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**Product Datasheet MHT 1564**  
**Blown Fibre Generic Specification DBmf Bundles (12/8)**



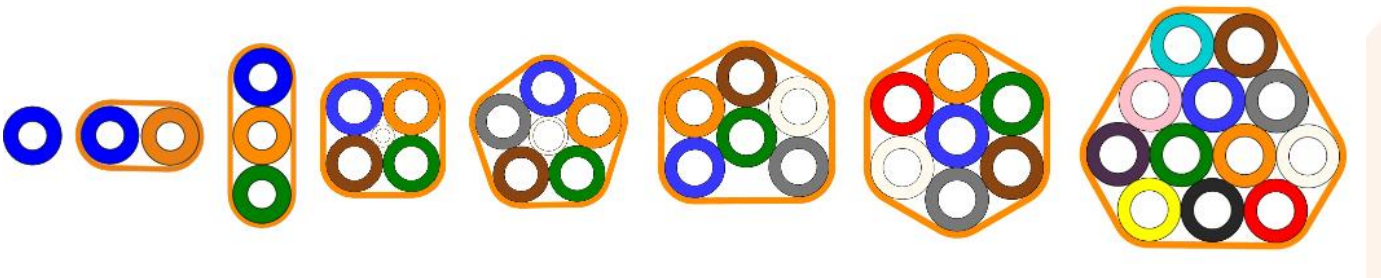
**Product Description**

Assemblies of strong 12/8 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 10/8 m/ds. The 4-way has a 5/3.5 m/d in the centre. The 5-way has a strong 8/3.5 m/d in the centre. Each assembly (bundle) is surrounded by a thin flexible PE sheath. These strong metal-free bundles are designed for direct burial in suitably prepared ground. They can normally be used to create a fibre 'drop' link to a building. The narrow bundles may also be used in slot-cut deployments (eg 15mm slot).

**Product Benefits**

Microducts are tested according to IEC 60794-5	Blowing track: 2000 m Performance confirmed	Em-Liner for Low Friction and best blowing results	UV-Protection up to 2 years in EU	Pressure tight up to 15 bar

**Application and Design**



**Inner surface:**  
 Smooth or ribbed + Em-Liner  
**Colour identification of single ducts:**  
 Translucent with stripes or uni coloured possible

- 1
  - 2
  - 3
  - 4
  - 5
  - 6
  - 7
  - 8
  - 9
  - 10
  - 11
  - 12
  - 13
  - 14
  - 15
- 1 ring

Other colours upon request

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**Generic Details: Single Microduct**

Material	Polyethylene HDPE	
Outer diameter	12.0mm	8.0mm**
Inner diameter	8.0mm	3.5mm
Mass, nominal	60g/m	38g/m
Min. bending radius of primary duct*	120mm	80mm
Max. pull tension, single duct	400N (40 kg)	250N (25 kg)
Crush load at 10 % compression approx.	1600 N (160 kg)	1300 N (130 kg)
Max. Blowing pressure	15 bar	

\*This radius relates to the microduct capability only and does not indicate a good radius for blowing FU.

\*\*8/3.5 is the centre m/d in the 5-way

1. These m/ds are compatible with designated 12 mm push-fit connectors.
2. Max air pressure for blowing: 15 bar.
3. Storage of unprotected primary microducts: Indoors and well shielded from daylight.

**Generic Details: Microduct Bundle**

Material	Polyethylene HDPE
Wall thickness	1.0 mm
Number single ducts	2-12 (+8 mm central duct)

**Product-Specific Details**

Type	Outer Diameter	Mass	Max. Pull Tension (Installation)	Min. Bend Radius
<b>12/8mm</b>				
2-WAY DBMF	14,0 x 26,0 mm	184 g/m	0,90 kN / 90 kg	220 mm
3-WAY DBMF	14,0 x 38,0 mm	267 g/m	1,4 kN / 140 kg	220 mm
4-WAY DBMF	31,0 mm	353 g/m	1,8 kN / 180 kg	440 mm
5-WAY DBMF	34,4 mm	435 g/m	2,4 kN / 240 kg	600 mm
6-WAY DBMF	38,0 mm	466 g/m	2,6 kN / 260 kg	600 mm
7-WAY DBMF	38,0 mm	531 g/m	2,8 kN / 280 kg	650 mm
12-WAY DBMF	51,0 mm	862 g/m	4,8 kN / 480 kg	700 mm

\*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 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

Note 6: Users must establish the suitability of these products for their own applications.

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### Operating Parameters

Installation temperature	-20°C...+40°C
Transportation and storage temperature	-40°C...+60°C
Installation + Blowing ideal	+5°C...+20°C

### Testing

Crush	IEC 60794-1-2-Method E3	Procedure to IEC 60794-5
Impact	IEC 60794-1-2-Method E4	Procedure to IEC 60794-5
Flexibility	IEC 60794-1-2-Method E11	Procedure to IEC 60794-5
Repeated Bend	IEC 60794-1-2-Method E6	Procedure to IEC 60794-5
Kink	IEC 60794-1-2-Method E10	Procedure to IEC 60794-5

### Additional Information

- Emtelle FibreFlow Microducts are compatible with Emtelle 12mm connectors, end caps and gas stops
- Emtelle's Microducts and bundles often exceed IEC60794-5 requirements. If you require precise or higher test results, please contact us for more information
- Bundles on drums are covered with UV-protection foil to ensure 1 year UV-protection plus
- Optionally, the bundles can be supplied with a 0.63mm locating wire (copper, coating 88Ω / km)
- Optionally, the bundles can be manufactured with a thick-walled bundle 2.2mm for higher tensile force and additional protection
- Production with PP sheath possible
- Stripes on the sheath possible
- Customer specific print available
- The sheath can be opened using a suitable sheath removal tool (see installation manual)

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