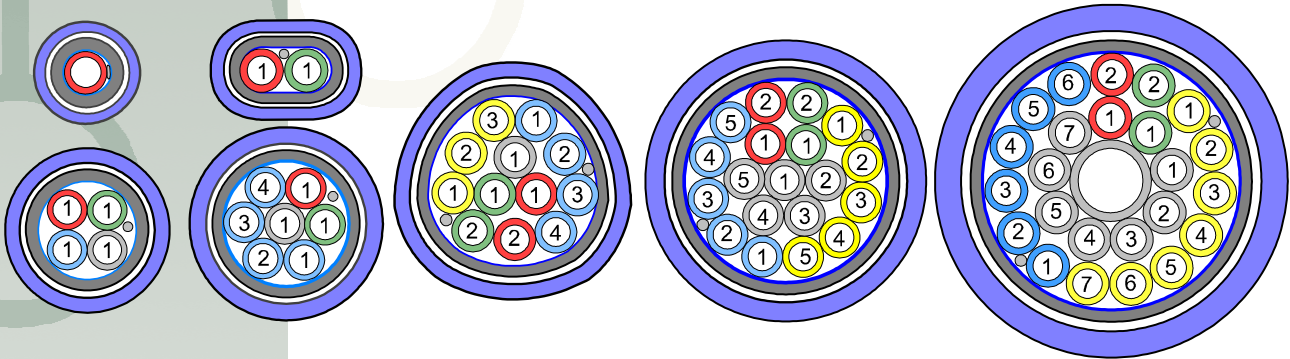




fibreflow™ Blown Fibre Assemblies: Direct Bury Termite Resistant (DBT), 3mm, 5mm and 8mm



GENERIC PRODUCT DESCRIPTION: Assemblies of microducts (3, or 5 or 8mm), each with low friction performance and suitable for fibre unit . Each assembly (bundle) is surrounded by an overlapped aluminium water barrier layer. Over this and bonded to it is a flexible sheath of black outdoor PE. Over the sheath is a layer of nylon 12 which gives mechanical and chemical protection against attack by termites and ants. Cable with such layers are reported as surviving 20 years in Australia. Finally the assembly is protected by a heavy duty PE layer suitable for direct burial, and also preserving the smoothness of the nylon toward termite effectiveness.

APPROPRIATE FIBRE TYPES:

Any suitable sized Ementelle 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:

MICRODUCTS (at 20°C):

outer diameter	mm, nom	3.0	5.0	8.0
inner diameter	mm, nom	2.1	3.5	6.0
Diameter of centre in m/d 24-way	mm, nom	6	10	na
Min bend radius of m/d only*	mm	30	50	80

*This radius does not indicate a suitable radius for blowing FU.

1. All elements are compatible with designated connectors, 3mm, 5mm and 8mm
2. Max air pressure for blowing: 15bar (all sizes).

PE OUTER SHEATH:

1. Sheath thickness is according to diameter.
2. The PE sheath shall be coloured (normally blue) and light stabilised.
3. Normal printing includes product ident, metre marks and other data by arrangement.
4. Sheath Removal: using sheath removal tools, consult Ementelle or see website.

PE INNER SHEATH:

1. Sheath thickness: 1.7mm nom; including aluminium.

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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

ELEMENT 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 |
| 3. Flexibility test: | test method IEC 60794-1-2-E11: | Procedure to IEC 60794-5 |

PRODUCT-SPECIFIC DETAILS:

type	3mm				5mm				8mm			
	OD nom mm	Mass nom g/m	Min* Bend Rad mm	Max** Pull force kg	OD nom mm	Mass nom g/m	Min* Bend Rad mm	Max** Pull force kg	OD nom mm	Mass nom g/m	Min* Bend Rad mm	Max** Pull force kg
1DBT	11.6	104	180/85	80	13.6	136	200/110	110	16.6	189	250/150	140
2DBT	11.6	117	180/85	90	13.6	164	200/110	120	16.6	238	250/150	180
4DBT	15.8	172	240/140	120	20.7	260	320/200	200	28.5	430	430/300	320
7DBT	17.6	209	270/160	160	23.6	328	350/240	260	33.2	559	560/360	440
12DBT	20.8	267	320/200	200	29.6	475	450/310	380	41.8	786	720/540	620
19DBT	23.2	322	350/240	240	33.6	599	570/360	480	48.2	1021	920/720	800
24DBT	27.2	413	410/280	280	39.2	730	670/500	500				

NOTES:

Bend Radius:

*These radius values relate only to the physical cable performance, not to recommended blowing radii. See Installation manual for blowing advice.

*The second bend radius applies after the outer 2 sheaths have been removed.

Force:

** These products are normally buried, not pulled, but pulling is acceptable. After applying pulling tensions, allow time for the pulled product to relax. See Installation manual.

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 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.

Note 7: If products are to be stored outdoors for a long period (1yr+), we advise wrapping in black film to preserve colour depth.