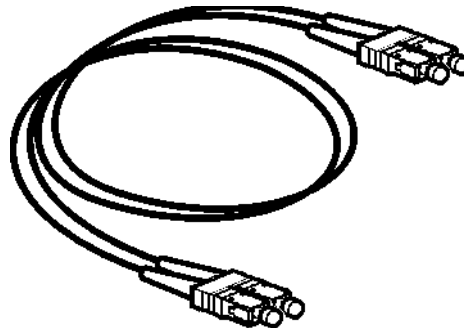


Optic Fibre Patch Cords Singlemode

Cat. No(s): 0 325 27/28/29/30/31/32/33/34/35/36 - 0 326 00/01/02/03/04
0 326 05/06/07/08/18/28/29/ 9 001 53/54/55



1. DESCRIPTION

Legrand optic fibre patchcords are suitable for low loss telecom, datacom, data centre and some critical applications. The patchcords provide flexible inter-connection to active equipment, passive optical devices and cross-connects.

Patchcords are delivered in A to B configuration. Polarity on LC connectors can be switched on the field with a tool to convert to A to A patchcords.

The patchcords are terminated with ultra physical contact (UPC) or angled physical contact (APC) zirconia ferrule connectors which are manufactured with precision factory mounting and polishing techniques which insures high transmission quality.

OS1a/OS2 Singlemode optical cords (9/125 µm)

Yellow sheaths

Cat. Nos	Designation	Length
0 325 27	SC/SC duplex cords OS2 G.657.A2 LSZH (Ultra performance) (A to B)	1 m
0 325 28		2 m
0 325 29		3 m
0 325 30	SC/LC duplex cords OS2 G.657.A2 LSZH (Ultra performance) (A to B)	1 m
0 325 31		2 m
0 325 32		3 m
0 325 33	LC/LC duplex cords OS2 G.657.A2 LSZH (Ultra performance) (A to B)	1 m
0 325 34		2 m
0 325 35		3 m
0 325 36		5 m
0 326 00	SC/SC duplex cords OS2 G.657.A2 LSZH (Core performance) (A to B)	1 m
0 326 01		2 m
0 326 02		3 m
0 326 03	SC/LC duplex cords OS2 G.657.A2 LSZH (Core performance) (A to B)	1 m
0 326 04		2 m
0 326 05		3 m
0 326 28	LC/LC duplex cords OS2 G.657.A2 LSZH (Core performance) (A to B)	0,5 m
0 326 06		1 m
0 326 07		2 m
0 326 08		3 m
0 326 29		5 m
0 326 18	SC/SC APC simplex cord OS2 G.657.A2 LSZH (Core performance)	2 m
9 001 53/54/55	All patchcords using LC, SC, LC APC or SC APC (Core or Ultra Performance), and ST (Core) (A to A) or (A to B)	1 to 50 m

2. FEATURES / BENEFITS

- Conform to IEC, ANSI/TIA, and Telecordia performances requirements
- RoHS, REACH & SvHC compliant
- 3D endface geometry (interferometry): sampling quality control.
- Optical performance: 100% factory tested.
- B657A2 fiber for improved bend radius

3. APPLICATIONS

The Legrand core, ultra and quantum connectivity performances are far superior than standard. They provide the following benefits for the user :

- Wider range of applications
- More flexibility in the design
- Energy saving on the active (transceivers).

- Data centre
- FTTH
- Telecommunication networks
- LAN and WAN
- Broadband network

4. CONNECTOR SPECIFICATION

Optical performance	Core	Ultra	Conformance
IL Max/Master	0.25 dB	0.15 dB	IEC 61300-3-4
IL Max/Random *	0.30 dB	0.25 dB	IEC 61300-3-34
Typ. IL/Master	0.15 dB	0.12 dB	IEC 61300-3-4
Typ. IL/Random *	0.15 dB	0.12 dB	IEC 61300-3-34
Return Loss	>55 dB (UPC) / 65 dB (APC)		IEC 61300-3-6

* Performance is guaranteed only with other components of the same Legrand range (Core, Ultra and Quantum). Mixing ranges or use of components of other brand may lead to a different performance of the system.

The uncertainty value for field measurement with LSPM testing using a reference cord defined in ISO/IEC 14763-3 applies to field testing with proposed Legrand testing cords. Refer to the Fiber Optic Testing Guide for Legrand Solutions.

Mechanical properties		Conformance
Mechanical endurance	500 matings	IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude	IEC 61300-2-1
Cable retention	Magnitude 50 N	IEC 61300-2-4
Cable torsion	1.5 kg for 2 mm cable diameter	IEC 61300-2-5

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

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Connector type	Conformance	Colors
SC	IEC 61754-4	Connectors : blue Boots : blue
LC	IEC 61754-20	Connectors : blue Boots : white
ST	IEC 61754-2	Connectors : metal Boots : black
SC APC	IEC 61754-4	Connectors : green Boots : green
LC APC	IEC 61754-20	Connectors : green Boots : white

NB : Please note that the LC 2 mm connectors will have heat shrinks to serve the purpose of cable retention.

5. CABLE SPECIFICATION

Characteristics	Units	Values
Cable Material		LSZH
Strength Member		Aramid
Crush	N	1 000
Operating Temperature	° C	- 20 to 60
Secondary Buffer Diameter	µm	900 ± 50
Sheat Diameter	mm	2 x 2
Minimum Bending Radius	mm	R = 7.5 mm

6. FIBRE SPECIFICATION

Fiber type : OS1a/OS2 G657A2/B2 IEC 60 793-2-50 Category B657.a2
and B657. b2 (B6.a2 and B6.b2)

Characteristics	Units	OS2	Conformance
Attenuation	dB/km	≤0.38 @ 1310nm ≤0.23 @ 1550nm	IEC 60793-1-40
Chromatic Dispersion	ps/nm.km	≤3.7 @ 1285-1330nm ≤18.5 @ 1550nm	IEC 60793-1-42

7. ON DEMAND OFFER

Legrand On Demand Department could offer on demand components :

- Other lengths
- Other connector types
- Cords A to A
- Core, Ultra or Quantum Performance
- Consult your agency or local subsidiary
- For Quantum, ask for specific datasheet