



Microduct Assembly

5/3.5mm
LSZH



Description

LSZH Indoor MicroGlide™ is a reduced fire hazard assembly consisting of a specified number of 5/3.5mm MicroGlide™ LSZH – Low Smoke Zero Halogen – low friction tubes assembled together with a LSZH sheath.

This assembly is suitable for indoor applications where fire retardant properties are required.

Primary Tube

- Low Toxic Gas Emission, Low Smoke Generation, ZERO % Halogen Content (chlorine, bromine, fluorine) according to IEC 60754-1
- Euroclass rating: B2 ca s1a d2 a1; Tested to EN 50399, EN 60332-1, EN 61034-2 & EN 60754-2. Evaluated to EN 13501 (Note the ducting was tested without fibre)
- Smooth inner wall as standard
- White solid as standard - colour optional
- Number coded for ease of identification

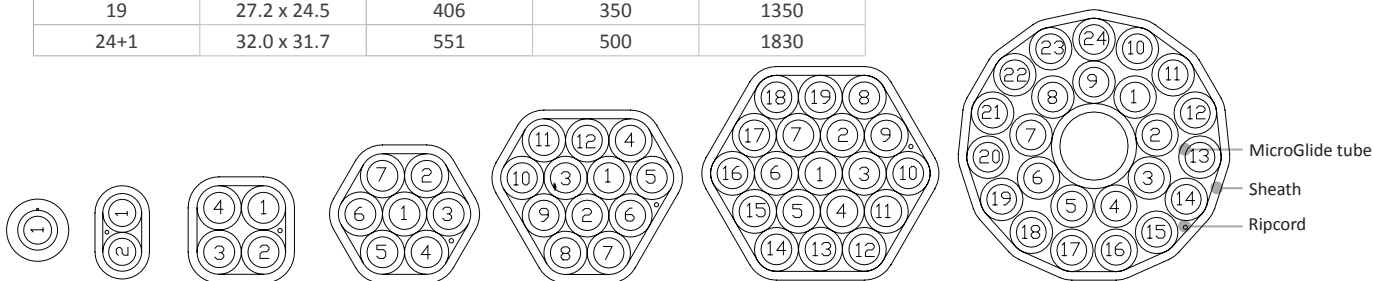
O.D./I.D Nominal (mm)	O.D (mm)	Wall Min-Max (mm)	Bend Radius (mm)	Max Tensile (N)	Max Pressure (bar)	Reference
10/8	10.0-10.1	0.9-1.05	200	140	12	TS_MDT_10-8mm LSZH
5/3.5	4.9-5.1	0.65-0.80	100	50	12	TS_MDT_5-3.5mm LSZH

Classification Code DIN EN 61386-22: 2-1-2-1-2-2-0-0-0-1-0

Assembly

- Configuration: 1,2,4,7,12,19,24+1 way
- Outer sheath: material designed for Low Flammability, Low Toxic Gas Emission, Low Smoke Generation, No Halogen Content
- Euroclass rating:
 - 1-12way: B ca s1 d2 a1
 - 19-24 way: D ca s2 d2 a1
- Outer Sheath Material Flammability: DIN EN 60332-1-2:2004 + A11:2016, DIN EN 50339:2011 + A1:2016
- Outer Sheath Flammability Temperature Index 255°C (ISO 4589-3)
- Outer Sheath Oxygen Index 35% (ISO 4589-2)
- Outer sheath colour: White as standard - colour optional
- Ripcord: for removal of sheath

Configuration	O.D. Nominal (mm)	Weight (g/m)	Bend Radius (mm)	Max Tensile (N)
1	7.0	43	100	150
2	12.2 x 7.2	73	100	250
4	14.3 x 12.2	118	150	400
7	17.0 x 15.7	179	220	600
12	22.3 x 20.0	277	300	950
19	27.2 x 24.5	406	350	1350
24+1	32.0 x 31.7	551	500	1830



Schematic drawing, not to scale

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Tests

Type Test	Test Standard	Requirement
Tensile Performance	IEC 60794-1-2-E1	Specified tensile load, 10 min, v=50mm/min
Abrasion	IEC 60794-1-2-E2B	4N, 100 cycles
Crush	IEC 60794-1-2-E3	400 N, 60 s, 1h recovery time There shall be no splitting nor permanent damage. Any permanent residual deformation shall not exceed 15%.
Impact	IEC 60794-1-2-E4	3J (rec 1h.)
Bend & Repeated bend	IEC 60794-1-21-E11 & E6	D= 40 x OD 25 cycles D= 40 x OD 3 turn Bend radius \leq 20 x OD
Kink	IEC 60794-1-2-E10	D= 20 x OD
Ripcord Removal	Radius Inhouse	500mm sample lengths shall be cut and conditioned at -10°C for 2 hours. After conditioning, the ripcord will split the inner sheath without snapping

Marking

The following print is applied at 1-meter intervals:

- Supplier: RADIUS
- Product Description (e.g 12 way 5/3.5mm LSZH)
- Batch Number
- Meter Count
- Line Number

Customer specific print is optional

Packing

Microduct will be shipped on either disposable wooden drums, treated wooden drums or metal drums.
Duct assembly end will be capped off.

Delivery Lengths

Available in various drum lengths typically 500m, 1000m and 2000m depending on product configuration.
Drum lengths to be agreed at the time of order.