


**AX350061 GigaFlex PS6+ Modular Cord**

## GigaFlex PS6+ Modular Cords Enhanced Category 6

The GigaFlex PS6+ Modular Cords are 4-pair 23 AWG UTP modular cords designed for use with the Belden IBDN Systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The Belden IBDN GigaFlex PS6+ Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ Modular Cords' patented design, with a very small footprint, makes them fully compatible with the highest density hubs, with any RJ45 jack connections.

The GigaFlex PS6+ cords are available in ten pantone colors that match the colors per the TIA/EIA-606 standard. The GigaFlex PS6+ Modular Cords product line encompasses CMR modular cords, as well as open-ended cords. A new ordering structure for modular cords enables the ordering of truly customized cords. Cable color and boot color can now be specified, and all cords can now be ordered in half-foot increments.

### Applications

- > High density hubs
- > Telecommunications outlet connections
- > MUTO connections
- > Consolidation point connections
- > Patch panel connections
- > Equipment connections.

### Technical Specifications

#### Construction

- > Conductors: 23 AWG solid copper
- > Insulation: PE
- > Cable Core: Four twisted pairs, Filler
- > Jacket: PVC
- > Boots: PVC
- > Plug: Polycarbonate.

### Transmission Characteristics

- > Total Range of De-embedded NEXT at 100 MHz (dB):

| PIN COMBINATIONS | PS6+ PLUG  | CATEGORY 6 |
|------------------|------------|------------|
| 4-5 & 3-6        | 37.0 ± 0.5 | 37 ± 0.6   |
| 3-6 & 1-2        | 47.5 ± 1.0 | 47 ± 1.5   |
| 3-6 & 7-8        | 47.5 ± 2.0 | ± 2.0      |
| 4-5 & 1-2        | 65.0 ± 8.0 | ≥ 57.0     |
| 4-5 & 7-8        | 63.0 ± 5.0 | ≥ 57.0     |
| 1-2 & 7-8        | 73.0 ± 6.0 | ≥ 60.0     |

- > Minimum average values measured at 100 MHz with Belden IBDN PS6 Connectivity:

| PARAMETER   | VALUE   | CATEGORY 6 |
|-------------|---------|------------|
| NEXT        | 55.1 dB | ≥ 54.0 dB  |
| PS NEXT     | 52.0 dB | ≥ 50.0 dB  |
| FEXT        | 49.8 dB | ≥ 43.1 dB  |
| PS FEXT     | 46.9 dB | ≥ 40.1 dB  |
| Attenuation | 0.10 dB | ≤ 0.2 dB   |
| Return Loss | 27.0 dB | ≥ 24.0 dB  |

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### Mechanical Characteristics

- > Durability: 1000 mating cycles
- > Contact material: phosphor bronze with 50 micro-inches gold over nickel
- > Nominal Cable Diameter: 5.6 mm (0.220 in.)
- > Minimum Bend Radius: 22.4 mm (0.880 in.).

### Electrical Characteristics

- > Dielectric strength: 1,000 V RMS at 60 Hz for 1 minute
- > Voltage rating: 150 VAC maximum
- > Current rating: 1.5 A maximum
- > Insulation resistance: 500 Mega-ohms minimum
- > Contact resistance: 10 milli-ohms maximum.

### Qualifications

- > GigaFlex PS6+ Modular Cord:
  - UL Listed as a Communications Circuit Accessories.
- > PS6+ Patch Cable:
  - UL Listed CMR.
- > 8-Position Modular Plug:
  - FCC Part 68 Subpart F
  - IEC 603-7: 1990
  - UL Listed as a Recognized Component
  - UL94V-0 flame rated.

### Packaging

- > Individually packaged in a clear plastic bag
- > Minimum ordering quantity: 10
- > Ordering increments: 10.

### Generic Code

- > Custom GigaFlex PS6+ Modular Cords can be ordered with the following generic code:

#### NXGX-CDDEE-FGG-HHH.H

|       |              |   |
|-------|--------------|---|
| C     | Cable Rating | R = Riser   |
| DD    | Cable Type   | SO = Solid  |
| EE    | Cable Color  | AL = almond   |
|       |              | BK = black  |
|       |              | BL = blue   |
|       |              | GR = green  |
|       |              | GY = gray   |
|       |              | OR = orange   |
|       |              | PR = purple   |
|       |              | RD = red  |
|       |              | WH = white  |
|       |              | YE = yellow   |
| F     | Wiring       | N = AB/AB   |
|       |              | Y = Pigtail   |
| GG    | Boot Color   | AL = almond   |
|       |              | BK = black  |
|       |              | BL = blue   |
|       |              | GR = green  |
|       |              | GY = gray   |
|       |              | OR = orange   |
|       |              | PR = purple   |
|       |              | RD = red  |
|       |              | WH = white  |
|       |              | YE = yellow   |
| HHH.H | Length (ft.) | 007.5 will stand for 7.5 ft. ; 008.0 will stand for 8 ft. |

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### Ordering Information

GigaFlex PS6+ Modular Cord, CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B

| LENGTH         | ORDERING NUMBER | ORDERING NUMBER | ORDERING NUMBER |
|----------------|-----------------|-----------------|-----------------|
|                | BLUE            | WHITE           | GRAY            |
| 0.6 m (2 ft.)  | AX350037        | AX350043        | AX350049        |
| 1.2 m (4 ft.)  | AX350038        | AX350044        | AX350050        |
| 2.1 m (7 ft.)  | AX350039        | AX350045        | AX350051        |
| 3.0 m (10 ft.) | AX350040        | AX350046        | AX350052        |
| 4.6 m (15 ft.) | AX350041        | AX350047        | AX350053        |
| 7.6 m (25 ft.) | AX350042        | AX350048        | AX350054        |
|                | GREEN           | RED             | YELLOW          |
| 0.6 m (2 ft.)  | AX350055        | AX350061        | AX350067        |
| 1.2 m (4 ft.)  | AX350056        | AX350062        | AX350068        |
| 2.1 m (7 ft.)  | AX350057        | AX350063        | AX350069        |
| 3.0 m (10 ft.) | AX350058        | AX350064        | AX350070        |
| 4.6 m (15 ft.) | AX350059        | AX350065        | AX350071        |
| 7.6 m (25 ft.) | AX350060        | AX350066        | AX350072        |
|                |                 |                 | GRAY            |
| 4.6 m (15 ft.) |                 |                 | NEW AX350149    |
| 7.6 m (25 ft.) |                 |                 | NEW AX350093    |