FibrePlus Optical Patch Cord

Datasheet: GD015464v23

APPLICATION

FibrePlus Optical Patch Cords are designed to interconnect or cross-connect fiber networks within structured cabling systems. Patch cords are manufactured with Leviton connectors and low smoke (HFFR-LS) fiber patch cable, which guarantees the highest levels of long-term mechanical and optical performance.

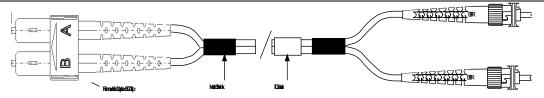
FEATURES

- Available in simplex and duplex configurations
- Wide selection of connector options to suit a variety of applications
- Single-mode and multimode options available
- Color coded for identification of fiber type
- Removable clip on duplex options allowing connectors to be separated and polarity switched



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PHYSICAL CHARACTERISTICS



OPTICAL PERFORMANCE

	Insertion Loss		Return Loss	
Multimode	≤ 0.5dB	Typical 0.3dB	≥20dB	
Single-mode	≤0.3dB	Typical 0.1dB	Max 45dB (PC)	
			45dB (PC), ≥50dB (UPC)	
			≥60dB (APC)	

MECHANICAL SPECIFICATIONS

Length (ferrule tip - ferrule tip)	1m and 5m*	ID Label (Distance from one end)	200mm nominal	
Overall Length Tolerance	-0/+0.01m	Recommended Bend Radius (Min)	40mm	
Split Length (Duplex, ST, SC, LC, etc.) 150mm nominal		Connector Cable Retention	100N min (2.5-3mmØ) cable assembly 50N min (1.5-2mmØ) cable assembly	

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ENVIRONMENTAL CONDITIONS

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- Operating temperature:
 - Temperature cycling: • (IEC 874-1 sec.4.5.22)
 - High temperature: . (IEC 874-1 sec.4.5.18)
 - Damp heat: • (IEC 874-1 sec.4.5.19)
 - Vibration (mated pair): • (IEC 874-1 sec.4.5.1)
 - Mating durability: • (IEC 874-1 sec.4.5.32)

PRODUCT PACKAGING

- -25 to +70°C, 40 cycles ≤0.2dB Change 70°C for 96 hours
- ≤0.2dB Change

-10 to 70°C

- 60°C at 95% RH, 96 hours ≤0.2dB Change
- 10-55 Hz, 1.5mm P to P ≤0.3dB Change
- 1000 mating cycles, standard connectors Clean every 25 < 0.2 dB Change
 - **PRODUCT CERTIFICATION**
- Each patch cord is individually packed and labeled for ease of identification
- Each patch cord is identified with a batch reference • ID label and is supplied with an individual test certification

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CHANNEL IDENTIFICATION

Generally, boot colors are used to identify the channels. For Duplex cords (excluding APC which are green) the channel • identification would be as follows:

	Multimode		Single-mode	
	Channel A	Channel B	Channel A	Channel B
Duplex LC	White	Yellow	White	Yellow
Duplex SC	White	Blue	White	Blue
Duplex ST	Black	Red	Black	Yellow

Note:

- 1) All connector combinations follow the A & B channels. Identification as marked on the diagram in physical characteristics.
- 2) For LC duplex patch cords colors refer to the heat shrink colors.
- Simplex cords follow channel A for Multimode cord and Channel B for single-mode. 3)

PART NUMBER BREAKDOWN

	HOPaabbbcccddefg
Group: HOP=Patch cord	
End 1 Connector Type: ST = ST/PC SC = SC/PC LC = LC/PC UT = ST/UPC UC = SC/UPC UL = LC/UPC AT = ST/APC AC = SC/8°APC AL = LC/8°APC 9C = SC/9°APC (Other connector types are available on request)	
Fiber type: 062 = 62.5/125μm Multimode 050 = 50/125μm Multimode OM3 = 50/125μm Multimode OM4 = 50/125μm Multimode 008 = 8-9/125μm Single-mode (Other fiber types available on request)	
Length (STD): 010 = 1m 020 = 2m 030 = 3m 050 = 5m (Other lengths are available on request)	
End 2 Connector Type: as per End 1	
No of fibers: 1 = Simplex 2 = Duplex	
Cable color: 0 = Yellow 5 = Aqua 7 = Heather Violet 8 = Gray 9= Orange	
Cable type: 1=2.8mm/900µm 2=2.0mm/600µm 3=2.0mm/900µm	

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