

PATCH CORD&PIGTAIL

PULLABLE BULLET SC/APC-SC/APC FTTH DROP PATCH CORD 3.0MM TPU



Description

It's a kind of Pro-connectorized FTTH patch cord assembly with OMC's **Own Patent Bullet SC APC connector** and **G657B3 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, Fact 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, G657A2/G657B3	Jacket Color	Black
Cable OD	3.0mm	Wavelength	SM:1310/1550nm
Cable Structure	Simplex	Jacket Material	TPU
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)	150N	Operation&Storage temperature	-20 ~ +70°C

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: 500N/5mm -Duration of loading: 5 minutes	Attenuation increment: ≤ 0.10 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: ≤ 0.10 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: ≤ 0.10 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: ≤ 0.10 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: ≤ 0.10 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: ≤ 0.10 dB/km@1550nm

Optical characteristics		
Insertion Loss (IL)	As per 4.2.1 in Telcordia GR-326- CORE. Type of light source: Laser ($\lambda = 1310$ nm & 1550 nm)	New product IL-max: ≤ 0.3 dB. Result at the end of the test IL-max: ≤ 0.3 dB.
Return Loss (RL)	As per 4.2.1 in Telcordia GR-326- CORE. Type of light source: Laser ($\lambda = 1310$ nm & 1550 nm)	New product RL: ≥ 55 dB. Result at the end of the test RL: ≥ 55 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) Δ IL-max : ≤ 0.5 dB. Δ IL: ≤ 0.3 dB. RL: ≥ 60 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 : ≤ 0.5 dB. Δ IL: ≤ 0.3 dB. RL: ≥ 60 dB

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OMC's Own Patent Bullet SCAPC connector

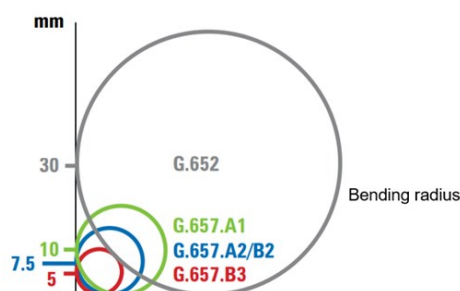
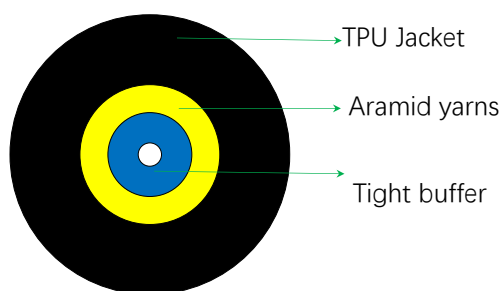


- 1,Bullet SC Connector cap
- 2,Ferrule Cap
- 3+4,Housing Body
- 5,Ferrule
- 6,Spring
- 7,Stop
- 8,Crimp Ring
- 9,Boot

Pulling Eye Force	150N-200N
SC Cap Material	SUS304
Boot	3.0mm
Drop cable	Round cable:3.0mm Flat cable:2x3mm;2x5.0mm

TPU 3.0mm Simplex Cable

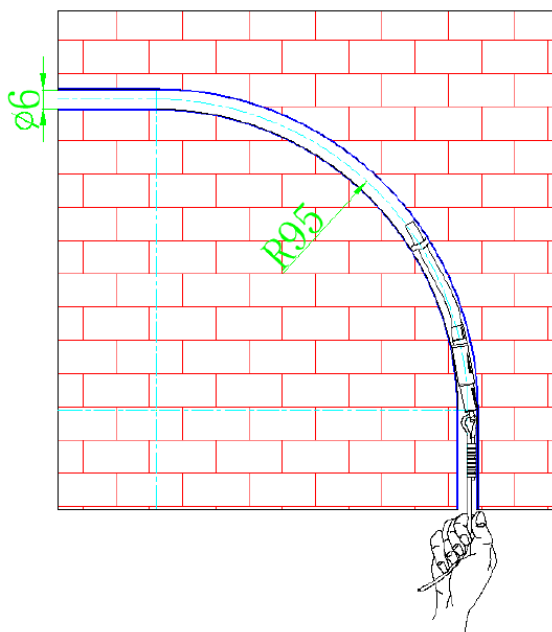
3.0mm Round FTTH Drop Cable with TPU Jacket use Simplex round structure, A 900um tight buffer placed inside the cable. Then the cable is completed with Aramid yarn and TPU sheath. It's easy to deploy and maintenance. It's the best choice for FTTX project.



