

## Modular Connectivity

### GigaFlex PS5+ Modular Cords



#### Description

The IBDN GigaFlex PS5+ Modular Cords are 4 pair 24 AWG UTP modular cords that are designed for use with the IBDN Plus Cabling System and the IBDN System 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively.

The IBDN GigaFlex PS5+ 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 PS5+ 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 IBDN GigaFlex PS5+ Modular Cords together with IBDN PS5 Connectivity have been designed to provide a mated-connection performance that exceeds the Category 5e standard.

The IBDN GigaFlex PS5+ Modular Cords are available in ten pantone colors that match the colors per the TIA/EIA-606 standard.

The IBDN GigaFlex PS5+ Modular Cord product line encompasses CMR modular cords and 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

#### Qualifications

IBDN GigaFlex PS5+ Modular Cord:

- UL Listed as a Communications Circuit Accessories
- CSA Certified as a Communications Cord Set

PS5 Patch Cable:

- UL Listed CMR
- CSA Certified CMR

8-Position Modular Plug:

- FCC Part 68 Subpart F
- IEC 603-7:1990
- UL Listed as a Recognized Component
- UL94V-0 flame rated

#### Construction

- Conductors: 24 AWG solid or stranded copper
- Insulation: PE
- Cable Core: Four twisted pairs
- Jacket: PVC
- Boots: PVC
- Plug: Polycarbonate

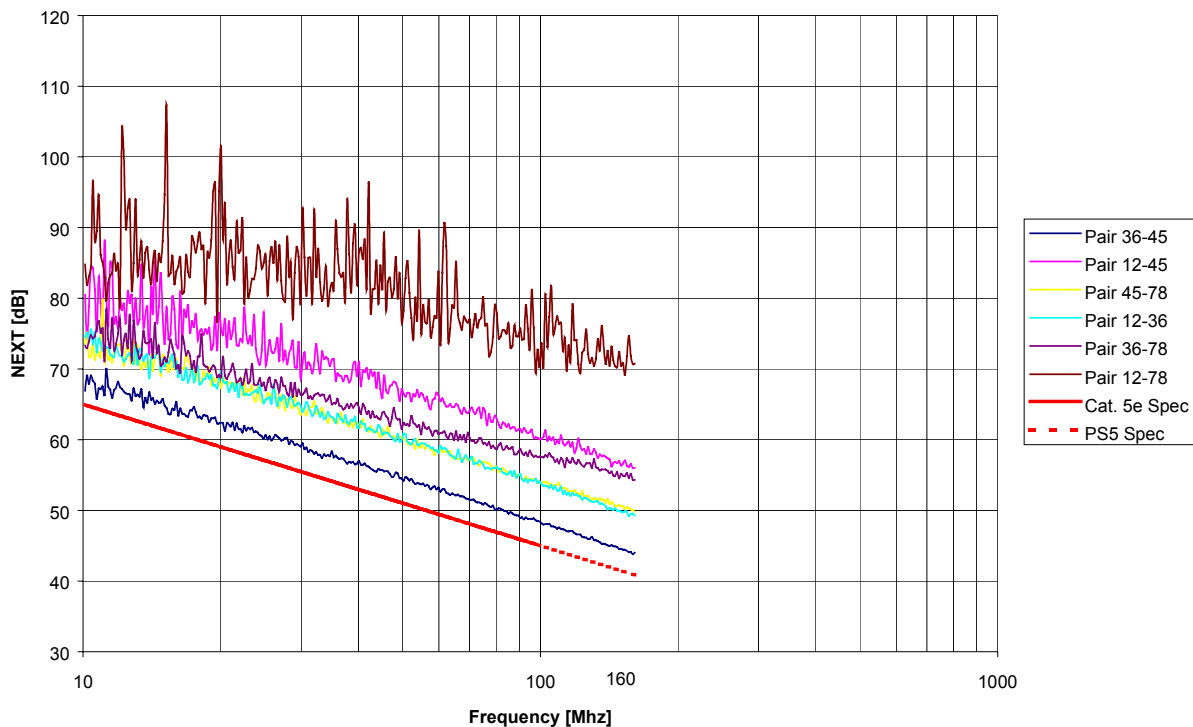
## Transmission Characteristics

Pin Combinations	Total Range of De-embedded NEXT @ 100MHz (dB)	
	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 PS5 Connectivity

Parameter	Value (dB)	Enhanced Category 5 (dB)
NEXT	45.8	$\geq 43.0$
Power sum NEXT	42.4	Not Specified
FEXT	46.8	$\geq 35.1$
Power sum FEXT	45.5	Not Specified
Attenuation	0.10	$\leq 0.2$
Return Loss	27.0	$\geq 20.0$

PS5 MATED CONNECTION



### 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 M $\Omega$  minimum
- Contact resistance: 10 m $\Omega$  maximum

### Mechanical Characteristics

- Durability: 1000 mating cycles
- Contact material: phosphor bronze with 50 micro-inches gold over nickel
- Nominal Cable Diameter: 0.210 inch (5.3 mm)
- Minimum Bend Radius: 0.840 inch (21.3 mm)

### Packaging

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

### Ordering Information

The following table provides the ordering numbers for the most popular IBDN GigaFlex PS5+ Modular Cords.

GigaFlex PS5+ Modular Cord, CMR, 4 PR 24 AWG Stranded, T568A/B – T568A/B

Length	Blue	White	Gray	Green	Red	Yellow
2 ft (0.6 m)	AX350001	AX350007	AX350013	AX350019	AX350025	AX350031
4 ft (1.2 m)	AX350002	AX350008	AX350014	AX350020	AX350026	AX350032
7 ft (2.1 m)	AX350003	AX350009	AX350015	AX350021	AX350027	AX350033
10 ft (3.0 m)	AX350004	AX350010	AX350016	AX350022	AX350028	AX350034
15 ft (4.6 m)	AX350005	AX350011	AX350017	AX350023	AX350029	AX350035
25 ft (7.6 m)	AX350006	AX350012	AX350018	AX350024	AX350030	AX350036

## GigaFlex PS5+ Modular Cords

### Generic Code

Custom GigaFlex PS5+ Modular Cords can be ordered with the following generic code:

**NXG5-CDDEE-FGG-HHH.H**

		Choices
C	Cable rating	<ul style="list-style-type: none"><li>• R = Riser</li></ul>
DD	Cable type	<ul style="list-style-type: none"><li>• ST = Stranded</li><li>• SO = Solid</li></ul>
EE	Cable color	<ul style="list-style-type: none"><li>• AL = Almond</li><li>• BK = Black</li><li>• BL = Blue</li><li>• GR = Green</li><li>• GY = Gray</li><li>• OR = Orange</li><li>• PR = Purple</li><li>• RD = Red</li><li>• WH = White</li><li>• YE = Yellow</li></ul>
F	Wiring	<ul style="list-style-type: none"><li>• N = AB/AB</li><li>• Y = Pigtail</li></ul>
GG	Boot color	<ul style="list-style-type: none"><li>• AL = Almond</li><li>• BK = Black</li><li>• BL = Blue</li><li>• GR = Green</li><li>• GY = Gray</li><li>• OR = Orange</li><li>• PR = Purple</li><li>• RD = Red</li><li>• WH = White</li><li>• YE = Yellow</li></ul>
HHH.H	Length in feet	<ul style="list-style-type: none"><li>• 007.5 will stand for 7.5 ft</li><li>• 008.0 will stand for 8 ft</li></ul>

For more information on NORDX/CDT and IBDN products, please call: **1-800-262-9334**, or visit us on the Net at: [www.nordx.com](http://www.nordx.com)

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