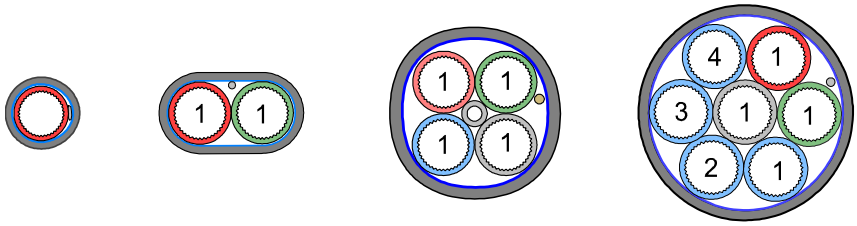
fibreflow Blown Fibre DI Assemblies, 10mm and 12mm



GENERIC PRODUCT DESCRIPTION:

Assemblies of internally ribbed PE microducts (m/d)(10 or 12mm), each with low friction performance. Each assembly (tube bundle) is surrounded by an overlapped aluminium water barrier layer. Over this and bonded to it is a flexible sheath of black outdoor PE. These lightweight and flexible products are intended for direct installation into waiting duct, but not for direct burial or aerial use.
Note we offer a choice of 12mm microducts. The 12/10 is the standard product, having an improved blowing distance. The 12/9.4 is slightly stronger, for arduous conditions requiring more crush and impact resistance.

APPROPRIATE FIBRE TYPES:

These DI bundles are made with larger m/ds, to suit small lightweight fibre cables that are designed for installation by blowing. Emtelle provide such fibre cables, in counts from 24f to 72f, and all can be accommodated in these m/d sizes. The 12mm m/ds can also accommodate 96f cable.

GENERIC DETAILS: MICRODUCTS (20°C):

Primary m/d outer diameter, nom	**10.0mm**	**12.0mm (std)**	**12.0mm (special)**
Primary m/d inner diameter, nom	8.0mm	10.0mm	9.4mm
Primary m/d specification	MHT 773	MHT 2100	MHT 1375
Mass of individual primary m/d, nom	27g/m	33g/m	42g/m
Max pull tension, single m/d	200N (20kg)	240N (24kg)	300N (30kg)
Load to cause 15% crush: typical	200N	370N	500N
Min bend radius of primary m/d*	100mm	140mm	120mm

*This radius relates to the m/d capability only, and does not indicate a suitable radius for blowing FU.

1. All m/d sizes are compatible with designated connectors, 10mm and 12mm
2. Max air pressure for blowing, all tubes: 15bar.
3. Storage of unprotected m/ds: Indoors and well shielded from daylight

PE SHEATH:

1. Sheath thickness (all): 1.7mm nominal; including aluminium.
2. The PE sheath shall be coloured (normally black) and light-stabilised.
3. There shall be a continuous aluminium foil under the sheath, and bonded to it.
4. The foil shall have an overlap of 4mm or greater.
5. The sheath thickness measurement does not apply at the foil overlap position.
6. Normal printing includes product ident, metre marks and other data by arrangement.
7. Sheath Removal: using ripcord(s) provided under the sheath

PRODUCT-SPECIFIC DETAILS:

type	OD nom mm	Mass nom g/m	Min Bend Rad mm*	Max Pull force N**	Max Pull force kg**
1DI (10)	13.4	98	180	700	70
2DI (10)	13.4 x 23.4	162	180	1000	100
4DI (10)	27.5	262	370	1700	170
7DI (10)	33.4	368	500	2500	250
1DI (12/10)	15.3	108	200	750	75
2DI (12/10)	15.3 x 27.3	178	200	1400	140
4DI (12/10)	32.4	302	500	2300	230
7DI (12/10)	39.4	413	600	3200	320
1DI (12/9.4)	15.3	117	200	800	80
2DI (12/9.4)	15.3 x 27.3	196	200	1500	150
4DI (12/9.4)	32.4	338	500	2400	240
7DI (12/9.4)	39.4	476	600	3400	340

* After applying pulling tensions, allow time for the pulled product to relax. See Installation manual.

TUBE AND ASSEMBLY TESTS:

1. Crush test: test method IEC 60794-1-2-E3: Procedure to IEC 60794-5
2. Impact test: test method IEC 60794-1-2-E4: Procedure to IEC 60794-5
3. Kink test: test method IEC 60794-1-2-E10: Procedure to IEC 60794-5
4. Flexibility test: test method IEC 60794-1-2-E11: Procedure to IEC 60794-5

Note 1: Diameters and thicknesses are measured to the nearest 0.1mm.
Note 2: 'nominal' data is based on middle-spec, and is for information only, not for inspection purposes.
Note 3: Sketches are for information purposes only, and should not be used for inspection.
Note 4: When interpreting performance data and installing tubes, bundles, or fibre units, it is assumed that the user has been trained by Emtelle.
Note 5: All data is believed to be accurate but
Note 6: Users must establish the suitability of these products for their own applications.