



# Microduct Assembly 7/3.5 mm with Tracer

TWD 7/3.5 mm 1-24 -way Tr, FIN2012

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## Features

- For direct burial
- 1, 2, 4, 7, 12, 19 or 24 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 several configurations from 1 to 24 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>Värijärjestys</b>	FIN2012
<b>Lämpötila, käyttö [°C]</b>	-40 to +60
<b>Lämpötila, varastointi [°C]</b>	-40 to +60
<b>Lämpötila, asennus [°C]</b>	-20 to +50
<b>Vaatimustenmukaisuus</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>

**Merkintä**

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 FIN2012 standard.

For duct assemblies with >12 ducts, the first 12 colored ducts are marked with “1” and the following ducts are marked with “2”.

The assemblies are available in various sheath colors for easy identification.

**Technical Details**

FIN-2012 Kanava 1-12 Microducts 1-12	1	2	3	4	5	6	7	8	9	10	11	12
	Sininen Blue	Valkoinen White	Keltainen Yellow	Vihreä Green	Harmaa Grey	Oranssi Orange	Ruskea Brown	Turkoosi Turquoise	Musta Black	Violetti Violet	Vaalean- punainen Pink	Punainen Red
	Sininen 1 Blue 1	Valkoinen 1 White 1	Keltainen 1 Yellow 1	Vihreä 1 Green 1	Harmaa 1 Grey 1	Oranssi 1 Orange 1	Ruskea 1 Brown 1	Turkoosi 1 Turquoise 1	Musta 1 Black 1	Violetti 1 Violet 1	Vaalean- punainen 1 Pink 1	Punainen 1 Red 1
	Sininen 2 Blue 2	Valkoinen 2 White 2	Keltainen 2 Yellow 2	Vihreä 2 Green 2	Harmaa 2 Grey 2	Oranssi 2 Orange 2	Ruskea 2 Brown 2	Turkoosi 2 Turquoise 2	Musta 2 Black 2	Violetti 2 Violet 2	Vaalean- punainen 2 Pink 2	Punainen 2 Red 2
	13	14	15	16	17	18	19	20	21	22	23	24
	Sininen 1 Blue 1	Valkoinen 1 White 1	Keltainen 1 Yellow 1	Vihreä 1 Green 1	Harmaa 1 Grey 1	Oranssi 1 Orange 1	Ruskea 1 Brown 1	Turkoosi 1 Turquoise 1	Musta 1 Black 1	Violetti 1 Violet 1	Vaalean- punainen 1 Pink 1	Punainen 1 Red 1
	Sininen 2 Blue 2	Valkoinen 2 White 2	Keltainen 2 Yellow 2	Vihreä 2 Green 2	Harmaa 2 Grey 2	Oranssi 2 Orange 2	Ruskea 2 Brown 2	Turkoosi 2 Turquoise 2	Musta 2 Black 2	Violetti 2 Violet 2	Vaalean- punainen 2 Pink 2	Punainen 2 Red 2

## Articles 9

Article name	Sähkönumero	Väri	Asettelu	Taivutussäde [mm]	Vetolujuus, asennettaessa [N]	Puristuslujuus [N/100 mm]	Isku [J]	Mitat [mm]	Paino [kg/km]	Pituus [m]
<b>Microduct 1x7/3.5 FN BU Tr</b> 3/MPB30278/1AN		Blue	–	–	–	–	–	–	–	–
<b>Microduct 2x7/3.5 TIA Tr OG ft</b> MPB30278/2AN	5218658	Orange	2x7/3.5	80	700	2500	15	8 × 15	99	1000
<b>Microduct 4x7/3.5 FN BU Tr</b> 3/MPB30278/4AN		Blue	–	–	–	–	–	15 × 15	–	1000
<b>Microduct 4x7/3.5 FN2012 OG Tr</b> MPB30278/4AN	5218659	Blue	–	–	–	–	–	15 × 15	–	1000
<b>Microduct 7x7/3.5 FN BU Tr</b> 3/MPB30278/7AN	5218613	Blue	–	–	–	–	–	22	250	1000
<b>Microduct 7x7/3.5 FN2012 OG Tr</b> 3/MPB30278/7AN-0	5218654	Orange	–	–	–	–	–	22	250	900
<b>Microduct 7x7/3.5 FN BU Tr</b> MPB30278/7AN-0	5218668	Blue	–	–	–	–	–	22	250	900
<b>Microduct 12x7/3.5 FN BU Tr</b> 3/MPB30278/12AN	5218612	Blue	–	–	–	–	–	30	–	1000
<b>Microduct 12x7/3.5 FN OG Tr</b> MPB30278/12AN	5218660	Orange	–	–	–	–	–	30	–	1000