



AX101051 GigaFlex PS5E Module

GigaFlex PS5E Module

The GigaFlex PS5E Module is a new punch down UTP connector within the Modular Connectivity product line. The GigaFlex PS5E 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, BIX, 110 or Krone connecting tools.

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.

The PS5E-rated performance exceeds all requirements specified in the TIA/EIA-568-A Category 5e Addendum. All performance parameters including NEXT, FEXT, attenuation and return loss have been set to guarantee transmission performance up to 160 MHz. The GigaFlex PS5E is designed to be used with the Belden IBDN Plus Cabling System and the Belden IBDN System 1200.

Features & benefits

- > Usable bandwidth of 160 MHz guarantees headroom of Category 5e standard
- > Data rate of 1.2 Gb/s offers excellent price/performance ratio for gigabit applications
- > Patent-pending Encapsulated Lead Frame technology provides long term reliability and stability
- > Unique universal IDC termination interface – using GigaFlex, BIX, 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
- > Clear protective cap strain relieves terminated pairs while allowing inspection and wire management
- > Colored modules facilitates service identification and eases network management
- > Mix and match flexibility with MDVO adapters, boxes and patch panels allows the same connector to be used in all applications throughout the channel.

Applications

- > Telecommunications outlets
- > Multi-user telecommunications outlets
- > Consolidation points
- > Patch panels.

Technical Specifications

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 Jacks

- > 8-pin connector, FCC part 68, Subpart F and IEC-603-7 compliant
- > 8-pin connector compatible with 6-pin plugs
- > Durability: 1000 mating cycles.

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Physical Characteristics

- Dimensions (H x W x D)
With the protective cap:
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
- DC housing: fire-retardant plastic, UL94V-0, almond
- Protective cap: fire-retardant plastic, UL94V-0, clear.

IDC Termination Interface

- IDC clip material: copper alloy with nickel plating
- Encapsulated clips, in fire-retardant, UL94V-0, plastic support, black.

Modular Jacks

- Contact material: copper alloy with 50 micro-inches gold over nickel.

Transmission Characteristics

PS5E-Rated Modules

- Designed to exceed the Category 5e standard
- Minimum average values measured at 100 MHz with PS5E plugs:

Parameter	Value
NEXT	45.8 dB
PSNEXT	42.4 dB
FEXT	46.8 dB
PSFEXT	45.5 dB
Attenuation	0.10 dB
Return Loss	27.0 dB

Electrical Characteristics

- Dielectric strength: 1,000 V RMS at 60 Hz for 1 minute
- Current rating: 1.5 A maximum
- Insulation resistance: 200 M Ω minimum
- Contact resistance: 1 m Ω per contact.

Installation tips

Connector Assembly

- Use the 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 the cable jacket to protect the twisted pairs during termination
- Use either GigaFlex, BIX, 110 or Krone connecting tools to terminate the module
- Snap protective cap onto the back of the module to strain relieve the conductors after termination
- Installation Guide is supplied with each box of 50 modules and is available in the "Document Center" of BeldenIBDN's Web Site.

Connector Maintenance

- Use the Outlet release tool or a standard screwdriver to disassemble the module from its mounting hardware or to remove the protective cap for re-termination.

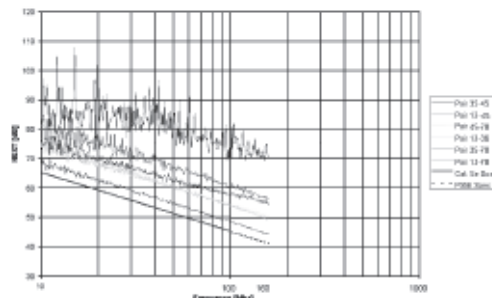
Packaging

- Individually packaged in a clear plastic bag (with 1 protective cap)
- 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.



PS5E Mated Connection

DATA Sheet

Ordering Information

GigaFlex PS5E Module

DETAIL	COLOR	ORDERING NUMBER
T568A/B	Gray	AX101044
T568A/B	Almond	AX101045
T568A/B	White	AX101046
T568A/B	Black	AX101047
T568A/B	Orange	AX101048
T568A/B	Red	AX101049
T568A/B	Yellow	AX101050
T568A/B	Green	AX101051
T568A/B	Blue	AX101052
T568A/B	Purple	AX101053
T568A/B	Brown	AX101054