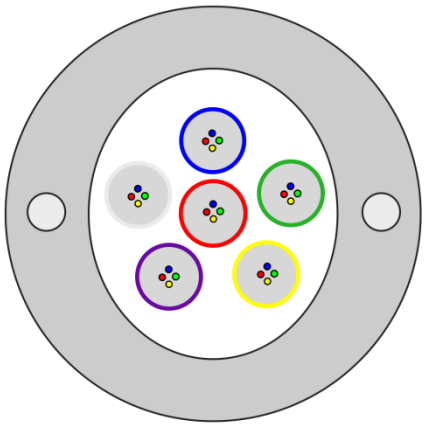
Micro-Module Indoor-Purpose Fiber Optic Cable

Type: MMIP 24/M4 G.657A1 2SFRP SJ LSZH 0.35kN D7



Application & Standards

~ For indoor applications;

~ Fully dielectric cable;

~ Easy strippable micro-modules without any tools needed;

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

~ ITU-T G.657A1 -Characteristics of a bending-loss insensitive single-mode optical fibre and cable

Cable Construction

~ **Optical Fibres**

~ **Easy strippable micromodule** with dry core;

~ **Strength Member** (2 side FRP)

~ **Outer Sheath** (White LSZH)

CPR Class: Dca s1b d2 a2

Technical Characteristics

Optical Fiber Performance - G.657A1	
Characteristic	**Specified Value**
Attenuation Coefficient: at 1310nm : at 1550nm : at 1625nm :	 ≤ 0.35 dB/km ≤ 0.21 dB/km ≤ 0.23 dB/km
Mode Field Diameter: at 1310nm	 8.8±0.4μm
Chromatic Dispersion: at 1330nm	 ≤ 3.5 ps/(nm.km)

at 1550nm at 1625nm	≤17 ps/(nm.km) ≤ 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	
Macro Bending Loss	10 cycles ø 15mm at 1550	≤ 0.25 dB
	10 cycles ø 15mm at 1625	≤ 1.0 dB
	1 cycle ø 10mm at 1550	≤ 0.75 dB
	1 cycle ø 10mm at 1625	≤ 1.50 dB
Cladding Diameter	125 ±0.7 µm	
Cladding Non-Circularity	≤0.7%	
Core-Cladding Concentricity error	≤ 0.6 µm	
Proof Test	≥ 0.69 GPa (100kpsi)	
Dynamic Fatigue	≥ 20	

Fiber Optic Cable Parameters	
Fiber Type **	G.657A1
Fiber Count	24
Module Count	6
Approximate Cable Diameter (mm)	7.0
Approximate Cable Weight (kg/km)	47
Tensile Strength (Short Term) - Fiber Strain ≤0.33%	350 N
Crush (1 min.)	1000N/10cm
Impact	5J, R=300mm, 3 points
Torsion	100N, 3 cycles, ±180º
Minimum Bending Radius (Installing)	20 x D
Minimum Bending Radius (Operating)	10 x D
Temperature (Operation)	-30°C ~ +60 °C
Temperature (Transportation and Storage)	-30°C ~ +70 °C
Packing	Wooden drum with protection
Delivery Lengths	To be confirmed, ± %5 tolerance
Marking	<OPTIVINE> + <MMIP 24/M4 G.657A1 2SFRP SJ LSZH 0.35kN D7> + <manufacturing date> + <length marking>

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

Module Color Identification**												
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* When tubes go beyond 12 fibers, the color code repeats and black rings are used to distinguish the fibers.

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*** Customized solutions can be offered upon request.

**** Drawing it's for indicative purpose only.