



Microduct Assembly

5/3.5mm

UL Riser Rated OFNR



Description

MicroGlide™ Riser - is an OFNR Field Asssembled Fibre Optic Cable rated assembly consisting of a specified number of 5/3.5 MicroGlide™ low friction tubes assembled together within a protective sheath.

This assembly is suitable for OFNR, 'RISER' applications (for use in vertical runs in a shaft) where flame propagation characteristics are required in accordance with UL1666.

Individual MicroGlide™ tubes are designed for the installation of long lengths of 2, 4, 8 or 12 single mode or multi-mode fibre optic bundles.

Primary Tube

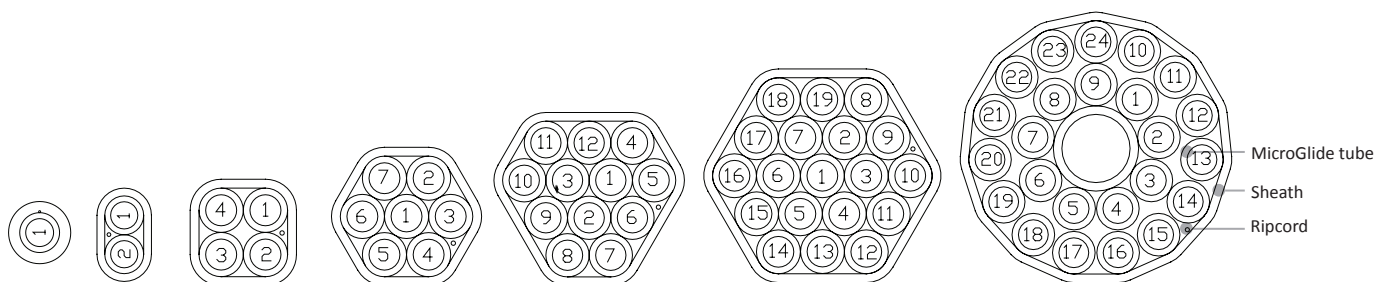
- Produced with materials designed for OFNR applications
- Smooth inner wall as standard
- White solid as standard
- Number coded for ease of identification

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	1.0-1.1	200	140	12	TS_MDT_10-8mm_Riser
5/3.5	4.9-5.1	0.65-0.80	100	50	12	TS_MDT_5-3.5mm_Riser

Assembly

- Configuration: 1,2,4,7,12,19,24+1 way
- Outer sheath: produced with materials designed for OFNR applications
- Outer Sheath Material Flammability: Field Assembled Optical Fibre cable type OFNR in accordance with UL1666
- Outer sheath colour: White as standard
- Ripcord: for removal of sheath

Configuration	O.D. Nominal (mm)	Weight (g/m)	Bend Radius (mm)	Max Tensile (N)
1	7.0	45	100	150
2	12.0 x 7.0	77	100	250
4	14.1 x 12.0	125	150	400
7	17.0 x 15.7	187	220	600
12	22.3 x 20.0	290	300	950
19	27.0 x 24.3	423	350	1350
24+1	32.0 x 31.7	572	500	1830



Schematic drawing, not to scale

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Test	Test Standard	Requirement
Flammability	UL1666 OFNR	OFNR rating
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 ≤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 microduct and microduct assemblies are marked in accordance with the standard for optical fibre cables, UL1651.

In addition, meter count, batch number, line number and tube number are printed every metre.

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.