twin

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)

DataTwist® 5e SF/UTP Cables

EN 50173, ISO/IEC 11801, Class D, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG TC Drain Wire • Overall TC Braid • Rip Cord																			
Polyolefin Insulation • Grey PVC Jacket																			
	1633ES		B-328	B-100	10.6	4.8	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.248	6.30	1	2.1	62.0	60.2	61.0	100 ± 15	20.0
			1000	305	32.2	14.6							4	4.0	53.0	49.3	49.0	100 ± 15	23.0
			1640	500	52.9	24.0							8	5.7	49.0	43.1	43.0	100 ± 15	24.5
			3280	1000	105.8	48.0							10	6.3	47.0	41.0	41.0	100 ± 15	25.0
													16	8.0	44.0	36.2	37.0	100 ± 15	25.0
													20	9.0	43.0	33.8	35.0	100 ± 15	25.0
													25	10.1	41.0	31.2	33.0	100 ± 15	24.3
													31.25	11.4	40.0	28.5	31.0	100 ± 15	23.6
													62.5	16.5	35.0	18.8	25.0	100 ± 15	21.5
													100	21.3	32.0	11.0	21.0	100 ± 15	20.1
	4-Pair Braided 1633E		Color Code: see chart below																
Polyolefin Insulation • Grey FRNC/LSNH Jacket																			
	1633ENS		1640	500	52.9	24.0	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.248	6.30							see above
	4-Pair Braided 1633ENH		Color Code: see chart below							Burning Energy: 505 kJ/m									
Polyolefin Insulation • Grey PVC Jacket																			
	1668ES		B-164	B-50	10.6	4.8	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.543	13.80							see above
			1000	305	64.4	29.2													
			1640	500	105.8	48.0													
	8-Pair, Twin		Color Code: see chart below																
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	1668ENS		1640	500	105.8	48.0	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.543	13.80							see above
	8-Pair, Twin		Color Code: see chart below							Burning Energy: 1010 kJ/m									

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

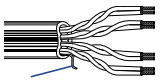
MediaTwist® and DataTwist® 6 U/UTP Patch Cables

TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6, Bonded-Pair Cables

Cat 6 • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper • RJ-45 Compatible

Polyolefin Insulation • PVC Jacket (Yellow, Green, Blue, Violet, Light Grey, Grey, White and Black)

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
MediaTwist®	**1875GB**	NEC:	1000	305	31.1	14.1	0.61 mm	0.041	1.05	**Bonded-Pair**	0.365	9.27	1	1.9	72.3	70.0	64.8	100 ± 12	20.0
		CMR	A-1000	A-305	32.0	14.5	24 AWG			Unshielded	x	x	4	3.7	63.3	59.0	52.8	100 ± 12	23.0
		CEC:					(7x32) TC			U/UTP	0.165	4.19	8	5.3	58.8	53.0	46.7	100 ± 12	24.5
		CMR											10	5.9	57.3	51.0	44.8	100 ± 12	25.0
													16	7.5	54.3	46.0	40.7	100 ± 12	25.0
													25	9.5	51.4	42.0	36.8	100 ± 15	24.3
													31.25	10.6	49.9	39.0	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.9	100 ± 15	21.5
													100	19.8	42.3	25.0	24.8	100 ± 15	21.0
													155	25.1	39.5	14.0	20.9	100 ± 15	21.0
													200	29.0	37.8	10.0	18.8	100 ± 15	21.0
													250	32.8	36.3	3.0	16.8	100 ± 20	18.0
													300	35.2	35.2	> 0	15.2	100 ± 20	18.0
													350	39.8	34.2	–	13.9	100 ± 22	17.0
													400	43.0	–	–	–	100 ± 32	14.0
													500	49.0	–	–	–	100 ± 32	14.0



Rip Cord

4-Pair

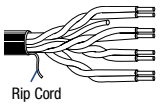
Color Code: see chart below*
305 m put-up not available in Purple.
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch
U.S. Patents 5,606,151; 5,734,126; 5,763,823 and 5,821,467
Jacket sequentially marked at 0.6 m intervals.

