

Fiber Optic Cables

Rev. 1-2020

Micro-Module Multi-Purpose Fiber Optic Cable

Type: MMMP 72/M6 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;
- \sim 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:	8.6±0.4μm						
at 1310nm							
Chromatic Dispersion:							
at 1330nm	≤ 3.5 ps/(nm.km)						

Page 1 of 3

The above design is only a sample of the options available. Contact our sales team for other specifications. Our policy of continuous improvement may result in a change of specifications without notice.



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

Fiber Optic Ca	ble Parameters					
Fiber Type **	G.657A2					
Fiber Count	72					
Module Count	12					
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					

Page 2 of 3

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	date> + <length marking=""></length>

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.