



**Emtelle UK Ltd.**  
 Haughhead  
 Hawick TD9 8LF  
 United Kingdom

info@emtelle.com  
 emtelle.com

**Product Datasheet MHT 2802**  
**Generic Specification DB – with foil Microducts and Bundles**



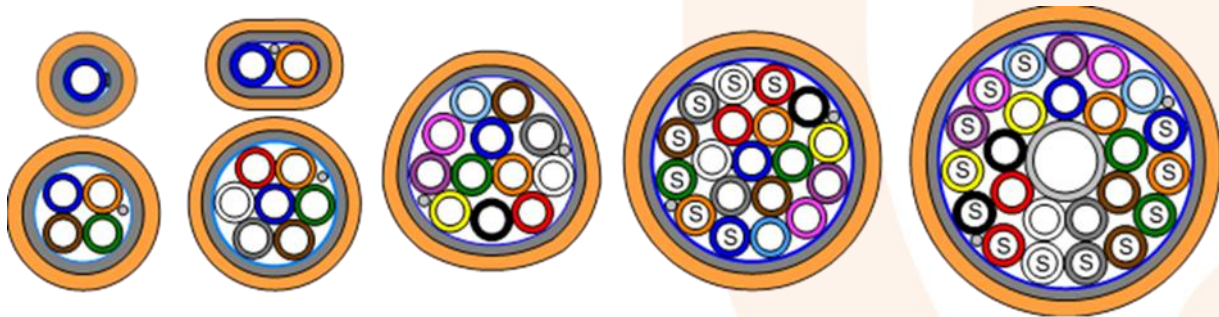
**Product Description**

Assemblies of PE microducts (m/d) each with low friction performance. 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. Finally there is a tough outer HDPE sheath. These products are intended for direct burial in suitably prepared ground, and then field assembled during which optical fibres (see below) are installed.

**Product Benefits**

Microducts are tested according to IEC 60794-5	Blowing track: up to 2000m, route and fibre/cable dependent	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
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18	19	20	21	22	23	24
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Other colours upon request

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**Generic Details: Microduct Bundle**

Material	Polyethylene, Light stabilized (normally orange)
Wall thickness	1.7mm nominal including aluminium
Sheath removal	Using Sheath removal tools
Number single ducts	1-24

**Product-Specific Details**

Type	Outer Diameter	Mass	Max. Pull Tension (Installation)	Min. Bend Radius	Generic Specification
<b>3/2.1mm</b>					
1-WAY DB	10.2 mm	80 g/m	0.5 kN / 50 kg	90 mm	MHT113
2-WAY DB	10.2 x 13.2 mm	104 g/m	0.7 kN / 70 kg	90 mm	MHT113
4-WAY DB	14.4 mm	139 g/m	1 kN / 100 kg	150 mm	MHT113
7-WAY DB	16.2 mm	166 g/m	1.1 kN / 110 kg	170 mm	MHT113
12-WAY DB	19.4 mm	220 g/m	1.5 kN / 150 kg	220 mm	MHT113
19-WAY DB	21.8 mm	272 g/m	2 kN / 200 kg	250 mm	MHT113
24-WAY DB + 1-WAY 6/4.5	25.2 mm	340 g/m	2.3 kN / 230 kg	300 mm	MHT113
<b>5/3.5mm</b>					
1-WAY DB	12.2 mm	71 g/m	0.5 kN / 50 kg	100 mm	MHT113
2-WAY DB	12.2 x 17.2mm	154 g/m	1.2 kN / 120 kg	120 mm	MHT113
4-WAY DB	19.3 mm	216 g/m	1.6 kN / 160 kg	200 mm	MHT113
7-WAY DB	22.2 mm	278 g/m	2 kN / 200 kg	240 mm	MHT113
12-WAY DB	28.2 mm	411 g/m	2.8 kN / 280 kg	310 mm	MHT113
19-WAY DB	32.2 mm	526 g/m	4 kN / 400 kg	360 mm	MHT113
24-WAY DB + 1-WAY 10/8	37.8 mm	671 g/m	5 kN / 500 kg	500 mm	MHT113
<b>8/6mm</b>					
1-WAY DB	15.2 mm	162 g/m	1 kN / 100 kg	150 mm	MHT113
2-WAY DB	15.2 x 23.2 mm	232 g/m	1.5 kN / 150 kg	150 mm	MHT113
4-WAY DB	27.1 mm	368 g/m	2.5 kN / 250 kg	300 mm	MHT113
7-WAY DB	31.8 mm	487 g/m	3.5 kN / 350 kg	370 mm	MHT113
12-WAY DB	40.4 mm	698 g/m	4.8 kN / 480 kg	550 mm	MHT113
19-WAY DB	47.8 mm	987 g/m	7 kN / 700 kg	650 mm	MHT113
<b>10/8mm</b>					
1-WAY DB	17.2 mm	185 g/m	1.3 kN / 130 kg	180 mm	MHT167
2-WAY DB	17.2 x 27.2 mm	285 g/m	2 kN / 200 kg	180 mm	MHT167
4-WAY DB	31.9 mm	450 g/m	3 kN / 300 kg	370 mm	MHT167
7-WAY DB	37.8 mm	606 g/m	4 kN / 400 kg	430 mm	MHT167
12-WAY DB	49.5 mm	946 g/m	6 kN / 600 kg	660 mm	MHT167
<b>12/10mm</b>					
1-WAY DB	19.1 mm	205 g/m	1.5 kN / 150 kg	200 mm	MHT167
2-WAY DB	19.1 x 31.1 mm	331 g/m	2.4 kN / 240 kg	200 mm	MHT167
4-WAY D	36.8 mm	542 g/m	4 kN / 400 kg	500 mm	MHT167
7-WAY DB	43.8 mm	726 g/m	5.5 kN / 550 kg	600 mm	MHT167

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**12/9.4mm**

1-WAY DB	19.1 mm	214 g/m	1.5 kN / 150 kg	200 mm	MHT167
2-WAY DB	19.1 x 31.1 mm	349 g/m	2.4 kN / 240 kg	200 mm	MHT167
4-WAY DB	36.8 mm	577 g/m	4 kN / 400 kg	500 mm	MHT167
7-WAY DB	43.8 mm	787 g/m	5.5 kN / 550 kg	600 mm	MHT167

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:

\*\*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.

**Operating Parameters**

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

**Testing**

Tensile	IEC 60794-1-2-Method E1	Procedure to IEC 60794-5
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

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