Cat 6 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Central Slit-Film Filler • RJ-45 Compatible

Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, Blue, Violet, White and Black)

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
DataTwist®	**7883A**	NEC:	1000	305	24.0	10.9	0.51 mm	0.038	0.97	**Bonded-Pair**	0.205	5.21	1	2.4	72.3	69.9	64.8	100 ± 15	20.0
		CM					24 AWG			Unshielded			10	7.1	57.3	50.2	44.8	100 ± 15	25.0
		CEC:					Solid BC			U/UTP			20	10.2	52.8	42.6	38.8	100 ± 15	25.0
		CM											31.25	12.8	49.9	37.1	34.9	100 ± 15	23.6
													62.5	18.5	45.4	26.9	28.9	100 ± 15	21.5
													100	23.8	42.3	18.5	24.8	100 ± 15	20.1
													200	34.8	37.8	3.0	18.8	100 ± 22	18.0
													250	39.4	36.3	–	16.8	100 ± 32	17.3



Rip Cord

4-Pair

Color Code: see chart below*

Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch
Jacket sequentially marked at 0.6 m intervals.

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Color rotation available for T568-A or T568-B wiring schemes.

Color Code 1875GB

Pair No.	Color
1	White/Brown Stripe, Brown
2	White/Blue Stripe, Blue
3	White/Green Stripe, Green
4	White/Orange Stripe, Orange

Color Code 7883A

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

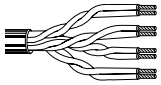
Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)

DataTwist® 350 U/UTP Patch Cables

TIA/EIA-568-B.2, Category 5e,
Enhanced Category 5e, Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper • RJ-45 Compatible																			
Polyolefin Insulation • PVC Jacket (Yellow, Green, Blue, Violet, Light Grey, Grey, White and Black)																			
	1752A	NEC:	U-1000	U-305	24.0	10.9	0.61 mm	0.038	1.00	**Bonded-Pair**	0.220	5.59	1	2.4	65.3	62.9	60.8	100 ± 12	20.0
		CM	1000	305	26.0	11.8	24 AWG			Unshielded			4	4.8	56.3	51.5	48.7	100 ± 12	23.0
		CEC:					(7x32) TC			U/UTP			8	6.8	51.8	45.0	42.7	100 ± 12	24.5
		CM											10	7.7	50.3	42.6	40.8	100 ± 12	25.0
													16	9.7	47.3	37.5	36.7	100 ± 12	25.0
													25	12.4	44.3	31.9	32.8	100 ± 15	24.3
													31.25	13.9	42.9	29.0	30.9	100 ± 15	23.6
													62.5	20.2	38.4	18.3	24.9	100 ± 15	21.5
													100	26.0	35.3	9.2	20.8	100 ± 15	20.1
													155	33.2	32.5	–	16.9	100 ± 18	19.0
													200	38.4	30.8	–	14.7	100 ± 20	19.0
													250	43.7	29.3	–	12.8	100 ± 20	18.0
													350	53.2	27.2	–	9.9	100 ± 22	17.0



4-Pair

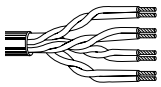
Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e Patch
U.S. Patents 5,606,151; 5,734,126 and 5,763,823
Jacket sequentially marked at 0.6 m intervals.

DataTwist® 5e U/UTP Patch Cables

TIA/EIA-568-B.2, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Stranded (7x32) 0.6 mm Bare Copper • Twisted Pair • RJ-45 Compatible*																			
Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, Blue, Violet, Light Grey, White and Black)																			
	1592A	NEC:	U-1000	U-305	22.0	10.0	0.61 mm	0.040	1.02	Non-	0.213	5.41	1	2.5	62.3	–	60.8	100 ± 15	20.0
		CM	1000	305	23.1	10.5	24 AWG			Bonded-Pair			4	4.9	53.3	–	48.7	100 ± 15	23.0
		CEC:					(7x32) BC			Unshielded			10	7.8	47.3	–	40.8	100 ± 15	25.0
		CM FT1								U/UTP			16	9.9	44.3	–	36.7	100 ± 15	25.0
													31.25	14.1	39.9	–	30.9	100 ± 15	23.6
													62.5	20.4	35.4	–	24.8	100 ± 15	21.5
													100	26.4	32.3	–	20.8	100 ± 15	20.1
													200	38.9	27.8	–	14.7	100 ± 25	15.0



4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e Patch
Jacket sequentially marked at 0.6 m intervals.

