DATASheet

BELDEN
SENDING ALL THE RIGHT SIGNALS

GigaFlex PS6+ Bonded Modular Cord

AX380014, GigaFlex PS6+ Bonded Modular Cord

The GigaFlex PS6+ Bonded Modular Cords are 4-pair 24 AWG Bonded 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 GigaFlex PS6+ Bonded Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ Bonded Modular Cord's patented design, with a very small footprint, makes them fully compatible with the highest density hubs, with any RJ45 jack connections.

The GigaFlex PS6+ Bonded Modular Cords are available in four pantone colors that match the colors per the TIA/EIA-606 standard.

The GigaFlex PS6+ Bonded 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: 24 AWG solid copper

> Insulation: PE

> Cable Core:

- Four Bonded twisted pairs

- Filler.

> Jacket: PVC

> Boots: PVC
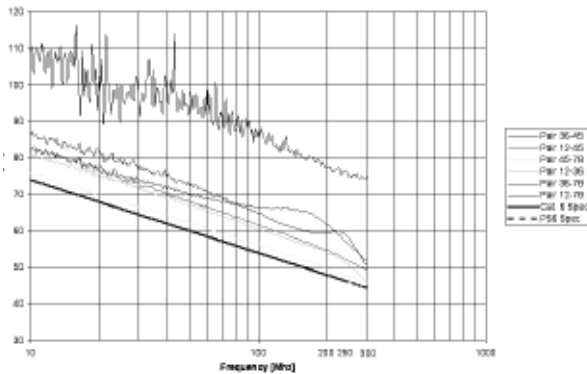
> Plug: Polycarbonate.

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 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	0.1 dB	≤ 0.2 dB
Return Loss	27.0 dB	≥ 24.0 dB

DATASheet

GigaFlex PS6+ Bonded Modular Cord

PS6 Mated Connection

Qualifications

GigaFlex PS6+ Bonded Modular Cord

> UL Listed as a Communications Circuit Accessories

PS6+ Bonded 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.

Mechanical Characteristics

> Durability: 1000 mating cycles

> Contact material: phosphor bronze with 50 micro-inches gold over nickel

> Nominal Cable Diameter: 5.8 mm (0.230 in.)

> Minimum Bend Radius: 23.3 mm (0.990 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 M Ω minimum

> Contact resistance: 10 M Ω maximum.

Generic Code

Custom GigaFlex PS6+ Bonded Modular Cords can be ordered with the following generic code:

NXPC-B6RS8C[1]-R8BC[2]-YYWC[3]-XXX.X

C1	Cable Color	Color list
C2	Boot 1 Color	B = blue
C3	Boot 2 Color	G = gray
		W = white
		Y = yellow
		Z = non applicable
YYW	Wiring	R8B = T568A/B
		ZZZ = Open Pig Tail, T568B
XXX.X	Length (ft.)	007.5 will stand for 7.5 ft.
		008.0 will stand for 8 ft.

BELDEN
SENDING ALL THE RIGHT SIGNALS

DATASheet

GigaFlex PS6+ Bonded Modular Cord

Packaging

> Individually packaged in a clear plastic bag

> Minimum ordering quantity: 10

> Ordering increments: 10.

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

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

GigaFlex PS6+ Bonded Modular Cord

DETAIL	COLOR	ORDERING NUMBER				
		T568A/B–T568A/B				
		1.2 m (4 ft.)	2.1 m (7 ft.)	3.0 m (10 ft.)	4.6 m (15 ft.)	7.6 m (25 ft.)
CMR, 4–pair, Bonded 24 AWG solid	Blue	AX380014	AX380015	AX380016	AX380017	AX380018
CMR, 4–pair, Bonded 24 AWG solid	Gray	AX380026	AX380027	AX380028	AX380029	AX380030
CMR, 4–pair, Bonded 24 AWG solid	White	AX380050	AX380051	AX380052	AX380053	AX380054
CMR, 4–pair, Bonded 24 AWG solid	Yellow	AX380056	AX380057	AX380058	AX380059	AX380060