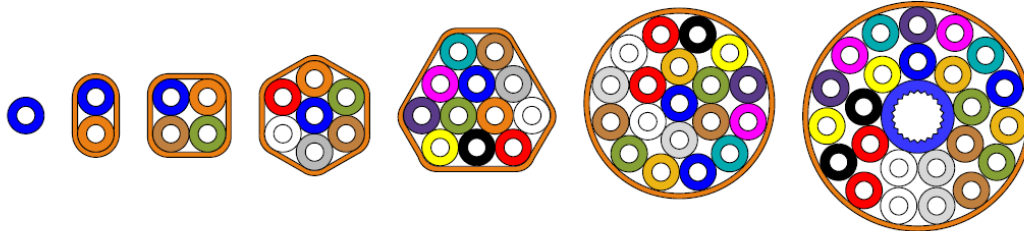




**fibreflow Blown Fibre Generic Specification
DBmf Microducts and Bundles (7/3.5 & 7/4)**



GENERIC PRODUCT DESCRIPTION: Assemblies of strong 7mm polyethylene (PE) microducts (m/d), each with low friction performance. These m/ds will accept all blown fibre products that can be installed into the more traditional 5/3.5 m/ds. There is a choice between 7/3.5 and 7/4.

Each 24-way has a strong 14/10 m/d in the centre. Each assembly (bundle) is surrounded by a thin strong PE sheath. These strong metal-free bundles are designed for direct burial in suitably prepared ground. Burial of the individual m/ds must be in ground free from hard, heavy or sharp material. The 2-way bundles may also be used in slot-cut deployments (eg 12mm slot).

GENERIC DETAILS: SINGLE MICRODUCT (at 20°C):

Primary m/d outer diameter, nom	mm	7.0	7.0	14
Primary m/d inner diameter, nom	mm	3.5	4.0	10
Primary m/d - mass, nominal	g/m	28	25	72
Min bend radius of primary m/d*	mm	100	70	210
Max pull tension, single m/d	kg / N	20 / 200	18 / 180	50 / 500
Crush load (approx) at 10% compression	kg / N	180 / 1800	110 / 1100	100 / 1000

(14/10 is the centre m/d in the 24-way)

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

1. These m/ds are compatible with designated 7mm push-fit connectors.
2. Max air pressure for blowing: 15bar.
3. Storage of unprotected primary m/ds: Indoors and well shielded from daylight.

PRODUCT-SPECIFIC DETAILS:

	type	OD nom, mm	Mass nom, g/m	Min Bend Rad mm	Max* Pull tension Kg / N
7 / 3.5	2DBmf	9.2 x 16.2	97	160	65 / 650
	4DBmf	19.1	170	330	120 / 1200
	7DBmf	23.2	266	400	180 / 1800
	12DBmf	30.7	429	530	300 / 3000
	19DBmf	36.2	640	620	450 / 4500
	24DBmf	44.2	860	750	600 / 6000
7 / 4	2DBmf	9.2 x 16.2	91	160	60 / 600
	4DBmf	19.1	159	330	110 / 1100
	7DBmf	23.2	247	400	170 / 1700
	12DBmf	30.7	395	530	280 / 2800
	19DBmf	36.2	587	620	410 / 4100
	24DBmf	44.2	793	750	560 / 5600

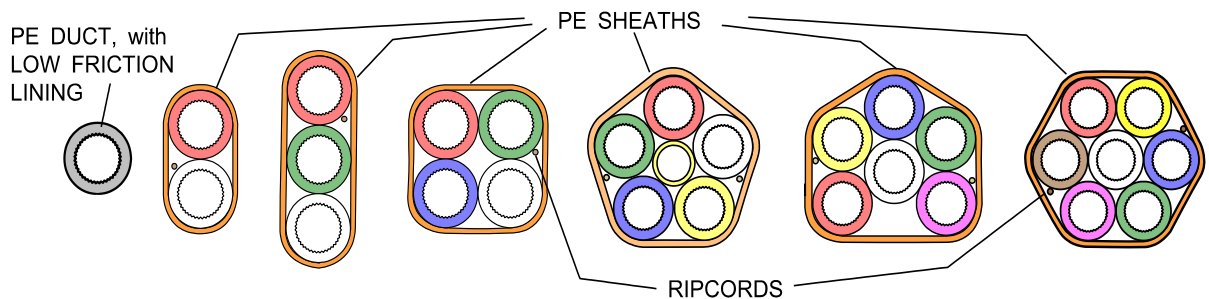
* After applying pulling tensions, allow time for the pulled product to relax. See Installation manual.

Sheath thickness: 1.1mm nominal
Sheath Removal: Use sheath removal tools. Take care not to damage m/d.

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Direct Bury metal-free (16/12mm)



GENERIC PRODUCT DESCRIPTION:

Bundles of rugged 16mm PE mini-ducts to specification MHT 1604, each with low friction performance suitable for fibre cable blowing. Each bundle is surrounded with a flexible sheath of outdoor grade PE. Each individual mini-duct and the bundles are designed for burial in suitably prepared ground. Each sheath is primarily to hold the bundle together, the mini-ducts themselves having excellent physical resistance to the environment. Mini-duct colors may be specified at the time or order.

GENERIC DETAILS: SINGLE MINIDUCT (at 20°C):

Primary m/d outer diameter, nom	mm	16.0
Primary m/d, ribbed, inner diameter, nom	mm	12.0
primary m/d - mass, nominal	g/m	84
Min bend radius of primary m/d* (warm/cold)	mm	160 / 220
Max pull tension, single m/d	N (kg)	850 (85)

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

1. These m/ds are compatible with designated 16mm push-fit connectors.
2. Max air pressure for blowing: 15bar.
3. The 5-way has a standard 12/10 m/d in the centre.
4. Storage of unprotected primary m/ds: Indoors and well shielded from daylight.



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PRODUCT-SPECIFIC DETAILS (all nominal)

type	OD nom mm	Mass, Nom, g/m	Min bend radius mm Warm / cold (<5°C)	Max pull tension*	Crush load N
single	16mm	84	160 / 220	850N / 85kg	500
2DBmf	34 x 18mm	249	180 / 240	1.6kN / 160kg	1000
3DBmf (in-line)	50 x 18mm	363	180 / 240	2.4kN / 240kg	1500
4DBmf	41mm across corners	447	570	3kN / 300kg	1000
5DBmf	45.5mm across corners	580	770	3.8kN / 380kg	1100
6DBmf	50mm across corners	642	850	4.3kN / 430kg	1200
7DBmf	50mm across corners	736	850	4.8kN / 480kg	1300

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

Sheath Removal: Use ripcords installed under sheath.
Longitudinal sheath strippers can also be used to strip the sheath

Radius for blowing: Recommend 1m radius or more (blowing mini-cable) (No smaller than 0.5m radius)

BUNDLE TESTING:

1. Crush: Use test method IEC60794-1-2-E3: Take up any slack, and then increase the load at speed 5mm/min and plot load/compression until the bundle is compressed by 15% of its start 'height'. The load at 5% compression (from the plot) shall not be less than that listed above. This compression does not prevent the free passage of a mini-cable of diameter 10mm through any of the mini-ducts. The 15% does not apply to the 6-way product, since mini-duct movements will occur before true compression has begun.