



Microduct Assembly 5/3.5 mm

TPD 5/3.5 mm 1-26 -way S12

Features

- For installation in existing ducts
- 1, 2, 4, 7, 12, 19, 24 or 26 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 fibers. The duct assemblies are bundled with a single HDPE sheath depending on configuration. The design makes the duct assemblies especially suitable for installation into narrow existing ducts (pipes) or pipes occupied with cables or other obstacles. The round structure enables easy splicing and sealing at joints and branch locations.

Design

The duct assemblies are available in several versions with 1 to 26 microducts.

Each microduct has an outer/inner diameter of 5/3.5 mm. These are suitable for installation of air blown fibers. The center duct of 24 and 26-way assemblies is 10/8 resp. 12/10 mm and can be used for blowing in a micro cable.

Product Information

Microducts and outer sheath: HDPE

Technical Information

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

Marking

Duct assemblies have markings showing the tube length. The individual microducts are numbered and also identified by their color and position in the bundle according to the S12 standard. The assemblies are available in various sheath colors for easy identification.

Technical Details

S12 Mikroör 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 Mikroör 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 9

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 1x5/3.5 DI S12 MPB30245/1M	Black	1x5/3.5	120	150	450	—	7.4	34	1000/K6, 2000/K8, 4000/K10, 500/K5
Microduct 2x5/3.5 DI S12 MPB30245/2M	Black	2x5/3.5	170	250	—	—	12.2 × 7.2	56	1000/K8, 500/K7, 4000/K12, 2000/K10
Microduct 4x5/3.5 DI S12 MPB30245/4M	Black	4x5/3.5	190	400	1000	3	14.9	112	4000/K18, 500/K9, 1000/K11, 2000/K14
Microduct 7x5/3.5 DI S12 MPB30245/7M	Black	7x5/3.5	220	600	1000	3	18.2	159	1000/K12, 500/K10, 4000/K20, 2000/K16
Microduct 9x5/3.5+1x10/8 DI S12 MPB30245/9M	Black	9x5/ 3.5+1x10/8	—	—	—	—	—	195	2000/K20

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Installation [N]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 12x5/3.5 DI S12 MPB30245/12M	Black	12x5/3.5	290	1000	1000	3	23.1	240	4000/K24, 500/K12, 1000/K14, 2000/K20	
Microduct 19x5/3.5 DI S12 MPB30245/19M	Black	19x5/3.5	320	1700	1000	3	27.5	332	3000/K24, 500/K12, 1000/K16, 2000/K22	
Microduct 1x10/8+24x5/3.5 DI S12 MPB30245/24M	Black	1x10/ 8+24x5/ 3.5	380	2100	1000	3	33	466	1000/K20, 500/K14, 2000/K24	
Microduct 26x5/3.5 DI S12 OG MPB30245/26M	Orange	26x5/3.5	360	4400	1000	3	35.8	475	—	