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk •
NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* RJ-45 compatible for either T568-A or T568-B configurations.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

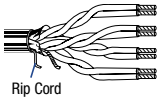
Get the Bonded-Pairs Cable Preparation Tool

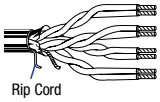
See page 15.37 for details.
(Part No. 1797B)

DataTwist® 5e F/UTP Patch Cables

EN 50173, ISO/IEC 11801, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 26 AWG • Stranded (7x34) 0.5 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG TC Drain Wire • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	1868E		1640	500	29.8	13.5	0.51 mm 26 AWG (7x34) BC	0.037	0.95	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.205	5.20	1	3.2	62.0	59.1	61.0	100 ± 15	20.0
			3280	1000	59.5	27.0							4	6.0	53.0	47.3	49.0	100 ± 15	23.0
													8	8.5	49.0	40.3	43.0	100 ± 15	24.5
													10	9.5	47.0	37.8	41.0	100 ± 15	25.0
													16	12.1	44.0	32.2	37.0	100 ± 15	25.0
													20	13.6	43.0	29.2	35.0	100 ± 15	25.0
													25	15.2	41.0	26.1	33.0	100 ± 15	24.3
													31.25	17.1	40.0	22.8	31.0	100 ± 15	23.6
													62.5	24.8	35.0	10.6	25.0	100 ± 15	21.5
													100	32.0	32.0	0.3	21.0	100 ± 15	20.1
	4-Pair		Color Code: see chart below																
Polyolefin Insulation • Grey FRNC/LSNH Jacket																			
	1868ENH		1640	500	29.8	13.5	0.51 mm 26 AWG (7x34) BC	0.037	0.95	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.205	5.20							see above
			3280	1000	59.5	27.0													
	4-Pair		Color Code: see chart below							Burning Energy: 355 kJ/m									





TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

VideoTwist® 6 U/UTP Cables for RGB Video

TIA/EIA-568-B.2-1, Category 6,
Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
NanoSkew™ • Category 6 • 23 AWG Bonded-Pairs • Solid 0.6 mm Bare Copper • **Skew 10.0 ns/100 m** Nominal • Rip Cord																			
Polyolefin Insulation • Blue PVC Jacket																			
300V RMS	**7989R**	NEC	1000	305	32.0	14.5	0.57 mm	0.042	1.06	Bonded-Pair	0.365	9.27	1	2.0	72.3	70.3	64.8	100 ± 15	20.0
		CMR	1640	500	52.5	23.8	23 AWG			Unshielded	x	x	4	3.8	63.3	59.5	52.7	100 ± 15	23.0
		CEC					Solid BC			U/UTP	0.165	4.19	8	5.3	58.8	53.4	46.7	100 ± 15	24.5
		CMR FT4											10	6.0	57.3	51.3	44.8	100 ± 15	25.0
													16	7.6	54.3	46.7	40.7	100 ± 15	25.0
													20	8.5	52.8	44.3	38.7	100 ± 15	25.0
													25	9.5	51.4	41.8	36.8	100 ± 15	24.3
													31.25	10.7	49.9	39.2	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
													100	19.8	42.3	22.5	24.8	100 ± 15	20.1
													155	25.2	39.5	14.3	20.9	100 ± 22	18.8
													200	29.0	37.8	8.8	18.7	100 ± 22	18.0
													250	32.8	36.3	3.5	16.8	100 ± 32	17.3
Rip Cord																			
4-Pair MediaTwist™ Construction																			
			Color Code: see chart below																
Plenum • Polyolefin Insulation • Blue PVC Jacket																			
300V RMS	**7989P**	NEC	1000	305	32.0	14.5	0.57 mm	0.039	1.00	Bonded-Pair	0.365	9.27							see above
		CMR	1640	500	52.5	23.8	23 AWG			Unshielded	x	x							
		CEC					Solid BC			U/UTP	0.165	4.19							
		CMR FT4																	
Rip Cord																			
4-Pair MediaTwist™ Construction																			
			Color Code: see chart below																

