

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.

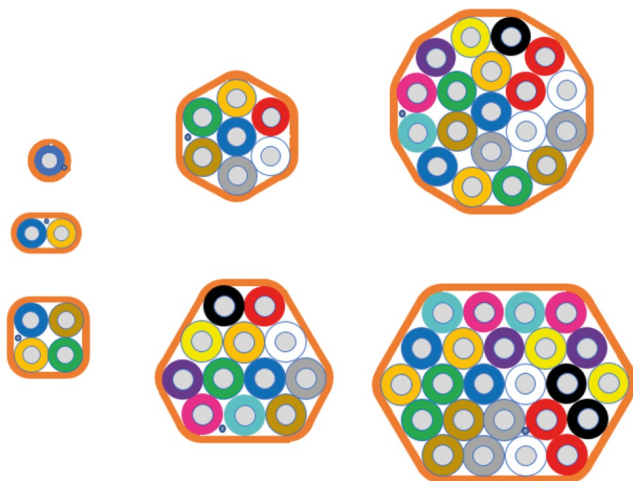
Design

The duct assemblies are available in several configurations from 1 to 24 microducts.

One-way microducts may contain any of the 12 color schemes according to TIA 598

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

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

PRODUCT NUMBER	TYPE	LENGTH (ft)	OUTER DIA or HxW (mm)	WEIGHT (lb/ft)	MIN BEND RADIUS (mm/In)	MAX PULLING FORCE (lbs)
MPB302781UV6	1-way	1640	9	0.036	120 / 4.7	110
MPB302781UV7	1-way	3280	9	0.036	120 / 4.7	110
MPB302781UV8	1-way	6560	9	0.036	120 / 4.7	110
MPB302782UV6	2-way	1640	16x9	0.071	150 / 5.9	200
MPB302782UV7	2-way	3280	16x9	0.071	150 / 5.9	200
MPB302782UV8	2-way	6560	16x9	0.071	150 / 5.9	200
MPB302784UV6	4-way	1640	16x16	0.118	160 / 6.3	330
MPB302784UV7	4-way	3280	16x16	0.118	160 / 6.3	330
MPB302784UV8	4-way	6560	16x16	0.118	160 / 6.3	330
MPB302787UV6	7-way	1640	22	0.168	220 / 8.7	540
MPB302787UV7	7-way	3280	22	0.168	220 / 8.7	540
MPB302787UV8	7-way	6560	22	0.168	220 / 8.7	540
MPB3027812UV6	12-way	1640	30	0.306	300 / 11.8	890
MPB3027812UV7	12-way	3280	30	0.306	300 / 11.8	890
MPB3027812UV8	12-way	6560	30	0.306	300 / 11.8	890
MPB3027819UV6	19-way	1640	36	0.403	360 / 14.2	1330
MPB3027819UV7	19-way	3280	36	0.403	360 / 14.2	1330
MPB3027819UV8	19-way	6560	36	0.403	360 / 14.2	1330
MPB3027824UV6	24-way	1640	44x33	0.527	390 / 15.3	1635
MPB3027824UV7	24-way	3280	44x33	0.527	390 / 15.3	1635

