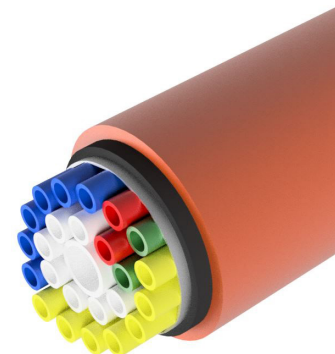




Microduct Assembly

Direct Bury 5/3.5mm with Water Tape



Description

Direct Bury metal-free assembly consisting of a specified number of 5/3.5mm MicroGlide® low friction tubes surrounded with a non-metallic moisture barrier, an inner polyethylene sheath and a heavy duty polyethylene sheath.

This assembly is suitable for direct burial applications where increased cable protection is required. The heavier construction lies flatter in trenches and has more resistance to localised bending. It also offers additional resistance to tensile loads and on site handling.

The water swellable tape provides a non-metallic moisture barrier.

Primary Tube

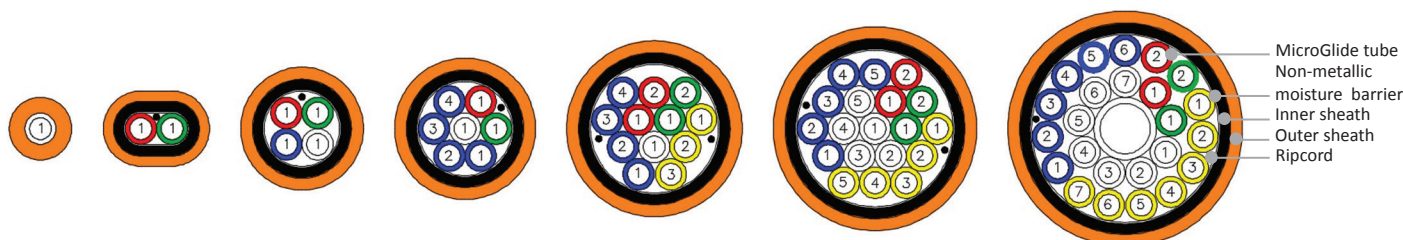
- Made from polyethylene material with low friction inner lining to optimise blowing distances
- Smooth inner wall as standard - ribbed inner wall optional
- Solid or translucent tubes allowing fibre visibility
- Colour and/or Number coded for ease of identification

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	75	90	16	TS_MDT_5-3.5mm HDPE
10/8	10.0 - 10.1	0.9-1.05	150	300	12	TS_MDT_10-8mm_HDPE

Assembly

- Configuration: 1,2,4,7,12,19,24+1 way
- Water swellable tape acts as moisture barrier
- Outer sheath: polyethylene - Colour: Orange or other
- Inner sheath: polyethylene - Colour: Black
- Ripcord: for removal of inner sheath - use sheath stripper to remove the outer heavy duty sheath

Configuration	O.D. Nominal (mm)	Weight (g/m)	Bend Radius (mm)	Max Tensile (N)
1	10.0	64	150	320
2	17.0 x 12.0	139	180	710
4	19.7	212	295	1100
7	22.6	272	340	1410
12	27.9	376	420	1960
19	32.6	493	490	2570
24+1	37.6	620	565	3240



Schematic drawing, not to scale

Microduct Assembly

Direct Bury 5/3.5mm with Water Tape



Test

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	2000 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	15J (rec 1h.)
Bend Performance & Repeated bending	IEC 60794-1-2-E6-E11	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 following print is applied at 1-meter intervals:

- Supplier: RADIUS
- Product Description (e.g 12 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.