

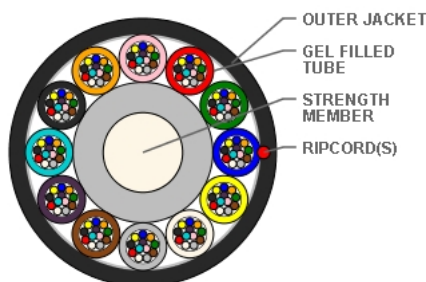
Product Name : 144F SM (G.657A1) Micro Lite Multitube Single Sheath OFC
Product Code : MD0144FS112TGP113
Revision : 1.0

Date : 08-Jul-2020

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	144
Fibre Type	Sterlite Fibre ITU-T G.657 A1
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.23
PMD LDV (ps/sqrt.km)	<= 0.1
Fibres per Tube	12
Fibre Color Sequence	Red,Green,Blue,White,Violet,Orange,Grey,Yellow,Brown,Pink,Black,Aqua
Central Strength Member	FRP (Fibre Reinforced Plastic)
No of Tubes in Layer 1	12
Tube Color Sequence	Red,Green,Blue,White,Violet,Orange,Grey,Yellow,Brown,Pink,Black,Aqua
Outer Sheath Material	UV Proof Black HDPE
No of Ripcords Below Outer Sheath	1
Nominal Cable Dimensions (mm)	8.4±0.3
Nominal Cable Weight (kg/km)	55±10%

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	1000
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	500
Impact Strength(Nm)	IEC-60794-1-21-E4	2
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	15 D
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m samples, 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		-10°C to +70°C
Operation		-40°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, IEC 60794-5-10, ITU-T, RoHS, REACH.

Packing and Lengths

Drum Type : Wooden Drums
Length Multiple (km) : $4 \pm 5\%$
Order Tolerance : $\pm 5\%$
Short Lengths : Max 5%, Customer Approval

Printing Details

Printing : STERLITE SM 144F G652D MICRO LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING

Note : 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.

Revision History

Revision No.	Date	Description
1.0	08-Jul-2020	Initial Issue

Prepared By : Zaid