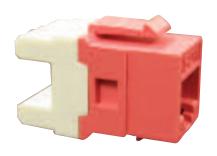**BELDEN**
SENDING ALL THE RIGHT SIGNALS

DATASheet

GigaFlex PS5E Module, Keystone-style

AX101316 - GigaFlex PS5E Module, Keystone-style

The GigaFlex PS5E Module keystone-style 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 keystone-style mounting hardware. It can also be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

The PS5E-rated performance exceeds all requirements specified in the upcoming TIA/EIA 568B Category 5e standard. 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 IBDN Plus Cabling System and the Belden IBDN Plus System and Belden IBDN System 1200.

Features & Benefits

> Usable bandwidth of 160 MHz guarantees headroom over 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 facilitates installation in various mounting accessories

> IDC interface with sharp pair splitters eases the splitting of tight pair twists and reduces installation time

> Easy-to-read 568A/B color scheme prevents termination errors

> Clear protective cap strain relieves terminated pairs while allowing inspection

> Colored modules facilitate service identification and ease network management

> Can be easily snapped into simple sheet metal cut-outs for installation in custom-built devices.

Applications

> Telecommunications outlets

> Multi-user telecommunications outlets

> Consolidation points

> Patch panels.

Technical specifications

> Dimensions (H x W x D): With the protective cap: 22.12 x 21.47 x 35.33 mm (0.872 x 0.85 x 1.395 in.).

> Material

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, almond

Protective cap: fire-retardant plastic, UL94V-0, clear

IDC Termination Interface:

IDC clip material: phosphor bronze with nickel plating

Encapsulated clips, in fire-retardant, UL94V-0, plastic support, black.

Modular Jack:

Contact material: phosphor bronze with 50 micro-inches gold over nickel.

BELDEN
SENDING ALL THE RIGHT SIGNALS

DATASheet

GigaFlex PS5E Module, Keystone-style

Transmission Characteristics

> PS5E-Rated Module:

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

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 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 the cable jacket to protect the twisted pairs during termination

Use 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

Use the ID Tab (AX100182 - 214) to cover unused ports and to identify service.

> 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.

Ordering Information

GigaFlex PS5E Module, Keystone-style

DETAIL	COLOR	ORDERING NUMBER
T568A/B	Gray	AX101307
T568A/B	Almond	AX101308
T568A/B	White	AX101309
T568A/B	Black	AX101310
T568A/B	Orange	AX101311
T568A/B	Red	AX101312
T568A/B	Yellow	AX101313
T568A/B	Green	AX101314
T568A/B	Blue	AX101315
T568A/B	Purple	AX101316
T568A/B	Brown	AX101317

The GigaFlex PS5E Modules are not available in all countries.