

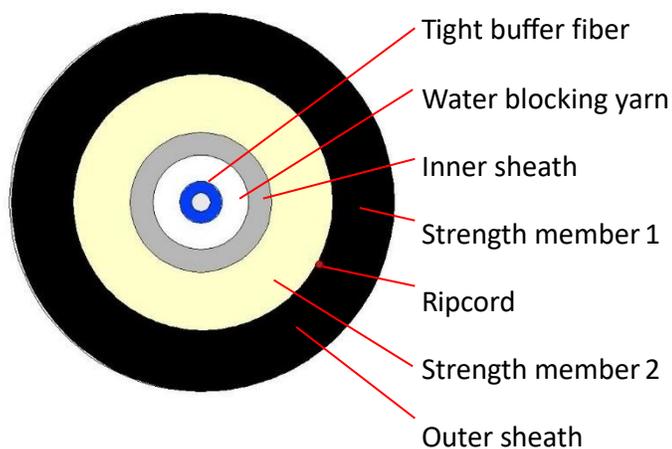
Optical Fiber Cable Technical Specification

SMO-CAB-DROP-1C-5MM

Round Type Drop Cable

Item	Contents	Specifications
Tight buffer fiber	Number	1
	Type	G.657A2
	Color	Red
	Material	LSZH
	Diameter (mm)	0.90±0.05
Inner sheath	Diameter (mm)	2.2±0.1
	Thickness(mm)	0.25±0.05
	Color	White
	Material	Lszh
Strength member 1	Material	Glued FRP
	Quantity	0.58*2
Strength member 2	Material	Aramid yarn + Water blocking glass yarn

1. Cross Section of Cable



2. Dimensions and Descriptions

Rip cord	Number	1
	Color	Red
Sheath	Material	HDPE
	Diameter (mm)	5.0±0.2
	Thickness(mm)	1.1±0.1
	Color	Black
Cable weight	Kg/km	22±3

3. Performance of Cabled Optical Fiber G.657A2

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient	
@ 1310 nm	≤ 0.36 dB/km
@ 1383nm	≤ 0.36 dB/km
@ 1490nm	≤ 0.25 dB/km
@ 1550 nm	≤ 0.22 dB/km
@ 1625nm	≤ 0.25 dB/km
After cable formation	
@ 1310 nm	≤ 0.36 dB/km
@ 1550 nm	≤ 0.22 dB/km
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm ² .km)
PMD @ 1550 nm	≤ 0.1 ps/km ^{1/2}
Chromatic dispersion	
@ 1285 ~ 1330 nm	≤ 3 ps/(nm. km)
@ 1271 ~ 1360 nm	≤ 5.3 ps/(nm. km)
@ 1550 nm	≤ 18.0 ps/(nm. km)
@ 1625 nm	≤ 22 ps/(nm. km)
Mode field diameter @ 1310 nm	8.5-9.3um
Core / Clad concentricity error	≤ 0.5 um
Cladding diameter	125.0 ± 0.7 um
Cladding non-circularity	≤ 5%
Primary coating diameter	242 ± 7 um
Concentricity Primary Coating / Coating	≤ 10 μm
Coating non-circularity	≤ 0.7%
Attenuation with Cable bending Loss	
1 turn 1 Mandrel 7.5mm	1550nm ≤ Δ 0.10 dB/km
10 turns 1 Mandrel 15mm	1550nm ≤ Δ 0.03 dB/km

Performance of Optical Fiber Cable

Parameter	Specification
Cable bending radius	(after installation): 50 mm
	(during installation): 100mm
Operating temperature range	-25°C to +70°C
Storage / Transport temperature range	-25°C to +70°C
Installation temperature range	-25°C to +70°C