

# Microduct Assembly 5/3.5 mm

TPD 5/3.5 mm 4-19 way TIA598

---

## Features

- For installation in existing ducts
- 4, 7, 12 or 19 over-sheathed ducts
- 5/3.5 mm microducts
- Low friction inner surface for maximum installation lengths
- Excellent environmental properties

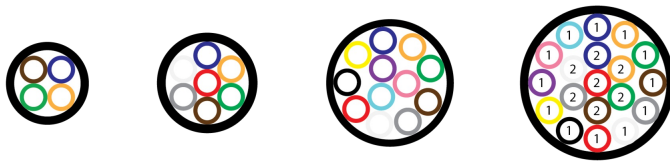
## Application

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 round structure enables easy splicing and sealing at joints and branch locations.

## Design

The duct assemblies are available in several versions with 4 to 19 microducts. Each microduct has an outer and inner diameter of 5/3.5 mm. These microducts are suitable for installation of air blown fiber units or nano cables.

## Product Information



**Microducts:** HDPE

**Outer Sheath:** HDPE or PP

## Technical Information

<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 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

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]
<b>Microduct 4x5/3.5 DI TIA</b> MPB30245/4CG	Black	4x5/3.5	190	400	1000	3	14.9	211
<b>Microduct 7x5/3.5 DI TIA</b> MPB30245/7CG	Black	7x5/3.5	220	600	1000	3	18.2	271
<b>Microduct 12x5/3.5 DI TIA</b> MPB30245/12CG	Black	12x5/3.5	290	1000	1000	3	23.1	400
<b>Microduct 19x5/3.5 DI TIA</b> MPB30245/19CG	Black	19x5/3.5	320	1700	1000	3	27.5	545