

## Direct Bury Duct Assemblies – MPB 302 3+M

### Ribbonet® Microducts



### Features

- Heavy-duty design
- 1, 2, 4, 7, 12, 19 and 24 sub-duct options
- Low friction inner surface for maximum installation lengths
- Excellent environmental properties

### Application

The tight protected duct assemblies consist of a number of microducts with an inner low friction, antistatic surface that enables installation of air-blown fiber.

The duct assemblies are bundled with dual sheath and a moisture barrier made of aluminum. The design makes the ducts suitable for installation directly into the ground in environments where the duct is constantly exposed to water or for areas with ground frost. The aluminum foil can also be used for tracing purposes. The round structure enables easy splicing and sealing at joints and branch locations. The microducts are optimized for best performance in combination with the Hexatronic Ribbonet® Air Blown Fiber Unit (ABF).

### Design

The duct assemblies are available in seven versions with 1 to 24 sub-ducts. Each microduct has an outer/inner diameter of 5/3.5 mm.

### Marking

Duct assemblies have markings showing the tube length. The individual microducts are identified by their color. 12 different colors are used. For duct assemblies with >12 ducts, the ducts are marked with either “1” or “2” to separate ducts with duplicate colors.



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### Typical Data

#### Temperature range

Operation ..... –40 to +60°C  
 Storage ..... –40 to +60°C  
 Installation ..... –20 to +50°C

#### Material

Micro ducts and outer sheath ..... HDPE  
 Inner sheath ..... MDPE  
 All materials are halogen-free

### Conformance








Abrasion ..... IEC 60794-1-2-E2B method 1  
 Kink ..... IEC 60794-1-2-E10, 20 x outer diameter  
 Impact ..... IEC 60794-1-2-E4  
 Crush ..... IEC 60794-1-2-E3, 450 N  
 Tensile ..... IEC 60794-1-2-E1  
 Bend ..... IEC 60794-1-2-E11  
 Torsion ..... IEC 60794-1-2-E7  
 Flexibility ..... IEC 60794-1-2-E8

### Delivery Information

Supplied lengths ..... 500, 1000, 2000, 4000\* m

\* 24-way assembly, max 2000 m

### Ordering Information

TYPE	PRODUCT NUMBER	DIAMETER OUTER SHEATH (MM)	WEIGHT (G/M)	MIN BEND RADIUS** (MM)	MAX PULLING FORCE* (N)	MICRODUCT COLORS LAYERS (1,2)
1-way 	MPB 302 30/1M	12.2	110	120	200	Orange
2-way 	MPB 302 31/2M	17.2x12.2	160	170	300	Orange, Yellow
4-way 	MPB 302 32/4M	19.3	230	190	600	Orange, Yellow, White, Red
7-way 	MPB 302 33/7M	22.2	290	220	1000	Orange, Yellow, White, Red, Blue, Green, Violet
12-way 	MPB 302 34/12M	28.8	380	290	1800	Orange, Yellow, White, Red, Blue, Green, Violet, Brown, Turquoise, Grey, Pink, Black
19-way 	MPB 302 35/19M	32.1	550	320	2800	1, 2: Orange, Yellow, White, Red 1: Blue, Green, Violet, Brown, Turquoise, Grey, Pink, Black
24-way 	MPB 302 36/24M	38.0	710	380	3600	1, 2: Orange, Yellow, White, Red, Blue, Green, Violet, Brown, Turquoise, Grey, Pink, Black Center: Orange

\* Temporarily, unloaded, permanent (one turn) and during installation

\*\* During installation