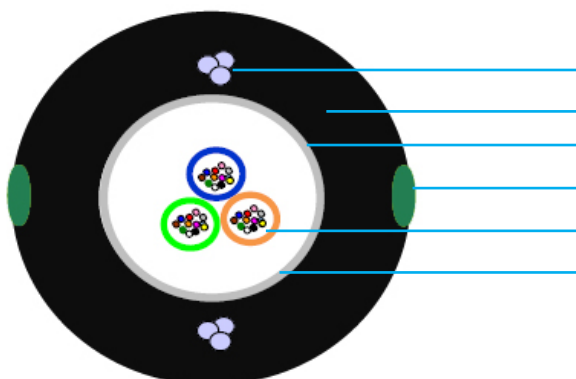


Fibre Optic Cabling

Ultralightweight Anti-Rodent Overhead Worksafe Singlemode Outdoor UV PE, OD 7.1mm



- EMBEDED BRASS COATED STEEL WIRE
- POLYTHENE OUTER SHEAT
- ARAMID YARNS (IF REQUIRED)
- GREEN STRIPE MARKING
- MICROBUNDLE WITH FIBRE & GEL
- WATER SWELLABLE TAPE

| Product Information | |
|--|---|
| Single Mode Optical Fibre | Sterlite Fibre ITU.T - G.657 A1 / G.657 A2 |
| Maximum Cabled Fibre Attenuation dB/Km | 1310nm: 0.35; 1550nm: 0.21, |
| Max. Individual Fibre PMD | <0.2 ps/√km |
| PmDq | <0.1 ps/√km |
| Filling Gel | Thixotropic gel to prevent water ingress inside microbundle |
| Microbundle | Easy strippable buffer tube |
| Dummy Element | If Required |
| Water Tightness | Water swellable tape applied longtudionally over microbundle |
| Embedded Strength Member | 2 Nos Brass coated steel wire, 180° apart. Diameter 0.32mm (Nom) *3 required |
| Peripheral Strength Member | Aramid Yarns if required |
| Stripe Marking | 2 Nos Yellow Stripe over outer sheath. 90° to Steel wire. 1.25 + 0.25 mm wide |
| Outer Sheath | UV proof Black Polyethylene with anti-rodent chemical master batch. |

| Mechanical | |
|---|-----------------------------|
| Breaking Load* | 1350 N - 1800 N |
| Installation Load | 150N |
| Min. Bending Radius | 12D |
| Crush Resistance | 2000N/100 x 100mm |
| Impact strength | 10Nm |
| Torsion | ± 360°, 100N |
| Water Penetration | 1m head, 3m samples, 24 hrs |
| *Note : At maximum environmental loading Fibre strain shall be < 0.80%. | |
| All tests shall be carried out as per IEC 60794-1-21/22 . Standards.Change in Attenuation after and before shall be < 0.05dB/Km | |

| Installation Loading Conditions | |
|--|--|
| Span Length | 55 meter (Exceptional 68m) |
| Sag % | 1.8% |
| Environmental Loading | Wind Speed 97Km/hr, ice load 0mm (Wind Speed 0, ice 5mm) |
| High Voltage Test | 15kVrms, 5 mins |
| Minimum distance shall be 1.0 meter, between Optical Fibre Cable & 11kV Transmission Line. | |

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| Cable Construction | | | | | | | |
|--------------------|-----------------|---------|---------------|-----------------------------------|---|-------------------|---------------------------|
| Fibre Count | Fibres Per Tube | Tubes | Dummy Element | Colour of Loose Tubes In Sequence | Fibre Colour | Diameter of Cable | Weight of Cable (+/- 10%) |
| | Numbers | Numbers | Numbers | | | | |
| 36 | 12 | 1 | If required | Blue | Blue, Orange, Green, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua | 7.1 +/- 0.2mm | 37 |
| 48 | 12 | 2 | If required | Blue, Orange | | 7.1 +/- 0.2mm | 40 |
| 36 | 12 | 3 | 0 | Blue, Orange, Green | | 7.1 +/- 0.2mm | 43 |
| 48 | 12 | 4 | 0 | Blue, Orange, Green, Brown | | 7.1 +/- 0.2mm | 45 |

| Printing Details | |
|--|--|
| Cable Printing details (White - Hot Foil) | CONNECTIX Fibre Count F Aerial LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING |
| The accuracy of marking shall be + 1%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supercedes the earlier markings. | |

Outer Sheath Colour: Black

Standard Length Details

Cable length (meter) 2000 + 5 %
 Order Tolerance: ± 5 %
 Short Lengths : MAX 5 %, Customer Approval.

| Ordering Information | |
|--|----------------|
| Product Description | Part Number |
| 12F Ultralightweight Anti-Rodent Overhead Worksafe Singlemode G.657.A1 Outdoor UV PE, OD 7.1mm | 002-005-181-12 |
| 24F Ultralightweight Anti-Rodent Overhead Worksafe Singlemode G.657.A1 Outdoor UV PE, OD 7.1mm | 002-005-181-24 |
| 36F Ultralightweight Anti-Rodent Overhead Worksafe Singlemode G.657.A1 Outdoor UV PE, OD 7.1mm | 002-005-181-36 |
| 48F Ultralightweight Anti-Rodent Overhead Worksafe Singlemode G.657.A1 Outdoor UV PE, OD 7.1mm | 002-005-181-48 |