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

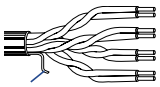
Get the Bonded-Pairs Cable Preparation Tool

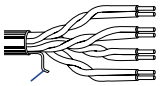
See page 15.37 for details.
(Part No. 1797B)

VideoTwist® 5e U/UTP Cables for RGB Video

TIA/EIA-568-B.2, Category 5e,
Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100 m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100 m	Min. PSUM ELFEXT dB/100 m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Twisted Pair • Skew 9.0 ns/100 nom. • Rip Cord																			
Polypropylene Insulation • Green PVC Jacket																			
	7988R	NEC:	1000	305	22.0	10.0	0.51 mm	0.038	0.97	**Bonded-Pair**	0.204	5.18	1	2.0	65.3	60.3	60.8	100 ± 15	20.0
		CMR	1640	500	36.2	16.4	24 AWG			Unshielded			4	4.1	53.3	49.3	48.7	100 ± 15	23.0
		CEC:					Solid BC			U/UTP			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CMG											16	8.2	44.3	36.0	36.7	100 ± 15	25.0
													31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													200	32.4	27.8	1.0	14.7	100 ± 15	15.0
4-Pair		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.										
Plenum • FEP Insulation • Green Flamarrest® Jacket																			
	7988P	NEC:	1000	305	22.9	10.4	0.51 mm	0.036	0.91	**Bonded-Pair**	0.193	4.90							see above
		CMP	1640	500	37.7	17.1	24 AWG			Unshielded									
		CEC:					Solid BC			U/UTP									
		CMP																	
4-Pair		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.										





BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)

IEEE 802.3, ISO/IEC 8802.3 10Base2 and 10Base5

Trunk Cables – Thinnet and Thicknet

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m

Thinnet 10Base2 • 20 AWG • Stranded (19x32) 0.9 mm Tinned Copper • **Duobond® II** • 93% Tinned Copper Braid

Ethernet • Foam HDPE Insulation • Grey PVC Jacket

30V 60°C	**9907**	NEC:	500	152	12.6	5.7	0.94 mm	0.102	2.59	Duobond® II	0.185	4.70	50	80%	25.4	83.3	1	0.4	1.4
UL AWM Style 1354		CL2, CM	U-1000	U-305	25.1	11.4	20 AWG			+ 93% TC							10	1.3	4.3
		CEC:	1000	305	25.1	11.4	(19x32) TC			19.0 Ω/km***							50	2.9	9.5
		CM	1640	500	41.0	18.6	47.9 Ω/km*										100	4.2	13.8
			2500	762	62.6	28.4	28.9 Ω/km**										200	6.1	20.0
			3280	1000	82.2	37.3											400	8.9	29.2
																	700	12.1	39.7
			DEC Part No. 17-01248-00														900	13.9	45.6
			For Plenum version of 9907, see 89907 or 82907.														1000	14.8	48.6

Plenum • Ethernet • Foam FEP Insulation • Natural Flamarrest® Jacket

300V 75°C	**82907**	NEC:	† 500	152	12.6	5.7	0.94 mm	0.095	2.41	Duobond® II	0.160	4.06	50	80%	25.4	83.3	1	0.4	1.4
		CL2P	U-1000	U-305	23.1	10.5	20 AWG			+ 93% TC							10	1.3	4.3
		CMP	† 1000	305	24.0	10.9	(19x32) TC			19.0 Ω/km***							50	2.9	9.5
		CEC:	† 2500	762	57.5	26.1	47.9 Ω/km*										100	4.2	13.8
		CMP					28.9 Ω/km**										200	6.1	20.0
																	400	9.2	30.2
																	700	12.9	42.3
																	900	15.0	49.2
																	1000	16.0	52.5

