



# Microduct Assembly 5/3.5 mm

TND 5/3.5 mm 4-12 -way S12

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## Features

- For installation in existing ducts
- Extra slim
- 4, 7 or 12 over-sheathed ducts
- 5/3.5 mm microducts
- Low friction inner surface for maximum installation lengths

## 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.

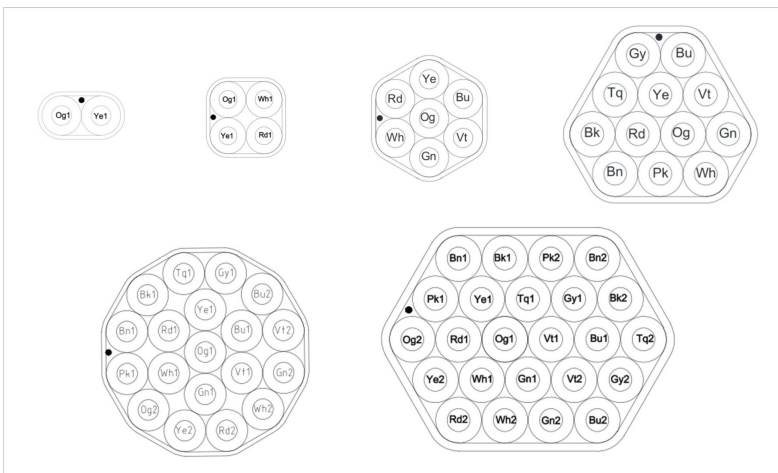
These duct assemblies are designed with an extra slim PE sheath. The design makes the duct assemblies especially suitable for installation into narrow existing ducts (pipes) or pipes occupied with cables or other obstacles.

## Design

The duct assemblies are available in several versions with 4, 7 or 12 microducts. Each microduct has an outer/inner diameter of 5/3.5 mm. The microducts have a solid low-friction inner surface for best performance.

The assemblies comes in different colors for easy identification.

## Product Information



Microducts and outer sheath: HDPE

## Technical Information

<b>Color Code</b>	S12
<b>Temperature, Operation [°C]</b>	-40 to +60
<b>Temperature, Storage [°C]</b>	-40 to +60
<b>Temperature, Installation [°C]</b>	-20 to +50
<b>Conformance</b>	<p><b>Abrasion:</b> IEC 60794-1-2-E2B(1)</p> <p><b>Kink:</b> IEC 60794-1-2-E10, 20 x outer diameter</p> <p><b>Impact:</b> IEC 60794-1-2-E4</p> <p><b>Crush:</b> IEC 60794-1-2-E3</p> <p><b>Tensile:</b> IEC 60794-1-2-E</p> <p><b>Bend:</b> IEC 60794-1-2-E11A</p> <p><b>Torsion:</b> IEC 60794-1-2-E</p> <p><b>Flexibility:</b> IEC 60794-1-2-E8</p> <p><b>Inner Clearance:</b> IEC 60794-5-20, IEC 60794-5-10, Ann. D</p>

**Marking**

The duct assemblies have markings showing the tube length.

The individual microducts are identified by their color according to the S12 standard.

The assemblies are available in various sheath colors for easy identification.

## Technical Details

S12 Mikrodotter 1-12 Microducts 1-12	1	2	3	4	5	6	7	8	9	10	11	12	
	Orange	Gul Yellow	Röd Red	Vit White	Grön Green	Violett Violet	Blå Blue	Grå Grey	Turkos Turquoise	Svart Black	Brun Brown	Rosa Pink	
	S12 Mikrodotter 1-24 Microducts 1-24	1	2	3	4	5	6	7	8	9	10	11	12
		Orange 1	Gul 1 Yellow 1	Röd 1 Red 1	Vit 1 White 1	Grön 1 Green 1	Violett 1 Violet 1	Blå 1 Blue 2	Grå 1 Grey 1	Turkos 1 Turquoise 1	Svart 1 Black 1	Brun 1 Brown 1	Rosa 1 Pink 1
		13	14	15	16	17	18	19	20	21	22	23	24
		Orange 2	Gul 2 Yellow 2	Röd 2 Red 2	Vit 2 White 2	Grön 2 Green 2	Violett 2 Violet 2	Blå 2 Blue 2	Grå 2 Grey 2	Turkos 2 Turquoise 2	Svart 2 Black 2	Brun 2 Brown 2	Rosa 2 Pink 2

S12 Color Code Chart for Microduct Assemblies

## Articles 18

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct 4x5/3.5 OG S12 DI Slim</b> MPB30293/4M	Orange	4x5/3.5	–	–	–	0.175	1000/K9
<b>MD 4x5/3.5 OG DI S12 Slim 1000 m</b> MPB30293/4M-1	Orange	4x5/3.5	–	–	–	0.175	1000/K9
<b>Microduct 4x5/3.5 RD S12 DI Slim</b> 2/MPB30293/4M	Red	4x5/3.5	165	600	15 × 11	175	1000/K9
<b>MD 4x5/3.5 RD S12 DI Slim 1000 m</b> 2/MPB30293/4M-1	Red	4x5/3.5	165	600	15 × 11	175	1000/K9
<b>Microduct 4x5/3.5 BK S12 DI Slim</b> 8/MPB30293/4M	Black	4x5/3.5	165	600	15 × 11	175	500/K7, 1000/K9
<b>MD 4x5/3.5 BK S12 DI Slim 1000 m</b> 8/MPB30293/4M-1	Black	4x5/3.5	165	600	15 × 11	175	1000/K9
<b>Microduct 7x5/3.5 OG S12 DI Slim</b> MPB30293/7M	Orange	7x5/3.5	–	–	–	0.21	1000/K10
<b>MD 7x5/3.5 OG DI S12 Slim 1000 m</b> MPB30293/7M-1	Orange	7x5/3.5	–	–	–	0.21	1000/K10
<b>Microduct 7x5/3.5 GN S12 DI Slim</b> 1/MPB30293/7M	Green	7x5/3.5	240	1000	16	210	1000/K10
<b>MD 7x5/3.5 GN S12 DI Slim 1000 m</b> 1/MPB30293/7M-1	Green	7x5/3.5	240	1000	16	210	1000/K10
<b>Microduct 7x5/3.5 VT S12 DI Slim</b> 6/MPB30293/7M	Violet	7x5/3.5	240	1000	16	210	1000/K10
<b>Microduct 7x5/3.5 VT S12 DI Slim 1000 m</b> 6/MPB30293/7M-1	Violet	7x5/3.5	240	1000	16	210	1000/K10
<b>Microduct 7x5/3.5 BK S12 DI Slim</b> 8/MPB30293/7M	Black	7x5/3.5	240	1000	16	210	500/K8, 1000/K10
<b>MD 7x5/3.5 BK S12 DI Slim 500 m</b> 8/MPB30293/7M-2	Black	7x5/3.5	240	1000	16	210	500/K8
<b>Microduct 12x5/3.5 OG S12 DI Slim</b> MPB30293/12M	Orange	12x5/3.5	315	1600	21	320	1000/K12
<b>MD 12x5/3.5 OG S12 DI Slim 1000 m</b> MPB30293/12M-1	Orange	12x5/3.5	315	1600	21	320	1000/K12
<b>Microduct 12x5/3.5 BK S12 DI Slim</b> 8/MPB30293/12M	Black	12x5/3.5	315	1600	21	320	500/K10, 1000/K12
<b>MD 12x5/3.5 BK S12 DI Slim 1000 m</b> 8/MPB30293/12M-1	Black	12x5/3.5	315	1600	21	320	1000/K12