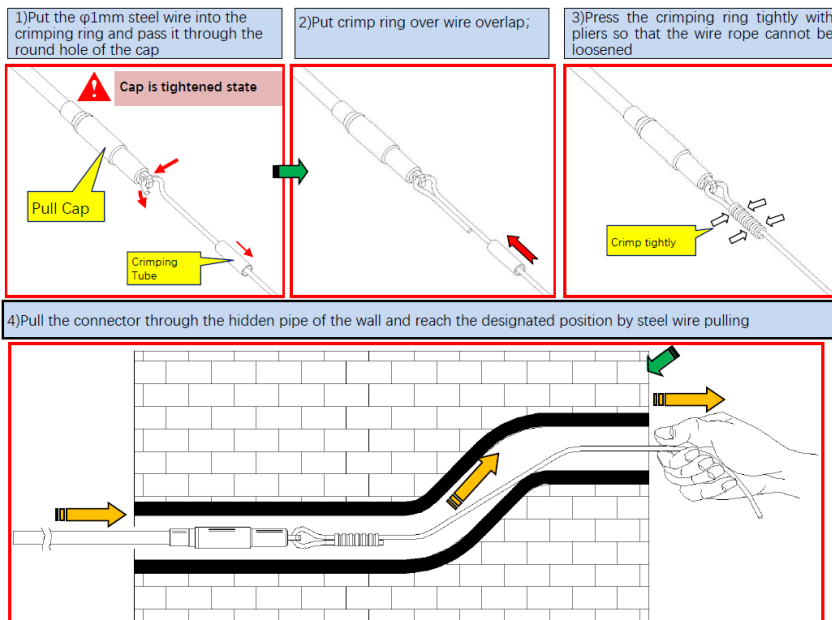
Items		Description
Number of fiber		1F
Fiber type		G657B3 Blue
Diameter of mode Field		1310nm: 8.8+/-0.4um, 1550:9.8+/-0.5um
Cladding diameter		125+/- 0.7um
Buffer	Material	LSZH Blue
	Diameter	0.9±0.05mm
Strength member	Material	Aramid yarn
Outer sheath	Material	TPU With UV protection
	Color	Black
	Diameter	3.0+/-0.1mm
Installation Temperature range (°C)		-10 ~ +60
Operation and Storage temperature (°C)		-45 ~ +85
Min Bending Radius(mm)	Long term	10D
Min Bending Radius(mm)	Short term	20D
Min allowable Tensile Strength(N)	Long term	260
Min allowable Tensile Strength(N)	Short term	800
Crush Load (N/100mm)	Long term	100
Crush Load (N/100mm)	short term	500
Installation condition	Span(m)	80

Application-Bullet SC APC connector

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



2, How to thread though Pipe in wall?

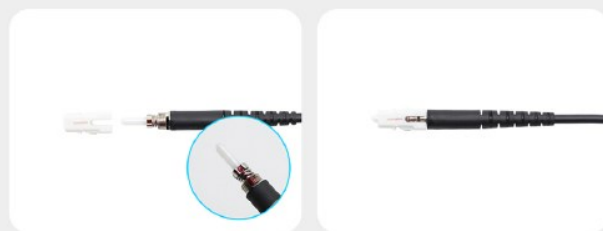


3, How to Assembly it in FTTH construction site?

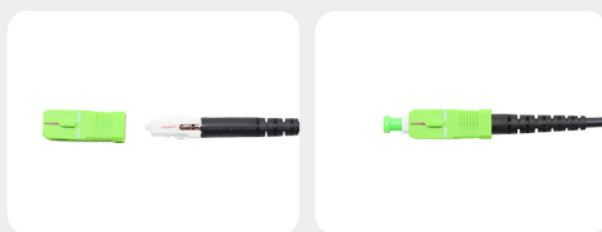
Step 01. Rotate the metal cap counterclockwise, remove the metal cap



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

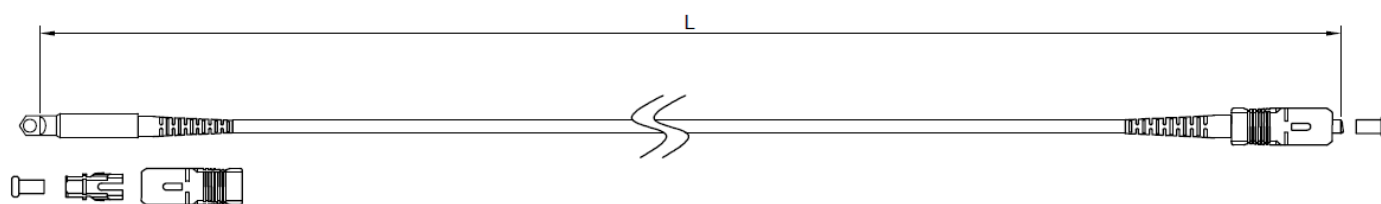


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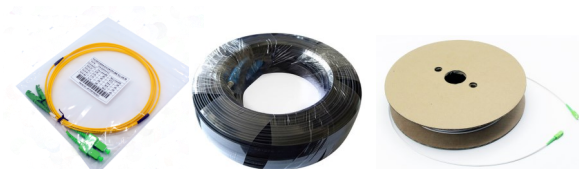
Length Tolerance



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.