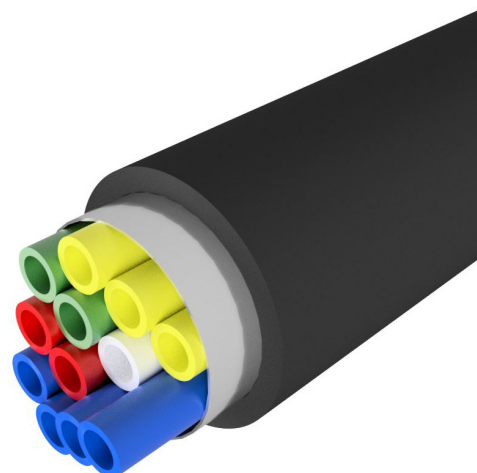




# Microduct Assembly

PIA

Direct Install 5/3.5mm



## Description

Direct Install assembly consisting of a specified number of 5/3.5mm MicroGlide® low friction tubes surrounded by an aluminium moisture barrier and a polyethylene sheath.

This assembly is suitable for installation within an existing duct.

Suitable for PIA application.

## Primary Tube

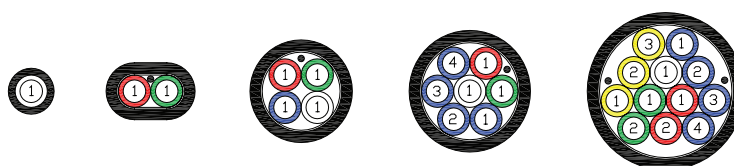
- Made from polyethylene material with low friction inner lining to optimise blowing distances
- Smooth inner wall as standard - ribbed inner wall optional
- Solid or translucent tubes allowing fibre visibility
- Colour and/or Number coded for ease of identification

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	100	105	16	TS_MDT_5-3.5mm_HDPE

## Assembly

- Configuration: 1,2,4,7,12 way
- Outer sheath: polyethylene
- Outer sheath colour: black or other
- Aluminium layer: acts as a 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	55	105	400
2	13.7 x 8.7	85	105	600
4	15.7	127	190	900
7	18.7	174	225	1300
12	23.9	254	290	1900



Schematic drawing, not to scale

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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	1000 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 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 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.