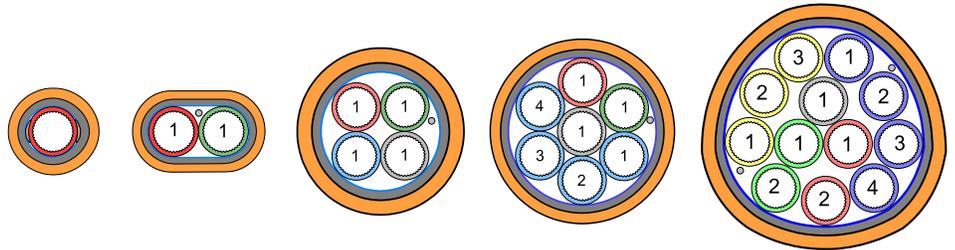


## fibreflow Blown Fibre DB Assemblies, 10mm and 12mm



**GENERIC PRODUCT DESCRIPTION:** Assemblies of 10 or 12mm internally ribbed PE microducts (m/d), each with low friction performance for fibre installation. 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. 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. Finally there is a tough outer PE sheath. These products are designed for direct burial in suitably prepared ground.

### APPROPRIATE FIBRE CABLES:

These DB bundles are made with larger m/ds, to suit small lightweight fibre cables (SM or MM) that are designed for installation by blowing. Emtelle provide such fibre cables, in counts from 24f to 96f. The 12mm bundles can accommodate all these cables, the 10mm all but the 96f.

### GENERIC DETAILS: MICRODUCTS (at 20°C):

Primary m/d outer diameter, nom	<b>10.0mm</b>	<b>12.0mm (std)</b>	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.

### NOTES

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

### PE OUTER SHEATH:

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

### PE INNER SHEATH:

1. Sheath thickness (all): 1.7mm nom; including aluminium.
2. The inner 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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**M/D 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	OD nom mm	Mass nom g/m	Min Bend Rad mm*	Max Pull force N**	Max Pull force kg**
<b>1DB (10/8)</b>	17.2	185	260 / 180	1300	130
<b>2DB (10/8)</b>	17.2 x 27.2	285	260 / 180	2000	200
<b>4DB (10/8)</b>	31.9	450	540 / 370	3000	300
<b>7DB (10/8)</b>	37.8	606	640 / 430	4000	400
<b>12DB (10/8)</b>	49.5	946	940 / 660	6000	600
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<b>1DB (12/10)</b>	19.1	205	280 / 200	1500	150
<b>2DB (12/10)</b>	19.1 x 31.1	331	280 / 200	2400	240
<b>4DB (12/10)</b>	36.8	542	630 / 500	4000	400
<b>7DB (12/10)</b>	43.8	726	750 / 600	5500	550
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1DB (12/9.4)	19.1	214	280 / 200	1500	150
2DB (12/9.4)	19.1 x 31.1	349	280 / 200	2400	240
4DB (12/9.4)	36.8	577	630 / 500	4000	400
7DB (12/9.4)	43.8	787	750 / 600	5500	550

**NOTES on the table:**
**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 sheath has 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 m/ds, bundles, or fibre cables, 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 sheathed products are to be stored outdoors for a long period (1yr+), we advise wrapping in black film to preserve colour depth. Unprotected primary m/ds are best stored indoors.*

*Note 8: This updated specification now incorporates the previous document MHT 1397 (12/10 assemblies)*

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