

Microduct Assembly 7/3.5 mm with Tracer

TWD 7/3.5 mm 1-24 -way Tr, TIA598 ft

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

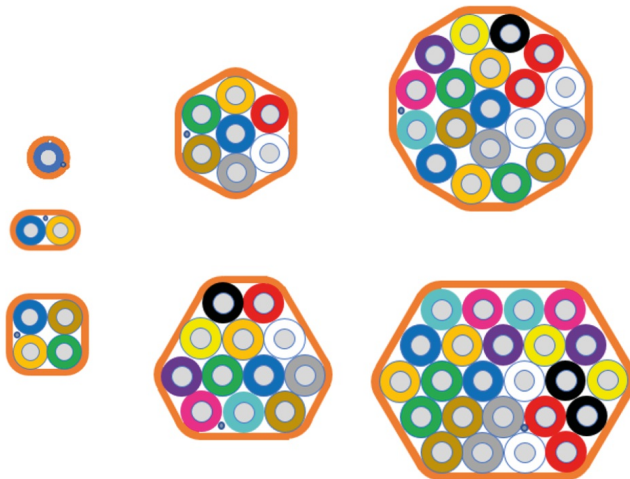
Application

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 mm²)

Microduct assemblies: 20 AWG (0.5 mm²)

Material: Isolated, copper

Technical Information

Color Code	TIA598
Temperature, Operation [°C]	-40 to +60
Temperature, Storage [°C]	-40 to +60

Temperature, Installation [°C]

-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

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 TIA598 standard.

For duct assemblies with >12 ducts, the first 12 ducts are solid colored and the following ducts are colored with the same base color but with white stripes.

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

Technical Details

TIA-598 Microducts 1-12	1	2	3	4	5	6	7	8	9	10	11	12	
	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua	
	TIA-598 Microducts 1-24	1	2	3	4	5	6	7	8	9	10	11	12
		Blue 1	Orange 1	Green 1	Brown 1	Slate 1	White 1	Red 1	Black 1	Yellow 1	Violet 1	Rose 1	Aqua 1
		13	14	15	16	17	18	19	20	21	22	23	24
		Blue 2	Orange 2	Green 2	Brown 2	Slate 2	White 2	Red 2	Black 2	Yellow 2	Violet 2	Rose 2	Aqua 2

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Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 1x7/3.5 TIA Tr OG ft MPB302781UV	Orange	1x7/3.5	98	600	2500	15	–	9.8	61	2000/K8, 1000/K6, 500/K5
Microduct 1x7/3.5 TIA Tr OG 1640ft MPB302781UV6	Orange	1x7/3.5	98	600	2500	15	9	9.8	61	500/K5
Microduct 1x7/3.5 TIA Tr OG 3280ft MPB302781UV7	Orange	1x7/3.5	98	600	2500	15	9	9.8	61	1000/K6
Microduct 1x7/3.5 TIA Tr OG 6560ft MPB302781UV8	Orange	1x7/3.5	98	600	2500	15	–	9.8	61	2000/K8
Microduct 2x7/3.5 TIA Tr OG ft MPB302782UV	Orange	2x7/3.5	80	700	2500	15	–	8 × 15	99	2000/K10, 1000/K8, 500/K6
Microduct 2x7/3.5 TIA Tr OG 1640ft MPB302782UV6	Orange	2x7/3.5	80	700	2500	15	–	8 × 15	99	500/K6
Microduct 2x7/3.5 TIA Tr OG 3280ft MPB302782UV7	Orange	2x7/3.5	80	700	2500	15	–	8 × 15	99	1000/K8
Microduct 2x7/3.5 TIA Tr OG 6560ft MPB302782UV8	Orange	2x7/3.5	80	700	2500	15	–	8 × 15	99	2000/K11
Microduct 4x7/3.5 TIA Tr OG ft MPB302784UV	Orange	4x7/3.5	210	1100	2500	15	–	15 × 15	175	2000/K14, 1000/K11, 500/K10
Microduct 4x7/3.5 TIA Tr OG 1640ft MPB302784UV6	Orange	4x7/3.5	210	1100	2500	15	–	15 × 15	175	500/K10
Microduct 4x7/3.5 TIA Tr OG 3280ft MPB302784UV7	Orange	4x7/3.5	210	1100	2500	15	–	15 × 15	175	1000/K11
Microduct 4x7/3.5 TIA Tr OG 6560ft MPB302784UV8	Orange	4x7/3.5	210	1100	2500	15	–	15 × 15	175	2000/K14
Microduct 7x7/3.5 TIA Tr OG ft MPB302787UV	Orange	7x7/3.5	220	2300	2500	15	–	22	250	2000/K20, 1000/K12, 500/K11
Microduct 7x7/3.5 TIA Tr OG 1640ft MPB302787UV6	Orange	7x7/3.5	220	2300	2500	15	–	22	250	500/K11
Microduct 7x7/3.5 TIA Tr OG 3280ft MPB302787UV7	Orange	7x7/3.5	220	2300	2500	15	–	22	250	1000/K12
Microduct 7x7/3.5 TIA Tr OG 6560ft MPB302787UV8	Orange	7x7/3.5	220	2300	2500	15	–	22	250	2000/K20
Microduct 12x7/3.5 TIA Tr OG ft MPB3027812UV	Orange	12x7/3.5	300	3600	2500	15	–	30	455	2000/K22, 1000/K16, 500/K12
Microduct 12x7/3.5 TIA Tr OG 1640ft MPB3027812UV6	Orange	12x7/3.5	300	3600	2500	15	–	30	455	500/K12
Microduct 12x7/3.5 TIA Tr OG 3280ft MPB3027812UV7	Orange	12x7/3.5	300	3600	2500	15	–	30	455	1000/K16

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 12x7/3.5 TIA Tr OG 6560ft MPB3027812UV8	Orange	12x7/3.5	300	3600	2500	15	–	30	455	2000/K22
Microduct 19x7/3.5 TIA Tr OG ft MPB3027819UV	Orange	19x7/3.5	360	5600	2500	15	–	36	600	2000/K22, 1000/K18, 500/K14
Microduct 19x7/3.5 TIA Tr OG 1640ft MPB3027819UV6	Orange	19x7/3.5	360	5600	2500	15	–	36	600	500/K14
Microduct 19x7/3.5 TIA Tr OG 3280ft MPB3027819UV7	Orange	19x7/3.5	360	5600	2500	15	–	36	600	1000/K18
Microduct 19x7/3.5 TIA Tr OG 6560ft MPB3027819UV8	Orange	19x7/3.5	360	5600	2500	15	–	36	600	2000/K22
Microduct 24x7/3.5 TIA Tr OG ft MPB3027824UV	Orange	24x7/3.5	440	7000	2500	15	–	44 × 33	798	1000/K22, 500/K16
Microduct 24x7/3.5 TIA Tr OG 1640ft MPB3027824UV6	Orange	24x7/3.5	440	7000	2500	15	–	44 × 33	798	500/K16
Microduct 24x7/3.5 TIA Tr OG 3280ft MPB3027824UV7	Orange	24x7/3.5	440	7000	2500	15	–	44 × 33	798	1000/K22
Microduct 24x7/3.5 TIA Tr OG 6560ft MPB3027824UV8	Orange	24x7/3.5	440	7000	2500	15	–	44 × 33	798	2000/ K24/ 1300