



Tube LFH 7 x 1.5

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The 7 mm LSZH mini tube is used as an indoor pathway for fibre optic mini cables and is suitable for the cable blowing technique up to an air pressure of 12 bar.



7mm LSZH tube

4mm ID low friction inner coating

The low fire hazard mini tube and tube bundle (MTC LFH) is intended for protection of optical micro cables. It is used mainly in places where reduced flammability is required. The bundle is self-extinguishing and formation of smoke is reduced during

The tube can be used as a one way fibre route but should be handled with care and used in areas where physical abuse is unlikely. Not suitable for installation by pulling, must be laid directly or blown in. With permanent low friction solid inner lining for optimised blowing distances.

Construction

Outer diameter	[mm]	7
Inner diameter	[mm]	4
Dimension min/max	[mm]	6.9 - 7.1
Wall thickness min/max	[mm]	1.4 – 1.55
Material		Low Toxic Gas Emission, Low Smoke Generation, ZERO % Halogen Content (chlorine, bromine, fluorine) according to IEC 60754-1
Ovality		3% production; 5% on drum
Color		White

Technical specification

Inner coefficient of friction		1.5m of tube is secured with 450° wrap around a 300mm mandrel with one end of the tube hanging downwards. The other end pointing horizontally towards the tensile testing machine. A 2kN twine is installed through the tube and connected to a 5kg weight. The twine shall be pulled at 1000mm/min and travel 100mm. The average force of 2 pulls shall be recorded to give a coefficient of friction less than 0.09
Weight	[g/m]	38.2
Tensile (installation) – pulling by hand only	[N]	130
Bending radius	[mm]	140
Blowing pressure	[bar]	12
Crush – residual deformation (IEC 60794–1–2-E3)		A load of 300N (30kg) shall be applied for 60 seconds, then removed. There shall be no splitting nor permanent damage. Any permanent residual deformation shall not exceed 15%
Elongation at break		160% min
After 7 days at 7	100 °C	128% min
Cold elongation @-20 °C		50% min
Cold impact @-20 °C		No cracks
Temperature index (min)	[°C]	280





Fire scenario

Flammability	DIN EN IEC 60332 Part 1 and Part 3, Pass
Smoke emission	To BS 7622, not exceeding Ao=0.25
Fire behaviour (CPR)	DIN EN 13501-1 B2 s1 d2 A1 class

Environmental specification

Transport and storage	-20 °C ~ + 60 °C
Installation	-5 °C ~ + 35 °C
Operation	-20 °C ~ + 60 °C

Logistical specification

Length on drum [m] 500

Tube is delivered on a disposable wooden drum Duct end is provided with an end cap.

