

DATA Sheet



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