ARMOURED PATCH CORD · SC / LC

SC · LC
ARMOURED

MODEL **SINGLE MODE**

Armoured single mode patch cord with spiral stainless steel armour, 3000 N crush resistance, insertion loss ≤ 0.25 dB.

INSERTION LOSS	CRUSH
≤ 0.25 dB	**3000 N**
ARMOUR	LENGTH
SPIRAL STEEL	**1 - 200 m**



01 OVERVIEW

Description & features

Fiber optic patch cable is often called fiber optic patch cord or fiber jumper cable. A patch cord is constructed from a core with a high refractive index, surrounded by a coating with a low refractive index, strengthened by aramid yarns and protected by an outer jacket. The core transmits the optical signal with little loss over long distances, while the low-index coating reflects light back into the core and the aramid yarn and jacket protect the fibre. Patch cords are classified by fibre mode, cable structure, connector type, polish and cable size. A patch cord carries connectors at both ends; a pigtail carries a connector at one end and a bare fibre at the other for fusion splicing. The armoured version adds a spiral stainless steel layer under the LSZH jacket, which raises crush resistance to 3000 N for harsh routes.

FEATURES

- Conform to IEC, EIA-TIA or Telcordia performance requirements.
- G.657A1 fibre with special dimension tolerance.
- Spiral stainless steel armour, 3000 N crush resistance.
- 2 mm or 3 mm cable with LSZH jacket; 900 µm pigtails available.
- RoHS, REACH and SvHC compliant materials.

APPLICATIONS

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

CONFIGURATION

SC and LC (UPC / APC polish), simplex and duplex, armoured construction.

02 SPECIFICATION

Cable & fibre specification

CHARACTERISTICS	SIMPLEX / DUPLEX
Fiber	G657A1
Strength member	Aramid yarn
Armour	Spiral stainless steel
Cable material	LSZH
Diameter	3.0 mm
Crush	3000 N
Operating temperature	−20 to +60 °C
Fire specification	IEC 60332-1
Length	1 m - 200 m, support customize

FIBRE SPECIFICATION

PARAMETER	VALUE
Attenuation (dB/km)	0.38 @ 1310 nm / 0.25 @ 1550 nm
Chromatic dispersion (ps/nm × km)	3.0 @ 1310 nm / 18.0 @ 1550 nm

03 CONNECTOR

Optical performance & endface geometry

PARAMETER	SPECIFICATION
Optical	SM
Insertion loss	≤ 0.25 dB
Return loss	≥ 50 dB (UPC) / ≥ 60 dB (APC)
Repeatability	≤ 0.1 dB
Durability	≤ 0.2 dB typical change, 1,000 matings
Tensile strength	60 N

ENDFACE GEOMETRY

PARAMETER	2.5 µm UPC	2.5 µm APC	1.25 µm UPC	1.25 µm APC
Radius of curvature	10 - 25 mm	5 - 15 mm	7 - 15 mm	5 - 15 mm
Apex offset	0 - 50 µm	0 - 50 µm	0 - 50 µm	0 - 50 µm
Fiber height	± 50 nm	± 50 nm	± 50 nm	± 50 nm

PACKING

- 1 pc per polybag.
- 100 or 200 pcs per carton box.



Polybag packing

04 CONFIGURATIONS

Connector combinations & packing



SC/SC armoured duplex



SC/LC armoured simplex

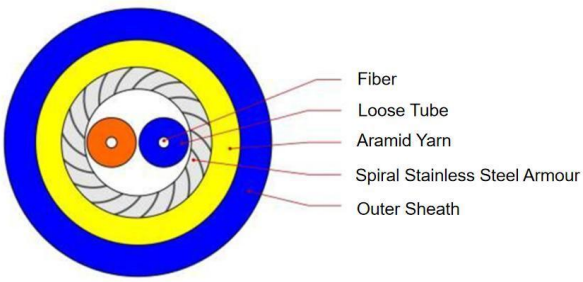


LC/LC armoured duplex

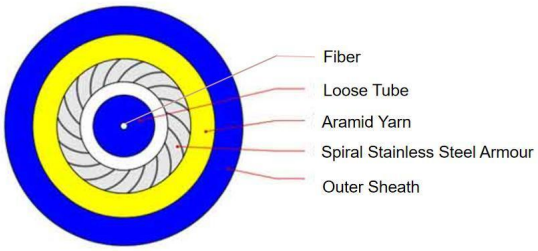


SC/LC armoured duplex

CABLE CONSTRUCTION



Armoured cable cross-section — spiral stainless steel armour



Armoured cable construction

ZUOYEAL

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Connecting More, With Fiber

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This datasheet describes the SC / LC single mode armoured patch cord at the time of publication. Dimensions and configurations may change without notice; confirm current values with ZUOYEAL before ordering.

SC · LC · SPIRAL STEEL ARMOUR · 3000 N

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