Plenum • Ethernet • Foam FEP Insulation • Grey Fluorocopolymer Jacket

300V 150°C	**89907**	NEC:	† 500	152	12.6	5.7	0.94 mm	0.095	2.41	Duobond® II	0.160	4.06	50	80%	25.4	83.3			see above
		CL2, CM	† 1000	305	24.0	10.9	20 AWG			+ 93% TC									
		CEC:	† 2500	762	60.2	27.3	(19x32) TC			19.0 Ω/km***									
		CM					47.9 Ω/km*												
							28.9 Ω/km**												
			DEC Part No. 17-01246-00																
			Suitable for outdoor and direct burial applications.																

Thinnet 10Base2 • 12 AWG • Solid 2.05 mm Bare Copper • **Duobond® IV** Quad Shield

Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket

30V 60°C	**9880**	NEC:	500	152	66.1	30.0	2.05 mm	0.243	6.17	Duobond® IV	0.405	10.29	50	78%	25.9	85.0	1	0.2	0.6
UL AWM Style 1478		CL2, CM	1000	305	131.2	59.5	12 AWG			Quad Shield							5	0.4	1.2
		CEC:	1640	500	220.2	99.9	Solid BC			5.0 Ω/km***							10	0.5	1.7
		CM					9.66 Ω/km*										50	1.2	3.9
							4.66 Ω/km**										100	1.7	5.6
																	200	2.6	8.4
																	400	3.9	12.8
																	700	5.5	18.1
			DEC Part No. 17-00451-00 5.0 Ω/km				Ring-band stripes marked every 2.5 meters to aid users in tap placement.										900	6.5	21.3
			For Plenum version of 9880, see 89880.														1000	6.9	22.6

Plenum • Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket

150°C	**89880**	NEC:	† 1000	305	134.3	60.9	2.05 mm	0.245	6.22	Duobond® IV*	0.375	9.53	50	78%	25.9	85.0	1	0.2	0.6
		CL2P	† 1640	500	225.1	102.1	12 AWG			Quad Shield							5	0.4	1.2
		CMP					Solid BC			5.0 Ω/km***							10	0.5	1.7
		CEC:					9.66 Ω/km*										50	1.1	3.8
		CMP					4.66 Ω/km**										100	1.6	5.4
																	200	2.5	8.0
																	400	3.8	12.5
																	700	5.6	18.4
			DEC Part No. 17-00324-00				Ring-band stripes marked every 2.5 meters to aid users in tap placement.										900	6.8	22.3
			Suitable for outdoor and direct burial applications.														1000	7.2	23.6

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

Duobond® II and Duobond® IV see technical information page 23.13.

Not RoHS compliant at time of printing.

