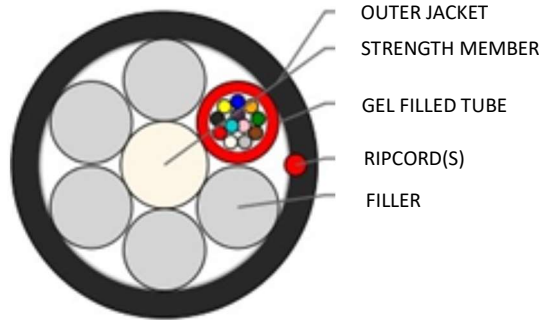


<b>Product Name</b>	: 12F 1T G.657.A1 Micro Lite Multitube Single Jacket Optical Fiber Cable A-DQ(ZN)2Y 1x12 E9/125 G657.A1	
<b>Product Code</b>	: MD0012FS101TGP114	
<b>Revision</b>	: 3.0	<b>Date</b> : 28-Sep-2021

**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 <sup>§</sup>	Red, Green, Blue, Yellow, White, Grey, Brown, Violet, Turquoise, Black, Orange, Pink
Tube Size (mm)	1.5
Central Strength Member	FRP
No of Active Tubes	1
Tubes' Color Sequence <sup>§</sup>	Red
No of Fillers	5
Filler Color	Natural
Outer Sheath Material	HDPE, Black, 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:** <sup>§</sup>-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