

PATCH CORD&PIGTAIL

PULLABLE BULLET SC/APC-SC/APC ARMORED PATCH CORD 3.0MM LSZH



Description

It's a kind of Pro-connectorized FTTH patch cord assembly with OMC's **Own Patent Bullet SC APC connector** and **G657A1&A2 Armored Simplex LSZH high tensile strength 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, Patch plate and ONU/ONT etc.

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	Standard SC-Bullet SC	Polish	APC-APC
Fiber Mode	9/125μm, G657A1&A2	Jacket Color	White
Cable OD	3.0mm	Wavelength	SM:1310/1550nm
Cable Structure	Simplex	Jacket Material	LSZH
Insertion loss	≤0.3dB(IEC Grade C1)	Crush Resistance(N/100mm)	Long term 100; short term:500
Return loss	SM APC ≥ 60dB(min)	Interchangeability &Vibration	≤0.2dB
Tensile Strength (N)	100-150N	Operation&Storage temperature	-20 ~ +70℃

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

Optical and Mechanical Performance of the drop cable

Items	Test Method	Acceptance Criteria
Crush resistance	IEC 60794-1-2 Method E3 -Applied Load: 200N/5mm -Duration of loading: 5 minutes	Attenuation increment: $\leq 0.10 \text{ dB@1550nm}$
Torsion test	IEC 60794-1-2 Method E7 -Test Length: 2 m -Carga: 50 N -Twist Angle: $\pm 180^\circ$ -Twist Cycles: 5	Attenuation increment: $\leq 0.10 \text{ dB@1550nm}$
Resistencia a la Tension	IEC 60794-1-2 Method E1 -Mandrel diameter: 30D(D=cable diameter) -Tensile Load: 800N for 30minutes	Attenuation increment: $\leq 0.10 \text{ dB@1550nm}$
Impact test	IEC 60794-1-2 Method E4 -Height of impact: 300mm -Drop hammer mass:0.3J -No. de impact: 3 point	Attenuation increment: $\leq 0.10 \text{ dB@1550nm}$
Resistance to Re-peated Bending	IEC 60794-1-2 Method E6 -Sheave Diameter: 20D (D=cable diameter) -Applied load: 40N -No. of flexing cycles: 25 cycles -Cycle duration: 2 seconds	Attenuation increment: $\leq 0.10 \text{ dB@1550nm}$
Temperature Cycling Test	IEC 60794-1-2 Method F1 -Temperature cycling schedule :25°C $\rightarrow$ -20°C $\rightarrow$ 60°C $\rightarrow$ -20°C $\rightarrow$ 60°C $\rightarrow$ 25°C-Soak time at each temperature: 12h	Attenuation increment: $\leq 0.10 \text{ dB/km@1550nm}$

Optical characteristics		
Insertion Loss (IL)	As per 4.2.1 in Telcordia GR-326- CORE. Type of light source: Laser ($\lambda = 1310 \text{ nm}$ & 1550 nm)	New product IL-max: $\leq 0.3 \text{ dB}$. Result at the end of the test IL-max: $\leq 0.3 \text{ dB}$.
Return Loss (RL)	As per 4.2.1 in Telcordia GR-326- CORE. Type of light source: Laser ($\lambda = 1310 \text{ nm}$ & 1550 nm)	New product RL: $\geq 55 \text{ dB}$. Result at the end of the test RL: $\geq 55 \text{ dB}$.
Mechanical characteristics		
Straight Pull Test	As per 4.4.3.4 in Telcordia GR-326- CORE. Apply 4,5 kgf (10 lbf) (0 °) 5 sec and then 6,8 kgf (15 lbf) (0 °) 5 sec.	During the test (no load) $\Delta \text{IL-max} : \leq 0.5 \text{ dB}$. $\Delta \text{IL} : \leq 0.3 \text{ dB}$. RL: $\geq 60 \text{ dB}$
90° Side Pull Test	As per 4.4.3.4 in Telcordia GR-326- CORE. Apply 1,5 kgf (3,3 lbf) (90 °) 5 sec and then 2,3 kgf (5 lbf) (90 °) 5 seg.	
End of Test Criteria	As per 4.4.3.9 in Telcordia GR-326- CORE.	IL-max : $\leq 0.5 \text{ dB}$. $\Delta \text{IL} : \leq 0.3 \text{ dB}$. RL: $\geq 60 \text{ dB}$

