



# Microduct Assembly, Heavy-duty, 7/3.5 mm with Tracer

TWD, Heavy-duty, 7/3.5 mm 1-7 -way Tr, S12

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## Features

- Extra Heavy-duty design for direct buried installation
- UV protected for above ground use
- Double sheathed
- 1, 4 or 7 sub-duct options
- 7/3.5 mm microduct system
- Low friction rilled inner surface for maximum installation lengths
- Integrated tracer wire

## Application

The tight protected duct assemblies consist of a number of microducts with an inner low friction surface that enables air-blown installation of fiber optic micro cables. The inner surface of the microducts have longitudinal grooves for improved blowing performance.

The duct assemblies are bundled with double UV-resistant PE sheaths. This makes the ducts extra durable for direct installation into ground or above ground installation. The ducts are suitable for installation of micro cables.

The duct is classed for above ground and underground use according to heavy duty application norm SRE-P.

## Design

The duct assemblies are available in several configurations from 1 to 7 microducts.

7/3.5 mm microducts are optimized for installation of blown fibers and nano cables. The microducts have a low-friction inner surface with longitudinal grooves for best blowing performance.

The tracer wire is made of an isolated copper wire, 18 AWG.

## Product Information

Microducts and outer sheath: HDPE

Tracer Wire

**Microduct assemblies:** 18 AWG (0.8 mm<sup>2</sup>)

**Material:** Isolated, stranded copper

## 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

**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
- Protection:** SRE-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.

**Technical Details**

S12 Mikrodot 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 Mikrodot 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 36**

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Form of Delivery
<b>Microduct SRE-P 1x7/3.5 S12 OG/BK</b> MPB30307/1M	Black/ Orange	1x7/3.5	110	77	6900	15	11	82	–
<b>Microduct SRE-P 1x7/3.5 S12 OG/BK 1000m</b> MPB30307/1M-1	Black/ Orange	1x7/3.5	110	77	6900	15	11	82	1000
<b>Microduct SRE-P 1x7/3.5 S12 OG/BK 500m</b> MPB30307/1M-2	Black/ Orange	1x7/3.5	110	77	6900	15	11	82	500

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Microduct SRE-P 1x7/3.5 S12 WH/BK 5/MPB30307/1M	Black/White	1x7/3.5	110	77	6900	15	11	82	–
Microduct SRE-P 1x7/3.5 S12 WH/BK 1000m 5/MPB30307/1M-1	Black/White	1x7/3.5	110	77	6900	15	11	82	1000
Microduct SRE-P 1x7/3.5 S12 WH/BK 500m 5/MPB30307/1M-2	Black/White	1x7/3.5	110	77	6900	15	11	82	500
Microduct SRE-P 4x7/3.5 S12 OG/BK MPB30307/4M	Black/Orange	4x7/3.5	180	2050	10000	15	18 × 18	218	–
Microduct SRE-P 4x7/3.5 S12 OG/BK 1000m MPB30307/4M-1	Black/Orange	4x7/3.5	180	2050	10000	15	18 × 18	218	1000
Microduct SRE-P 4x7/3.5 S12 OG/BK 500m MPB30307/4M-2	Black/Orange	4x7/3.5	180	2050	10000	15	18 × 18	218	500
Microduct SRE-P 4x7/3.5 S12 GN/BK 1/MPB30307/4M	Black/Green	4x7/3.5	180	2050	10000	15	18 × 18	218	–
Microduct SRE-P 4x7/3.5 S12 GN/BK 1000m 1/MPB30307/4M-1	Black/Green	4x7/3.5	180	2050	10000	15	18 × 18	218	1000
Microduct SRE-P 4x7/3.5 S12 GN/BK 500m 1/MPB30307/4M-2	Black/Green	4x7/3.5	180	2050	10000	15	18 × 18	218	500
Microduct SRE-P 4x7/3.5 S12 RD/BK 2/MPB30307/4M	Black/Red	4x7/3.5	180	2050	10000	15	18 × 18	218	–
Microduct SRE-P 4x7/3.5 S12 RD/BK 1000m 2/MPB30307/4M-1	Black/Red	4x7/3.5	180	2050	10000	15	18 × 18	218	1000
Microduct SRE-P 4x7/3.5 S12 RD/BK 500m 2/MPB30307/4M-2	Black/Red	4x7/3.5	180	2050	10000	15	18 × 18	218	500
Microduct SRE-P 4x7/3.5 S12 WH/BK 5/MPB30307/4M	Black/White	4x7/3.5	180	2050	10000	15	18 × 18	218	–
Microduct SRE-P 4x7/3.5 S12 WH/BK 1000m 5/MPB30307/4M-1	Black/White	4x7/3.5	180	2050	10000	15	18 × 18	218	1000
Microduct SRE-P 4x7/3.5 S12 WH/BK 500m 5/MPB30307/4M-2	Black/White	4x7/3.5	180	2050	10000	15	18 × 18	218	500
Microduct SRE-P 4x7/3.5 S12 PK/BK 7/MPB30307/4M	Black/Pink	4x7/3.5	180	2050	10000	15	18 × 18	218	–
Microduct SRE-P 4x7/3.5 S12 PK/BK 1000m 7/MPB30307/4M-1	Black/Pink	4x7/3.5	180	2050	10000	15	18 × 18	218	1000
Microduct SRE-P 4x7/3.5 S12 PK/BK 500m 7/MPB30307/4M-2	Black/Pink	4x7/3.5	180	2050	10000	15	18 × 18	218	500
Microduct SRE-P 7x7/3.5 S12 OG/BK MPB30307/7M	Black/Orange	7x7/3.5	230	3080	10000	15	25 × 23.1	300	–
Microduct SRE-P 7x7/3.5 S12 OG/BK 1000m MPB30307/7M-1	Black/Orange	7x7/3.5	230	3080	10000	15	25 × 23.1	300	1000
Microduct SRE-P 7x7/3.5 S12 OG/BK 500m MPB30307/7M-2	Black/Orange	7x7/3.5	230	3080	10000	15	25 × 23.1	300	500
Microduct SRE-P 7x7/3.5 S12 GN/BK 1/MPB30307/7M	Black/Green	7x7/3.5	230	3080	10000	15	25 × 23.1	300	–
Microduct SRE-P 7x7/3.5 S12 GN/BK 1000m 1/MPB30307/7M-1	Black/Green	7x7/3.5	230	3080	10000	15	25 × 23.1	300	1000

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<b>Microduct SRE-P 7x7/3.5 S12 WH/BK</b> 5/MPB30307/7M	Black/ White	7x7/3.5	230	3080	10000	15	25 × 23.1	300	–
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<b>Microduct SRE-P 7x7/3.5 S12 PK/BK</b> 7/MPB30307/7M	Black/Fink	7x7/3.5	230	3080	10000	15	25 × 23.1	300	–
<b>Microduct SRE-P 7x7/3.5 S12 PK/BK 1000m</b> 7/MPB30307/7M-1	Black/Fink	7x7/3.5	230	3080	10000	15	25 × 23.1	300	1000
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