

Microduct Assembly 12/10 + 5/3.5 mm

TPD 12/10 + 5/3.5 mm 9-27 way TIA598 Termite Protected

Features

- For installation in existing ducts
- 9, 11, 15 or 27 over-sheathed ducts
- 12/10 mm and 5/3.5 mm microducts
- Low friction inner surface for maximum installation lengths
- Longitudinal grooves for maximum installation lengths in 12/10 ducts
- Excellent environmental properties
- Nylon sheathed microducts for termite protection

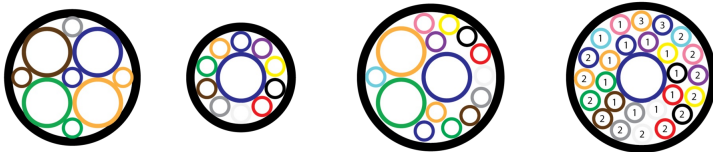
Application

The tight protected duct assemblies consist of a number of microducts with an inner low friction, antistatic surface that enables installation of air blown fibers. The duct assemblies are bundled with a single HDPE or PP sheath depending on configuration. The design makes the duct assemblies especially suitable for installation into narrow existing ducts, conduit or pipes occupied with cables or other obstacles. The nylon layer applied to each microduct makes these assemblies suited to termite prone areas even where the outer jacket is removed for branching or routing. The round structure enables easy splicing and sealing at joints and branch locations.

Design

The duct assemblies are available in several versions with 9 to 27 microducts. Each microduct has an outer/inner diameter of 12/10 mm or 5/3.5 mm. Both the 12/10 mm and 5/3.5 mm microducts are suitable for installation of air blown fibers or nano cables and the 12/10 mm microduct can also be used for blowing micro cables.

Product Information



Microducts: HDPE and Nylon

Outer Sheath: HDPE or PP

Technical Information

Product Color	Black
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 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, 2 and 3 as required.
 The assemblies come with a black 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 4

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]
Microduct 4x12/10 + 5x5/3.5 DI PA MPB30325/9B	Black	4x12/ 10+5x5/ 3.5	330	2300	1000	3	33	360
Microduct 1x12/10 + 10x5/3.5 DI TIA PA MPB30325/11B	Black	1x12/ 10+10x5/ 3.5	260	2400	1000	3	25.6	400
Microduct 3x12/10 + 12x5/3.5 DI TIA PA MPB30325/15B	Black	3x12/ 10+12x5/ 3.5	350	3000	1000	3	35.0	620
Microduct 1x12/10 + 26x5/3.5 DI TIA PA MPB30325/27B	Black	1x12/ 10+26x5/ 3.5	360	4400	1000	3	35.8	670