

DATA Sheet

GigaBIX Basic Components

GigaBIX Connector

The GigaBIX Connector is the core component of the GigaBIX Cross-Connect 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 and separation marks every 4 or 5-pair. They also have a keying feature that prevents 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 Designation Strip

The GigaBIX Designation Strips are plastic strips that snap between the GigaBIX Connectors to apply the designation labels.

GigaBIX Mount, 12-connector

The GigaBIX Mount is one of the basic components of the GigaBIX Cross-Connect System. It holds (12) GigaBIX Connectors and it is designed to accommodate up to (144) high-performance cables when used in a top-to-bottom cross-connect layout. The large openings in the metal base make it easy to bring cables in when mounted on a Cable Management Module in a side-to-side cross-connect layout.

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.

GigaBIX Termination Bar

The GigaBIX Termination Bar is a clear plastic component that is used to position the wires when terminating a GigaBIX Connector.

It is part of the GigaBIX Termination Kits and can also be procured separately as replacement component.

Note: All GigaBIX components part of the GigaBIX Termination Kits, can also be procured separately as replacement components.

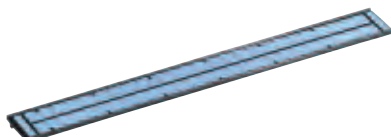
Features & Benefits

GigaBIX Connectors

- Beyond Category 6 performance providing additional margin to support gigabit applications
- Backwards compatibility with Category 5 and Category 5e applications to protect the investment in active equipment
- Eliminates risk of interoperability issues with non-standard connecting hardware to reduce network downtime
- Robust and installer-friendly connector design with proven contact reliability to reduce network operating costs
- High-density connector to reduce installation space requirements
- Built-in color-coded pair splitters to facilitate wire insertion and prevent termination errors
- Fully enclosed clips in plastic housing to prevent injuries and protect connections
- Snap into GigaBIX Mounts for easy, front-access insertion and removal.



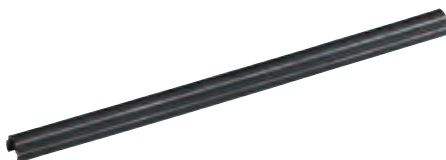
AX101447 GigaBIX Connector, 6-port



AX101483 GigaBIX Designation Strip



AX101472 GigaBIX Mount



AX101486 GigaBIX Wire Guard



AX101719 GigaBIX Termination Bar

GigaBIX Basic Components

GigaBIX Designation Strip

- Designation Strips have ridges on top and bottom to facilitate label alignment
- Easy to snap in and out for quick installation and maintenance.

GigaBIX Mount, 12-connector

- Deep 12-connector mount to accommodate up to (144) 4-pair Category 6 high-performance cables
- Openings at top, center and bottom in metal base for smooth cable entry
- Six wide cable tie holders to ease cable routing using velcro ties
- Robust and installer-friendly design to reduce installation cost
- Sturdy plastic strips for easy snap-in snap-out of the connectors
- Plastic strips with keying features to prevent connector orientation mistakes
- Snapping features to interlock with Management Rings in wall-mount installations (top-to-bottom cross-connect layout).

GigaBIX Wire Guard

- Strain relief action guarantees peace of mind when connectors have to be handled
- Wire Guard is easy to zip-on and slide-out for quick installation and maintenance
- Designed to protect minimum bend radius of twisted pairs when flipping the connectors. easy installation

GigaBIX Termination Bar

- Limits the amount of unjacketed cable
- Controls the amount of untwisting on critical pair combinations
- Optimizes the spatial position of the twisted pairs in order to maximize the terminated performance
- Provides stable, high performance at termination.

Technical Specifications

GigaBIX Connectors

- Dimensions (H x W x D): 9.4 x 168.4 x 32.7 mm (0.37 x 6.63 x 1.29 in.).
- Material: Housing material: fire-retardant thermoplastic rated UL94V-0, off-white and clear graphite
- IDC clip: copper alloy with tin plating over nickel.

GigaBIX Designation Strip

- Material : Fire-retardant thermoplastic, black.

GigaBIX Mount, 12-connector

- Dimensions (H x W x D): 391 x 194 x 115 mm (15.4 x 7.6 x 4.51 in.).
- Matériel: Base: steel, 13 gauge, powder paint finish, black
- Fanning strip material: fire-retardant thermoplastic, UL94V-0, clear graphite.

GigaBIX Wire Guard

- Matériel: Fire-retardant thermoplastic, black.

GigaBIX Termination Bar

- Material: Flame resistant thermoplastic, clear.

Transmission Characteristics

- Exceeds the Category 6 standard
- Minimum average values measured at 100 MHz:

Parameter	Value
NEXT	58.9 dB
PSNEXT	55.9 dB
FEXT	58.8 dB
PSFEXT	55.8 dB
Attenuation	0.18 dB
Return Loss	37.3 dB

Note: These values are for a mated connection between a GigaBIX Connector and GigaBIX Cross-Connect Wire.

Electrical Characteristics

- Dielectric strength: 1,000 V RMS at 60 Hz for 1 minute
- Current rating: 1.5 A maximum
- Insulation resistance: 100 MΩ minimum between clips
- Contact resistance: 1 mΩ per contact.

Installation Tips

GigaBIX Connectors

- Plan the telecommunications room layout prior to cross-connect installation
- Follow the detailed installation guide and use velcro ties to leave cable slack for retermination
- Use the GigaBIX Wire Guards to secure twisted pairs in place after termination
- GigaBIX Connectors are backwards compatible with all existing BIX mounts
- Label each connector carefully for future reference and ease of administration
- Connection made using the BIX Connecting Tool.

GigaBIX Designation Strip

- Use LabelFlex Solution labels for port identification

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GigaBIX Mount, 12-connector

- > GigaBIX Mounts are not compatible with BIX Distribution Connectors and BIX Modular Jack Connectors.

GigaBIX Wire Guard

- > Insert by pressing one end in and slide finger toward opposite end until it clicks
- > Remove by sliding out to either side of the connector.

GigaBIX Termination Bar

- > Required for Category 6 Termination, optional for Category 5e Termination
- > Follow the GigaBIX Termination Bar Installation Guide (PX103843) instructions.

Packaging

- > GigaBIX connectors are packaged 12 units per cardboard box.
- > GigaBIX Designation Strips are packaged 50 units per polybag.
- > GigaBIX Mounts are individually packaged in cardboard box with 2 wood screws and one velcro tie.
- > GigaBIX Wire Guards are packaged 100 units per polybag.
- > GigaBIX Termination Bars are packaged 100 units per bag.

Ordering tips

- > Procuring the Termination Kits simplifies planning and ordering.

For More Information

For any other product information call: 1-800-BELDEN-1 or visit us at www.Belden.com

All information is subject to change without notice, since Belden reserves the right to change its products as progress in engineering and manufacturing methods or other circumstances may warrant.

Ordering Information

GigaBIX Basic Components

DETAIL	UPC	ORDERING NUMBER
GigaBIX Connector, 25-pair	628575064175	AX101448
GigaBIX Connector, 6-port	628575064168	AX101447
GigaBIX Designation Strip	628575064519	AX101483
GigaBIX Mount, 12-connector	628575064410	AX101472
GigaBIX Wire Guard	628575064519	AX101486
GigaBIX Termination Bar	628575092925	AX101719