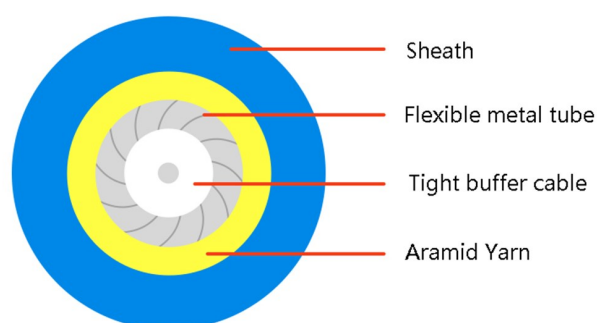
OMC's Own Patent Bullet SCAPC connector



- 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
SC Cap Material	SUS304
Boot	3.0mm
Drop cable	Round cable:3.0mm Flat cable:2x3mm;2x5.0mm

LSZH 3.0mm Simplex Armored Cable



The armored cable is a special cable with a stainless-steel tube inside the cable which could protect the fiber bite by ant, mouse related rodent animals.

The Simplex Armored cable consists of a 0.6mm or 0.9mm tight buffer fibers, An armored flexible metal tube, a layer of Aramid yarn, and an outer jacket. It is an ideal choice for direct connection. It's the easiest fiber cable to install where direct termination of connectors to sub-units and direct run to panels and equipment is desired.

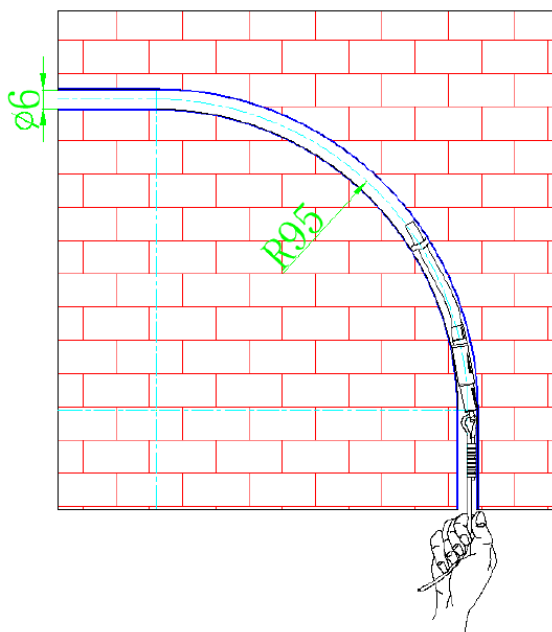
This cable could be used as normal electric wire.

Item	Contents	Unit	Value
Fiber type	/	/	G652D,G657A1,G657A2,G657B3,OM2,OM3,OM4
Cable diameter	±0.3	mm	3.0
Tight buffer	Material	/	PVC,LSZH
	Diameter	mm	0.6
Armored unit	Material	/	SUS204 Stainless-steel Spiral Tube
	Diameter	mm	1.4-1.5
Strength member	Material	/	Aramid Yarn
Outer sheath	material	/	LSZH
	Color	/	Blue,Yellow,Black, Orange,Grey,Aqua
Cable weight	±5%	kg/km	18

