

DATASHEET

Simplex SM FO Patch Cable-SC/APC-LC/APC 4.5mm Cable CCA

Make strongest Optical network Cabling System/FTTH



OMC INDUSTRY CO.LIMITED

2018|En version1.0



Simplex SM FO Patch Cable-SC/APC-LC/APC 4.5mm Cable

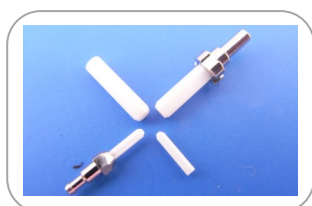
Description

The patch cord can be used in interconnect or cross-connect path connecting the incoming fibers to the electronic equipment and providing patching within the fiber paths.

OMC's Patch cables are manufactured and tested in compliance with TIA 604 (FOCIS), IEC 61754 and YD/T industry standards. OM1, OM2, OM3, OM4, OM5 or OS2 fiber types to meet the demand of Gigabit Ethernet, 10 Gigabit Ethernet and high speed Fiber Channel. Every termination through rigorous parameter test to ensure the highest in network performance.

Products Materials

Ferrule



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

Connector

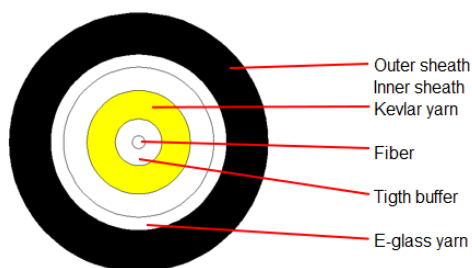


High Quality SC/LC PC Connector meet and Compatible with many International Standard

SC: SC: TIA/EIA, FOCIS3, GR-326.NTT-SC IEC61754-4 and JIS C5973.

LC: TIA/EIA, FOCIS10, GR-326 EIA/TIA-604-10, IEC61754-20 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	Aramid Yarn
Inner sheath	Material	CCA LSZH
	Color	White
	Diameter	2.0±0.1mm
Outer sheath	Material	CCA LSZH
	Color	Black
	Diameter	4.5±0.45mm
Cable weight		19kg/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



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Optical Specifications

Connector	SC-LC	Polish	APC-APC
Fiber Mode	9/125μm, G657A2	Jacket Color	White/Black
Cable OD	4.5mm	Wavelength	SM:1310/1550nm
Cable Structure	Simplex	Jacket Material	CCA 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- perature	-45~85°C

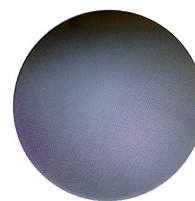
Polishing Method



APC(8 Angled Polished connector)

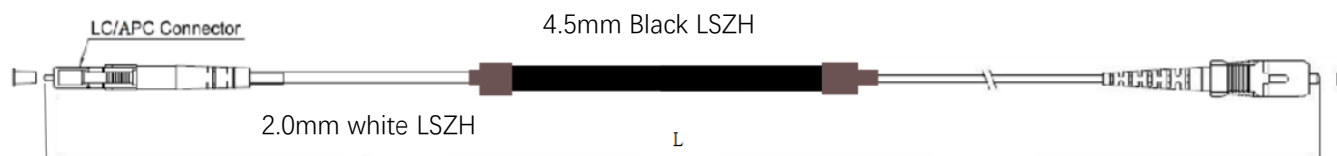
End-face Quality (SM)

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