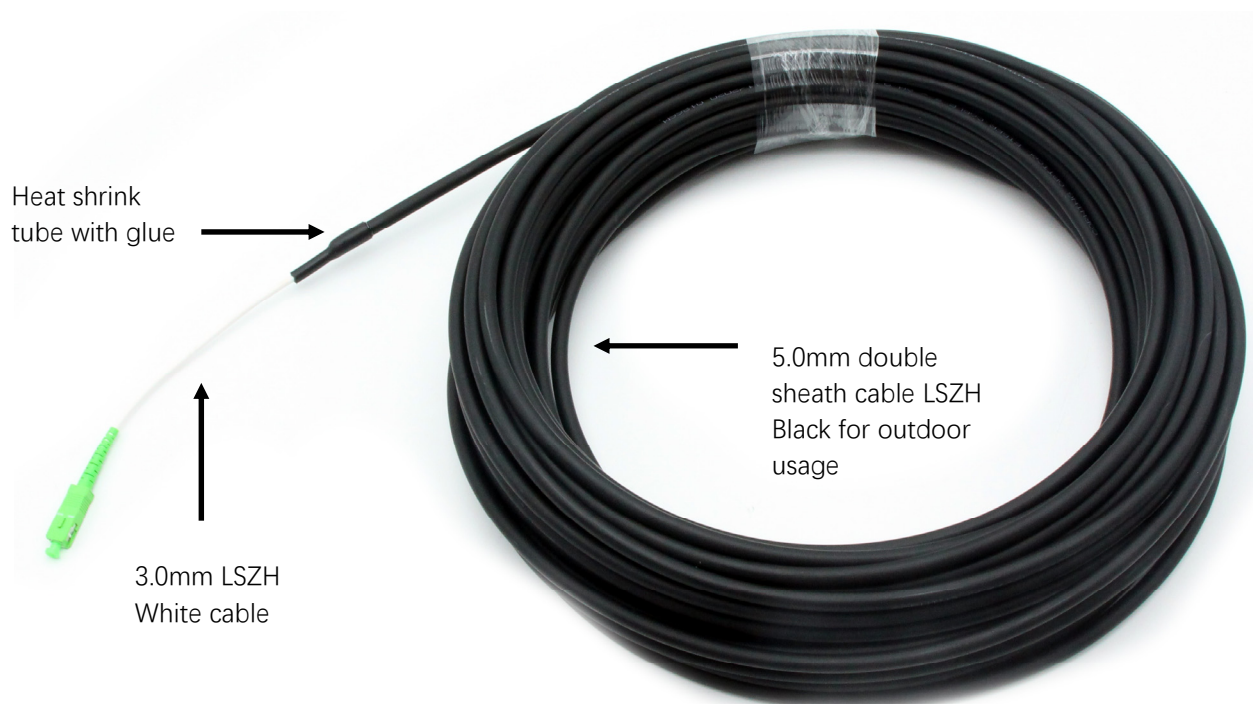


DATASHEET

Simplex SM FO Pigtail-SC/APC 5.0mm cable

Make strongest Optical network Cabling System/FTTH



IL<0.3dB Max



RoHS



OMC INDUSTRY CO.LIMITED

2018|En version1.0



Simplex SM FO Pigtail-SC/APC 5.0mm cable

Description

The fiber optic pigtail is normally a tight/semi-tight buffered fiber cable with a connector pre terminated on one end and exposed fiber on the other. The end is stripped and fusion spliced to a single or multi-fiber trunk. When utilized properly, the fiber optic pigtail allows light signal transmission with minimal return loss and low attenuation. Make sure your network is reinforced with OMC's fiber pigtails, as ours are manufactured of superior quality materials.

This 9/125 OS2 single mode fiber optic cable is ideal for connecting 1G/10G/40G/100G/400G Ethernet connections. It can transport data for up to 10km at 1310nm, or up to 40km at 1550nm.

Products Materials

Ferrule



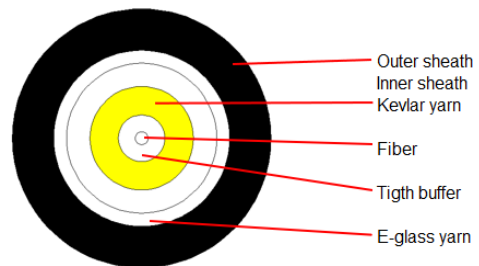
High quality SC SM APC Ceramic ferrule, Good concentricity<0.5um

Connector



High Quality LC PC Connector meet and Compatible with many International Standard SC: TIA/EIA, FOCIS3, GR-326.NTT-SC IEC61754-4 and JIS C5973.

Cable



Items		Description
Number of fiber		1F
Fiber type		G657A2
Loose Buffer	Material	PVC
	Diameter	0.9±0.05mm
Strength member	Material	Kevlar yarn and E-glass yarn
Inner sheath	Material	LSZH
	Color	White
	Diameter	2.8-2.95mm
Outer sheath	Material	LSZH
	Color	Black
	Diameter	5.0±0.2mm
Cable weight		25.5kg/km
Installation Temperature range (°C)		-10+60
Operation and transport temperature (°C)		-20+70
Min Bending Radius(mm)	Long term	10D
Min Bending Radius(mm)	Short term	20D
Min allowable Tensile Strength(N)	Long term	100
Min allowable Tensile Strength(N)	Short term	350
Crush Load (N/100mm)	Long term	100
Crush Load (N/100mm)	short term	500



Simplex SM FO Pigtail-SC/APC 5.0mm cable

Optical Specifications

Connector	SC	Polish	APC
Fiber Mode	9/125μm, G657A2	Jacket Color	Black
Cable OD	5.0mm	Wavelength	SM:1310/1550nm
Cable Structure	Simplex	Jacket Material	LSZH
Insertion loss	≤0.3dB(IEC Grade C)	Crush Resistance (N/100mm)	Long term 100; short term:500
Return loss	SM APC ≥ 60dB(min)	Interchangeability &Vibration	≤0.2dB
Tensile Strength (N)	Long term 100; short term:350	Opera- tion&Storage tem-	-45~85°C

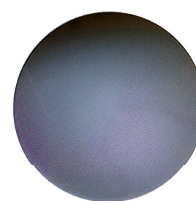
Polishing Method



APC(8 Angled Polished connector)

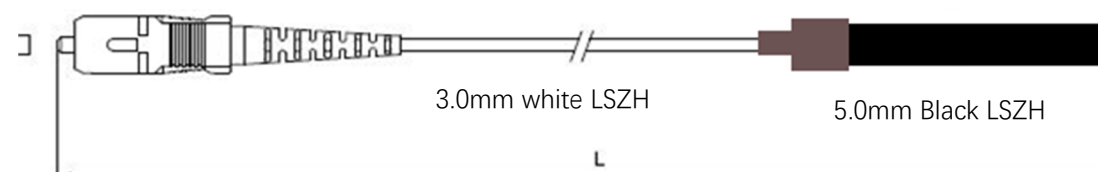
End-face Quality (SM)

Zone	Range (μm)	Scratches	Defects	Reference
A: Core	0 to 25	None	None	IEC 61300-3-35:2015
B: Cladding	25 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	



SM APC

Length Tolerance



Overall Length(L) (m)	length of tolerance (cm)
0<L<1	+5/-0
1<L<10	+10/-0
10<L<40	+15/-0
40<L	+0.5% x L/-0