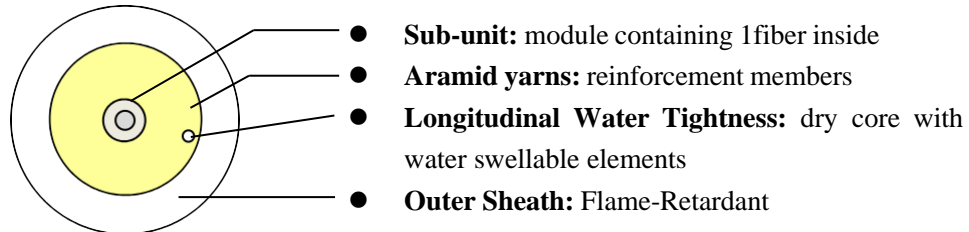


Riser Wire 1F for Indoor & Outdoor



Cable cross-section

Optical Fiber Cable-Dielectric-Single Sheath-G.657B3 Fiber



Cable Specification

Type of cable	Riser Compact	Riser Ruggedized	Riser Ruggedized
Application scenarios	Indoor		Outdoor
Number of fiber	1		
Tight buffer Diameter (μm)	900±50		
Nominal Cable Diameter (mm)	3.0	4.8	4.8
Cable Weight (kg/km)	10.0±1.0	28.1±2.0	28.1±2.0
Tension MAX (N)	220	450	450
Crush resistance (N/cm)	35	100	100
Color of jacket	Ivory, White, Yellow, Black		Black

Cable Application

Temperature Range	Indoor rated	Outdoor rated
Operation	-20°C ~ +70°C	-40°C ~ +70°C
Installation	0°C ~ +60°C	-30°C ~ +60°C
Storage/Shipping	-40°C ~ +70°C	-40°C ~ +70°C

Color Identification of Fiber

Number	1
Color	Natural

Fire resistance-Flammability rating

CSA FT4

Cabled Fiber Performance (G.657B3)

Characteristics		Acceptance Value
Attenuation	@1310nm	$\leq 0.40\text{dB/km}$
	@1383nm	$\leq 0.40\text{dB/km}$
	@1550nm	$\leq 0.30\text{dB/km}$
	@1625nm	$\leq 0.30\text{dB/km}$
Mode Field Diameter	@1310nm	$(8.6 \sim 9.2) \pm 0.5\mu\text{m}$
Dispersion	@1300 +30/-15nm	$\leq 3.5\text{ps}/(\text{nm}\cdot\text{km})$
	@1550nm	$\leq 18.0\text{ps}/(\text{nm}\cdot\text{km})$
Zero-Dispersion wavelength		1300nm ~ 1324nm
Polarisation Mode Dispersion (PMD) at 1550 nm		$\leq 0.2 \text{ ps}/\text{km}^{1/2}$
Fiber effective index of refraction at 1310nm		1.4683
Fiber effective index of refraction at 1550nm		1.4688
Fiber effective index of refraction at 1625nm		1.4688
Zero-Dispersion slope		$\leq 0.092\text{ps}/(\text{nm}^2\cdot\text{km})$
Fiber backscattering coefficient for 1310		79.2
Fiber backscattering coefficient for 1550		81.7
Fiber backscattering coefficient for 1625		82.5
Cable cutoff wavelength $\lambda_{cc}(\text{nm})$		$\leq 1260\text{nm}$
Macrobend loss	10mm radius, 1turn, @1550	$\leq 0.03\text{dB}$
	10mm radius, 1turn, @1625	$\leq 0.1\text{dB}$
	7.5mm radius, 1turn, @1550	$\leq 0.08\text{dB}$
	7.5mm radius, 1turn, @1625	$\leq 0.25\text{dB}$
	5mm radius, 1turn, @1550	$\leq 0.15\text{dB}$
	5mm radius, 1turn, @1625	$\leq 0.45\text{dB}$
Cladding diameter		$125 \pm 0.7\mu\text{m}$
Cladding non-circularity		$\leq 1.0\%$
Core/cladding concentricity error		$\leq 0.5\mu\text{m}$
Fiber diameter with coating (uncoated)		$245 \pm 10\mu\text{m}$
Cladding/coating concentricity error		$\leq 12.0\mu\text{m}$
Proof stress		$\geq 0.69\text{GPa}(100\text{kpsi})$
Dynamic stress corrosion susceptibility parameter (typical value)		≥ 20
Dry Heat Induced Attenuation	85°C±2°C, 30 days	$\leq 0.05\text{dB/km}$

Sheath Marking

The outer sheath is marked in 2 feet intervals as follows:

According to Customer's Requirements

Delivery Lengths

Standard delivery length will be 2000 feet.

Provided by: **Mega Hertz** | 800-883-8839 | info@go2mhz.com | www.go2mhz.com

<https://www.go2mhz.com/product/riser-wire-1f-for-indoor-outdoor/>