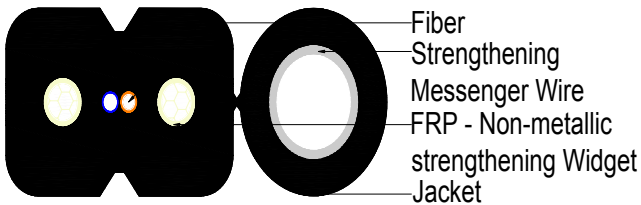


EU-RoHS (2002/95/EC) Compliant

Fiber Cross Section



Optical Characteristics (Overall)

CE and ROHS, EN60794-1-1:2011, EN60794-1-2:2003

Test Item	Units	Spec
1. Single-mode fiber cutoff wavelength	λ_c/nm	≤ 1250
2. Single-mode fiber cutoff wavelength	λ_{cc}/nm	≤ 1260
3. Maximum Attenuation @ 1310 nm	dB/km	≤ 0.40
4. Maximum Attenuation @ 1550 nm	dB/km	≤ 0.30
5. Zero dispersion Wavelength	nm	1300~1324
6. Zero dispersion slope	ps/nm ² ×km	≤ 0.092
7. Light source continuity	—	Continuous

Product Structure

1) Single-mode fiber size parameters:

Fiber Type	ITU-T G.652D
Fiber Specification	62.5/125/245 μm
Core Diameter	62.5 +/- 2.5 μm
Core Non-Circularity	$\leq 5\%$
Mode Field Diameter	8.6 +/- 0.6 μm
Clad Diameter	125.0 +/- 1 μm
Clad Non-Circularity	$\leq 1.0\%$
Core/Clad Concentricity Error	$\leq 0.6 \mu m$
Coating Diameter	245 +/-10 μm
Clad/coating Concentricity Error	$\leq 12.5 \mu m$
Color Code	1C. Blue 2C. Orange

2) Non-metallic strengthening:

Total number of root	2 pcs
Material	FRP
Diameter	0.50 +/- 0.02 mm

3) Strengthening Messenger Wire:

Total number of root	1 Root
Material	steel wire
Diameter	1.20 +/- 0.05 mm
Thickness	0.45 +/- 0.05 mm

4) Outer Jacket:

Material	PVC UV resistance
Color	Black & White
Diameter(H×L)	2.0×5.1 +/- 0.20 mm
Marking	Per Customer Request

Fiber Mechanics Characteristics

Test Item	Units	Spec
1. To allow the construction of short-term tensile force	N	≤ 600
2. runs allowed when used long-term tensile strength of	N	≤ 300
3. To allow the construction of short-term flattening force	N/100mm	≤ 2200
4. Long-term pressure allowed when run using Chen Shui-bian	N/100mm	≤ 1000
5. Static (working) minimum bend radius	mm	≥ 15
6. Dynamic (installation) minimum bend radius	mm	≥ 30
7. Storage Temperature Range	°C	-20 ~ +70
8. Install the temperature range	°C	-5 ~ +40
9. Operating temperature range	°C	-50 ~ +80

Jacket Mechanical Characteristics

Test Item	Units	Spec
Test Material		pvc or LSZH
1. Tensile Strength		
Thermal aging treatment before	MPa	≥ 10.0
After thermal aging treatment	%	20
Thermal aging treatment temperature	°C	100±2
Thermal aging treatment time	h	24×10
2. Elongation at break		
Thermal aging treatment before	%	≥ 125
After thermal aging treatment	%	≥ 100
Change rate after heat aging	%	20
Thermal aging treatment temperature	°C	100±2
Thermal aging treatment time	h	24×10

Other Characteristics

1. Cable Net Weight	1C	20.0	kg/km
	2C	20.0	kg/km
2. Product Length			1000 m /Plywood Drum As per buyer's request

Revision History

Rev	Description	Date