

FTTH/M 4 SM with FRP, 1.00mm steel wire, G657A, LSZH black



Product structure

1) Characteristics of fiber :

Attribute		Value		
Fiber type		G.657A		
Mode field diameter at 1310nm		8.6~9.5 ± 0.4 μm		
Cladding diameter		125.0 ± 0.7 μm		
Core concentricity error		≤ 0.5 μm		
Cladding non-circularity		≤ 1.0 %		
Coating diameter		245 ± 10 μm		
Attenuation	@ 1310 nm	≤ 0.40 dB/km		
	@ 1383 nm	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.30 dB/km		
Dispersion	@ 1285~1330 nm	≤ 3.4 ps/(nm·km)		
	@ 1550 nm	≤ 17.5 ps/(nm·km)		
Zero dispersion wavelength		1300nm~1324nm		
Zero dispersion slope		≤ 0.092 ps/(nm ² ·km)		
Cable cut-off wavelength		≤ 1260 nm		
Proof stress		≥ 0.69 Gpa		
Polarization mode dispersion		≤ 0.2 ps/√km		
Uncabled fibre macrobending loss	Radius (mm)	15		
	Number of turns	10		
	Max.at 1550nm(dB)	0.25		
	Max.at 1625nm(dB)	1.0		
Fiber color code :				
Number	1	2	3	4
Color	Blue	Orange	Green	Brown

2) Metallic strength member :

Total number of root 2piece
Material FRP
Diameter 0.5mm

3) Strengthening Messenger Wire :

Total number of root 1piece
Material Steel Wire
Diameter Φ1.0mm
Tensile strength 1770MPa

4) Outer sheath :

Material LSZH - Low smoke zero halogen
Color Black
Diameter 2.0 H × 5.1 W ± 0.1 mm
Marking Per Customer Request

Reference standard

- ITU/T G.657A
- IEC 60332-1
- IEC 61034-2
- ISO/IEC 11801 Generic cabling for customer premises
- IEC 60754-1 and 2
- YD/T 1997.1--2014

Tensile properties

No.	Item	Units	Index
1	Pulling Load (short time)	N	≤ 600
2	Pulling Load (long time)	N	≤ 300
3	Crush load (short time)	N/100mm	≤ 2200
4	Crush load (long time)	N/100mm	≤ 1000
5	Bend radius (static)	mm	≥ 20
6	Bend radius (Dynamic)	mm	≥ 40

Environmental conditions

No.	Item	Units	Index
1	Storage temperature range	°C	-10 to +60
2	Install the temperature range	°C	-0 to +60
3	Operating temperature range	°C	-10 to +60

Package

No.	Item	Index
1	Length and packaging	1000m/Plywood Reel
2	Plywood reel size	300×110×230mm
3	Carton size	310×310×250mm
4	Net weight	18.00kg/km
5	Gross weight	19.5 kg/Box