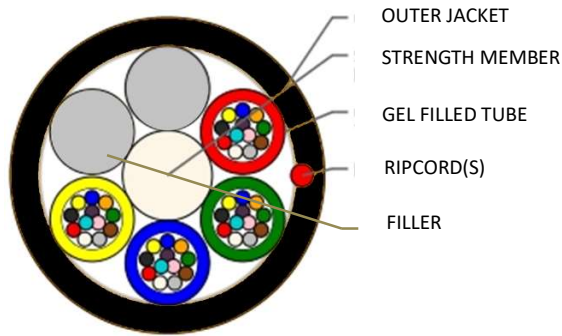


Product Name : 48F 4T G.657.A1 Micro Lite Multitube Single Jacket Optical Fiber Cable
A-DQ(ZN)2Y 4x12 E9/125 G657.A1
Product Code : MD0048FS104TGP123
Revision : 4.0 **Date** : 28-Sep-2021

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	48
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, Green, Blue, Yellow, White, Grey, Brown, Violet, Turquoise, Black, Orange, Pink
Tube Size (mm)	1.5
Central Strength Member	FRP
No of Active Tubes	4
Tubes' Color Sequence [§]	Red, Green, Blue, Yellow
No of Fillers	2
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: [§]-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

