# OUTDOOR NON-METALLIC FIBER OPTIC CABLE 2 ~ 144 CORES

## Description

RFI Non-metallic Fiber Optic Cable is an outdoor cable. It comprises up to 144 cores of 250um fibers inside several loose tubes made of high modulus plastic. The tubes are filled with water resistant compound to prevent any water ingress. Loose tubes are SZ stranded to isolates fibers from installation and environment rigors. A piece of Fiber Reinforced Plastic (FRP) locates in the center of the core as a non-metallic strength member. The outer jacket is Polyethylene (PE), suitable for outdoor applications. RFI uses G652D (OS2) for all its single mode fibers.

## Application

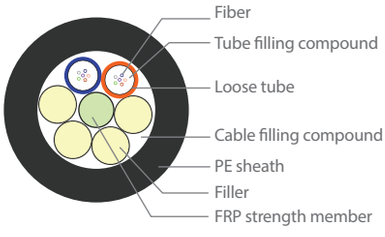
Outdoor direct buried or duct for backbone connectivity.

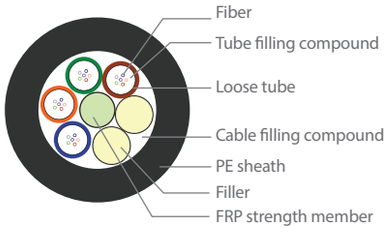
## Standard

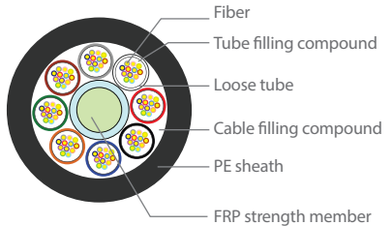
- ISO/IEC 11801
- TIA/EIA 568B
- G652A/B/C/D
- ITU Recommendation G651
- IEC 60794-2-20/21

## Characteristics

- Ultraviolet protection
- Loose tubes are SZ stranded.
- Loose tubes and cable core are filled with water-resistant compound.
- Single mode fiber meets ITU-G652D recommendation




## Physical Properties

| | | | |
|---|---|---|---|
| Fiber Count | | 2 ~ 36 | 36 ~ 60 |
| Tensile Strength, N | Long Term | 400 | 600 |
| | Short Term | 1000 | 1000 |
| Crush Resistance, N/100 mm | Long Term | 300 | 300 |
| | Short Term | 1000 | 10000 |
| Operating Temperature | -20°C to +70°C | | |

RFI INDUSTRIES
Next Generation Solutions

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## Optical Properties

| | | OM1 (62.5um) | OM2 (50um) | OM3 (50um) | OM4 (50um) | OS2 (9um) |
|---|---|---|---|---|---|---|
| Attenuation (Typical) | @ 850 nm | ≤ 3.0 dB/km | ≤ 3.0 dB/km | ≤ 2.3 dB/km | ≤ 2.3 dB/km | - |
| | @ 1300 nm | ≤ 1.0 dB/km | ≤ 1.0 dB/km | ≤ 0.6 dB/km | ≤ 0.6 dB/km | - |
| | @ 1310 nm | - | - | - | - | ≤ 0.34 dB/km |
| | @ 1383 nm | - | - | - | - | ≤ 0.34 dB/km |
| | @ 1550 nm | - | - | - | - | ≤ 0.20 dB/km |
| | @ 1625 nm | - | - | - | - | ≤ 0.24 dB/km |
| Bandwidth (Overfilled Modal BW) | @ 850 nm | ≥ 200 MHz-km | ≥ 500 MHz-km | ≥ 1500 MHz-km | ≥ 3500 MHz-km | - |
| | @ 1300 nm | ≥ 600 MHz-km | ≥ 1000 MHz-km | ≥ 500 MHz-km | ≥ 500 MHz-km | - |
| Bandwidth (Effective Modal BW) | @ 850 nm | - | - | ≥ 2000 MHz-km | ≥ 4700 MHz-km | - |
| | @ 1300 nm | - | - | ≥ 500 MHz-km | ≥ 500 MHz-km | - |

## Ordering information

| Part No. | Description |
|---|---|
| RCF-0N11yyy-2Fx | Multi-mode 62.5/125um OM1 Outdoor Non-metallic Jelly Filled, FRP, Fiber Optic Cable, PE |
| RCF-0N12yyy-2Fx | Multi-mode 50/125um OM2 Outdoor Non-metallic Jelly Filled, FRP, Fiber Optic Cable, PE |
| RCF-0N13yyy-2Fx | Multi-mode 50/125um OM3 Outdoor Non-metallic Jelly Filled, FRP, Fiber Optic Cable, PE |
| RCF-0N14yyy-2Fx | Multi-mode 50/125um OM4 Outdoor Non-metallic Jelly Filled, FRP, Fiber Optic Cable, PE |
| RCF-0N15yyy-2Fx | Single-mode 9/125um OS2 Outdoor Non-metallic Jelly Filled, FRP, Fiber Optic Cable, PE |

* yyy = Number of cores

* x = E, F, H, M, Q, R

Example:
RCF-0N12006-2FH 6 Cores Multi-mode 50/125um OM2 Outdoor Non-metallic Jelly Filled, FRP, Fiber Optic Cable, PE