

## Indoor Microduct Assemblies – OFNR

### 5 mm System – MPB 302 08



#### Features

- Halogen-free, flame-retardant
- Riser Approved, UL1666 OFNR
- 1, 4, 7, and 12 sub-duct options

#### Application

The indoor 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 microducts are optimized for best performance in combination with the Hexatronic Ribbonet® Air Blown Fiber Units.

#### Design

The microducts and duct assemblies are made of halogen-free, flame-retardant polymer. The ducts are designed for indoor use (Riser) and verified according to UL 1666 Riser Cable Flame Test, OFNR. For standard indoor ducts specified according to IEC specifications, see product information 28701-MPB3020+.

The duct assemblies are available in six versions with 1 to 12 sub-ducts (microducts). Each microduct has an outer/inner diameter of 5/3.5 mm. The flame retardant properties are verified according to UL1666 OFNR Riser, as well as all relevant IEC standards.

#### Marking

The duct assemblies are marked in accordance with the requirements of the Standard for Optical Fiber Cables, UL 1651. In addition to this, the tube length is marked in meters. The individual microducts are numbered.



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### Typical Data

#### Temperature range

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

#### Material

Halogen-free, flame-retardant polyolefine, white.

### Delivery Information

Supplied lengths ..... 500, 1000, 2000 m

### Conformance\*

UL:  
 UL 1666, OFNR Riser Cable Flame Test  
 UL 1651, 2nd Edition and CSA C22.2 No. 232.–Nov 1998 Ed.

IEC:

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

Flammability ..... IEC60332-3-24, IEC60332-1\*\*  
 Smoke dens ..... IEC61034-2\*\*  
 Acidity/Halogen contents ..... IEC60754-1/-2

Toxicity ..... DEFSTAN 02713

\* Refers to empty ducts and ducts installed with standard versions of Hexatronic air blown fiber units.

\*\* Valid for multi-duct assemblies only (MPB 302 08/4 - /12)

### Ordering Information

TYPE	PRODUCT NUMBER	DIAMETER OUTER SHEATH (MM)	WEIGHT (G/M)	MIN BEND RADIUS* (MM)	MAX PULLING FORCE** (N)
1-way 	MPB 302 08/1U	5	16	50	60
4-way 	MPB 302 08/4U	12.2x12.2	130	150	400
7-way 	MPB 302 08/7U	17.2	200	220	600
12-way 	MPB 302 08/12U	22.9	310	300	950

\* The minimum bending radius specified in the product data sheet defines the radius to which the duct may safely be bent. However, in order to reach long blowing lengths, it is recommended to use a larger bending radius. As a rule of thumb, the bending radius for optimal blowing performance is approximately 30 times the outer diameter of the multiduct, and approximately 25 times the outer diameter of the single duct.

\*\* During installation