

DATA Sheet



AX101067, GigaFlex PS6+ Module

GigaFlex PS6+ Module

The GigaFlex PS6+ Module is a new punch down UTP connector within the Modular Connectivity product line. The GigaFlex PS6+ Module is based on a patent-pending Encapsulated Lead Frame technology ensuring excellent long-term reliability as well as extremely stable transmission performance. The unique in-line IDC termination interface allows quick and easy installation using GigaFlex, 110 or Krone connecting tools.

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.

The unmatched PS6-rated performance 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. The GigaFlex PS6+ Module is designed to be used with the Belden IBDN System 2400 and the Belden IBDN 4800LX System

Features & Benefits

- > Usable bandwidth of 300 MHz guarantees extra overhead over Category 6 standard
- > Unmatched transmission performance with a data rate of up to 4.8 Gb/s provides the highest bit rate for UTP cabling in the industry
- > Truly backward compatible with Category 5e and Category 5
- > Patent-pending Encapsulated Lead Frame technology provides long term reliability and stability
- > Unique universal IDC termination blocks allow installation using GigaFlex, 110 or Krone tools
- > In-line IDC termination interface with sharp pair splitters facilitates installation in various mounting accessories

- > Easy-to-read 568A/B color scheme prevents termination errors
- > Colored modules facilitate service identification and ease network management
- > Mix and match flexibility with MDVO adapters, boxes and patch panels allows the same connector used in all applications throughout the channel.

Applications

- > Telecommunications outlets
- > Multi-user telecommunications outlets
- > Consolidation points
- > Modular patch panels.

Technical specifications

- > Dimensions (H x W x D):
20.8 x 19.7 x 34.7 mm (0.82 x 0.78 x 1.37 in.).
- > Materials:
Module snap-in: fire-retardant plastic, UL94V-0, gray, almond, white, black, orange, red, yellow, green, blue, purple or brown
IDC housing: fire-retardant plastic, UL94V-0, white
ID Tab: Polypropylene, gray, almond, white, black, orange, red, yellow, green, blue, purple or brown
IDC Termination Interface:
IDC clip material: copper alloy with nickel plating
Encapsulated clips, in fire-retardant, UL94V-0, plastic support, black.
Modular Jack:
Contact material: copper alloy with 50 micro-inches gold over nickel.

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Transmission Characteristics

➤ PS6-Rated Module:

Designed to exceed the Category 6 standard

Minimum average values measured at 100 MHz with PS6 plugs:

Parameter	Value
NEXT	55.1 dB
PSNEXT	52.0 dB
FEXT	49.8 dB
PSFEXT	46.9 dB
Attenuation	0.10 dB
Return Loss	27.0 dB

Mechanical Characteristics

➤ IDC Termination Interface:

Gas-tight connection – insulation slicing of 22 to 24 AWG (0.64 to 0.51 mm) plastic insulated solid copper conductors

Durability: 10 insertions of any combination of wire gauge.

➤ Modular Jack:

8-pin or 6-pin connector, FCC part 68, Subpart F and IEC-603-7 compliant

8-pin connector is compatible with 6-pin plugs

➤ Durability: 1000 mating cycles.

Electrical Characteristics

➤ Dielectric strength: 1,000 V RMS at 60 Hz for 1 minute

➤ Current rating: 1.5 A maximum

➤ Insulation resistance: 200 MΩ minimum

➤ Contact resistance: 1 mΩ per contact.

Installation tips

➤ Connector Assembly:

Use the GigaFlex Termination Station (AX101852) for better support during termination process

Follow the color-coding sequence printed on the back of the module to position twisted pairs prior to termination

Use either GigaFlex, 110 or Krone connecting tools to terminate the module

Installation Guide is supplied with each box of 50 modules and is available in the "Document Center" of Belden IBDN Web Site.

➤ Connector Maintenance: Use the Outlet release tool or a standard screwdriver to disassemble the module from its mounting hardware.

Packaging

➤ Individually packaged in a clear plastic bag

➤ Standard shipping carton of 50 units.

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

GigaFlex PS6+ Module

DETAIL	COLOR	ORDERING NUMBER
MDVO-style, T568A/B	Gray	AX101063
MDVO-style, T568A/B	Almond	AX101064
MDVO-style, T568A/B	White	AX101065
MDVO-style, T568A/B	Black	AX101066
MDVO-style, T568A/B	Orange	AX101067
MDVO-style, T568A/B	Red	AX101068
MDVO-style, T568A/B	Yellow	AX101069
MDVO-style, T568A/B	Green	AX101070
MDVO-style, T568A/B	Blue	AX101071
MDVO-style, T568A/B	Purple	AX101072
MDVO-style, T568A/B	Brown	AX101073