IEEE 802.3, ISO/IEC 8802.3 10Base5

Transceiver Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
28 and 24 AWG • Stranded (7x36) 0.4 mm and (7x32) 0.6 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Polyester Isolation Tape + Duofoil® + 92% Tinned Copper Braid** • 24 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Light Grey PVC Jacket																		
30V 80°C UL AWM Style 2919	**9903**	NEC: CMG CEC: CMG	500 1000	152 305	21.6 43.0	9.8 19.5	3-Pair: 0.38 mm 28 AWG (7x36) TC	0.033	0.84	Individual Beldfoil® + Drain Wire (24 AWG TC) + Overall Duofoil® + 92% TC Braid	0.250	6.35	78*	66%	CDR/CDR	19.7 34.8	64.6 114.2	Grey/White, Yellow/Orange
							1-Pair: 0.61 mm 24 AWG (7x32) TC	0.044	1.12									Blue/Green, Black/Red
4-Pair * 3-Pair																		
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Polyester Isolation Tape + Duofoil® + 95% Tinned Copper Braid** • 22 AWG Tinned Copper Drain Wire																		
Datalene® Insulation • Light Grey PVC Jacket																		
30V 80°C UL AWM Style 2919	**9901**	NEC: CL2, CM CEC: CM	500 1000	152 305	53.6 106.3	24.3 48.2	1.0 mm 20 AWG (7x28) TC	0.077	1.96	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.415	10.54	78	78%	CDR/CDR	16.7 29.5	54.8 96.8	Grey/White Yellow/Orange, Blue/Green, Black/Red
4-Pair		DEC Part No. 17-01320-00																
Plenum • FEP Teflon® Insulation ** **• Light Grey Fluorocopolymer (PVDF) Jacket**																		
150°C	**89901**	NEC: CMP CEC: CMP	** 500 ** 1000	152 305	51.6 104.3	23.4 47.3	1.0 mm 20 AWG (7x28) TC	0.060	1.52	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.370	9.40	78	78%	CDR/CDR	16.7 29.5	54.8 96.8	Grey/White Yellow/Orange, Blue/Green, Black/Red
4-Pair		DEC Part No. 17-01319-00 Suitable for outdoor and direct burial applications.																
20 and 22 AWG • Stranded (7x30) 0.8 mm and (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Duofoil® + 95%Tinned Copper Braid** • 22 AWG Tinned Copper Drain Wire																		
Ethernet • Foam HDPE (22 AWG) and PVC (20 AWG) Insulation • Light Blue PVC Jacket																		
30V 80°C UL AWM Style 2919	**9891**	NEC: CM CEC: CM	100 500 1000	30 152 305	8.2 35.9 70.1	3.7 16.3 31.8	3-Pair: 0.76 mm 22 AWG (7x30) TC	0.063	1.59	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.315	8.00	78*	78%	CDR/CDR	16.7 29.5	54.8 96.8	Black/White Yellow/Orange, Blue/Green, Black/Red
							1-Pair: 0.96 mm 20 AWG (7x28) TC	0.062	1.57									Blue/Green, Grey/Violet
4-Pair * 3-Pair																		

TC = Tinned Copper • DCR = DC resistance • ** Foam FEP (data pairs) and solid FEP (power pair).
Duofoil® see technical information page 23.13. Teflon® is a DuPont trademark.

Not RoHS compliant at time of printing

IEEE 802.4, MAP & Mini-MAP, IEEE 802.7
Broadband Coaxial Cables

14 AWG • Solid 1.6 mm Copper-Covered Steel • **Duobond® IV** Quad Shield

Gas-Injected Foam Polyethylene Insulation • Grey PVC Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
	3094A	NEC:	500	152	31.1	14.1	1.63 mm	0.280	7.11	Duobond® IV	0.407	10.34	75	82%	16.2	53.1	1	0.2	0.5
		CL2R	1000	305	62.2	28.2	14 AWG			Quad Shield							2	0.2	0.6
		CMR	† 2000	610	121.9	55.3	Solid CCS			4.9 Ω/km***							5	0.3	0.9
		CEC:					20.0 Ω/km*			7.9 mm							10	0.4	1.2
		CMG					36.1 Ω/km**										20	0.5	1.8
																	50	0.8	2.7
																	100	1.2	3.8
																	200	1.6	5.3
RG-11/U Type			Tap marks every 2.6 meters to aid users in installation. 152 m and 305 m exact 1 pc.							Sweep tested 5 MHz to 400 MHz. CPE jacket optional.							300	2.0	6.6
																	400	2.3	7.6

IEEE 802.5, ISO/IEC 8802.5
IBM Cabling System
Types 1A and 1

IBM Type 1a • 22 AWG • Solid 0.6 mm Bare Copper • Each Pair Individually **Beldfoil®** Shielded • 65% Overall Tinned Copper Braid • Rip Cord

