

Miniflex[®] Riser Cable



Features & Benefits

- UL 1651 Riser (OFNR) and FT4 Rated
- UV Stable, Lightweight and High Crush Resistance
- Available in O.D. of 2.2 mm (1-4 fibers); 3.0 mm (1-12 fibers) and 4.3 mm (24 fibers)
- Miniflex[®] Technology for 5x Diameter operating Bend Radius
- Best-in-class push/pull and blow-ability
- ITU-T G.657 A1 & G657A2 optical fiber
- Loose tube cable design
- Dry construction (no gel)
- Can be terminated with QuikPush[®] cable assemblies (Balistix[™] SC and LC connectors, and other industry standard connectors)
- Ultra-flexible, small bend radius for compact slack fiber storage
- Pushable / Pullable / Blowable fiber for routing into building ducts and conduits
- Small and unobtrusive enough for surface mount applications
- Tough enough for clipping, tacking and gluing



Overview

Miniflex Riser Cable is a tough and lightweight optical fiber loose tube cable, available with up to 12 optical fibers. Starting at just 2.2mm outer diameter, the riser cable is a ruggedised, ultra-flexible drop cable solution for pushing and pulling inside raceways and microducts. The Miniflex Riser Cable fully conforms with the UL 1651 standard for a riser cables. Because of the Miniflex grooving technology this ruggedized lightweight fiber cable is ultra flexible and won't easily kink like many fiber cables. No specialist installation tools are required to push/pull the Miniflex riser cable through FTTx microducts. The cable can be pushed by hand in excess of 100 m (328 ft) with up to 8 x 90° bends in the route.

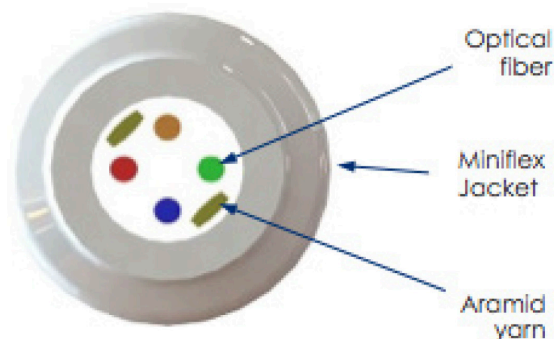
Applications

- FTTH/FTTX indoor and outdoor
- MDU and rural broadband single-dwelling units
- Telecoms, data infrastructure and transportation

Technical Data

Transmission Performance Specification

| Fiber Performance | | |
|---------------------------------------|---------------------------|--------|
| Type | Single-mode | |
| Specification | G657A1 | G657A2 |
| Max. Attenuation 1310 nm / 1550 nm | ≤ 0.40 dB/km / 0.35 dB/km | |
| Min. Bend Radius | Attenuation dB at 1550 nm | |
| 10 turns at 15mm | 0.20 | 0.03 |
| 1 turn at 10mm | 0.75 | 0.10 |
| 1 turn at 7.5mm | ~ | 0.50 |



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Technical Data

Mechanical Performance Specification

| Cable Dimensions | | Tensile Performance | Impact Performance | Bend Performance | |
|-------------------|----------------|----------------------|--------------------|-------------------------------|----------------------------|
| Cable Jacket O.D. | Wall Thickness | Max. Install Tension | <0.05dB change | Installation Min. Bend Radius | Operating Min. Bend Radius |
| (mm) | (mm) | (N) | (N. m) | (mm) | (mm) |
| 4.3 | 1.05 | 200 | 3 | 43 | 22 |
| 3.0 | 0.8 | 100 | 2 | 30 | 15 |
| 2.2 | 0.5 | 100 | 2 | 22 | 11 |

| Cable Dimensions | | Crush Resistance | | | Temperature Performance |
|-------------------|----------------|---------------------------|----------------------|------------------------|-------------------------|
| Cable Jacket O.D. | Wall Thickness | Recoverable Jacket Damage | <0.05 dB Attenuation | Loss of Optical Signal | Operating Range |
| (mm) | (mm) | (N) | (N) | (N) | °C (°F) |
| 4.3 | 1.05 | 1500 | 3200 | >4000 | -40 to 70 (-40 to 158) |
| 3.0 | 0.8 | 1500 | 2900 | >3400 | -40 to 70 (-40 to 158) |
| 2.2 | 0.5 | 1500 | 3000 | >3500 | -40 to 70 (-40 to 158) |

Ordering Information

| Fiber Type (ITU-T) | Fiber Coating | Cable O.D. | Fiber Count | Descriptive Code | Standard SKU | |
|--------------------|---------------|------------|-------------|------------------------|--------------------|----------------------|
| | | | | | m marked (2,000 m) | ft marked (6,500 ft) |
| G657A1 | 250 µm | 2.2 mm | 1 | MX-012-PBIO-WHT-A1-250 | 10-1244 | 10-1244FT |
| G657A1 | 250 µm | 2.2 mm | 2 | MX-022-PBIO-WHT-A1-250 | 10-1299 | 10-1299FT |
| G657A1 | 250 µm | 2.2 mm | 4 | MX-042-PBIO-WHT-A1-250 | 10-1298 | 10-1298FT |
| G657A1 | 250 µm | 3.0 mm | 1 | MX-013-PBIO-WHT-A1-250 | 10-1310 | 10-1310FT |
| G657A1 | 250 µm | 3.0 mm | 2 | MX-023-PBIO-WHT-A1-250 | 10-1329 | 10-1329FT |
| G657A1 | 250 µm | 3.0 mm | 4 | MX-043-PBIO-WHT-A1-250 | 10-1246 | 10-1246FT |
| G657A1 | 250 µm | 3.0 mm | 6 | MX-063-PBIO-WHT-A1-250 | 10-1331 | 10-1331FT |
| G657A1 | 250 µm | 3.0 mm | 8 | MX-083-PBIO-WHT-A1-250 | 10-1332 | 10-1332FT |
| G657A1 | 250 µm | 3.0 mm | 12 | MX-123-PBIO-WHT-A1-250 | 10-1272 | 10-1272FT |
| G657A1 | 250 µm | 4.3 mm | 24 | MX-244-PBIO-WHT-A1-250 | 10-1494 | 10-1494FT |
| G657A2 | 250 µm | 2.2 mm | 1 | MX-012-PBIO-WHT-A2-250 | 10-1388 | 10-1388FT |
| G657A2 | 250 µm | 2.2 mm | 2 | MX-022-PBIO-WHT-A2-250 | 10-1473 | 10-1473FT |
| G657A2 | 250 µm | 2.2 mm | 4 | MX-042-PBIO-WHT-A2-250 | 10-1437 | 10-1437FT |
| G657A2 | 900 µm | 3.0 mm | 1 | MX-013-PBIO-WHT-A2-900 | 10-1338 | 10-1338FT |
| G657A2 | 250 µm | 3.0 mm | 1 | MX-013-PBIO-WHT-A2-250 | 10-1389 | 10-1389FT |
| G657A2 | 250 µm | 3.0 mm | 2 | MX-023-PBIO-WHT-A2-250 | 10-1474 | 10-1474FT |
| G657A2 | 250 µm | 3.0 mm | 4 | MX-043-PBIO-WHT-A2-250 | 10-1439 | 10-1439FT |

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