



# Microduct Assembly 7/3.5 mm with Tracer

TWD 7/3.5 mm 1 or 2 -way Tr, S12

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## Features

- For direct burial
- 1 or 2 bundled ducts
- 7/3.5 mm microducts
- Low friction inner surface
- Integrated tracer wire under sheath

## Application

The thick walled microduct bundles consist of a number of microducts with an inner low friction surface that enables installation of air-blown fiber units or nano cables. The thick inner wall of the microducts allow for installation directly into the ground without the need for additional protection. The integrated tracer wire saves time and installation cost since an additional wire for tracing is not required.

## Design

The duct assemblies are available in configurations with 1 or 2 microducts. 7/3.5 mm microducts are optimized for installation of air-blown fibers and nano cables. The microducts have a solid low-friction inner surface for best blowing performance.

## Product Information

Microducts and outer sheath: HDPE

Tracer Wire

**Single ducts:** 24 AWG (0.2 mm<sup>2</sup>)

**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
<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>

### 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.

### Technical Details

S12 Mikrorör 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 Mikrorör 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 5

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]
<b>Microduct 1x7/3.5 S12 Tr OG 500m</b> MPB30278/1BA-2	2800122	Orange	1x7/3.5	80	600	2500	15	9.8	61	500
<b>Microduct 2x7/3.5 S12 Tr OG</b> MPB302782BA	2800077	Orange	2x7/3.5	80	700	2500	15	8 × 15	99	600
<b>Microduct 4x7/3.5 S12 Tr OG 1000 m</b> MPB30278/4BA-1	2800408	Orange	4x7/3.5	210	1100	2500	15	15 × 15	175	1000/K11
<b>Microduct 7x7/3.5 S12 Tr OG 1000 m</b> MPB30278/7BA-1	2800409	Orange	7x7/3.5	220	2300	2500	15	22	250	1000/E15
<b>Microduct 12x7/3.5 S12 Tr OG 1000 m</b> MPB30278/12BA-1	2800410	Orange	12x7/3.5	300	3600	2500	15	30	455	1000/E15