

PATCH CORD&PIGTAIL

PULLABLE PRE-CONNECTORIZED MINI(SC)-BULLET SC-2X5.2MM FTTH FROP CABLE



Description

It's a kind of Pro-connectorized FTTH patch cord assembly with OMC's **Own Patent Bullet SC APC connector**, **Mini SCAPC waterproof connector** and **G657A2 Aerial self supporting 2x5.2mm FTTH LSZH Drop cable**.

This Bullet SCAPC connector can be threaded through a Pipe with Inner Diameter>6mm. This is a last cable in FTTH project. It will be used between FAP box, FTB, FDB, Fact plate and ONU/ONT tec.

With easy accessibility to the fiber and simple installation, This kind of FTTH drop patch cable can be directly connected to the housing rooms.



Optical Specifications

Connector	Mini IP(SC)-Bullet SC	Polish	APC-APC
Fiber Mode	9/125μm, G657A2	Jacket Color	Black
Cable OD	5.2(±0.2)*2.0(±0.1) mm	Wavelength	SM:1310/1550nm
Cable Structure	Simplex	Jacket Material	LSZH
Insertion loss	≤0.3dB(IEC Grade C1)	Return loss	SM APC ≥ 60dB(min)
Operation Temperature	-10 ~ +70°C	Install&Storage temperature	-40 ~ +70°C

End-face Quality

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

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OMC's Own Patent Bullet SCAPC connector



- 1,Bullet SC Connector cap
- 2,Ferrule Cap
- 3+4,Housing Body
- 5,Ferrule
- 6,Spring
- 7,Stop
- 8,Crimp Ring
- 9,Boot

Pulling Eye Force	150N-200N
Bullet SC Connector cap Material	SUS304
Boot	3.0mm
Drop cable	Round cable:3.0mm Flat cable:2x3mm;2x.5.0mm

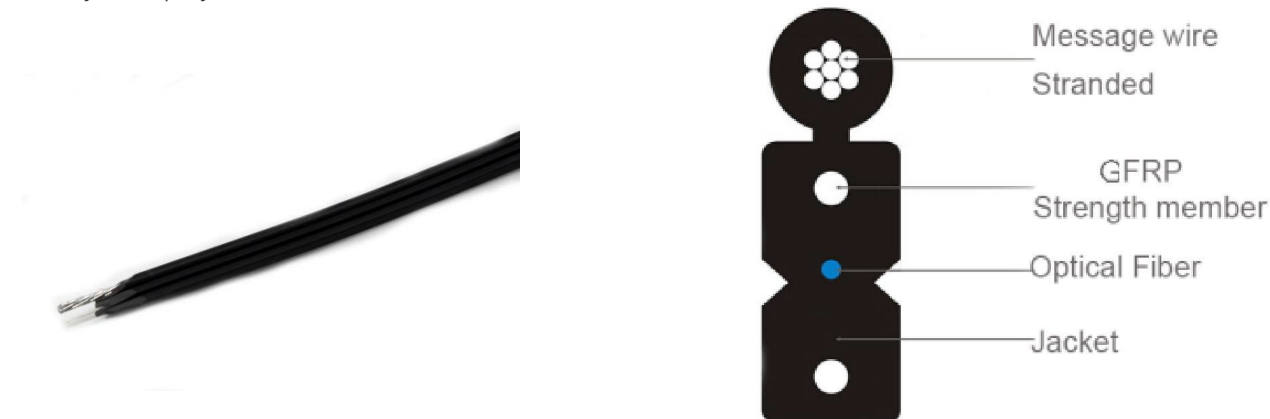
Mini IP (SC APC) Connector



Item No.	Description
Mini IP (SC/APC) Connector	SC/APC dust cover black
	SC/APC outer housing black
	SC/APC boot black
Drop Cable	Found cable:3.0mm-5.0mm Flat cable: 2x3mm 2x.5.0mm
Housing Component	Fastconnect outer housing in black

1F 2x5.2mm Aerial self supporting FTTH Drop Cable

FTTH outdoor Aerial Drop Cable uses Fig 8 flat structure, whose optical fiber unit is positioned in the center. One stranded steel message wire, Two parallel GFRP strength members are placed at the two sides. Then, the cable is completed with LSZH sheath. Fig 8 FTTH Drop cable has a much greater bandwidth to carry data and less susceptible to interference than common indoor fiber cables. With small diameter, water-resistant, soft and bendable characteristics, it's easy to deploy and maintenance.



