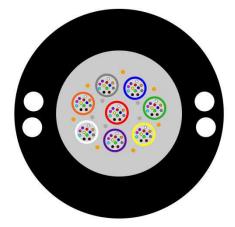
øptivine

Fiber Optic Cables

Rev. 1-2020

Micro-Module Multi-Purpose Fiber Optic Cable

Type: MMMP 96/M12 G657A2 60m 4SFRP SJ HDPE CO



Application & Standards

~ For aerial or duct installation;

~ Fully dielectric cable;

~ Easy strippable micro-modules without any tools needed;

~ IEC 60794-1-2 - Basic optical cable test procedures;

~ XP C 93-850-3-25 - Color code of fiber optic cables;

~ ITU-T G.657A2 - Characteristics of a bending-loss insensitive single-mode optical fibre and cable

Cable Construction

- ~ Optical Fibres
- ~ Jelly
- ~ Easy strippable micromodule
- ~ Aramid Yarns
- ~ Waterproof Yarns
- ~ Strength Member (2x2 side FRP)
- ~ Outer Sheath (Black HDPE)

Technical Characteristics

Optical Fiber Performance							
Characteristic	Specified Value						
Attenuation Coefficient:							
at 1310nm :	≤ 0.36 dB/km						
at 1550nm :	≤ 0.22 dB/km						
Mode Field Diameter:	0.6 - 0.4						
at 1310nm	8.6±0.4µm						
Chromatic Dispersion:							
at 1330nm	≤ 3.5 ps/(nm.km)						

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	1				
at 1550nm	≤18 ps/(nm.km)				
at 1625nm	≤ 22 ps/(nm.km)				
Zero Dispersion Wavelength	1300 ~ 1324 nm				
Zero Dispersion Slope	≤ 0.092 ps/(nm ² .km)				
Cable Cut off Wavelength (λcc)	≤ 1260 nm				
	10 cycles ø 15mm at 1550	≤ 0.03 dB			
	10 cycles ø 15mm at 1625	≤ 0.10 dB			
Marine Dan dia a Lara	1 cycle ø 10mm at 1550	≤ 0.10 dB			
Macro Bending Loss	1 cycle ø 10mm at 1625	≤ 0.20 dB			
	1 cycle ø 7.5mm at 1550	≤ 0.50 dB			
	1 cycle ø 7.5mm at 1625	≤ 1.0 dB			
Cladding Diameter	125 ±1 μm				
Cladding Non-Circularity	≤1.0%				
Core-Cladding Concentricity error	≤ 0.6 μm				
Proof Test	≥ 0.69 GPa (100kpsi)				
Dynamic Fatigue	≥ 20				

Fiber Optic Cab	le Parameters				
Fiber Type **	G.657A2				
Fiber Count	96				
Module Count	8				
Average Outer Sheath Thickness (mm)		2.0			
Approximate Cable Diameter (mm)		10.5			
Approximate Cable Weight (kg/km)		86			
Tensile Strength (Short Term) - Fiber Strain ≤0.33%	2500 N	For 60 m span*** / Duct			
Tensile Strength (Long Term) - Fiber Strain ≤0.1%	800 N	For 60 m span*** / Duct			
Crush (Short Term)	2000 N/10 cm				
Impact	5J, R=300mm, 3 impacts				
Torsion	40N, 20 cycles, ±90°				
Water Penetration	3m sample, 1m height, 24h				
Minimum Bending Radius (Installing)	25 x D				
Minimum Bending Radius (Operating)	15 x D				
Temperature (Operation)	-30°C ~ +70 °C				
Temperature (Transportation and Storage)	-40°C ~ +70 °C				
Packing	Wooden drum with protection				
Delivery Lengths	To be confirmed, ± %5 tolerance				

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	<optivine> + <micromodule> + <fiber and<="" count="" th=""></fiber></micromodule></optivine>
Marking	type> + <duct aerial="" and=""> + <manufacturing< th=""></manufacturing<></duct>
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Fiber Color Identification												
No. 1 2 3 4 5 6 7 8 9 10 11 12								12				
Color	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Aqua	Pink

Module Color Identification****												
No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Aqua	Pink

* Drawing it's for indicative purpose only.

** Other fiber types can be used upon request.

*** A span of 60 m can be reached under NESC medium conditions (wind speed 17.7m/s, ice thickness

6.5mm).

**** If more than 12 tubes are used, the color code will be repeated again containing black rings

***** Customized solutions can be offered upon request.

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