

Microduct Assembly 14/10 mm

TWD 14/10 mm 2-7 -way S12

Features

- For direct burial
- 2, 4 or 7 bundled ducts
- 14/10 mm microducts
- Low friction inner surface
- Longitudinal grooves for maximum installation lengths

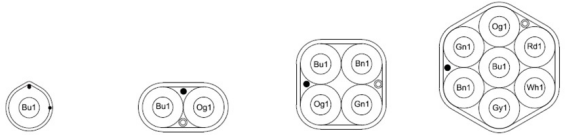
Application

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. 14/10 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

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 type and tube length. The individual microducts are identified by their colors.

12 different colors are used 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
	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

Article name	EL-No.	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 2x14/10 S12 OG MPB30281/2M		Orange	-	-	-	-	-	15.4 × 29.4	0.218	1000/K12
Microduct 2x14/10 S12 OG 1000 m MPB30281/2M-1		Orange	-	-	-	-	-	15.4 × 29.4	0.25	1000/K12
Microduct 2x14/10 S12 OG 500 m MPB30281/2M-2		Orange	-	-	-	-	-	15.4 × 29.4	0.25	500/K10
Microduct 2x14/10 S12 YE 4/MPB30281/2M		Yellow	-	-	-	-	-	15.4 × 29.4	0.218	1000/K12
Microduct 2x14/10 S12 YE 1000 m 4/MPB30281/2M-1		Yellow	-	-	-	-	-	15.4 × 29.4	0.25	1000/K12
Microduct 2x14/10 S12 YE 500 m 4/MPB30281/2M-2		Yellow	-	-	-	-	-	15.4 × 29.4	0.25	500/K10

Article name	EL-No.	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 2x14/10 S12 RD 2/MPB30281/2M		Red	-	-	-	-	-	15.4 × 29.4	0.218	1000/K12
Microduct 2x14/10 S12 RD 1000 m 2/MPB30281/2M-1		Red	-	-	-	-	-	15.4 × 29.4	0.25	1000/K12
Microduct 2x14/10 S12 RD 500 m 2/MPB30281/2M-2		Red	-	-	-	-	-	15.4 × 29.4	0.25	500/K10
Microduct 2x14/10 S12 WH 5/MPB30281/2M		White	-	-	-	-	-	15.4 × 29.4	0.218	1000/K12
Microduct 2x14/10 S12 WH 1000 m 5/MPB30281/2M-1		White	-	-	-	-	-	15.4 × 29.4	0.218	1000/K12
Microduct 2x14/10 S12 WH 500 m 5/MPB30281/2M-2		White	-	-	-	-	-	15.4 × 29.4	0.218	500/K10
Microduct 2x14/10 S12 GN 1/MPB30281/2M		Green	-	-	-	-	-	15.4 × 29.4	0.218	1000/K12
Microduct 2x14/10 S12 GN 1000 m 1/MPB30281/2M-1		Green	-	-	-	-	-	15.4 × 29.4	0.25	1000/K12
Microduct 2x14/10 S12 GN 500 m 1/MPB30281/2M-2		Green	-	-	-	-	-	15.4 × 29.4	0.25	500/K10
Microduct 2x14/10 S12 BU 3/MPB30281/2M		Blue	-	-	-	-	-	15.4 × 29.4	0.218	1000/K12
Microduct 2x14/10 S12 BU 1000 m 3/MPB30281/2M-1		Blue	-	-	-	-	-	15.4 × 29.4	0.25	1000/K12
Microduct 2x14/10 S12 BU 500 m 3/MPB30281/2M-2		Blue	-	-	-	-	-	15.4 × 29.4	0.25	500/K10
Microduct 2x14/10 S12 GY 1000 m 9/MPB30281/2M-1		Gray/Slate	-	-	-	-	-	15.4 × 29.4	0.25	1000/K12
Microduct 2x14/10 S12 GY 500 m 9/MPB30281/2M-2		Gray/Slate	-	-	-	-	-	15.4 × 29.4	0.25	500/K10
Microduct 2x14/10 S12 PK 1000 m 7/MPB30281/2M-1		Pink/Rose	-	-	-	-	-	15.4 × 29.4	0.25	1000/K12
Microduct 2x14/10 S12 PK 500 m 7/MPB30281/2M-2		Pink/Rose	-	-	-	-	-	15.4 × 29.4	0.25	500/K10
Microduct 4x14/10 DB S12 OG MPB30277/4M	2804297	Orange	4x14/10	400	3300	3000	25	29.4 × 29.4	597	3000/K26, 1000/K18
Microduct 4x14/10 S12 OG 1000 m MPB30277/4M-1	2804297	Orange	4x14/10	400	3300	3000	25	29.4 × 29.4	414	1000/ER17
Microduct 4x14/10 S12 OG 500 m MPB30277/4M-2		Orange	4x14/10	400	3300	3000	25	29.4 × 29.4	414	500/K14
Microduct 4x14/10 S12 YE 4/MPB30277/4M		Yellow	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/K18
Microduct 4x14/10 S12 YE 1000 m 4/MPB30277/4M-1		Yellow	4x14/10	400	3300	3000	25	29.4 × 29.4	414	1000/ER17