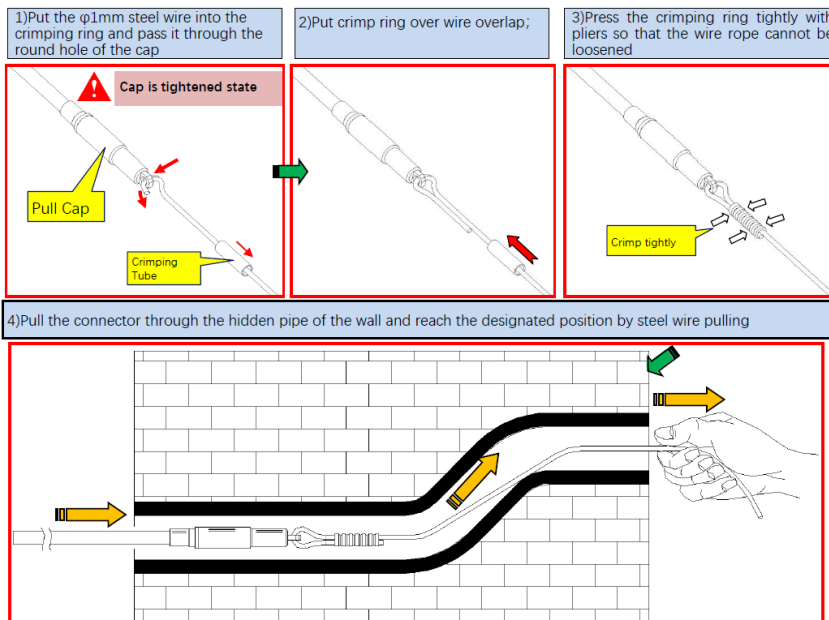
Item	Contents	Value
Max. tensile load	Short term	400N fiber strain ≤0.6%
	Long term	200N
Max. crush resistance	Short term	1000N/100mm
	Long term	500N/100mm
Torsion	Load:100N; number of cycles:10; twist angle:±180° No obvious addition attenuation, no fiber break and no cable damage.	
Impact	Impact energy:450g×1m; radius of hammer head:12.5mm; number of impact: 5; No obvious addition attenuation, no fiber break and no cable damage.	
Min. bending radius	Installation	20 x cable diameter
	Operation	10 x cable diameter

Application-Bullet SC APC connector

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



2, How to thread though Pipe in wall?

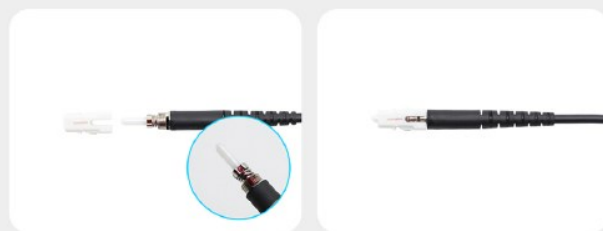


3, How to Assembly it in FTTH construction site?

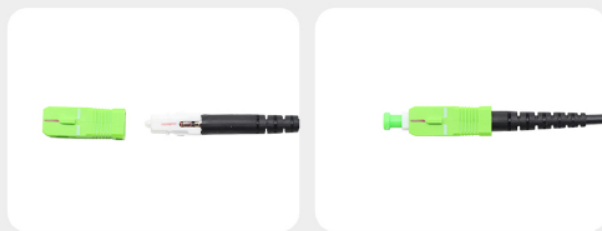
Step 01. Rotate the metal cap counterclockwise, remove the metal cap



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

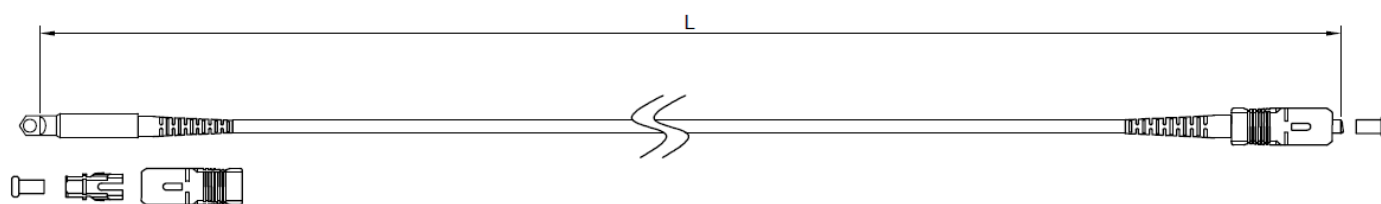


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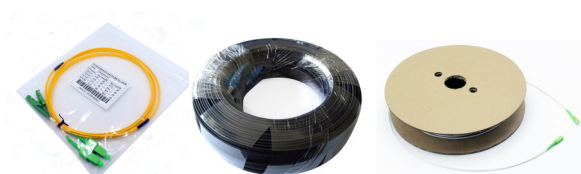
Length Tolerance



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 bag or PE Wrap or Paper Drum



2, Paper Carton



3,Fuming-free Pallet

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.