

SPECIFICATION

MINI IP(SCAPC)-SC/APC SM 3.0MM WATERPROOF PATCH CORD



Description

OMC's Mini IP SC APC-SCAPC SM 3.0mm Waterproof patch cord is assembled with a 3.0mm OD Round Drop cable. It offers good tensile strength in installation. The Huawei connector end incorporates an SC/APC type connection within a slim, sealed, threaded polymer housing allowing easy connection to either a multi port terminal or in-line extension receptacle.

This cable is easily pluggable into the optical termination boxes, in a way that there is no need to open the closure to activate new subscribers. Mini SC patch cord provide a robust and sealed connection. So it have a very good waterproof characteristics. All of those features make it a best solution for fiber to the home (FTTH) connectivity.



Patch cord's Optical Specifications

Connector	Mini IP SC –Standard SC	Polish	APC-APC
Fiber Mode	9/125μm, G657A2	Jacket Color	Black
Cable OD	3.0±0.2mm	Wavelength	SM:1310/1550nm
Cable Structure	Simplex	Jacket Material	LSZH/TPU
Insertion loss	≤0.3dB(Super low loss)	Return loss	SM APC ≥ 60dB(min)
Operation Temperature	-10 ~ +70°C	Install&Storage temperature	-40 ~ +70°C

Remark:The IL in the table is only refer to the IL (connector). The product IL must contain the connector IL and fiber cable IL, IL all =2 x IL (connector) + IL (1km cable IL)/1000 x L (cable length).

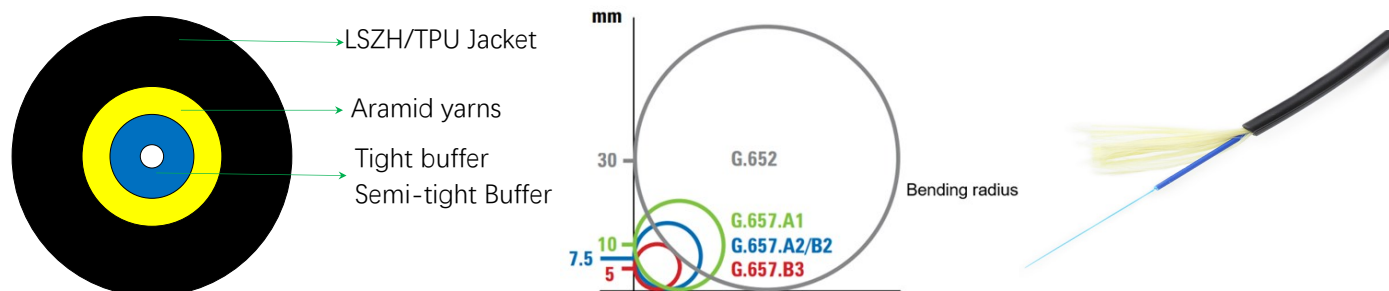
Mechanical and Environmental Characteristics

Items	Unite	Specifications	Reference
Span Length	M	50M(LSZH)/80m(TPU)	
Tension(Long Term)	N	150(LSZH)/200(TPU)	IEC 61300-2-4
Tension (Short Term)	N	300(LSZH)/800(TPU)	IEC 61300-2-4
Crush (Long Term)	N/10cm	100	IEC 61300-2-5
Crush (Short Term)	N/10cm	300	IEC 61300-2-5
Min. Bend Radius (Dynamic)	mm	20D	
Min. Bend Radius (Static)	mm	10D	
Operating Temperature	°C	-20~+60	IEC 61300-2-22
Storage Temperature	°C	-20~+60	IEC 61300-2-22

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	

Cable Technical Data



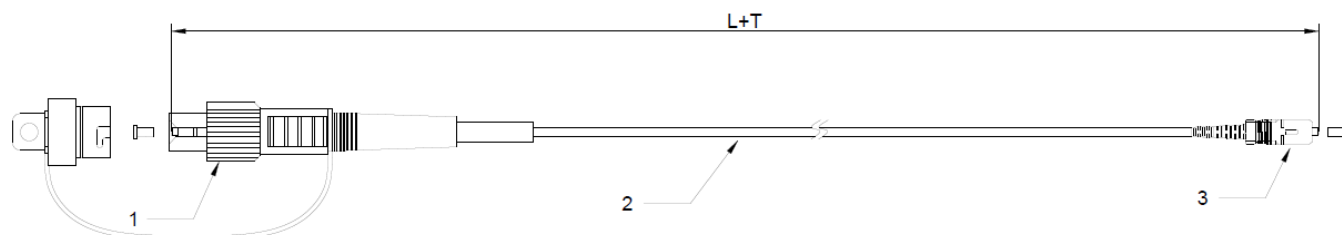
Fiber Cable Parameters

Items		Description
Number of fiber		1F
Fiber type		G657A2 natural/Blue
Diameter of mode Field		1310nm: 8.8+/-0.4um, 1550:9.8+/-0.5um
Cladding diameter		125+/- 0.7um
Buffer	Material	LSZH Blue
	Diameter	0.9±0.05mm
Strength member	Material	Aramid yarn
Outer sheath	Material	TPU/LSZH With UV protection
	CPR LEVEL	CCA,DCA,ECA
	Color	Black
	Diameter	3.0+/-0.2mm

Connector Optical Specifications

Type	Mini IP SC/APC
Insertion loss	Max. ≤ 0.3 dB
Return loss	≥ 60 dB
Tensile strength between optical cable and connector	Load: 300N Duration: 5s
Water proof	IP67
Fall	Drop height: 1.5 m Number of drops: 5 for each plug Test temperature: -15°C and 45°C
Bending	Load: 45 N Duration: 8 cycles, 10s/cycle
Torsion	Load: 15 N Duration: 10 cycles ± 180°
Static side load	Load: 50 N for 1h
Water proof	Depth: under 3m of water. Duration: 7 days
Change of temperature	Temperature: -25°C to 70 °C Duration at extreme temps: 1h Temperature change speed: 1°C/min Cycles: 12

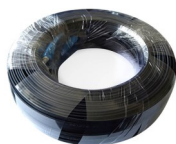
Length Tolerance



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

Packaging

This easily taken and well-protected fiber patch cable package has been labelled and marked by OMC as default . Which carton to be used depends on goods Qty . Packing can be customized.



1,PE Wrap



2,Paper Carton



3,Palletized

Installation conditions

Weather condition	Max. span(m)	Installation sag	Installation sag ratio (m)	Installation tensile (N)	Weather load tensile (N)	weather load sag(m)	weather load sag ratio
Max. wind speed: 37 m/s ice: 0	50	1.5%	0.5	157	773	1.44	2.9%
Max. wind speed: 26.67 m/s ice: 0	80	1.0%	1.125	157	713	2.23	3.0%
Max. wind speed: 10.7 m/s ice: 6.35mm	70	1.4%	0.98	157	744	2.09	3.0%