Fiber Optic Pigtails Datasheet

Fiber Optic Pigtails Applications

Fiber optic pigtail is a tight buffered fiber cable with connectors pre-terminated on one end and exposed fiber on the other. The exposed end could be stripped and fusion spliced to a single or multi-fiber trunk. Bunch and color-coded types are available. And these pigtails feature a typical 900 μm tight buffered as default. They are easy for fusing and protecting the tight buffers from damage.
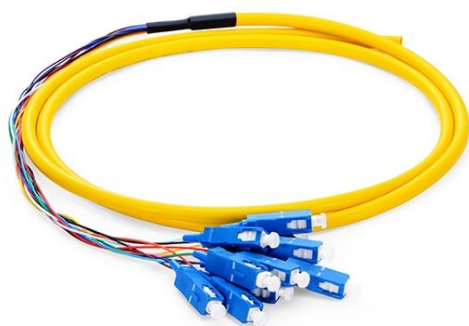
Features

- Tight buffer for easy fusion or mechanical splicing

- 0.9mm cable for high density splicing applications

- OS2/OM4/OM3/OM2/OM1 are available

- LC/SC/ST/FC/LSH connectors are provided

- UPC and APC polish type

- Bunch/Color-coded/Ribbon cable types are for your choice

- PVC jacket as default, OFNP and LSZH optional
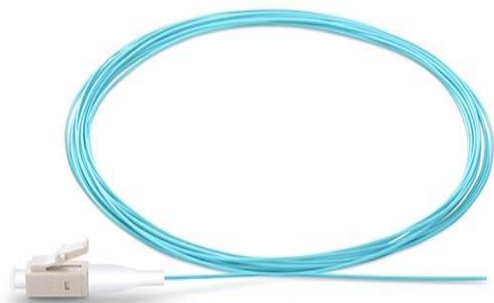
Standards Compliance

- ISO9001 and RoHS Compliant

- TIA-604 (FOCIS)

- IEC-61754

Fiber Optic Pigtails Guidance

OS2

OM3

Simplex Technical Specification

Physical Characteristics	Description
Fiber Count	Simplex
Fiber Mode	Single Mode: OS2; Multi-mode: OM1/OM2/OM3/OM4
Connector Type	LC/SC/FC/ST/LSH
Fiber Grade	OS2: G.657.A1; OM4/OM3/OM2: Bend Insensitive; OM1: G.651
Cable Jacket	PVC (Riser/OFNR)/LSZH/Plenum (OFNP)
Jacket Color	OS2: Yellow; OM3/OM4: Aqua; OM1/OM2: Orange
Cable Diameter (mm)	0.9/2.0
Minimum Bend Radius (mm)	Single Mode: 30; Multi-mode: 7.5/15

12Fibers Technical Specification

Physical Characteristics	Description	
Cable Type	Bunch	Color-coded
Fiber Count	12 Fibers	12 Fibers
Fiber Mode	OS2/OM3/OM4	OS2
Fiber Grade	OS2: G.657.A1; OM4/OM3: Bend Insensitive	G.657.A1
Connector Type	LC/SC	LC/SC
Polish Type	OS2: UPC/APC; OM3/OM4: UPC	UPC/APC
Fiber Diameter (mm)	0.9	0.9
Cable Jacket	PVC (Riser/OFNR)	
Breakout Length (m)	0.5 (Cable Length≥3m); 0.3 (Cable Length＜3m)	
Minimum Bend Radius (mm)	20/10D (Dynamic/Static)	30

Customized Technical Specification

Physical Characteristics	Simplex	Multi-fiber		
Fiber Count	Simplex	4/6/8/12/24/48		
Cable Type	Bunch	Bunch	Ribbon	Color-coded
Fiber Mode		OS2/OM4/OM3/OM2/OM1		
Fiber Grade		OS2: G.652.D/G.657.A1; OM4/OM3/OM2: Bend Insensitive; OM1: G.651		
Connector Type		LC/SC/ST/FC/LSH		
Polish Type		SMF: UPC/APC; MMF: UPC		
Breakout Leg (mm)	2.0/0.9	2.0/0.9	2.0/0.9	0.9
Cable Jacket	PVC (Riser/OFNR)/LSZH/Plenum (OFNP)			
Minimum Bend Radius (mm)	OS2: 30/10; OM4/OM3/OM2: 7.5; OM1: 15	20/10D (Dynamic/Static)	20/10D (Dynamic/Static)	OS2: 30/10; OM4/OM3/OM2: 7.5; OM1: 15

Trunk Diameter (mm)	4 Fibers	6 Fibers	8 Fibers	12 Fibers	24 Fibers	48 Fibers
2.0mm Breakout Leg	7.0-8.0mm	8.5-9.5mm	10.0-11.0mm	12.0-13.0mm	15.0-16.0mm	16.5-17.5mm
0.9mm Breakout Leg	4.6-5.0mm	5.0-5.4mm	6.0-6.4mm	6.5-7.1mm	7.9-8.9mm	19.5-20.5mm

Optical Characteristics	Description
Insertion Loss (dB)	≤0.3
Return Loss (dB)	SMF: UPC≥50, APC≥60 (LC/SC/ST/FC) UPC≥55, APC≥75 (LSH) MMF: UPC≥30 (LC/SC/ST/FC/LSH)
Wavelength (nm)	SMF: 1310/1550; MMF: 850/1300
Attenuation (dB/km)	SMF: ≤0.36 at 1310nm, ≤0.22 at 1550nm MMF: ≤3.0 at 850nm, ≤1.0 at 1300nm
Operating Temperature	-40°C to 75°C
Storage Temperature	-45°C to 85°C

Ordering Information

Product number	Description
FP-S2SCUS	SC UPC Simplex OS2 Single Mode PVC (OFNR) 0.9mm Fiber Optic Pigtail
FP-S2LCUS	LC UPC Simplex OS2 Single Mode PVC (OFNR) 0.9mm Fiber Optic Pigtail
FP-M3LCUS	LC UPC Simplex OM3 Multi-mode PVC (OFNR) 0.9mm Fiber Optic Pigtail
FP-S2LCU12UJ	LC UPC 12 Fibers OS2 Single Mode Unjacketed Color-Coded Fiber Optic Pigtail
FP-M4LCU12B	LC UPC 12 Fibers OM4 Multi-mode Bunch PVC (OFNR) 0.9mm Fiber Optic Pigtail
FP-S2xxxx	Customized 4-48 Fibers OS2 Single Mode LC/SC/FC/ST/LSH Fiber Optic Pigtail
FP-M4xxxx	Customized 4-24 Fibers OM4 Multimode LC/SC/FC/ST/LSH Fiber Optic Pigtail
FP-M3xxxx	Customized 4-24 Fibers OM3 Multimode LC/SC/FC/ST/LSH Fiber Optic Pigtail
FP-M2xxxx	Customized 4-24 Fibers OM1/OM2 Multimode LC/SC/FC/ST/LSH Fiber Optic Pigtail

Disclaimer

1. We are committed to continuous product improvement and feature upgrades, and the contents contained in this manual are subject to change without notice.

2. Nothing herein should be construed as constituting an additional warranty.

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