Type:Fast Connect SC/APC-SC/APC

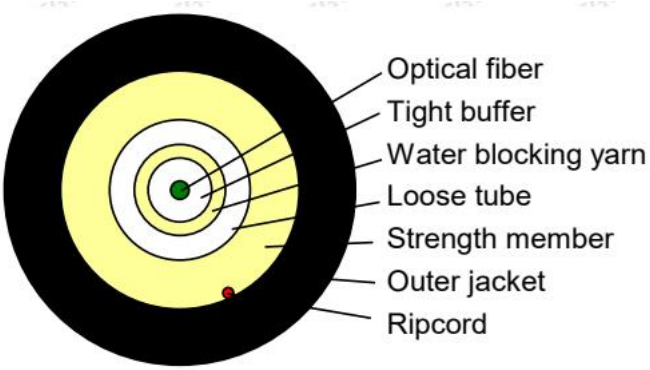
Description

The Fast connect SC/APC-SC/APC drop cable adopts anti-vibration design and provides watertight seal to the connector. it helps customers deploy the drop cable easy and fast by plug and play (no splicing) in the outside plant. In addition, it ensures high network reliability and durability.

Feature

- Fast deployment, plug and play
- Double locked anti-vibration design
- Easy to install and uninstall
- Low insertion loss: less than 0.3dB
- Waterproof meet IP68

Structure



Type:Fast Connect SC/APC-SC/APC

Specification

✓ Fiber parameter

No.	Items		Unit	Specification
				G.657A2
1	Mode Field Diameter	1310nm	μm	8.6±0.4
		1550nm	μm	9.6±0.5
2	Cladding Diameter		μm	125.0±0.7
3	Cladding Non-Circularity		%	≤0.7
4	Core-Cladding Concentrically Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentrically Error		μm	<12.0
8	Cable Cutoff Wavelength		nm	λ_{cc}≤1260
9	Attenuation(max.)	1310nm	dB/km	≤0.4
		1550nm	dB/km	≤0.3
10	Macro-Bending Loss	1turn×7.5mm radius @1550nm	dB	≤0.5
		1turn×7.5mm radius @1625nm	dB	≤1.0

✓ Cable parameter

Items		Specifications
Tight-buffered Fiber	Fiber counts	1
	Diameter(mm)	0.9±0.05
	Tight buffer color	Blue
Strength Member	Material	Aramid yarn and water blocking material
Inner cable	Diameter(mm)	2.0±0.1mm
Inner sheath	Thickness(mm)	≥0.4mm
	Material	LSZH
Outer sheath	Thickness(mm)	≥0.8mm
	Material	LSZH
	Color	Black
Ripcord (1pcs)	Color	Red
Cable diameter(mm)		5.0±0.2mm

Type:Fast Connect SC/APC-SC/APC

✓ **Connector optical parameter**

Items	Performance
Connector type	Hardened SC/APC
Cable length	Typical: 100m/150m/200m
Insertion loss (IEC 61300-3-4)	Max≤0.3dB
Insertion loss (IEC 61300-3-6)	≥60dB

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=IL (connector) +IL (1km cable IL)/1000*L (cable length)

Cable Test Standard

Items	Test Method	Requirements
Fiber type	G.657A2	
Tensile strength	IEC 60794-1-E1， 300 N for long term，600N for short term	Elongation of the fiber ≤0.33%, △ α≤ 0.1 dB
Crush resistance	IEC 60794-1-E3， 2200N/10cm for short term， 1000N/10cm for long term	△α≤ 0.1 dB
Re-bending	IEC 60794-1-2-E6 Bending radius: 20 times cable diameter Cycles: 100 (90 °); Load: 55N	△α≤ 0.1 dB No damage to the cable elements.
Bend at low temperature	IEC 60794-1-2-E11A Using a mandrel radius 30mm, 4 laps at -15℃; Cycles:3	△α≤ 0.1. No damage to the cable sheath
Impact	IEC 60794-1-2-E4 Impact energy: 5N.m; Each 5 times at 5 point, total 25 times	△α≤ 0.1 dB No damage to the cable elements.
Torsion	IEC 60794-1-2-E7 Cycles:10; Turns: 180°; Load: 25N	△α≤ 0.1 dB No damage to the cable elements.
Temperature cycling	IEC 60794-1-2-F1 Temperature: -15℃～+65℃ ; Cycles:2; Dwell time at the extreme temperature: 24 h	△α≤ 0.1 dB /km
Water penetration	IEC 60794-1-F5B Sample length: 3m; Water column: 1m; Duration: 24 hours	No water leakage.
Resistance to UV of Outer sheath	UL1581 section 1200, UL13 sunlight-resistance test	Pass UL 13 Sun Res