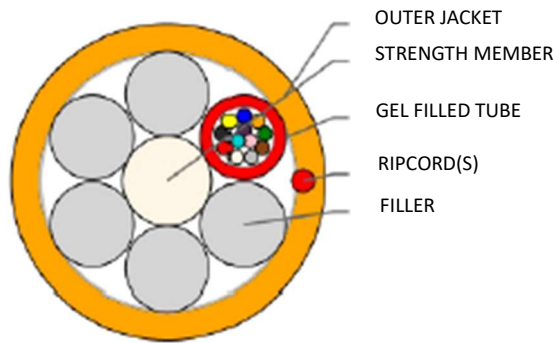


| | | | |
|---------------------|--|-------------|---------------|
| Product Name | : 12F 1T G.657.A1 Micro Lite Multitube Single Jacket Optical Fiber Cable | | |
| | A-DQ(ZN)2Y 1x12 E9/125 G657.A1 | | |
| Product Code | : MD0012FS101TGP130 | | |
| Revision | : 5.0 | Date | : 28-Sep-2021 |

Product Details

This cable is typically used in micro duct installation applications. Microcable can utilize in existing and new duct systems more effectively by accommodating more fibres in given subduct network.

Construction Diagram



* Typical Construction Diagram - Not to Scale

Features & Benefits

- As compared to conventional cable, Micro Cable diameter is less and thereby reducing installation costs
- Excellent solutions for new and existing duct systems
- Typically blown into micro ducts previously installed into large ducts
- Dry water-blocking technology for gel free core helps in quicker end preparation
- Easily removable rugged thermoplastic jacket
- Flexible, light weight, easy to handle & install.

Specifications

| Physical Characteristics | |
|-------------------------------------|--|
| Fibre Count | 12 |
| Fibre Type | Sterlite Fibre ITU-T G.657.A1 BOW-LITE |
| Maximum Cabled Attenuation (dB/km) | 1310 nm: 0.35 and 1550 nm: 0.23 |
| Individual PMD (ps/√km) | ≤ 0.2 |
| Link Design PMD (ps/√km) | ≤ 0.1 |
| Fibers per Tube | 12 |
| Fibers' Color Sequence [§] | Red, White, Yellow, Blue, Green, Violet, Brown, Black, Orange, Turquoise, Pink, Grey |
| Tube Size (mm) | 1.5 |
| Central Strength Member | FRP |
| No of Active Tubes | 1 |
| Tubes' Color Sequence [§] | Red |
| No of Fillers | 5 |
| Filler Color | Natural |
| Outer Sheath Material | HDPE, Orange, UV resistant |
| Nominal Sheath Thickness (mm) | 0.5 |
| No of Ripcords Below Outer Sheath | 1 |
| Nominal Cable Dimensions (mm) | 5.7 ± 0.3 |
| Nominal Cable Weight (kg/km) | 28 ± 10% |

Note: [§]-Other fibers' and tubes' color sequences can be manufactured on demand, prior approval

| Mechanical & Environmental Characteristics | | |
|--|--------------------|--|
| Cable Characteristics | Testing Standard | Cable Performance |
| Tensile Strength (N) | IEC-60794-1-21-E1 | 500 |
| Crush Resistance (N/100 mm) | IEC-60794-1-21-E3 | 500 |
| Impact Strength (N·m) | IEC-60794-1-21-E4 | 2 |
| Torsion | IEC-60794-1-21-E7 | ±180° |
| Min. Bend Radius (During Installation) | IEC-60794-1-21-E11 | 20 x OD |
| Min. Bend Radius (After Installation) | IEC-60794-1-21-E11 | 15 x OD |
| Water Penetration Test | IEC-60794-1-22-F5 | 1m waterhead, 3m sample, 24 h |
| Drip Test | IEC-60794-1-21-E14 | 30 cm, 70 °C, 24 h |
| *Temperature Performance | IEC-60794-1-22-F1 | Max. change in attenuation shall be ≤ 0.15 dB/km |
| Installation | | -20 °C to +60 °C |
| Operation | | -30 °C to +70 °C |
| Storage | | -40 °C to +70 °C |

Note: All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be ≤ 0.1 dB/km

Cable Performance Standards

Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Packing and Lengths

Drum Type : Non-returnable Wooden Drum with Wooden Lagging

Custom Length Multiple (km) : 6

Order Tolerance : ± 5%

Short Lengths : Max 5%, upon Customer approval

Note: Other lengths can be manufactured on demand, prior approval

Printing Details

Standard STL's Printing : FTTH DEUTSCHE GLASFASER GFK # FIBER TYPE # FIBER COUNT # STL – ALCADON # LENGTH CODE # METER MARKING

Notes : The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.
Customized printing is possible on demand, prior approval