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

- 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:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>NEXT</td>
<td>55.1 dB</td>
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<td>PSNEXT</td>
<td>52.0 dB</td>
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<tr>
<td>FEXT</td>
<td>49.8 dB</td>
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<td>PSFEXT</td>
<td>46.9 dB</td>
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<td>Attenuation</td>
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<td>Return Loss</td>
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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.

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.

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

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<tr>
<th>DETAIL</th>
<th>COLOR</th>
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