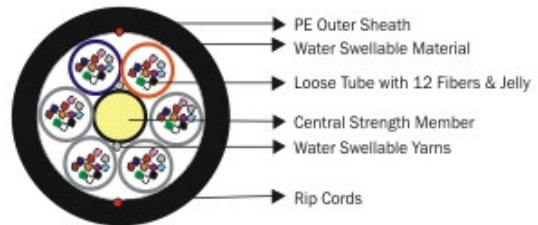


## Sterlite Micro Duct Fiber Optic Cable Series



### Product Application

The loose tube design provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. These cables may be used for Long-haul, CATV, Campus Cabling and Utility Communication Networks.

### Product Benefits

Weight is less than half of conventional cable



Micro Duct  
72 Fiber  
6.0 mm O.D.

Conventional  
72 Fiber  
13.5 mm O.D.

Bending stiffness is minimal with no preferential bending plane, - Minimized cable expansion & contraction thus capable of handling temperature extremes, - Midspan access is possible, - The expansion of networks is possible at a minimal cost, as the cable is small enough to fit in existing free space of ducts, by putting the sub duct in the main duct. - Faster network rollout

### Product Specifications

#### Cable Configuration

Fiber Count	Cable Diameter	Cable Weight
12-72	6.0 mm	32 kg/km
96	7.2 mm	50 kg/km
144	9.4 mm	58 kg/km

#### Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max. Installation Load	IEC 60794-1-2-E1	1.3 W	Change in Attn < 0.05 dB/km, Strain Less than 0.33 %, No damage or fiber break.
Compression Test	IEC 60794-1-2-E3	1000 N / 100 mm	Change in Attn < 0.05 dB/km, No damage or fiber break
Impact Test	IEC 60794-1-2-E4	10 Nm	Change in Attn < 0.05 dB/km, No damage or fiber break
Torsion Test	IEC 60794-1-2-E7	±180°	Change in Attn < 0.05 dB/km, No damage or fiber break
Repeated Bending Test	IEC 60794-1-2-E6	20 D for 25 Cycles	Change in Attn < 0.05 dB/km, No damage or fiber break
Cable Bend Test	IEC 60794-1-2-E11	20 D for 4 Turns, 10 Cycles	Change in Attn < 0.05 dB/km, No damage or fiber break
Temperature Cycling Test	IEC 60794-1-2-F1	-20°C to +70°C	Change in Attn < 0.10 dB/km, No damage or fiber break
Water Penetration Test	IEC 60794-1-2-F5B	3m Sample under 1 meter water head	No water leakage after 24 hours

### Available Length Details

Standard Lengths of 4 kms & 6 Kms. Customised lengths also available as per customer requirements.

### Product Options:

Rodent proof & Fire retardant designs also available

### Manufacturing Process

Sterlite controls every stage of the manufacturing process so that quality is built in to every meter of cable, rather than selected out at the end through testing. To ensure the accuracy and precision of the manufacturing process, Sterlite routinely calibrates and recertifies process equipment and measurement benches against internationally traceable standards from NPL/NIST, and follow test methods compliant with EIA/TIA, IEC and ITU standards.

### International Standards

Sterlite Micro Duct Fiber Optic Cables comply with or exceed ITU Recommendation G.651 to G.657, IEC 60793 & 60794 and EN 187000 International Standards.

### Service USPs

- Complete range of Fiber Optic Cables for terrestrial networks
- World-wide Sales Support
- Web-based Order Tracking & Customer Support
- Specialized technical support

### Technical Specifications

The above designs are only a sample of the options available from Sterlite. Contact our Sales Team for a cable designed to your exact specifications.

Sterlite's policy of continuous improvement may result in a change in specifications without prior notice.

Any warranty of any nature relating to any Sterlite product is only contained in the written agreement between Sterlite Technologies Ltd and the direct purchaser of such product(s).

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