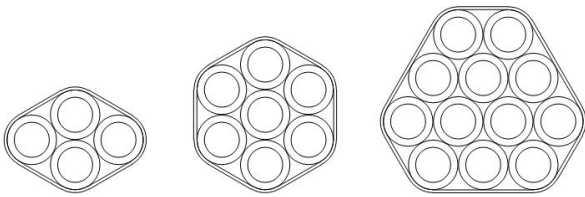


## Direct Install Duct Assemblies, Slim – MPB 302 93+

### Ribbonet® Microducts



### Features

- Extra slim design for tight ducts
- 4, 7 and 12 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.

These duct assemblies are designed with an extra slim PE sheath. The design makes the duct assemblies especially suitable for installation into narrow existing pipes or pipes occupied with cables or other obstacles. The microducts are optimized for best performance in combination with the Hexatronic Ribbonet® Air Blown Fiber units.

The duct assemblies are available in three versions with 4, 7 or 12 sub-ducts. Each microduct has an outer/inner diameter of 5/3.5 mm. The assemblies come in different colors for easy identification.

### Marking

The duct assemblies have markings showing the tube length. The individual microducts are identified by their color (S12 color code system).



## Direct Install Duct Assemblies, Slim – MPB 302 93

### Typical Data

#### Temperature range

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

#### Material

Microducts..... HDPE  
 Sheath..... HDPE  
 All materials are halogen-free

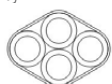

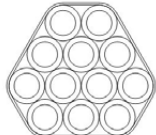
### Conformance

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, 100 N  
 Tensile..... IEC 60794-1-2-E1  
 Bend..... IEC 60794-1-2-E11  
 Torsion..... IEC 60794-1-2-E7  
 Flexibility..... IEC 60794-5-20

### Delivery Information

Supplied lengths..... 1000 m

### Ordering Information

Type	Product Number	Reel Length (m)	Dimensions (mm)	Weight (g/m)	Min Bend Radius (mm)	Max Pulling Force (N)	Sheath Color
4-way 	2/MPB 302 93/4M-1 8/MPB 302 93/4M-1	1000	14.3 x 10.6	38	165	600	Red Black
7-way 	1/MPB 302 93/7M-1 6/MPB 302 93/7M-1	1000	15.6	68	240	1000	Green Violet
12-way 	MPB 302 93/12M-1 8/MPB30293/12M-1	1000	20.6 x 18.6	114	315	1600	Orange Black