

DATA Sheet



AX350013 GigaFlex PS5E Modular Cord

GigaFlex PS5E Modular Cords Enhanced Category 5E

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 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

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Mechanical Characteristics

- Durability: 1000 mating cycles
- Contact material: phosphor bronze with 50 micro-inches gold over nickel
- Nominal Cable Diameter: 5.3 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-FGG-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.

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

LENGTH	ORDERING NUMBER	ORDERING NUMBER	ORDERING NUMBER
0.6 m (2 ft.)	AX350001	BLUE	WHITE
1.2 m (4 ft.)	AX350002		
2.1 m (7 ft.)	AX350003		
3.0 m (10 ft.)	AX350004		
4.6 m (15 ft.)	AX350005		
7.6 m (25 ft.)	AX350006		
		GREEN	RED
0.6 m (2 ft.)	AX350019		GRAY
1.2 m (4 ft.)	AX350020		AX350025
2.1 m (7 ft.)	AX350021		AX350026
3.0 m (10 ft.)	AX350022		AX350027
4.6 m (15 ft.)	AX350023		AX350028
7.6 m (25 ft.)	AX350024		AX350029
			AX350030
			AX350036