Flame-Retardant Foam Polyethylene Insulation • Black PVC Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
	IBM Part No. 9688	NEC:	† 500	152	26.5	12.0	0.64 mm	0.099	2.51	Individual	0.296	7.52	150	–	8.5	27.9	4	0.7	2.2
	4716748	CMG	† 1000	305	50.0	22.7	22 AWG			Beldfoil®	x	x					16	1.3	4.4
	33G2772	CEC:	† 2000	610	102.1	46.3	Solid BC			+ Overall	0.431	10.95					100	3.8	12.3
		CMG	† 3600	1098	190.7	86.5				65% TC Braid							300	6.5	21.4
																	100 ††	4.1	13.4
																	300 ††	7.1	23.3
																	600 ††	10.0	32.9
Rip Cord																			
2-Pair			Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For token ring (4/16 Mbps), FDDI over copper, and video applications. IBM qualified type 1A media cable for use in IBM cabling systems. For non-suffix "A" type IBM product, see 1634A below.																

BM Type 1 • 22 AWG • Solid 0.6 mm Bare Copper • Each Pair Individually **Beldfoil®** Shielded • 65% Overall Tinned Copper Braid • Rip Cord

Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
	IBM Part No. 1634A	NEC:	† 1000	305	50.0	22.7	0.64 mm	0.099	2.51	Individual	0.296	7.52	150	–	8.5	27.9	4	0.7	2.2
	4716748	CMG	† 2000	610	102.3	46.4	22 AWG			Beldfoil®	x	x					16	1.3	4.4
		CEC:	† 3600	1098	191.1	86.7	Solid BC			+ Overall	0.431	10.95							
		CMG								65% TC Braid									
Rip Cord																			
2-Pair			Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. IBM qualified type 1A media cable for use in IBM cabling systems. For token ring (4/16 Mbps), FDDI over copper, and video applications.																

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • CCS = Copper-Covered Steel • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.
†† Common mode

Duobond® IV see technical information page 23.13.

Not RoHS compliant at time of printing

IEEE 802.5, ISO/IEC 8802.5

IBM Cabling System
Types 2A and 6A

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
IBM Type 6a • 26 AWG • Stranded (7x34) 0.5 mm Bare Copper • Twisted Pair • Individual **Beldfoil®** • 65% Overall Tinned Copper Braid																			
Datalene® Insulation • Striated Black PVC Jacket																			
IBM Part No. 1215A 4716743 33G2775	NEC: CL2, CM CEC: CM	† 998	304	46.1	20.9	0.48 mm 26 AWG (7x34) BC	0.078	1.98	Individual Beldfoil® + 65% TC Braid	0.325	8.26	150	–	8.5	27.9	4 16 100 300	1.0 2.0 5.7 9.8	3.3 6.6 18.7 32.3
2-Pair		IBM qualified type 6A office cable for use in IBM cabling systems.																	
IBM Type 2a • 22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Individual **Beldfoil®** • 65% Overall Tinned Copper Braid • Rip Cord																			
Flame-Retardant Foam Polyethylene Insulation • Black PVC Jacket																			
IBM Part No. 9689 4716739 33G2773	NEC: CMG CEC: CMG	† 1000 † 3600	305 1098	80.2 299.4	36.4 135.8	2-Pair* 0.64 mm 22 AWG Solid BC	0.099	2.51	Beldfoil® Each Pair + 65% TC Braid	0.324 x 0.466	8.32 x 11.84	150@ 1 MHz (data)	–	8.5 (data)	27.9 (data)	0.1k** 4 16 100 300	0.04 0.7 1.3 3.8 6.5	0.1 2.2 4.4 12.3 21.4
						4-Pair* 0.64 mm 22 AWG Solid BC	0.045	1.14				600@ 1 KHz (voice)				100 †† 300 †† 600 ††	4.1 7.1 10.0	13.4 23.3 32.9
		IBM qualified type 2A media cable for use in IBM cabling systems.																	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.
†† Common mode
* (2) shielded Data-grade pair; (4) unshielded voice-grade media pair.
** Voice pairs (1 kHz); Data pairs (4-600 MHz)

Not RoHS compliant at time of printing