

Premium Plus Fiber Patch Cords

APPLICATION

Premium Plus Fiber Optic Patch Cords are designed to interconnect, or cross connect fiber networks within structured cabling systems including data centers, Broadband CATV, Passive Optical Network (PON), WDM or DWDM multiplexing, FTTH and voice services in ATM and SONET metropolitan and access networks. Quick-turn service is available with orders of up to 100 patch cords and ships within three business days. Contact customer service for details.



SPECIFICATION

Multimode and single-mode patch cords shall be manufactured in the U.S.A. The patch cords shall be compliant with ANSI/TIA-568.3-D. Insertion loss shall be a maximum of 0.25 dB for multimode and single-mode. Multimode return loss shall be greater than 26 dB and greater than 50 dB for single mode connectors. Single-mode angled physical contact connectors (APC) shall have a minimum of 60 dB return loss. Patch cords shall have a pull force of at least 50 N (11.24 lbf) per IEC 61300-2-4. Connector durability of greater than 500 matings for both multimode and single mode. Patch cords shall be individually packaged with part numbers, descriptions, optical performance, code 39 barcode part number printed on each package and QR code to access supporting documentation. Patch cords shall include wrap labels including length, end designation and serial number providing traceability to factory collected test data. Fiber patch cords with LC unibody connectors shall use Spectro-Link™ Technology to support field polarity reversal without twisting or moving fibers. Unibody LC connectors shall have a push/pull grip that, coupled with a one-piece unitized duplex housing, shall assure exact centerline spacing for fast mating in congested patching fields.

DESIGN CONSIDERATIONS

- All connectors have precision pre-radiused or pre-angled zirconia ferrules for consistent end face geometry
- Single-mode UPC and APC polish
- FC and ST connectors have metal bodies
- Duplex clips included with duplex configurations
- Bend-insensitive glass (OS2, OM3, OM4, and OM5)

FEATURES

- Available in simplex, duplex, and pigtail configurations
- LC, LC Unibody, LC/APC, SC, SC/APC, ST, FC and FC/APC connector options
- Quick-turn service for fast delivery
- TIA compliant color-coded connectors and boots
- Cable jacket and boots color-coded for easy ID of fiber
- Fiber options: OS2, OM1, OM3, OM4, and OM5
- OM5 available only with LC duplex connectors and 1.6 mm duplex zipcord cable
- 100% tested for insertion loss and single-mode for return loss
- LC Unibody connector with Spectro-Link Technology includes reversible polarity feature, allowing polarity changes in the field without tools
- Unibody design is ideal for high-density applications, and comes standard with 2.0 mm duplex round cables
- Premium Plus Series cords include a Limited Lifetime Warranty when used with other Leviton cabling and installed by a Leviton certified contractor
- Other jacket colors available as custom with MOQ and lead time applicable
- Custom configurations via Leviton.com/configurator

STANDARDS & REGULATIONS

- ANSI/TIA-568.3-D
- ISO/IEC 11801-1
- ANSI/TIA-598-D
- Fiber Optic Connector Intermatability Standards (FOCIS)
 - TIA -604-10B (LC) •
 - TIA -604-3B (SC) •
 - TIA -604-2B (ST) •
 - TIA -604-4B (FC)
- End face geometry: IEC 61755-3-1 (UPC/PC), IEC 61755-3-2 (APC)
- Fiber compliance:
 - OS2: IEC 60793-2-50, TIA 492CAAC, ITU-T G.657.A1
 - OM1: IEC 60793-2-10, TIA 492AAAF
 - OM3: IEC 60793-2-10, TIA 492AAAF, ITU-T G.651.1
 - OM4: IEC 60793-2-10, TIA 492AAAF, ITU-T G.651.1
 - OM5: IEC 60793-2-10, TIA 492AAAF, ITU-T G.651.1
- Jacket flame rating:
 - Plenum per UL 444, NFPA 262
 - LSZH per IEC 60332-3-24, IEC 60332-1-2
- RoHS

