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Product Datasheet MHT 2675 DBmf Bundles (10/6) MULTIFU



Product Description

Assemblies of 10/6 polyethylene (PE) microducts (m/d), each containing up to a 12 fibre G657 fibre unit. The tube assemblies are surrounded by a tough outer sheath and are suitable for direct burial into suitably prepared ground. Microduct colours follow DIN configuration up to microduct twelve then the colours repeat but have 4 x beige stripes to differentiate.

Refer to MHT2185E-DIN for full fibre unit specs (exact fibre unit to be specified at product set up).

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
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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

- 1 Blue
 - 2 Orange
 - 3 Green
 - 4 Brown
 - 5 Slate
 - 6 White
 - 7 Red
 - 8 Black
 - 9 Yellow
 - 10 Violet
 - 11 Rose
 - 12 Aqua
 - 13 Blue
 - 14 Orange
 - 15 Green
- } 1 ring

Other colours upon request

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Generic Details: Single Microduct

Material	Polyethylene HDPE
Outer diameter	10.0 mm
Inner diameter	6.0 mm
Mass, nominal	48 g/m
Min. bending radius of primary duct*	120mm
Max. pull tension, single duct	400 N (40 kg)
Crush load at 10 % Compression	2000 N (200 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 m/ds are compatible with designated 10 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	1.1mm
Number single ducts	2-24

Product-Specific Details

Type	Outer Diameter	Mass	Max. Pull Tension (Installation)	Min. Bend Radius
7/3.5mm				
2-WAY DBMF	12,2 x 22,2 mm	153 g/m	1,4 kN / 140 kg	200 mm
7-WAY DBMF	32,2 mm	435 g/m	4,0 kN / 400 kg	550 mm
8-WAY DBMF	38,7 mm	463 g/m	4,25 kN / 425 kg	697 mm
12-WAY DBMF	42,8 mm	737 g/m	6,5 kN / 650 kg	750 mm
14-WAY DBMF	46,1 mm	817 g/m	7,5 kN / 750 kg	876 mm
19-WAY DBMF	50,3 mm	1024 g/m	9,5 kN / 950 kg	956 mm
24-WAY DBMF	62,2 mm	1154 g/m	10,5 kN / 1050 kg	1080 mm

Remember with MULTIFU the tube bundles now contain fibre units inside them, precautions must be taken to not to over-stretch the fibre unit when pulling the tube bundles. The following guidelines should be observed.

1. Pay-off must be tension-free, so assist drum movement and minimise tension on the tube bundle/fibre.
2. During installation, tension must be confined to the tube bundle, and there must be no tension on the fibre. Do not fix the fibre unit to the microduct at the pulling end. It must be free to move inside the microduct.
3. Excess tension will cause the fibres to disappear inside the stretched microduct/tube bundles, although this should not adversely affect the fibres.
4. Cut microduct to length including excess length to permit fibre splicing. Fit end caps until splicing is imminent.
5. There may be an excess length of fibre unit inside the individual microduct due to the manufacturing process. It is recommended that any excess fibre unit is gently pulled by hand from the microduct before splicing.

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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
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 10 mm 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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