SINGLE MODE PATCH CORD · SC / LC

SC · LC
PATCH CORD

MODEL **SINGLE MODE**

Single mode patch cord and pigtail with SC or LC connectors, UPC or APC polish, insertion loss ≤ 0.3 dB.

INSERTION LOSS	RETURN LOSS
≤ 0.3 dB	**≥ 50 / 60 dB**
CABLE	LENGTH
3.0 / 2.0 mm	**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.

FEATURES

- Conform to IEC, EIA-TIA or Telcordia performance requirements.
- Available in patch cords with 2 mm or 3 mm cable and LSZH jacket.
- Available in pigtails with 900 µm buffer.
- RoHS, REACH and SvHC compliant materials.
- Data centre grade.

APPLICATIONS

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

CONFIGURATION

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

02 SPECIFICATION

Cable & fibre specification

CHARACTERISTICS	SIMPLEX / DUPLEX
Cable material	LSZH
Strength member	Aramid yarn
Diameter	3.0 mm (or 2.0 mm)
Crush	100 N
Operating temperature	−20 to +60 °C
Fire specification	IEC 60332-1
Fiber	SM
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	≤ 0.3 dB
Return loss	≥ 50 dB (UPC) / ≥ 60 dB (APC)
Repeatability	≤ 0.1 dB
Durability	≤ 0.2 dB typical change, 1,000 matings
Tensile strength	50 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



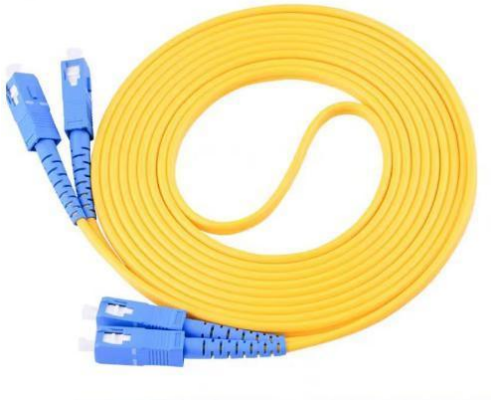
SC/SC single mode simplex



SC/LC single mode simplex



SC/LC single mode duplex



SC/SC single mode duplex



LC/LC single mode simplex



LC/LC single mode duplex

ZUOYEAL

ZUOYEAL TECHNOLOGY

Connecting More, With Fiber

www.zuoyealoptic.com · trade@zuoyeal.com

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

SC · LC · 2.0 / 3.0 mm · LSZH

Connecting More, With Fiber