

Product updated on November 21, 2018

Premium Patch Cords



Our premium low loss range of patch cords are suitable for telecom, datacom, data center and some critical applications. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects.

The patch cords are terminated with premium range physical contact (single mode & multimode) and angled physical contact (single mode) zirconia ferrule connectors which are manufactured with precision factory mounting and polishing techniques which helps assure high transmission quality.

FEATURES/BENEFITS

- Conform to IEC, EIA-TIA or Telcordia performance requirements
- Available in different fiber types
- Available with different connector types
- Available in standard and custom lengths
- REACH & SvHC compliant
- Materials compliant to RoHS2

APPLICATIONS

- Data center
- Telecommunication networks
- CATV
- LAN and WAN
- FTTX
- Broadband network

SPECIFICATIONS

CHARACTERISTICS	UNITS	SIMPLEX	DUPLEX
Cable Material		LSZH	LSZH
Strength Member		Aramid	Aramid
Crush	N	1000	1000
Operating Temperature	°C	-20 to +60	-20 to +60
Secondary Buffer Diameter (2.0 mm, 2.4 mm and 3.0 mm)	µm	900 ± 50	900 ± 50
Secondary Buffer Diameter (1.6 mm and 1.8 mm)	µm	600 ± 50	600 ± 50
Minimum Bending Radius	µm	10D (installed) 20D (loaded)	10D (installed) 20D (loaded)

Note: The Patch Cords are available in standard length of 1 m, 2 m, 3 m, 5 m, and 10 m. For other lengths please contact us for the actual lead times.

ADDITIONAL INFORMATION

OPTICAL PERFORMANCE	SINGLEMODE	MULTIMODE	CONFORMANCE
IL MAX/ Master (Acceptance)	0.15 dB	0.15 dB	IEC 61300-3-4
Ave/Master*	0.12 dB	0.08 dB	IEC 61300-3-4
Ave/Random*	0.12 dB	0.10 dB	IEC 61300-3-34
Return Loss	55/65 dB	-	IEC 61300-3-6

MECHANICAL PROPERTIES	CRITERIA*	CONFORMANCE
Mechanical endurance	500 matings	IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	IEC 61300-2-12
Cable retention	Magnitude 50 N	IEC 61300-2-4
Cable torsion	1.5kg-2.5 kg for 2mm-3mm cable diameter	IEC 61300-2-5

* The change in attenuation for all the above listed criteria shall be a maximum of 0.20dB

CONNECTOR TYPE	CONFORMANCE	SM	MM	SM DUPLEX	MM DUPLEX
SC connector	IEC 61754-4	SM PC - Blue APC - Green	MM PC- Beige	SM PC- Blue APC-Green with clips	MM PC- Beige with clips Boot - Red & Black
LC connector	IEC 61754-20	SM PC - Blue APC - Green Boot- White	MM PC - Beige Boot - White	SM PC - Blue APC - Green with clips Boot - White	MM PC- Beige with clips Boot - White
ST connector	IEC 61754-2	SM PC- Yellow Boot	MM PC - Black Boot	SM PC - Yellow Boot	MM PC - Red & Black Boot
FC connector	IEC 61754-13	SM PC - Blue Boot APC - Green Boot	MM PC - Black Boot	SM PC - Blue Boot APC - Green Boot	MM PC- Black Boot
E2000 connector	IEC 61754-15	SM PC - Blue Boot - Black APC - Green	MM PC - Beige Boot - Black	SM PC - Blue Boot - Black APC - Green	MM PC - Beige Boot - Black

IMP: Please note that the LC 2mm connectors will have heat shrinks to serve the purpose of cable retention. C clips will be provided for channel identification of duplex FC and ST Patch Cords.

ORDERING INFORMATION

Connector End A		Connector End B		Fiber Type		Cable Configuration		Cable Colour*		Cable Length		
FC	FC	FC	FC	09	OS1/OS2	D	Duplex LSZH	YE	Yellow	1	1 metre	-P
FCA	FC APC	FCA	FC APC	7A1	G.657A1	DR	Duplex Riser	OR	Orange	2	2 metre	
SC	SC	SC	SC	7A2	G.657A2	S	Simplex LSZH	PU	Purple	3	3 metre	
SCA	SC APC	SCA	SC APC	62	OM1	SR	Simplex Riser	AQ	Aqua	5	5 metre	
ST	ST	ST	ST	50	OM2	FD	Flat Duplex LSZH	EV	Erika Violet	10	10 metre	
LC	LC	LC	LC	OM3	OM3					XX	Specify	
LCA	LC APC	LCA	LC APC	RM3	OM3 RBS							
E2	E2000	E2	E2000	OM4	OM4							
E2A	E2000 APC	E2A	E2000 APC	RM4	OM4 RBS							

*Note colours: YE = OS1/OS2, OR = OM1/OM2, AQ/PU = OM3/OM4

Example Part Number

FC	SC	OM3	D	AQ	5	-P
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This part number has created a 5 metre FC to SC OM3 LSZH duplex patch cord.



FURTHER INFORMATION

- For additional information please contact your sales representative
- To view the product 360 visit the product page (Scan the QR code or visit the link below)
- Downloaded from <https://www.aflhyperscale.com/product/premium-patch-cords>
- AFL Hyperscale reserves the right to make changes in this datasheet at any time without notice
- Information in this document is correct as of November 21, 2018

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