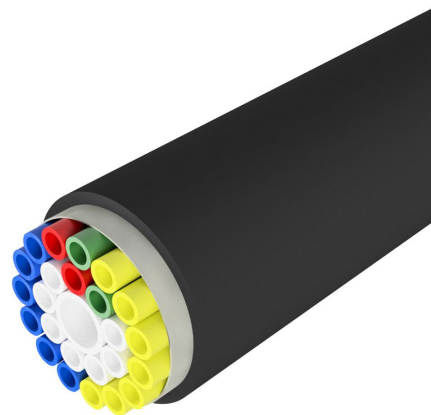




Microduct Assembly

Direct Install 5/3.5mm with Water Tape



Description

Direct Install assembly consisting of a specified number of 5/3.5mm MicroGlide® low friction tubes surrounded with a non-metallic moisture barrier and a polyethylene sheath.

This assembly is suitable for installation within an existing duct.

Primary Tube

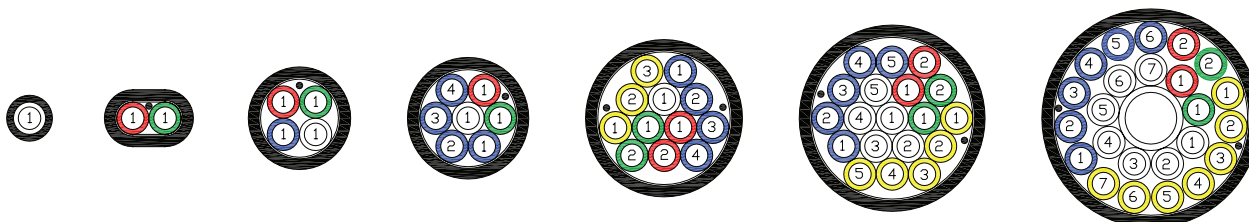
- Made from polyethylene material with low friction inner lining to optimise blowing distances
- Smooth inner wall as standard - ribbed inner wall optional
- Solid or translucent tubes allowing fibre visibility
- Colour and Number coded for ease of identification

O.D./I.D Nominal (mm)	O.D (mm)	Wall Min-Max (mm)	Bend Radius (mm)	Max Tensile (N)	Max Pressure (bar)	Reference
5/3.5	5.0-5.1	0.65-0.8	100	105	16	TS_MDT_5-3.5mm_HDPE
10/8	10.0 - 10.1	0.9-1.05	200	300	12	TS_MDT_10-8mm_HDPE

Assembly

- Configuration: 1,2,4,7,12,19,24+1 way
- Outer sheath: polyethylene
- Outer sheath colour: black or other
- Water swellable tape (0.25mm) acts as moisture barrier
- Ripcord: for removal of outer sheath

Configuration	O.D. Nominal (mm)	Weight (g/m)	Bend Radius (mm)	Max Tensile (N)
1	8.7	45	105	230
2	13.7 x 8.7	75	105	360
4	15.8	110	190	560
7	18.7	150	225	780
12	24.7	250	300	1310
19	29.5	350	355	1800
24	34.5	450	415	2350



Schematic drawing, not to scale

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Test	Test Standard
Tensile Performance	IEC 60794-1-2-E1
Abrasion	IEC 60794-1-2-E2B
Crush	IEC 60794-1-2-E3
Impact	IEC 60794-1-2-E4
Torsion	IEC 60794-1-2-E7
Repeated bending	IEC 60794-1-2-E6
Kink	IEC 60794-1-2-E10
Bend Performance	IEC 60794-1-2-E11
Ripcord Removal	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
Friction Properties & Lubrication	1.5m of tube is secured with 450 ^g wrap around a 300mm mandrel with one end of the tube hanging downwards. The other end pointing horizontally towards the tensile testing machine. A N°5 ripcord is installed through the tube and connected to a 200g 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.

Marking

The following print is applied at 1-meter intervals:

- Supplier: RADIUS
- Product Description (e.g 7 way 5/3.5mm)
- 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.