

DATA Sheet

GigaFlex PS5E Modular Cords Enhanced Category 5E



AX350013 GigaFlex PS5E Modular Cord

The GigaFlex PS5E Modular Cords are 4 pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN Plus Cabling System and the Belden IBDN System 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively.

The GigaFlex PS5E Modular Cords' patented design features a very small footprint, making them fully compatible with the highest density hubs which use RJ45 jack connections. The GigaFlex PS5E Modular Cords meet all the enhanced Category 5 modular cord requirements as per the Category 5e standard. They are completely backward compatible with Category 5 jacks. The GigaFlex PS5E Modular Cords together with Belden IBDN PS5E Connectivity have been designed to provide a mated-connection performance that exceeds the Category 5e standard.

The GigaFlex PS5E Modular Cords are available in ten pantone colors that match the colors per the TIA/EIA-606 standard. The GigaFlex PS5E Modular Cord product line encompasses CMR and CMP modular cords, open-ended cords, as well as cross-over 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: 24 AWG solid or stranded copper
- > Insulation: PE
- > Cable Core: Four twisted pairs
- > Jacket: PVC
- > Boots: PVC
- > Plug: Polycarbonate.

Transmission Characteristics

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

PIN COMBINATIONS	PS5 PLUG	ENHANCED CATEGORY 5
4-5 & 3-6	± 0.5	± 2.0
3-6 & 1-2	± 2.0	± 4.0
3-6 & 7-8	± 2.0	± 4.0
4-5 & 1-2	± 10.0	Upper Limit Not Specified
4-5 & 7-8	± 5.0	Upper Limit Not Specified
1-2 & 7-8	± 10.0	Upper Limit Not Specified

- > Minimum average values measured at 100 MHz with with PS5E Connectivity:

PARAMETER	VALUE	ENHANCED CATEGORY 5
NEXT	45.8 dB	≥ 43.0 dB
PS NEXT	42.4 dB	Not Specified
FEXT	46.8 dB	≥ 35.1 dB
PS FEXT	45.5 dB	Not Specified
Attenuation	0.10 dB	≤ 0.2 dB
Return Loss	27.0 dB	≥ 20.0 dB

DATA Sheet

GigaFlex PS5E Modular Cords Enhanced Category 5E

Mechanical Characteristics

- > Durability: 1000 mating cycles
- > Contact material: phosphor bronze with 50 micro-inches gold over nickel
- > Nominal Cable Diameter: 5.3 mm (0.210 in.)
- > Minimum Bend Radius: 21.3 mm (0.840 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 PS5E Modular Cord:
UL Listed as a Communications Circuit Accessories.
- > PS5E 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 PS5E Modular Cords can be ordered with the following generic code:

NXG5-CDDEE-FGQ-HHH.H

C	Cable Rating	R = Riser
DD	Cable Type	ST = Stranded
		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.

GigaFlex PS5E Modular Cords Enhanced Category 5E

Ordering Information

GigaFlex PS5E Modular Cord, CMR, 4-pair, 24 AWG stranded, T568A/B-T568A/B

LENGTH	ORDERING NUMBER	ORDERING NUMBER	ORDERING NUMBER
	BLUE	WHITE	GRAY
0.6 m (2 ft.)	AX350001	AX350007	AX350013
1.2 m (4 ft.)	AX350002	AX350008	AX350014
2.1 m (7 ft.)	AX350003	AX350009	AX350015
3.0 m (10 ft.)	AX350004	AX350010	AX350016
4.6 m (15 ft.)	AX350005	AX350011	AX350017
7.6 m (25 ft.)	AX350006	AX350012	AX350018
	GREEN	RED	YELLOW
0.6 m (2 ft.)	AX350019	AX350025	AX350031
1.2 m (4 ft.)	AX350020	AX350026	AX350032
2.1 m (7 ft.)	AX350021	AX350027	AX350033
3.0 m (10 ft.)	AX350022	AX350028	AX350034
4.6 m (15 ft.)	AX350023	AX350029	AX350035
7.6 m (25 ft.)	AX350024	AX350030	AX350036