

# Microduct Assembly 7/3.5 + 14/10mm

**TWD 7/3.5 + 14/10mm 6-25 way TIA598 Termite Protected**

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## Features

- For direct burial
- 6, 10, 14, 19, 22 or 25 bundled ducts
- 7/3.5 mm and 14/10 mm microducts
- Low friction inner surface
- Longitudinal grooves for maximum installation lengths in 14/10 mm ducts
- Nylon sheathed microducts for termite protection
- Optional integrated tracer wire

## Application

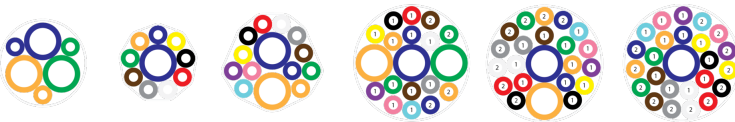
The tight protected duct assemblies consist of a number of microducts with an inner low friction, antistatic surface that enables installation of micro cables, nano cables or air blown fibers. The thick inner wall of the microducts allow for installation directly into the ground without the need for 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 optional, 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 6 to 25 microducts.

Both the 14/10 mm and 7/3.5 mm microducts are suitable for installation of air blown fibers or nano cables and the 1/10 mm microduct can also be used for blowing micro cables. The microducts have a 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	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Weight [kg/km]
<b>Microduct 3x14/10+3x7/3.5 TWD TIA PA</b> 5/MPB30326/6CT	3x14/ 10+3x7/ 3.5	—	—	2500	15	31	400
<b>Microduct 1x14/10+9x7/3.5 TWD TIA PA</b> 5/MPB30326/10CT	1x14/ 10+9x7/ 3.5	—	—	2500	15	31	400
<b>Microduct 2x14/10+12x7/3.5 TWD TIA PA</b> 5/MPB30326/14CT	2x14/ 10+12x7/ 3.5	—	—	2500	15	37	650
<b>Microduct 3x14/10+16x7/3.5 TWD TIA PA</b> 5/MPB30326/19CT	3x14/ 10+16x7/ 3.5	700	4500	2500	15	44	800

Article name	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Weight [kg/km]
<b>Microduct 2x14/10+20x7/3.5 TWD TIA PA</b> 5/MPB30326/22CT	2x14/ 10+20x7/3.5	700	4700	2500	15	44	813
<b>Microduct 1x14/10+24x7/3.5 TWD TIA PA</b> 5/MPB30326/25CT	1x14/ 10+24x7/3.5	600	4900	2500	15	44	855
<b>Microduct 3x14/10+3x7/3.5 TWD TIA PA Tracer</b> 5/MPB30326/6CU	3x14/ 10+3x7/3.5	–	–	2500	15	31	400
<b>Microduct 1x14/10+9x7/3.5 TWD TIA PA Tracer</b> 5/MPB30326/10CU	1x14/ 10+9x7/3.5	–	–	2500	15	31	400
<b>Microduct 2x14/10+12x7/3.5 TWD TIA PA Tracer</b> 5/MPB30326/14CU	2x14/ 10+12x7/3.5	–	–	2500	15	37	650
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