



# Microduct Assembly 16/12 mm

TWD 16/12 mm 2-7 -way S12

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## Features

- For direct burial
- 2, 4 or 7 bundled ducts
- 16/12 mm microducts
- Low friction inner surface
- Longitudinal grooves for maximum installation lengths

## Application

The thick walled microduct are designed with an inner low friction surface that enables installation of micro cables or nano cables. The thick wall of the microducts allow for installation directly into the ground without the need for additional protection.

## Design

The duct assemblies are available in several configurations from 2 to 7 microducts. 16/12 mm microducts are optimized for installation of micro cables and nano cables. The microducts have a low-friction inner surface with longitudinal grooves for best blowing performance.

## 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>
<b>Marking</b>	<p>Duct assemblies have markings showing the type and tube length. The individual microducts are identified by their colors.</p> <p>12 different colors are used according to the S12 standard. The assemblies are available in various sheath colors for easy identification.</p>

## 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 30

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct 2x16/12 S12 OG</b> MPB30218/2M	Orange	2x16/12	250	2400	9000	26	18 × 34	224	2000/K20, 1000/K14, 500/K12
<b>Microduct 2x16/12 S12 OG 1000 m</b> MPB30218/2M-1	Orange	2x16/12	250	2400	9000	26	18 × 34	224	1000/K14
<b>Microduct 2x16/12 S12 YE</b> 4/MPB30218/2M	Yellow	2x16/12	250	2400	9000	26	18 × 34	224	2000/K20, 1000/K14, 500/K12
<b>Microduct 2x16/12 S12 YE 1000 m</b> 4/MPB30218/2M-1	Yellow	2x16/12	250	2400	9000	26	18 × 34	224	1000/K14
<b>Microduct 2x16/12 S12 RD</b> 2/MPB30218/2M	Red	2x16/12	250	2400	9000	26	18 × 34	224	2000/K20, 1000/K14, 500/K12
<b>Microduct 2x16/12 S12 RD1000 m</b> 2/MPB30218/2M-1	Red	2x16/12	250	2400	9000	26	18 × 34	224	1000/K14
<b>Microduct 2x16/12 S12 WH</b> 5/MPB30218/2M	White	2x16/12	250	2400	9000	26	18 × 34	224	2000/K20, 1000/K14, 500/K12
<b>Microduct 2x16/12 S12 WH 1000 m</b> 5/MPB30218/2M-1	White	2x16/12	250	2400	9000	26	18 × 34	224	1000/K14
<b>Microduct 2x16/12 S12 GN</b> 1/MPB30218/2M	Green	2x16/12	250	2400	9000	26	18 × 34	224	2000/K20, 1000/K14, 500/K12
<b>Microduct 2x16/12 S12 GN 1000 m</b> 1/MPB30218/2M-1	Green	2x16/12	250	2400	9000	26	18 × 34	224	1000/K14

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct 2x16/12 S12 VT 1000 m</b> 6/MPB30218/2M-1	Violet	2x16/12	250	2400	9000	26	18 × 34	224	1000/K14	
<b>Microduct 4x16/12 S12 OG</b> MPB30218/4M	Orange	4x16/12	550	4200	3000	29	34 × 34	414	2000/K24, 1000/ER20, 500/K14	
<b>Microduct 4x16/12 S12 OG 1000 m</b> MPB30218/4M-1	Orange	4x16/12	550	4200	3000	29	34 × 34	414	1000/ER20	
<b>Microduct 4x16/12 S12 YE</b> 4/MPB30218/4M	Yellow	4x16/12	550	4200	3000	29	34 × 34	414	2000/K24, 1000/ER20, 500/K14	
<b>Microduct 4x16/12 S12 YE 1000 m</b> 4/MPB30218/4M-1	Yellow	4x16/12	550	4200	3000	29	34 × 34	414	1000/ER20	
<b>Microduct 4x16/12 S12 RD</b> 2/MPB30218/4M	Red	4x16/12	550	4200	3000	29	34 × 34	414	2000/K24, 1000/ER20, 500/K14	
<b>Microduct 4x16/12 S12 RD 1000 m</b> 2/MPB30218/4M-1	Red	4x16/12	550	4200	3000	29	34 × 34	414	1000/ER20	
<b>Microduct 4x16/12 S12 WH</b> 5/MPB30218/4M	White	4x16/12	550	4200	3000	29	34 × 34	414	2000/K24, 1000/ER20, 500/K14	
<b>Microduct 4x16/12 S12 WH 1000 m</b> 5/MPB30218/4M-1	White	4x16/12	550	4200	3000	29	34 × 34	414	1000/ER20	
<b>Microduct 4x16/12 S12 GN</b> 1/MPB30218/4M	Green	4x16/12	550	4200	3000	29	34 × 34	414	2000/K24, 1000/ER20, 500/K14	
<b>Microduct 4x16/12 S12 GN 1000 m</b> 1/MPB30218/4M-1	Green	4x16/12	550	4200	3000	29	34 × 34	414	1000/ER20	
<b>Microduct 4x16/12 S12 VT 1000 m</b> 6/MPB30218/4M-1	Violet	4x16/12	550	4200	3000	29	34 × 34	414	1000/ER20	
<b>Microduct 4x16/12 S12 TQ</b> 11/MPB30218/4M	Turquoise/ Aqua	4x16/12	550	4200	3000	29	34 × 34	414	–	
<b>Microduct 4x16/12 S12 TQ 1000 m</b> 11/MPB30218/4M-1	Turquoise/ Aqua	4x16/12	550	4200	3000	29	34 × 34	414	1000/ER20	
<b>Microduct 7x16/12 S12 OG</b> MPB30218/7M	Orange	7x16/12	650	7000	–	–	50	724	500/ER20	
<b>Microduct 7x16/12 S12 OG 1000 m</b> MPB30218/7M-1	Orange	7x16/12	650	7000	–	–	50	724	1000/K24	
<b>Microduct 7x16/12 S12 OG 500 m</b> MPB30218/7M-2	Orange	7x16/12	650	7000	–	–	50	724	500/ER20	
<b>Microduct 7x16/12 S12 OG 800 m</b> MPB30218/7M-X	Orange	7x16/12	650	7000	–	–	50	724	800/E20	
<b>Microduct 7x16/12 S12 OG 800 m</b> 1/MPB30218/7M-X	Green	7x16/12	650	7000	–	–	50	724	800/E20	
<b>Microduct 7x16/12 S12 OG 800 m</b> 4/MPB30218/7M-X	Yellow	7x16/12	650	7000	–	–	50	724	800/E20	