

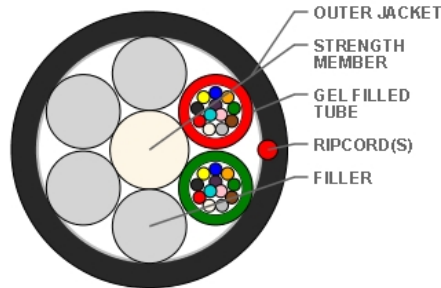
**Product Name** : 24F SM (G.657A1) Micro Lite Multitube Single Sheath OFC  
**Product Code** : MD0024FS102TGP119  
**Revision** : 1.0

**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	24
Fibre Type	Sterlite 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, Yellow,White,Grey,Brown,Violet,Turquoise,Black,Orange,Pink
Central Strength Member	FRP (Fibre Reinforced Plastic)
No of Tubes in Layer 1	2
Tube Color Sequence	Red,Green,Filler,Filler,Filler,Filler
No of Fillers	4
Filler Color	Natural
Outer Sheath Material	Black UV Proof HDPE
No of Ripcords Below Outer Sheath	1
Nominal Cable Dimensions (mm)	5.7±0.3
Nominal Cable Weight (kg/km)	24±10%

## Mechanical &amp; 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(Nm)	IEC-60794-1-21-E4	5
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 $\leq 0.15$ 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  $\leq 0.1$  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 24F G657A1 MICRO LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING
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**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