

# Microduct Assembly 7/3.5 mm

**TWD 7/3.5 mm 1-24 way TIA598 Termite Protected**

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## Features

- For direct burial
- 1, 4, 7, 12, 19 or 24 bundled ducts
- 7/3.5 mm microducts
- Low friction inner surface for maximum installation lengths
- Nylon sheathed microducts for termite protection
- Optional integrated tracer wire

## Application

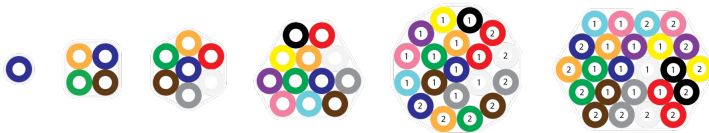
The thick walled microduct bundles consist of a number of microducts with an inner low friction surface that enables installation of air-blown fiber units or nano cables. The thick inner wall of the microducts allow for installation directly into the ground without the need for additional protection. The nylon layer applied to each microduct makes these assemblies suited to termite prone areas even where the outer jacket is removed. Where optioned, 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:** HDPE and Nylon

**Outer sheath:** HDPE

**Tracer wire:** 24 AWG Tinned Copper (optional)

## Technical Information

<b>Product Color</b>	White
<b>Color Code</b>	TIA598
<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

**Marking**

Duct assemblies have markings showing the tube length. The individual microducts are identified by their colours according to the TIA standard. Bundles of more than 12 ducts are also identified by numbers 1 and 2. The assemblies come with a white outer sheath, or with a customised outer sheath colour by special order.

**Technical Details**

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

TIA 598 Color Code Chart for Microduct Assemblies

**Articles 12**

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Weight in Water [kg/km]
<b>Microduct 1x7/3.5 TWD TIA PA</b> 5/MPB30322/1CT	White	1x7/3.5	93	500	2500	10	9.2	54	–
<b>Microduct 4x7/3.5 TWD TIA PA</b> 5/MPB30322/4CT	White	4x7/3.5	210	1100	2500	15	15 × 15	175	–
<b>Microduct 7x7/3.5 TWD TIA PA</b> 5/MPB30322/7CT	White	7x7/3.5	220	2300	2500	15	22	250	–
<b>Microduct 12x7/3.5 TWD TIA PA</b> 5/MPB30322/12CT	White	12x7/3.5	300	3600	2500	15	30	455	–
<b>Microduct 19x7/3.5 TWD TIA PA</b> 5/MPB30322/19CT	White	19x7/3.5	360	5600	2500	15	36	700	–

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Weight in Water [kg/km]
<b>Microduct 24x7/3.5 TWD TIA PA</b> 5/MPB30322/24CT	White	24x7/3.5	440	7000	2500	15	44 × 33	798	–
<b>Microduct 1x7/3.5 TWD TIA PA Tracer</b> 5/MPB30322/1CU	White	1x7/3.5	93	500	2500	10	9.2	–	54
<b>Microduct 4x7/3.5 TWD TIA PA Tracer</b> 5/MPB30322/4CU	White	4x7/3.5	210	1100	2500	15	15 × 15	175	–
<b>Microduct 7x7/3.5 TWD TIA PA Tracer</b> 5/MPB30322/7CU	White	7x7/3.5	220	2300	2500	15	22	250	–
<b>Microduct 12x7/3.5 TWD TIA PA Tracer</b> 5/MPB30322/12CU	White	12x7/3.5	300	3600	2500	15	30	455	–
<b>Microduct 19x7/3.5 TWD TIA PA Tracer</b> 5/MPB30322/19CU	White	19x7/3.5	360	5600	2500	15	36	700	–
<b>Microduct 24x7/3.5 TWD TIA PA Tracer</b> 5/MPB30322/24CU	White	24x7/3.5	440	7000	2500	15	44 × 33	798	–