Article name	EL-No.	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 4x14/10 S12 YE 500 m 4/MPB30277/4M-2		Yellow	4x14/10	400	3300	3000	25	29.4 × 29.4	414	500/K14
Microduct 4x14/10 S12 RD 2/MPB30277/4M		Red	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/K18
Microduct 4x14/10 S12 RD 1000 m 2/MPB30277/4M-1		Red	4x14/10	400	3300	3000	25	29.4 × 29.4	414	1000/ER17
Microduct 4x14/10 S12 RD 500 m 2/MPB30277/4M-2		Red	4x14/10	400	3300	3000	25	29.4 × 29.4	414	500/K14
Microduct 4x14/10 S12 WH 5/MPB30277/4M		White	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/K18
Microduct 4x14/10 S12 WH 1000 m 5/MPB30277/4M-1		White	4x14/10	400	3300	3000	25	29.4 × 29.4	414	1000/ER17
Microduct 4x14/10 S12 WH 500 m 5/MPB30277/4M-2		White	4x14/10	400	3300	3000	25	29.4 × 29.4	414	500/K14
Microduct 4x14/10 S12 GN 1/MPB30277/4M	2804148	Green	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/K18
Microduct 4x14/10 S12 GN 1000 m 1/MPB30277/4M-1	2804148	Green	4x14/10	400	3300	3000	25	29.4 × 29.4	414	1000/ER17
Microduct 4x14/10 S12 GN 500 m 1/MPB30277/4M-2		Green	4x14/10	400	3300	3000	25	29.4 × 29.4	414	500/K14
Microduct 4x14/10 S12 BU 3/MPB30277/4M		Blue	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/K18
Microduct 4x14/10 S12 BU1000 m 3/MPB30277/4M-1		Blue	4x14/10	400	3300	3000	25	29.4 × 29.4	414	1000/ER17
Microduct 4x14/10 S12 BU 500 m 3/MPB30277/4M-2		Blue	4x14/10	400	3300	3000	25	29.4 × 29.4	414	500/K14
Microduct 4x14/10 S12 GY 9/MPB30277/4M		Gray/Slate	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/K18
Microduct 4x14/10 S12 GY 1000 m 9/MPB30277/4M-1		Gray/Slate	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/ER17
Microduct 4x14/10 S12 GY 500 m 9/MPB30277/4M-2		Gray/Slate	4x14/10	400	3300	3000	25	29.4 × 29.4	597	500/K14
Microduct 4x14/10 S12 VT 1000 m 6/MPB30277/4M-1		Violet	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/ER17
Microduct 4x14/10 S12 PK 7/MPB30277/4M		Pink/Rose	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/K18
Microduct 4x14/10 S12 PK 1000 m 7/MPB30277/4M-1		Pink/Rose	4x14/10	400	3300	3000	25	29.4 × 29.4	597	1000/ER17
Microduct 4x14/10 S12 PK 500 m 7/MPB30277/4M-2		Pink/Rose	4x14/10	400	3300	3000	25	29.4 × 29.4	597	500/K14
Microduct 7x14/10 DB S12 OG MPB30277/7M	2804298	Orange	7x14/10	550	5500	4500	27	43.4	634	2000/K26, 500/K18, 1000/K22

