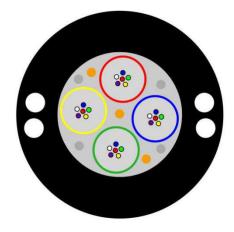
øptivine

Fiber Optic Cables

Rev. 1-2020

Micro-Module Multi-Purpose Fiber Optic Cable

Type: MMMP 24/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;

~ 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 L 0 Aum						
at 1310nm	8.6±0.4μm						
Chromatic Dispersion:							
at 1330nm	≤ 3.5 ps/(nm.km)						

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≤18 ps/(nm.km)				
≤ 22 ps/(nm.km)				
1300 ~ 1324 nm				
\leq 0.092 ps/(nm ² .km)				
≤ 1260 nm				
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			
125 ±	1 µm			
≤1.0%				
≤ 0.6 μm				
≥ 0.69 GPa (100kpsi)				
≥ 20				
	$\leq 22 \text{ ps/}$ $1300 \sim 1$ $\leq 0.092 \text{ ps}$ ≤ 126 10 cycles ø 15mm at 1550 10 cycles ø 15mm at 1625 1 cycle ø 10mm at 1625 1 cycle ø 7.5mm at 1625 1 cycle ø 7.5mm at 1625 1 cycle ø 7.5mm at 1625 1 cycle ø 7.5mm at 1625 1 cycle ø 7.5mm at 1625 1 cycle ø 7.5mm at 1625 1 cycle ø 7.5mm at 1625 $125 \pm 125 $			

Fiber Optic Cable	e Parameters				
Fiber Type **	G.657A2				
Fiber Count	24				
Module Count 4					
Average Outer Sheath Thickness (mm)		1.7			
Approximate Cable Diameter (mm)		8.0			
Approximate Cable Weight (kg/km)		50			
Tensile Strength (Short Term) - Fiber Strain ≤0.33%	1600 N	For 60 m span*** / Duct			
Tensile Strength (Long Term) - Fiber Strain ≤0.1%	500 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	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>
	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.

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