PRODUCT SPECIFICATIONS
Premium Plus Fiber Patch Cords

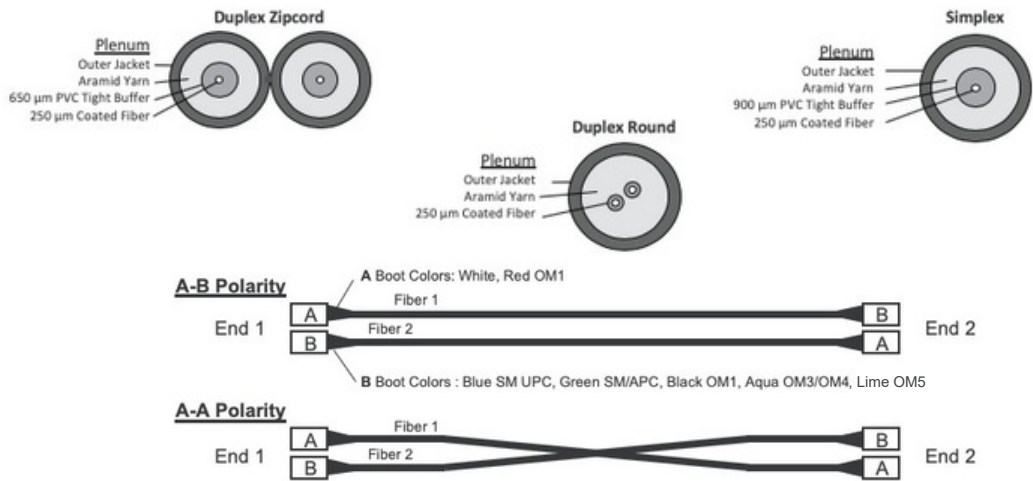
MECHANICAL SPECIFICATIONS

Connector Durability: >500 Matings
Connector Cable Retention: 50 N (11.24 lbf)

WARRANTY INFORMATION

For Leviton product warranties, go to leviton.com/ns/warranty

Physical Specifications									
Cable Type	Fiber Count	Nominal Diameter	Weight	Tension		Bend Radius		Temperature Range	
		Inches (mm)	Plenum	LBS (N)		Inches (cm)			
			LBS/100FT (kg/km)	Installation	Long Term	Installation	Long Term	Operating/ Installation	Storage
1.6 mm Duplex Zipcord	2	0.06 x 0.12 (1.6 x 3.2)	7 (6)	11 (50)	7 (30)	2.0 (5.0)	1.2 (3.0)	-20°C to +70°C	-40°C to 75°C
2.0 mm Duplex Round	2	0.08 (2.0)	5 (7)	11 (50)	7 (30)	1.2 (3.0)	0.8 (2.0)		
2.0 mm Simplex	1	0.08 (2.0)	3 (5)	11 (50)	7 (30)	2.0 (5.0)	1.2 (3.0)		



Note on Patch Cord:
Length tolerance: < 10-meter (33 ft) patch cords: +7.6 cm/-0, +3 in/-0in
> 10-meter (33 ft) patch cords: +2.0% / -0%
Length is measured from ferrule tip to ferrule tip with protective caps removed

OPTICAL SPECIFICATIONS

Insertion Loss
Multimode: 0.15 dB typical, 0.25 dB max
Single mode: 0.12 dB typical, 0.25 dB max
Return Loss
Multimode: ≥ 26 dB
Single mode: ≥ 50 dB UPC, ≥ 60 dB APC

OPTICAL SPECIFICATIONS – LC UNIBODY CONNECTOR

Insertion Loss
Multimode: 0.15 dB max
Single mode: 0.25 dB max
Return Loss
Multimode: ≥ 26 dB
Single mode: ≥ 50 dB UPC, ≥ 60 dB APC

PRODUCT SPECIFICATIONS

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Make-to-order!		PREMIUM PLUS FIBER PATCH CORDS						
Assembly Type	Fiber Type	Cable Rating	Cable Type	Termination		Unit of Measure	Length	Polarity
• Fiber Patch Cord (PCF)	• 8.2/125um SM OS2 Yellow (S2)	• PLENUM (P) • LSZH (L)	• SIMPLEX 2.0 MM (S2)	FIRST END • ST (A) • SC (Q) • LC (R) • SC/APC (E) • LC/APC (F) • LC Unibody (V) • FC (D) • FC/APC (G)	SECOND END • ST (A) • SC (Q) • LC (R) • SC/APC (E) • LC/APC (F) • LC Unibody (V) • FC (D) • FC/APC (G) • No Connector (X)	• Meters (M) • Feet (F)	• 0010-3000*	• Standard A-B (A-B) • A-A (A-A)
	• 62.5/125 µm MM OM1 Orange (MI)		• DUPLEX ZIPCORD 1.6 MM (DI)					
	• 50/125 µm LO 10G-300m MM OM3 Aqua (M3)		• ROUND 2.0 MM (R2)					
	• 50/125 µm LO 10G-550m MM OM4 Aqua (M4)							
	• 50/125 µm WBMMF OM5 (M5)							

*E.g. 0010=001.0 Units

0015 = 001.5 Units

0150 = 015.0 Units

Notes on length:

Min FEET increment: 1-FT,

Lengths > 1-FT: User can select 0.6-Inch increments

Min METER increment: 0.2-M

Lengths > 0.2 M User can select 0.2 M increments

After 49-FT/15 M longer lead times may apply for fractional lengths

