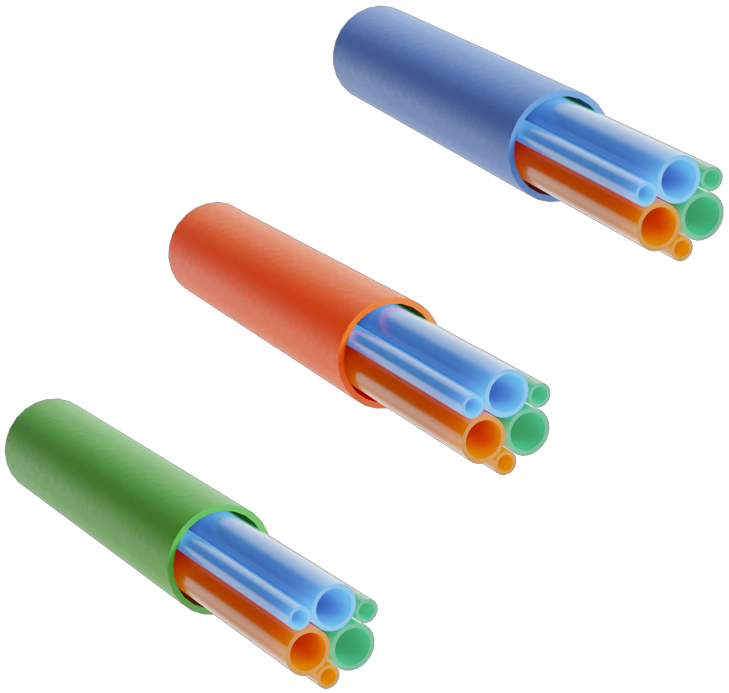


Microduct Assembly, Hybrid 5/3.5 and 10/8 mm

TPD 5/3.5 + 10/8 mm TIA598

Features

- For installation in existing, ducts, cable channels or in sewers (protected)
- Hybrid design, combines blown fibres and micro cables in the same assembly
- Low friction inner surface for maximum installation lengths
- Excellent environmental properties
- Slim design < 25 mm. Fits all standardised cable clamps

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 fiber. The duct assemblies are bundled with a single HDPE sheath depending on configuration. The design makes the duct assemblies especially suitable for installation into narrow existing ducts (pipes) or pipes occupied with cables or other obstacles.
The duct assembly combines small and large ducts so that customer drop access with blown fibre and feeder cables can be installed in the same infrastructure. The round structure is extremely slim and less than 25 mm. Therefore, suitable cable clamps for installation inside cable channels or sewers can be used. The microducts are optimized for best performance in combination with the Hexatronic Stingray Air Blown Fibers, Hexatronic Raptor Nano Cables and Hexatronic Viper Micro Cables.

Design

The duct assemblies are available with a combination of 5/3.5 mm and 10/8 mm microducts.

Product Information

Microducts and outer sheaht: HDPE

Technical Information

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

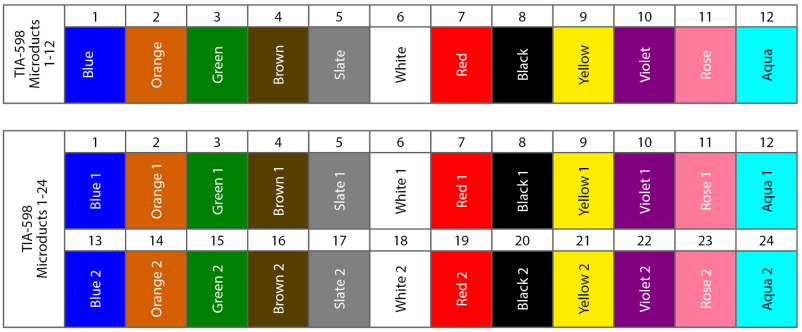
Marking

Duct assemblies have markings showing the tube length. The individual microducts are numbered and also identified by their color and position in the bundle according to the TIA598 standard.

The assemblies are available in various sheath colors for easy identification.

Marking example: 3x10/8 mm + 3x5/3.5 mm HEXATRONIC A35 yymmddhh 1/MPB30294/6AD mmmmm M

Technical Details



TIA 598 Color Code Chart for Microduct Assemblies

Articles 7

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Weight [kg/km]
3x10/8+3x5/3.5 DI TIA OG MPB30294/6	Orange	3x5/3.5 + 3x10/8	300	2000	1000	3	24.5	212
3x10/8+3x5/3.5 DI TIA GN 1/MPB30294/6	Green	3x5/3.5 + 3x10/8	300	2000	1000	3	24.5	212
3x10/8+3x5/3.5 DI TIA RD 2/MPB30294/6	Red	3x5/3.5 + 3x10/8	300	2000	1000	3	24.5	212
3x10/8+3x5/3.5 DI TIA BU 3/MPB30294/6	Blue	3x5/3.5 + 3x10/8	300	2000	1000	3	24.5	212
3x10/8+3x5/3.5 DI TIA YE 4/MPB30294/6	Yellow	3x5/3.5 + 3x10/8	300	2000	1000	3	24.5	212

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Weight [kg/km]
3x10/8+3x5/3.5 DI TIA WH 5/MPB30294/6	White	3x5/3.5 + 3x10/8	300	2000	1000	3	24.5	212
3x10/8+3x5/3.5 DI TIA VT 6/MPB30294/6	Violet	3x5/3.5 + 3x10/8	300	2000	1000	3	24.5	212