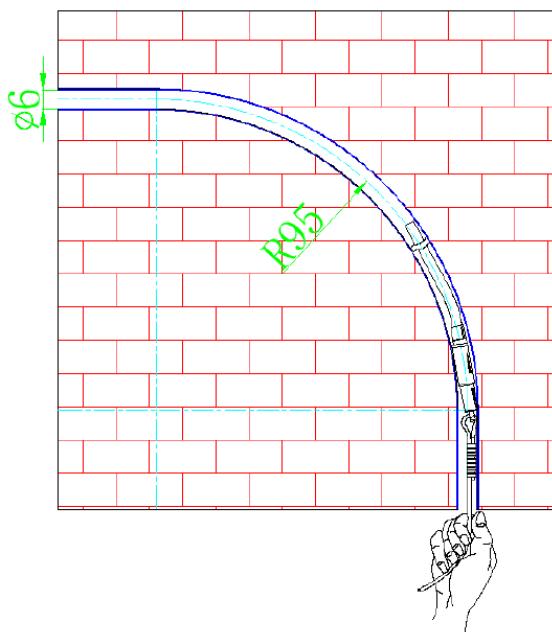
Item	Contents	Unit	Value
Optical Fiber	Fiber count	/	1(single mode) G657A2
Strength member	Material	/	GFRP
	Diameter	mm	0.5
Messenger wire	Material	/	stranded galvanized steel wire
	Diameter	mm	(7*0.33mm)-1
Outer jacket	Diameter	mm	2.0 x 5.3 mm / $\Phi \pm 0.2\text{mm}$
	Material	/	LSZH with UV / $\geq 0.4\text{mm}$
	Color	/	Black
Tensile performance	Short term	N	600
	Long term	N	300
Crush	Short term	N/100mm	2200
	Long term	N/100mm	1000
Min. bending radius (without messenger)		mm	Static: 20mm; Dynamic: 40mm
Life time		Year	25
SPAN		Meter	60
Cable weight (Approx.)		kg/km	22 $\pm$ 10% kg/km

Optical and Mechanical Performance of the drop cable

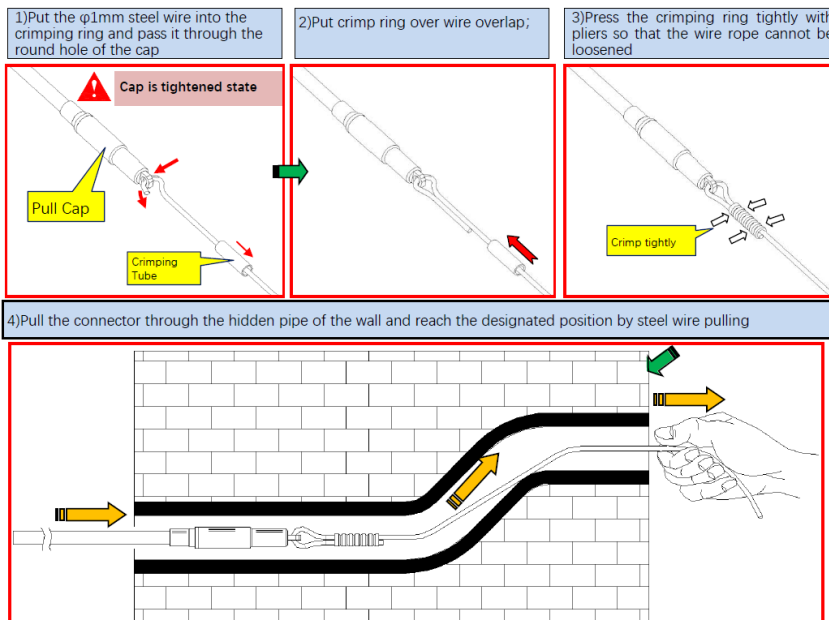
OPTICAL CHARACTERIZATION OF CONNECTOR AND CABLE			
Testing items	Standard	Data request	Remark
IL(Bullet SC)	Telcordia GR-3120 2.4.1	IL<=0.4dB Max	
IL(Mini IP SC)	Telcordia GR-3120 2.4.1	IL<=0.4dB Max	
RL(Bullet SC)	Telcordia GR-3120 2.4.1	RL>=60dB Min	
RL(Mini IP SC)	Telcordia GR-3120 2.4.1	RL>=60dB Min	
G657A.2 cable	IEC 60793-1-40	1310nm<0.35dB, 1550nm<0.21dB	
cable Thermal aging	Telcordia GR-3120, 4.2.1.1	Temperature: 85°C Time: 168 h (7 days)	cable Attenua- tion<0.01dB change
CONNECTOR AND CABLE ENVIRONMENTAL TESTS			
Testing items	Standard	Data request	Remark
IP68 water protection	Telcordia GR-3120, 4.2.4	Depth: 10ft Time: 3h	TICW can do it in 1m water deepth Only.
Thermal aging	Telcordia GR-3120, 4.2.1.1	Temperature: 85°C Time: 168 h (7 days) ConnectorIL≤0.1dB change	Connector's IL≤0.1dB change
Thermal Cycle Test	Telcordia GR-3120, 4.2.1.2	Thermal cycling: -40°C a +75°C Number of cycles: 21 Time: 168 h (7 days) ConnectorIL≤0.1dB change	Connector's IL≤0.1dB change
CONNECTOR MECHANICAL TESTING			
Testing items	Standard	Data request	Remark
Mini SC 头	GR-3120, 4.3.3	Angle 0° Load 147N Time 60s Objective 0.15 attenuation change	Connector's IL≤0.15dB change
Bullet SC 头	GR-3120, 4.3.3	Angle 0° Load 200N Time 60s Objective 0.15 attenuation change	Connector's IL≤0.15dB change
MECHANICAL TESTING OF CABLE Only			
Testing items	Standard	Data request	Remark
Tension Resistance	IEC-60794 1-21 E1	Load: 600N, 10min measurement uncertainty: 0.01 dB	Cable Attenuation change about 0.01dB
Crush	IEC-60794 1-21 E3:	Attenuation increment ≤0.1dB, @1550nm	Cable Attenuation change 1550nm≤0.1dB
Impact	IEC-60794 1-21 E4:	According to specifications 1J, R=12.5mm Attenuation increment ≤0.1dB, @1550nm	Cable Attenuation change 1550nm≤0.1dB
Repeated Bending	IEC-60794 1-21 E6:	Angle ± 90° Number of cycles: 100 Load: 150N Attenuation increment ≤0.1dB, @1550nm	Cable Attenuation change 1550nm≤0.1dB
Torsion	IEC-60794 1-21 E7:	Angle ± 180° Number of cycles: 10 Load: 150N Attenuation increment ≤0.1dB, @1550nm	Cable Attenuation change 1550nm≤0.1dB

