**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 MDVOFex 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.
### Transmission Characteristics

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXT</td>
<td>45.8 dB</td>
</tr>
<tr>
<td>PSNEXT</td>
<td>42.4 dB</td>
</tr>
<tr>
<td>FEXT</td>
<td>46.8 dB</td>
</tr>
<tr>
<td>PSFEXT</td>
<td>45.5 dB</td>
</tr>
<tr>
<td>Attenuation</td>
<td>0.10 dB</td>
</tr>
<tr>
<td>Return Loss</td>
<td>27.0 dB</td>
</tr>
</tbody>
</table>

### Connector Maintenance
- Use the MDVFlex 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.

### 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.

### Installation Tips
- 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.
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.

Transmission Characteristics

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

<table>
<thead>
<tr>
<th>Parameter</th>
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<th>Category 5</th>
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<tbody>
<tr>
<td>NEXT</td>
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<td>PSNEXT</td>
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<td>FEXT</td>
<td>46.8 dB</td>
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<td>PSFEXT</td>
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<td>Attenuation</td>
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<tr>
<td>Return Loss</td>
<td>27.0 dB</td>
<td>≤ 20.0 dB</td>
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</tbody>
</table>

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 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.

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**ORDERING INFORMATION**
The GigaFlex PS5+ are not available in all countries.

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<thead>
<tr>
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<th>GigaFlex PS5+ Module</th>
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<th>GigaFlex PS5+ Module, Keystone-style</th>
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