

LIGHT speed Dual Drop Fibre Cable

Aerial and Duct applications

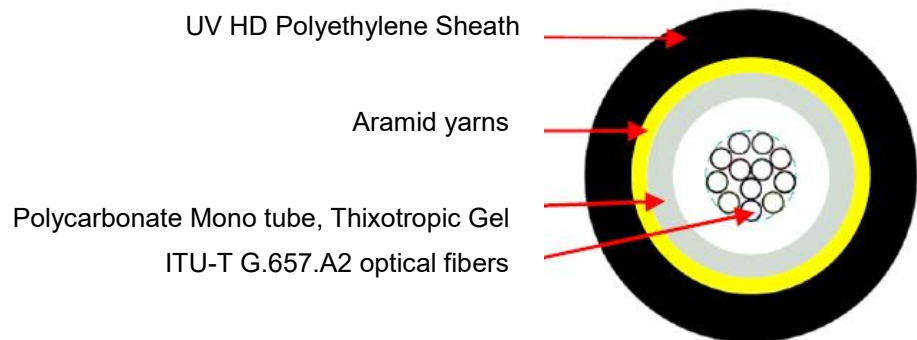


Diagram depicts 12 fibre construction

Product Features

This dual drop cable has a thixotropic gel filled monotube containing 2, 4, 6, 8 or 12 fibres.

The fibre colours follow the TIA/EIA-598 colour coding scheme.

| | | | | | | | | | | | |
|------|--------|-------|-------|------|-------|-----|-------|--------|--------|------|-----------|
| Blue | Orange | Green | Brown | Grey | White | Red | Black | Yellow | Violet | Pink | Turquoise |
|------|--------|-------|-------|------|-------|-----|-------|--------|--------|------|-----------|

Tube colours follows TIA/EIA-598 colour coding scheme:

| | |
|--------|---------|
| Opaque | Natural |
|--------|---------|

The cable is capable for up to 50m aerial drop installation.

The cable design is such that cables may be installed by means of air assisted installation techniques into micro ducts; typically, 8/6 mm and 8/5mm micro ducts

The thixotropic gel filled tube allows for excellent sustained reliability over a wide temperature range.

The cable is engineered to ensure the optical fibres remain stress free over the designated temperature range.

The cable is water blocked

The High-Density Polyethylene sheath is UV stabilised for outdoor applications.

Maximum installation load of 144N

Physical Properties

| Parameter | | Test Method | |
|---|----------------------|----------------|----------------|
| No. of elements | 1 | | |
| No. of fibres | 2 to 12 | | |
| Cable diameter - nominal | 3.8 mm | | |
| Cable weight - nominal | 12 kg/km | | |
| Installation load - Max | 144 N | IEC 60794-1-21 | |
| Minimum bend radius | Long term | 30 mm | IEC 60794-1-21 |
| | Short term | 12 mm | |
| Crush resistance via 100mm plates | 650 N | IEC 60794-1-21 | |
| Torsion | 10 cycles 180° apart | IEC 60794-1-21 | |
| Repeated bending | 35 cycles R=20xD | IEC 60794-1-21 | |
| Temperature | -10°C to +70°C | IEC 60794-1-22 | |
| Water penetration 3m of cable / 1m head of water | No leakage | IEC 60794-1-22 | |
| Drip test 300 mm sample of loose tube @ 80°C | No leakage | IEC 60794-1-22 | |

Optical Properties

| | | |
|--|--------------------------|---------------------------|
| Fibre Type | Single Mode (SM) | |
| Specification | ITU-TG.657A2 | |
| Attenuation | 0.35 dB/km @ 1310 nm | |
| | 0.22 db/km @ 1550 nm | |
| | 0.24 dB/km @ 1625 nm | |
| Mode field diameter | 8.6 µm ±0.4 µm @ 1310 nm | |
| | 9.6 µm ±0.5 µm @ 1550 nm | |
| Polarisation mode dispersion (PMD _D) | ≤ 0.06 ps/√km | |
| Cladding diameter | 125 µm ±0.7 µm | |
| Core concentricity error | ≤ 0.5 µm | |
| Cladding non-circularity | ≤ 0.7 % | |
| Cable cut off wavelength | ≤ 1260 nm | |
| Macro bend loss | 1 turn @ 1550 nm | ≤ 0.40 dB @ 7.5 mm Radius |
| | 1 turn @ 1625 nm | ≤ 0.80 dB @ 7.5 mm Radius |
| | 10 turns @ 1550 nm | ≤ 0.03 dB @ 15 mm Radius |
| | 10 turns @ 1625 nm | ≤ 0.10 dB @ 15 mm Radius |
| Proof strain | 0.7 Gpa | |
| Dynamic fatigue | > 20 Nd | |

