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6.7.2-A *GigaFlex PS5+ Module*

GigaFlex PS5+ Module

DESCRIPTION

The GigaFlex PS5+ Module is a new punch down UTP connector within the Modular Connectivity product line. The GigaFlex PS5+ 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 BIX, 110 or Krone connecting tools.

The GigaFlex PS5+ is the module of choice for terminating UTP cables into the MDVOFlex 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 PS5+ 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 PS5+ is designed to be used with the IBDN Plus Cabling System and the 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 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.

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
- IDC 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.

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GigaFlex PS5+ Modules

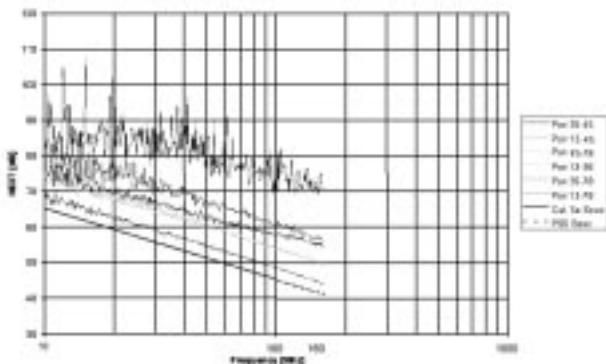## Transmission Characteristics

PS5 Rated Modules

• Designed to exceed the Category 5e standard
• Minimum average values measured at 100 MHz with PS5 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

PS5 Mated Connection

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 (AX101172) 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 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 NORDX/CDT's Web Site.

Connector Maintenance

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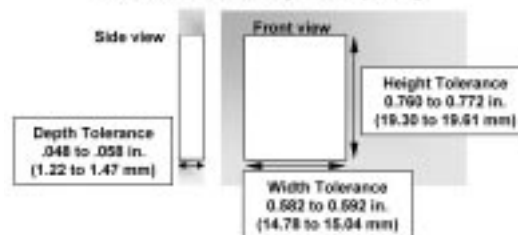
PACKAGING

• Individually packaged in a clear plastic bag (with 1 protective cap)
• Standard shipping carton of 50 units.

6.7.2-B GigaFlex PS5+ Module, Keystone-style

GigaFlex PS5+ Module, Keystone-style

Standard keystone opening

DESCRIPTION

The GigaFlex PS5+ Module keystone-style is a punch down UTP connector within the Modular Connectivity product line. The GigaFlex PS5+ 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 BIX, 110 or Krone connecting tools.

The GigaFlex PS5+ 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 PS5-rated performance exceeds all requirements specified in the upcoming 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 PS5+ is designed to be used with the IBDN Plus Cabling System and the IBDN System 1200.

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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 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

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 is compatible with 6-pin plugs
- Durability: 1000 mating cycles.

Physical Characteristics

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.).

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

IDC Termination Interface

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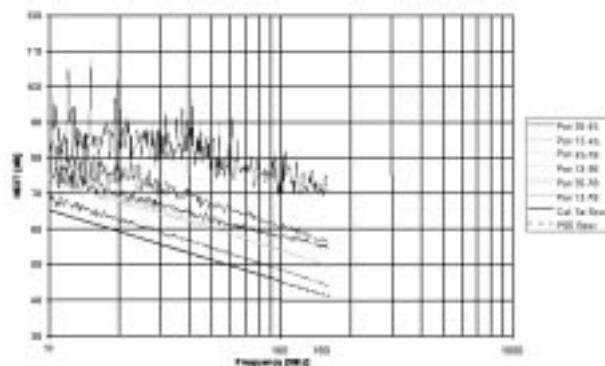- Encapsulated clips, in fire-retardant, UL94V-0, plastic support, black.

Modular Jacks

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

Transmission Characteristics

PS5 Rated Modules

- Designed to exceed the Category 5e standard
- Minimum average values measured at 100 MHz with PS5 plugs:

Parameter	Value	Category 5
NEXT	45.8 dB	≤ 43.0 dB
PSNEXT	42.4 dB	Not Specified
FEXT	46.8 dB	≤ 35.1 dB
PSFEXT	45.5 dB	Not Specified
Attenuation	0.10 dB	≥ 0.20 dB
Return Loss	27.0 dB	≤ 20.0 dB

PS5 Mated Connection

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.

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INSTALLATION TIPS

Connector Assembly

- Use the GigaFlex Termination Station (AX101172) 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 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 MDVOFlex 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.

ORDERING INFORMATION

The GigaFlex PS5+ are not available in all countries.

6.7.2-A *GigaFlex PS5+ Module*

DETAIL	COLOR	PRODUCT CODE	ORDERING NUMBER
T568A/B	Gray	NXM5AU8AB-01	AX101044
T568A/B	Almond	NXM5AU8AB-02	AX101045
T568A/B	White	NXM5AU8AB-03	AX101046
T568A/B	Black	NXM5AU8AB-04	AX101047
T568A/B	Orange	NXM5AU8AB-05	AX101048
T568A/B	Red	NXM5AU8AB-06	AX101049
T568A/B	Yellow	NXM5AU8AB-07	AX101050
T568A/B	Green	NXM5AU8AB-08	AX101051
T568A/B	Blue	NXM5AU8AB-09	AX101052
T568A/B	Purple	NXM5AU8AB-10	AX101053
T568A/B	Brown	NXM5AU8AB-11	AX101054

6.7.2-B *GigaFlex PS5+ Module, Keystone-style*

DETAIL	COLOR	PRODUCT CODE	ORDERING NUMBER
T568A/B	Gray	NXM5KU8AB-01	AX101307
T568A/B	Almond	NXM5KU8AB-02	AX101308
T568A/B	White	NXM5KU8AB-03	AX101309
T568A/B	Black	NXM5KU8AB-04	AX101310
T568A/B	Orange	NXM5KU8AB-05	AX101311
T568A/B	Red	NXM5KU8AB-06	AX101312
T568A/B	Yellow	NXM5KU8AB-07	AX101313
T568A/B	Green	NXM5KU8AB-08	AX101314
T568A/B	Blue	NXM5KU8AB-09	AX101315
T568A/B	Purple	NXM5KU8AB-10	AX101316
T568A/B	Brown	NXM5KU8AB-11	AX101317