



Microduct Assembly 5/3.5 mm

TPD 5/3.5 mm 1-26 -way S12

Features

- For direct burial
- 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 or nano cables. The duct assemblies are bundled with a single or dual HDPE sheath depending on configuration. The design makes the ducts suitable for installation directly into the ground. 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	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

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 25

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 DB S12 RD 2/MPB30244/1M	Red	1x5/3.5	120	150	2000	6	9.9	67	1000/K7, 2000/K9, 4000/K12, 500/K6
Microduct 1x5/3.5 DB S12 GN 1/MPB30244/1M	Green	1x5/3.5	120	150	2000	6	9.9	67	4000/K12, 2000/K9, 1000/K7, 500/K6
Microduct 1x5/3.5 DB S12 BU 3/MPB30244/1M	Blue	1x5/3.5	120	150	2000	6	9.9	67	500/K6
Microduct 2x5/3.5 DB S12 MPB30244/2M	Orange	2x5/3.5	170	200	2000	15	15.2 × 10.2	95	1000/K8, 500/K7, 4000/K14, 2000/K11
Microduct 2x5/3.5 DB S12 RD 2/MPB30244/2M	Red	2x5/3.5	170	200	2000	15	15.2 × 10.2	95	1000/K8, 500/K7, 4000/K14, 2000/K10

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 2x5/3.5 DB S12 GN 1/MPB30244/2M	Green	2x5/3.5	170	200	2000	15	15.2 × 10.2	95	1000/K8, 500/K7, 4000/K14, 2000/K10	
Microduct 2x5/3.5 DB S12 BU 3/MPB30244/2M	Blue	2x5/3.5	170	200	2000	15	15.2 × 10.2	95	–	
Microduct 4x5/3.5 DB S12 MPB30244/4M	Orange	4x5/3.5	190	450	2000	15	18.9	211	500/K10, 1000/K11, 4000/K20, 2000/K16	
Microduct 4x5/3.5 DB S12 RD 2/MPB30244/4M	Red	4x5/3.5	190	450	2000	15	18.9	211	1000/K11, 500/K10, 4000/K20, 2000/K16	
Microduct 4x5/3.5 DB S12 GN 1/MPB30244/4M	Green	4x5/3.5	190	450	2000	15	18.9	211	1000/K11, 500/K10, 4000/K20, 2000/K16	
Microduct 4x5/3.5 DB S12 BU 3/MPB30244/4M	Blue	4x5/3.5	190	450	2000	15	18.9	211	2000/K16	
Microduct 7x5/3.5 DB S12 MPB30244/7M	Orange	7x5/3.5	220	750	2000	15	22.2	271	4000/K22, 500/K11, 2000/K20, 1000/K14	
Microduct 7x5/3.5 DB S12 RD 2/MPB30244/7M	Red	7x5/3.5	220	750	2000	15	22.2	271	500/K10, 4000/K22, 2000/K20, 1000/K14	
Microduct 7x5/3.5 DB S12 GN 1/MPB30244/7M	Green	7x5/3.5	220	750	2000	15	22.2	271	4000/K22, 500/K10, 2000/K20, 1000/K14	
Microduct 7x5/3.5 DB S12 BU 3/MPB30244/7M	Blue	7x5/3.5	220	750	2000	15	22.2	271	1000/K14	
Microduct 12x5/3.5 DB S12 MPB30244/12M	Orange	12x5/3.5	290	1200	2000	15	27.1	400	2000/K22, 4000/K24, 500/K12, 1000/K16	
Microduct 12x5/3.5 DB S12 RD 2/MPB30244/12M	Red	12x5/3.5	290	1200	2000	15	27.1	400	2000/K22, 4000/K24, 500/K12, 1000/K16	
Microduct 12x5/3.5 DB S12 GN 1/MPB30244/12M	Green	12x5/3.5	290	1200	2000	15	27.1	400	500/K12, 2000/K22, 4000/K24, 1000/K16	
Microduct 12x5/3.5 DB S12 BU 3/MPB30244/12M	Blue	12x5/3.5	290	1200	2000	15	27.1	400	500/K12, 1000/K16, 2000/K22, 4000/K24	

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 19x5/3.5 DB S12 MPB30244/19M	Orange	19x5/3.5	320	1900	2000	15	31.9	545	1000/K18, 3000/K24, 500/K12, 2000/K22
Microduct 19x5/3.5 DB S12 RD 2/MPB30244/19M	Red	19x5/3.5	320	1900	2000	15	31.9	545	3000/K24, 500/K12, 1000/K18, 2000/K22
Microduct 19x5/3.5 DB S12 GN 1/MPB30244/19M	Green	19x5/3.5	320	1900	2000	15	31.9	545	3000/K24, 500/K12, 1000/K18, 2000/K22
Microduct 1x10/8+24x5/3.5 DB S12 MPB30244/24M	Orange	1x10/ 8+24x5/ 3.5	380	2400	2000	15	37.8	656	500/K16, 1000/K22, 2000/K24
Microduct 1x10/8+24x5/3.5 DB S12 RD 2/MPB30244/24M	Red	1x10/ 8+24x5/ 3.5	380	2400	2000	15	37.8	656	500/K16, 1000/K22, 2000/K24/1300
Microduct 1x10/8+24x5/3.5 DB S12 GN 1/MPB30244/24M	Green	1x10/ 8+24x5/ 3.5	380	2400	2000	15	37.8	656	500/K16, 1000/K22, 2000/K24/1300