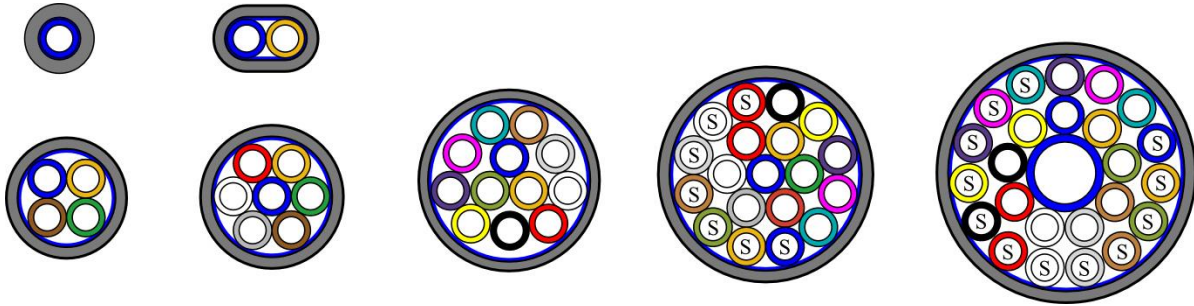


Generic Specification: A Direct Install Blown Fibre Assemblies



GENERIC PRODUCT DESCRIPTION:

Assemblies of PE tubes (3, or 5 or 8mm), 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.

APPROPRIATE FIBRE TYPES:

Any suitable sized Emtelle fibre unit: The 5mm and 8mm bundles will accommodate all FU counts: 2FU, 4FU, 8FU and 12FU. The 3mm bundles will accommodate 2FU and 4FU.

GENERIC DETAILS:

TUBES (at 20°C):

Primary tube outer diameter	mm, nom	3.0	5.0	8.0
Primary tube inner diameter	mm, nom	2.1	3.5	6.0
Diameter of centre tube in 24-way	mm, nom	6	10	15
Max pull tension, single tube	N (kg)	20 (2)	70 (7)	140 (14)
Min bend radius of primary tube*	mm	30	50	80
Centre m/d of 24-way inner diam, nom	mm	6	10	n/a
Centre m/d of 24-way outer diam, nom	mm	4.5	8	n/a
Centre m/d of 24-way - mass, nom	g/m	11.5	27	n/a
Min bend radius of single centre m/d*	mm	60	120	n/a
Max pull tension of single centre m/d	N (kg)	60 (6)	200 (20)	n/a

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

1. All tube sizes are compatible with designated connectors, 3mm, 5mm and 8mm
2. Max air pressure for blowing, all tubes: 15bar.
3. Storage of unprotected m/d's: indoors and well shielded from daylight

PE SHEATH:

1. Sheath thickness (all) : 1.7mm nom; 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

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PRODUCT-SPECIFIC DETAILS:

type	3mm				5mm				8mm			
	OD nom mm	Mass nom g/m	Min Bend Rad mm	Max* Pull force N	OD nom mm	Mass nom g/m	Min Bend Rad mm	Max* Pull force N	OD nom mm	Mass nom g/m	Min Bend Rad mm	Max* Pull force N
1DI	6.4	33	90	250	8.4	49	120	400	11.4	78	150	600
2DI	6.4x9.4	46	90	350	8.4x13.4	77	120	600	11.4x19.4	128	150	1000
4DI	10.6	68	150	500	15.5	118	200	700	22.7	204	300	1500
7DI	12.4	86	170	600	18.4	162	240	1500	27.4	292	370	2000
12DI	15.6	122	220	900	23.8	240	310	1600	36.0	444	550	3200
19DI	18.0	160	250	1200	27.8	329	360	2500	42.4	623	650	4500
24DI	21.4	209	300	1500	33.4	437	500	4000				

* 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.

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