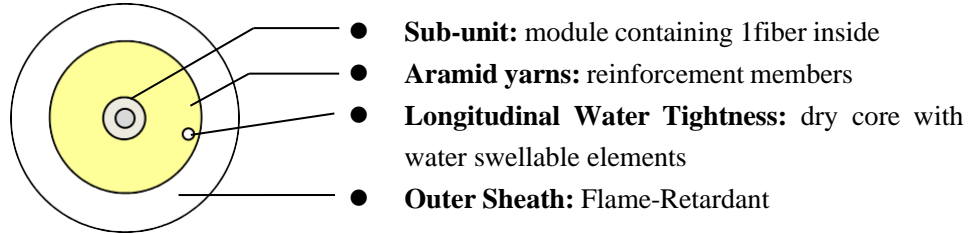


Riser Wire 1F for Indoor & Outdoor

Cable cross-section

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



Cable Specification

| Type of cable | Plenum Compact | Plenum Ruggedized | Plenum 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±3.0 | 28.1±5.0 | 28.1±5.0 |
| 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 FT6

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 | $85^\circ\text{C} \pm 2^\circ\text{C}$, 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-2/>