

6.8.1-A GigaFlex PS6+ Modular Cord



AX350043 GigaFlex PS6+ Modular Cord

DESCRIPTION

The GigaFlex PS6+ Modular Cords are 4-pair 23 AWG UTP modular cords designed for use with the IBDN Systems 2400 and 4800LX, providing channel bandwidths of 220 MHz and 300 MHz, respectively. The 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

Physical Characteristics

Construction

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

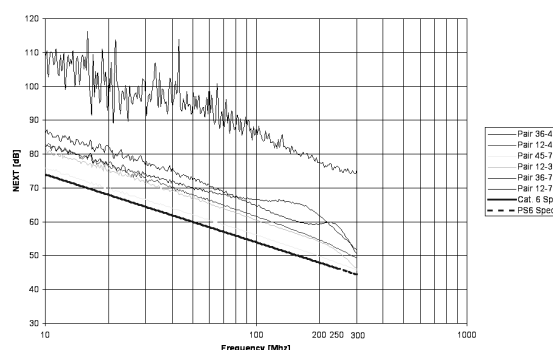
Transmission Characteristics

- 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 ± 18.0	≥ 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 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	≥ 23.0 dB



PS6 Mated Connection

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 MΩ minimum
- Contact resistance: 10 MΩ 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.

ORDERING INFORMATION

The following table provides the ordering numbers for the most popular GigaFlex PS6+ Modular Cords.

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DETAIL	COLOR		ORDERING NUMBER		
			0.6 m (2 ft.)	1.2 m (4 ft.)	2.1 m (7 ft.)
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Blue	NEW	AX350037	AX350038	AX350039
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	White	NEW	AX350043	AX350044	AX350045
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Gray	NEW	AX350049	AX350050	AX350051
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Green	NEW	AX350055	AX350056	AX350057
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Red	NEW	AX350061	AX350062	AX350063
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Yellow	NEW	AX350067	AX350068	AX350069
			3.0 m (10 ft.)	4.6 m (15 ft.)	7.6 m (25 ft.)
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Blue	NEW	AX350040	AX350041	AX350042
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	White	NEW	AX350046	AX350047	AX350048
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Gray	NEW	AX350052	AX350053	AX350054
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Green	NEW	AX350058	AX350059	AX350060
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Red	NEW	AX350064	AX350065	AX350066
CMR, 4-pair, 23 AWG solid, T568A/B-T568A/B	Yellow	NEW	AX350070	AX350071	AX350072