FIBER OPTIC PIGTAIL · 0.9 MM

0.9 mm
PIGTAIL

MODEL **SC · LC**

0.9 mm pigtail with SC or LC connector and a 900 µm buffered fibre for fusion splicing, insertion loss ≤ 0.2 dB typical.

INSERTION LOSS	BUFFER
≤ 0.2 dB	**900 µm**
CABLE	TENSILE
0.9 mm	**15 N**



01 OVERVIEW

Description & features

A fiber optic pigtail, also called tail fibre or end fibre cable, has a connector at one end and a bare fibre at the other which is spliced to another fibre. Pigtails are used in fibre terminal boxes to connect the incoming cable to the transceiver, coupler or patch panel.

FEATURES

- Conform to IEC, EIA-TIA or Telcordia performance requirements.
- G.652D fibre with special dimension tolerance.
- LSZH jacket with 900 μm buffer.
- RoHS, REACH and SvHC compliant materials.

APPLICATIONS

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

CONFIGURATION

SC and LC connectors, simplex, 0.9 mm cable.

02 SPECIFICATION

Cable & fibre specification

CHARACTERISTICS	SIMPLEX / DUPLEX
Cable material	LSZH, PVC
Diameter	0.9 mm
Crush	50 N
Operating temperature	−20 to +60 °C
Standard	IEC 61754-4 (2002-03) Ed.1.2
Fiber	SM, MM
Service life	1,000 times
Colour	White, yellow, black, red, green or customized

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 / MM
Insertion loss	≤ 0.2 dB typical, ≤ 0.25 dB average (SM); ≤ 0.25 dB (MM)
Return loss	≥ 50 dB (UPC) average, ≥ 60 dB (APC); MM: N/A
Repeatability	≤ 0.1 dB
Durability	≤ 0.2 dB typical change, 1,000 times
Tensile strength	15 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

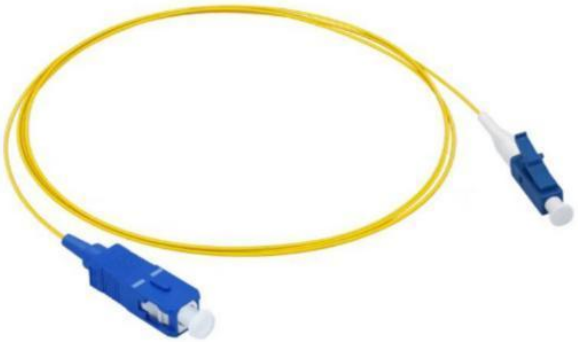
- 1 pc per polybag.
- 100 pcs per carton box.

04 CONFIGURATIONS

Connector combinations & packing



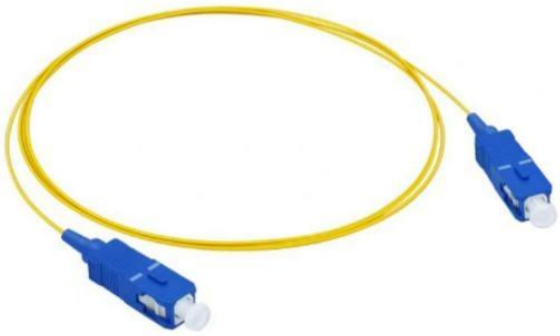
SC pigtail, 0.9 mm cable



SC/LC pigtail



SC/SC pigtail



LC/LC pigtail

ZUOYEAL

ZUOYEAL TECHNOLOGY

Connecting More, With Fiber

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This datasheet describes the 0.9 mm pigtail at the time of publication. Dimensions and configurations may change without notice; confirm current values with ZUOYEAL before ordering.

0.9 mm · SC / LC · 900 µm BUFFER

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