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Product Datasheet MHT 175

Generic Specification DI Microducts and Bundles

3mm, 5mm and 8mm

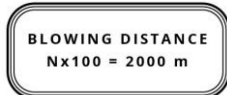


Product Description

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.

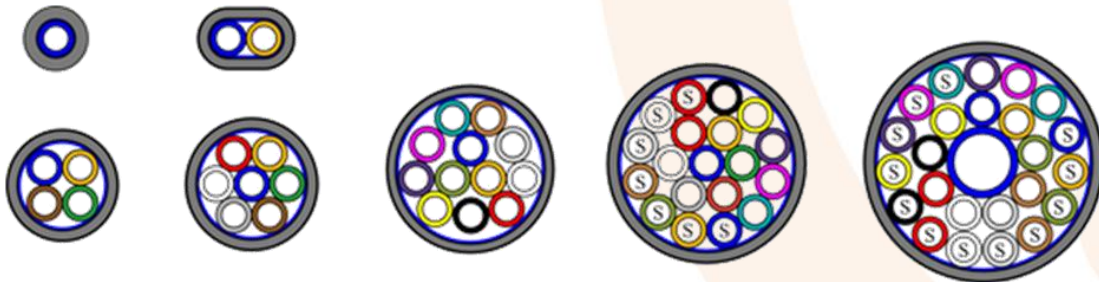
Any suitable sized Emtelle fibre unit: The 5mm and 8mm bundles will accommodate all FU counts: 2FU, 4FU, 8FU, 12FU and 24FU. The 3mm bundles will accommodate 2FU and 4FU.

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 Outer sheath contains 2.5% well dispersed carbon black.	Pressure tight up to 15 bar
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Application and Design

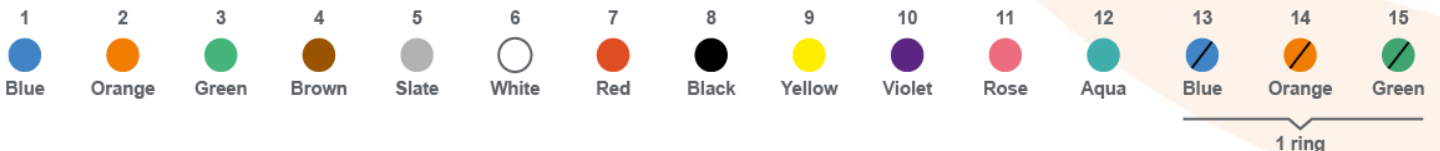


Inner surface:

Smooth or ribbed + Em-Liner

Colour identification of single ducts:

Translucent with stripes or uni coloured possible



Other colours upon request

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Generic Details: Single Microduct

Material	Polyethylene HDPE		
Outer diameter	3.0mm	5.0mm	8.0mm
Inner diameter	2.1mm	3.5mm	6.0mm
Diameter of centre tube in 24-way	6mm	10mm	15mm
Min. bending radius of primary duct*	30mm	50mm	80mm
Max. pull tension, single duct	20N (2 kg)	70N (7 kg)	140N (14 kg)
Max. Blowing pressure	15 bar		

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

1. These microducts are compatible with designated 3mm, 5mm and 8mm push-fit connectors.
2. Max air pressure for blowing: 15bar.
3. Storage of unprotected primary microducts: Indoors and well shielded from daylight.

Generic Details: Microduct Bundle

Material	Polyethylene, light stabilised (normally black)
Wall thickness	1.7mm nominal including aluminium
Sheath Removal	Using Ripcord(s) provided under sheath
Number single ducts	1-24 (+central duct)

Product-Specific Details

Type	Outer Diameter	Mass	Max. Pull Tension* (Installation)	Min. Bend Radius
3/2.1mm				
1-WAY DI	6.4 mm	33 g/m	250 N / 25 kg	90 mm
2-WAY DI	6.4 x 9.4 mm	46 g/m	350 N / 35 kg	90 mm
4-WAY DI	10.6 mm	68 g/m	500 N / 50 kg	150 mm
7-WAY DI	12.4 mm	86 g/m	600 N / 60 kg	170 mm
12-WAY DI	15.6 mm	122 g/m	900 N / 90 kg	220 mm
19-WAY DI	18.0 mm	160 g/m	1200 N / 120 kg	250 mm
24-WAY DI	21.4 mm	209 g/m	1500 N / 150 kg	300 mm
5/3.5mm				
1-WAY DI	8.4 mm	49 g/m	400 N / 40 kg	120 mm
2-WAY DI	8.4 x 13.4 mm	77 g/m	600 N / 60 kg	120 mm
4-WAY DI	15.5 mm	118 g/m	700 N / 70 kg	200 mm
7-WAY DI	18.4 mm	162 g/m	1500 N / 150 kg	240 mm
12-WAY DI	23.8 mm	240 g/m	1600 N / 160 kg	310 mm
19-WAY DI	27.8 mm	329 g/m	2500 N / 250 kg	360 mm
24-WAY DI	33.4 mm	437 g/m	4000 N / 400 kg	500 mm
8/6mm				
1-WAY DI	11.4 mm	78 g/m	600 N / 60 kg	150 mm
2-WAY DI	11.4 x 19.4 mm	128 g/m	1000 N / 100 kg	150 mm
4-WAY DI	22.7 mm	204 g/m	1500 N / 150 kg	300 mm
7-WAY DI	27.4 mm	292 g/m	2000 N / 200 kg	370 mm
12-WAY DI	36.0 mm	444 g/m	3200 N / 320 kg	550 mm
19-WAY DI	42.4 mm	623 g/m	4500 N / 450 kg	650 mm

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Notes:

Bend Radius:

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

Force:

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

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
Kink	IEC 60794-1-2-Method E10	Procedure to IEC 60794-5
Bend	IEC 60794-1-2-Method E11	Procedure to IEC 60794-5

Additional Information

- Emtelle FibreFlow Microducts are compatible with Emtelle 3mm, 5mm and 8mm 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.
- Stripes on the sheath possible
- Customer specific print available



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