

SPECIFICATION

MINI IP(SC)-MINI IP(SC) SM 5.0MM WATERPROOF PATCH CORD&PIGTAIL



Description

It's a kind of FTTH patch cord assembly with **Double sheath 5.0mm FTTH Drop Cable**.It adopts lower insertion loss SC technologies, and compact cable structure, achieving fast deployment, high reliability, and durability.

This is a last cable in FTTH project. Used widely between MST,FAT, FTTH Pro -connectorized terminal box tec. With easy accessibility to the fiber and simple installation.



Patch cord's Optical Specifications

Connector	Dual-end Mini IP(SC) female connectors 1F	Polish	APC-APC
Fiber Mode	9/125μm, G657A2	Jacket Color	Black
Cable OD	5.0±0.2mm	Wavelength	SM:1310/1550nm
Cable Structure	Simplex	Jacket Material	LSZH
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	50	
Tension(Long Term)	N	300	IEC 61300-2-4
Tension (Short Term)	N	600	IEC 61300-2-4
Crush (Long Term)	N/10cm	300	IEC 61300-2-5
Crush (Short Term)	N/10cm	1000	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

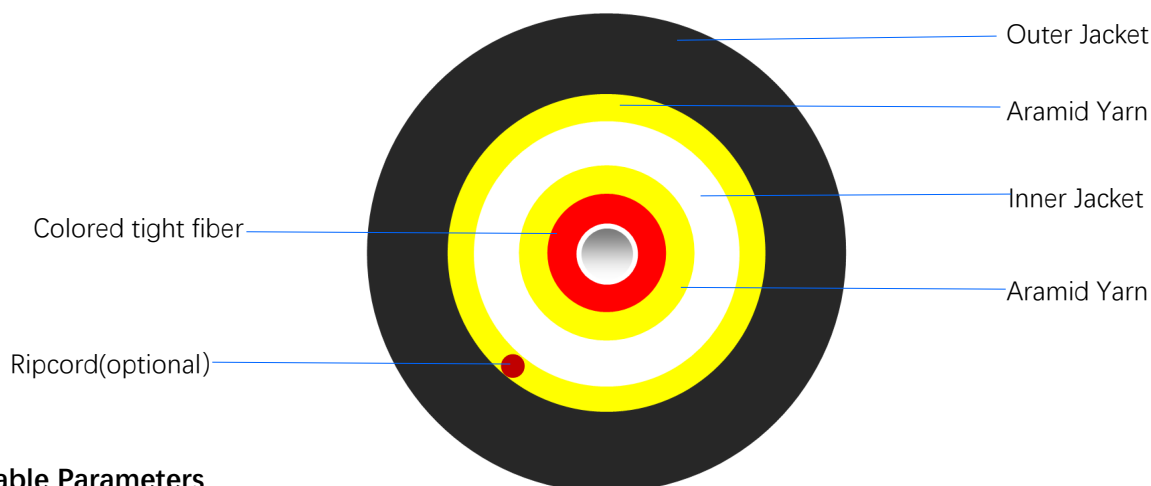
End-Face Quality (SM)

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	



Mini IP(SC)-Mini IP (SC) SM 5.0mm Waterproof Patch cord&Pigtail

Cable Technical Data



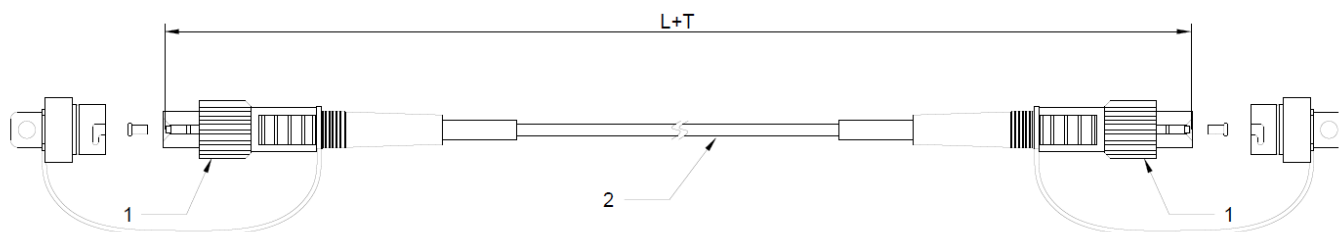
Fiber Cable Parameters

Items		Parameters
Fiber count		1F, 9/125μm, G657A2
Tight butter	Diameter	0.9±0.1mm
	Color	Red or Blue or white or green or Natural or others
Inner Jacket	Diameter	2.9mm±0.1mm or 2.0mm±0.1mm
	Material	LSZH
	Color	White&Black or Others
Strength Member		Aramid Yarn
Outer Jacket	Diameter	5.0mm±0.2mm
	Material	LSZH
	Color	Black

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

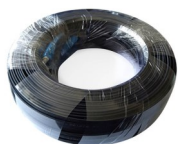
Length Tolerance



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%