

Microduct

Direct Bury MicroGlide®/MiniGlide®



Description

A polyethylene microduct from our MiniGlide® and MicroGlide® range providing pathway for mini fibre optic cables. These microducts are suitable for Direct Burial application.

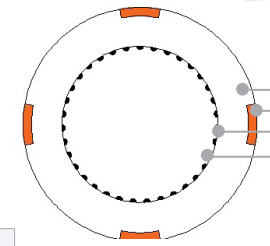
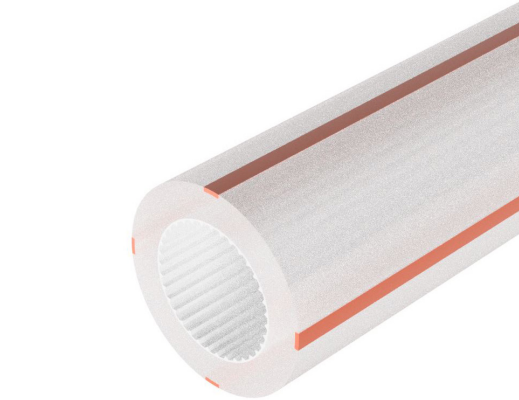
Features a permanent low friction solid inner lining for optimised blowing distances.

Can be supplied as single loose tubes or as sheathed assemblies of various configurations.

Option to supply with rodent repellent materials.

Dimensions & Material

	O.D Nominal (mm)	I.D Nominal (mm)	Weight (g/m)	Min Bend Radius (mm)	Max Installation Tensile (N)
MicroGlide®	5.0	2.1	15	75	145
MiniGlide®	6.0	2.7	21.8	90	205
	7.0	3.5	27	105	260
	7.0	4.0	24	105	235
	8.0	4.0	34.2	120	340
	8.0	3.5	38.2	120	370
	10.0	6.0	47	150	530
	12.0	8.0	57	180	700
	14.0	10.0	69	210	1000
	16.0	12.0	80.9	240	1150
	16.0	10.0	115.2	240	1280
	18.0	12.0	137	300	1485
	18.0	14.0	95.6	240	1050
	20.0	14.0	150	300	1800
20.0	15.0	135	300	1600	
20.0	16.0	108.4	300	1300	



HDPE Tube
OD
ID
Low friction Inner Coating

Schematic drawing, not to scale

Material	Extruded from 100% prime grade virgin HDPE (High Density Polyethylene) in accordance with ISO1872-1 (ISO1872-2) Class N
Inner Wall	Smooth wall as standard - ribbed optional
Low friction	Permanent co-extruded low friction internal coating with coefficient of friction typically less than or equal to 0.09
Colour	Solid or translucent colours allowing fibre visibility Stripe option available
Operating Temperatures	Transport, Installation and Service -20°C to +60°C Operation (Blowing) -5°C to +35°C
Ovality	3% production 5% on drum

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Tests

Test	Test Standard	Requirement
Tensile Performance	IEC 60794-1-2-E1	1 x W, 10 min, v=50mm/min
Abrasion	IEC 60794-1-2-E2B	4N, 100 cycles
Crush	IEC 60794-1-2-E3	1000N, 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)
Torsion	IEC 60794-1-2-E7	10 cycles
Bend & Repeated Bend	IEC 60794-1-21-E11 & E6	D= 40 x OD, 25 cycles D= 40 x OD, 3 turns Bend radius ≤20 x OD
Kink	IEC 60794-1-2-E10	D= 20 x OD
Pressure	IEC 60794-1-22 - F13	2.5xPressure Rating, 0.5h, 20 °C 1.3xPressure Rating, 24h, 40 °C
Friction Properties & Lubrication	Radius Inhouse	Specified length of tube is secured with 450° wrap around a suitable size mandrel with one end of the tube hanging downwards. The other end pointing horizontally towards the tensile testing machine. A rope is installed through the tube and connected to a specified weight. The rope shall be pulled at 1000mm/min and travel a minimum of 100mm. The average force of 2 pulls shall be recorded to give a coefficient of friction less than 0.09.

Marking

The following print (Inkjet) is applied at 1-meter intervals:

- RADIUS
- Product Description (e.g OD/ID mm)
- Batch Number
- Meter Count
- Line Number

Customer specific print is optional

Packing

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

Delivery Lengths

Available in various drum lengths.

Drum lengths to be agreed at the time of order.