

# Microduct Assembly 3/2 mm Indoor – Standard Grade

FRD 3/2 mm 1-24 -way SG

---

## Features

- For indoor installation
- Small or discrete design
- Minimal cross section minimizes the need of large drilling holes
- 3/2 mm microducts
- Halogen-free, flame-retardant, standard grade
- 1, 7, 12 or 24 over-sheathed ducts
- Low friction inner surface for maximum installation lengths

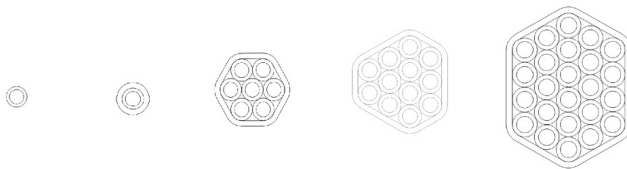
## Application

This series of duct assemblies consist of ultra slim microducts made of halogen free, flame retardant material. The slim design enables installation virtually in any existing risers in Multi Dwelling Units. The assemblies consist of a number of Microducts with an inner low friction, antistatic surface that enables installation of air blown fibers.

## Design

The duct assemblies are available in several versions from 1 to 24 microducts . Each microduct has an outer/inner diameter of 3/2.1 mm. The outer sheath is made of halogen-free, flame-retardant polymer. One unsheathed single duct version for minimal cross section is available for installation in existing external protective microducts or sheaths.

## Product Information



**Microducts:** Polyethylene

**Sheath:** Halogen-free polyolefin

## Technical Information

<b>Temperature, Operation [°C]</b>	-20 to +60
<b>Temperature, Storage [°C]</b>	-20 to +60
<b>Temperature, Installation [°C]</b>	-20 to +50
<b>Reaction to Fire</b>	IEC60332-1

**Conformance**

**Abrasion:** IEC 60794-1-2-E2B(1)  
**Kink:** IEC 60794-1-2-E10, 20 x outer diameter  
**Impact:** IEC 60794-1-2-E4  
**Crush:** IEC 60794-1-2-E3  
**Tensile:** IEC 60794-1-2-E  
**Bend:** IEC 60794-1-2-E11A  
**Torsion:** IEC 60794-1-2-E  
**Flexibility:** IEC 60794-1-2-E8  
**Inner Clearance:** IEC 60794-5-20, IEC 60794-5-10, Ann. D  
**Flammability:** IEC60332-1

**Marking**

Duct assemblies have markings showing the tube length.  
The individual microducts are numbered.

**Installation Notes**

Flammability according to IEC60332-1 refers to sheathed empty ducts and sheathed ducts installed with typical versions of Hexatronic blown fiber units.  
Unsheathed 1-duct is not flame retardant and shall be installed in flame retardant cable channel.

**Articles 5**

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct 3/2.1 OD</b> MPB30243/01	White	3/2.1	30	32	500	0.4	3	5	500/K3, 8000/K6
<b>Microduct 1x3/2.1 ID Std Grade, Sheathed</b> MPB30243/1	White	1x3/2.1	65	100	450	3	5.2	20	500/K4
<b>Microduct 7x3/2.1 ID Std Grade</b> MPB30243/7	White	7x3/2.1	–	300	450	3	11.2	60	500/K7
<b>Microduct 12x3/2.1 ID Std Grade</b> MPB30243/12	White	12x3/2.1	–	500	450	3	14.2	100	500/K8
<b>Microduct 24x3/2.1 ID Std Grade</b> MPB30243/24	White	24x3/2.1	–	800	450	3	20.2 × 15.8	200	1000/K11, 500/K9