Application-Bullet SC APC connector

- 1, Suit for
Pipe with Inner Diameter > 6.5mm
R > 95mm



2, How to thread though Pipe in wall?

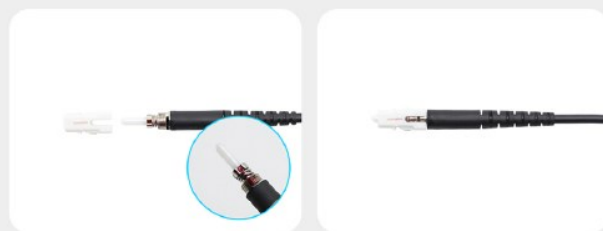


3, How to Assembly it in FTTH construction site?

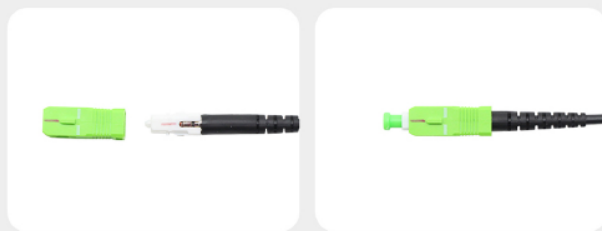
Step 01. Rotate the metal cap counterclockwise, remove the metal cap



Step 02. Assemble the part of the inner frame facing upward by matching the red mark on the Stopper



Step 03. Align the key on the outer housing with the red mark for assembly

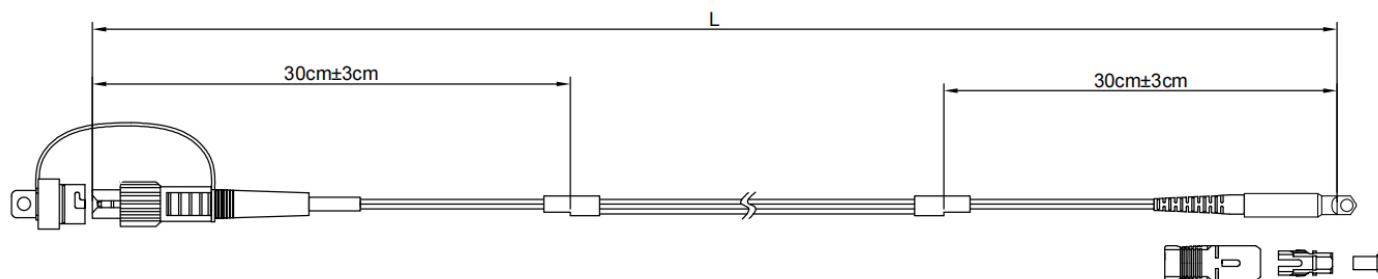


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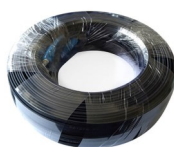
Length Tolerance



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

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,Fuming-free Pallet

Length	Qty per box	Package box Dimension	Inner Hole Diameter
30m	20pcs	365x365x265mm	
50m	20pcs	365x365x265mm	
80m	10pcs	450x230x265mm	
120m	5pcs	270x270x265mm	
150m	5pcs	270x270x265mm	
200m	5pcs	270x270x315mm	

Length	Qty per box	Package box Dimension	Inner Hole Diameter
30m	20pcs	380x380x280mm	
50m	20pcs	380x380x280mm	
80m	10pcs	520x260x290mm	
120m	5pcs	540x270x280mm	
150m	5pcs	540x270x280mm	
200m	5pcs	300x300x315mm	

OEM Services

- 1.Cable color, printing word, material of cable jacket, connector's color
- 2.OEM Label, Identify ring, cable's label, box, shipping marks
- 3.Different quality Level.