Article name	EL-No.	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 7x14/10 S12 OG 1000 m MPB30277/7M-1	2804298	Orange	7x14/10	550	5500	4500	27	43.4	634	1000/ER20
Microduct 7x14/10 S12 OG 500 m MPB30277/7M-2		Orange	7x14/10	550	5500	4500	27	43.4	634	500/ER17
Microduct 7x14/10 S12 YE 4/MPB30277/7M		Yellow	7x14/10	550	5500	4500	27	43.4	634	1000/K22
Microduct 7x14/10 S12 YE 1000 m 4/MPB30277/7M-1		Yellow	7x14/10	550	5500	4500	27	43.4	634	1000/ER20
Microduct 7x14/10 S12 YE 500 m 4/MPB30277/7M-2		Yellow	7x14/10	550	5500	4500	27	43.4	634	500/ER17
Microduct 7x14/10 S12 RD 2/MPB30277/7M		Red	7x14/10	550	5500	4500	27	43.4	634	1000/K22
Microduct 7x14/10 S12 RD 1000 m 2/MPB30277/7M-1		Red	7x14/10	550	5500	4500	27	43.4	634	1000/ER20
Microduct 7x14/10 S12 RD 500 m 2/MPB30277/7M-2		Red	7x14/10	550	5500	4500	27	43.4	634	500/ER17
Microduct 7x14/10 S12 WH 5/MPB30277/7M		White	7x14/10	550	5500	4500	27	43.4	634	1000/K22
Microduct 7x14/10 S12 WH 1000 m 5/MPB30277/7M-1		White	7x14/10	550	5500	4500	27	43.4	634	1000/ER20
Microduct 7x14/10 S12 WH 500 m 5/MPB30277/7M-2		White	7x14/10	550	5500	4500	27	43.4	634	500/ER17
Microduct 7x14/10 S12 GN 1/MPB30277/7M		Green	7x14/10	550	5500	4500	27	43.4	634	1000/K22
Microduct 7x14/10 S12 GN 1000 m 1/MPB30277/7M-1		Green	7x14/10	550	5500	4500	27	43.4	634	1000/ER20
Microduct 7x14/10 S12 GN 500 m 1/MPB30277/7M-2		Green	7x14/10	550	5500	4500	27	43.4	634	500/ER17
Microduct 7x14/10 S12 GN 1500 m 1/MPB30277/7M-12		Green	7x14/10	550	5500	4500	27	43.4	634	-
Microduct 7x14/10 S12 BU 3/MPB30277/7M		Blue	7x14/10	550	5500	4500	27	43.4	634	1000/K22
Microduct 7x14/10 S12 BU 1000 m 3/MPB30277/7M-1		Blue	7x14/10	550	5500	4500	27	43.4	634	1000/ER20
Microduct 7x14/10 S12 BU 500 m 3/MPB30277/7M-2		Blue	7x14/10	550	5500	4500	27	43.4	634	500/ER17
Microduct 7x14/10 S12 GY 9/MPB30277/7M		Gray/Slate	7x14/10	550	5500	4500	27	43.4	634	1000/K22
Microduct 7x14/10 S12 GY 1000 m 9/MPB30277/7M-1		Gray/Slate	7x14/10	550	5500	4500	27	43.4	634	1000/ER20
Microduct 7x14/10 S12 GY 500 m 9/MPB30277/7M-2		Gray/Slate	7x14/10	550	5500	4500	27	43.4	634	500/ER17

Article name	EL-No.	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 7x14/10 S12 PK 7/MPB30277/7M		Pink/Rose	7x14/10	550	5500	4500	27	43.4	634	1000/K22
Microduct 7x14/10 S12 PK 1000 m 7/MPB30277/7M-1		Pink/Rose	7x14/10	550	5500	4500	27	43.4	634	1000/ER20
Microduct 7x14/10 S12 PK 500 m 7/MPB30277/7M-2		Pink/Rose	7x14/10	550	5500	4500	27	43.4	634	500/ER17