Articles 28

Article name	Color	Layout	Bend Radius [in]	Tensile Force, Installation [lbs]	Diameter Ø [mm]	Weight [lbs/ft]	Length [ft]
Microduct 1x7/3.5 TIA Tr OG ft MPB302781UV	Orange	1x7/3.5	—	—	—	41	2000/K8, 1000/K6, 500/K5
Microduct 1x7/3.5 TIA Tr OG 1640ft MPB302781UV6	Orange	1x7/3.5	4.7	110	9	36	500/K5
Microduct 1x7/3.5 TIA Tr OG 3280ft MPB302781UV7	Orange	1x7/3.5	4.7	110	9	36	1000/K6
Microduct 1x7/3.5 TIA Tr OG 6560ft MPB302781UV8	Orange	1x7/3.5	—	—	—	41	2000/K8
Microduct 2x7/3.5 TIA Tr OG ft MPB302782UV	Orange	2x7/3.5	—	—	—	67	2000/K10, 1000/K8, 500/K6
Microduct 2x7/3.5 TIA Tr OG 1640ft MPB302782UV6	Orange	2x7/3.5	—	—	—	67	500/K6
Microduct 2x7/3.5 TIA Tr OG 3280ft MPB302782UV7	Orange	2x7/3.5	—	—	—	67	1000/K8
Microduct 2x7/3.5 TIA Tr OG 6560ft MPB302782UV8	Orange	2x7/3.5	—	—	—	67	2000/K11
Microduct 4x7/3.5 TIA Tr OG ft MPB302784UV	Orange	4x7/3.5	—	—	—	118	2000/K14, 1000/K11, 500/K10
Microduct 4x7/3.5 TIA Tr OG 1640ft MPB302784UV6	Orange	4x7/3.5	—	—	—	118	500/K10
Microduct 4x7/3.5 TIA Tr OG 3280ft MPB302784UV7	Orange	4x7/3.5	—	—	—	118	1000/K11

Article name	Color	Layout	Bend Radius [in]	Tensile Force, Installation [lbs]	Diameter Ø [mm]	Weight [lbs/100ft]	Length [ft]
Microduct 4x7/3.5 TIA Tr OG 6560ft MPB302784UV8	Orange	4x7/3.5	-	-	-	118	2000/K14
Microduct 7x7/3.5 TIA Tr OG ft MPB302787UV	Orange	7x7/3.5	-	-	-	168	2000/K20, 1000/K12, 500/K11
Microduct 7x7/3.5 TIA Tr OG 1640ft MPB302787UV6	Orange	7x7/3.5	-	-	-	168	500/K11
Microduct 7x7/3.5 TIA Tr OG 3280ft MPB302787UV7	Orange	7x7/3.5	-	-	-	168	1000/K12
Microduct 7x7/3.5 TIA Tr OG 6560ft MPB302787UV8	Orange	7x7/3.5	-	-	-	168	2000/K20
Microduct 12x7/3.5 TIA Tr OG ft MPB3027812UV	Orange	12x7/3.5	-	-	-	306	2000/K22, 1000/K16, 500/K12
Microduct 12x7/3.5 TIA Tr OG 1640ft MPB3027812UV6	Orange	12x7/3.5	-	-	-	306	500/K12
Microduct 12x7/3.5 TIA Tr OG 3280ft MPB3027812UV7	Orange	12x7/3.5	-	-	-	306	1000/K16
Microduct 12x7/3.5 TIA Tr OG 6560ft MPB3027812UV8	Orange	12x7/3.5	-	-	-	306	2000/K22
Microduct 19x7/3.5 TIA Tr OG ft MPB3027819UV	Orange	19x7/3.5	-	-	-	400	2000/K22, 1000/K18, 500/K14
Microduct 19x7/3.5 TIA Tr OG 1640ft MPB3027819UV6	Orange	19x7/3.5	-	-	-	400	500/K14
Microduct 19x7/3.5 TIA Tr OG 3280ft MPB3027819UV7	Orange	19x7/3.5	-	-	-	400	1000/K18
Microduct 19x7/3.5 TIA Tr OG 6560ft MPB3027819UV8	Orange	19x7/3.5	-	-	-	400	2000/K22
Microduct 24x7/3.5 TIA Tr OG ft MPB3027824UV	Orange	24x7/3.5	-	-	-	536	1000/K22, 500/K16
Microduct 24x7/3.5 TIA Tr OG 1640ft MPB3027824UV6	Orange	24x7/3.5	-	-	-	536	500/K16
Microduct 24x7/3.5 TIA Tr OG 3280ft MPB3027824UV7	Orange	24x7/3.5	-	-	-	536	1000/K22
Microduct 24x7/3.5 TIA Tr OG 6560ft MPB3027824UV8	Orange	24x7/3.5	-	-	-	536	2000/ K24/ 1300