



Microduct Assembly 12/10 mm with Tracer

TPD 12/10 mm 1-7 -way Tr, TIA598

Features

- For installation in existing ducts
- 1, 2, 4 or 7 over-sheathed ducts
- 12/10 mm microducts
- Low friction inner surface for maximum installation lengths
- Longitudinal grooves for maximum installation lengths
- Integrated tracer wire under sheath

Application

The tight protected duct assemblies consist of a number of microducts with an inner low friction surface that enables installation of micro cables or nano cables. The duct assemblies are bundled with a single HDPE sheath. The design makes the duct assemblies especially suitable for installation into narrow existing ducts (pipes) or pipes occupied with cables or other obstacles. The round structure enables easy splicing and sealing at joints and branch locations. The microducts are optimized for best performance in combination with the Hexatronic Viper Micro Cable and Hexatronic Raptor Nano Cables.

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 versions with 1 to 7 microducts.

12/10 mm microducts are optimized for installation of micro cables and nano cables. The microducts have a low-friction inner surface with longitudinal grooves for best blowing performance.

Product Information

Microducts and outer sheath: HDPE

Tracer Wire

Single ducts: 24 AWG (0.2 mm²)

Microduct assemblies: 18 AWG (0.8 mm²)

Material: Isolated, stranded copper

Technical Information

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 numbered and also identified by their color and position in the bundle according to the TIA598 Standard.

Technical Details

TIA-598 Microducts 1-12	1	2	3	4	5	6	7	8	9	10	11	12	
	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua	
	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]	Length [m]
Microduct 1x12/10 DI TIA Tr ft MPB302921UV	Gray/Slate	1x12/10	–	–	–	–	150	2000/K12, 1000/K10, 500/K9	
Microduct 1x12/10 DI TIA Tr 1640ft MPB302921UV6	Gray/Slate	1x12/10	–	–	–	–	150	500/K9	
Microduct 1x12/10 DI TIA Tr 3280ft MPB302921UV7	Gray/Slate	1x12/10	–	–	–	–	150	1000/K10	

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 1x12/10 DI TIA Tr 6560ft MPB302921UV8	Gray/Slate	1x12/10	–	–	–	–	150	2000/K12	
Microduct 4x12/10 DI TIA Tr ft MPB302924UV	Gray/Slate	4x12/10	330	2300	1000	3	33	310	2000/K22, 1000/K18, 500/K18
Microduct 4x12/10 DI TIA Tr 1640ft MPB302924UV6	Gray/Slate	4x12/10	330	2300	1000	3	33	310	500/K18
Microduct 4x12/10 DI TIA Tr 3280ft MPB302924UV7	Gray/Slate	4x12/10	330	2300	1000	3	33	310	1000/K18
Microduct 4x12/10 DI TIA Tr 6560ft MPB302924UV8	Gray/Slate	4x12/10	330	2300	1000	3	33	310	2000/K22
Microduct 7x12/10 DI TIA Tr ft MPB302927UV	Gray/Slate	7x12/10	400	4400	1000	3	40.2	502	2000/K24/1300, 1000/K22, 500/K20
Microduct 7x12/10 DI TIA Tr 1640ft MPB302927UV6	Gray/Slate	7x12/10	400	4400	1000	3	40.2	502	500/K20
Microduct 7x12/10 DI TIA Tr 3280ft MPB302927UV7	Gray/Slate	7x12/10	400	4400	1000	3	40.2	502	1000/K22
Microduct 7x12/10 DI TIA Tr 6560ft MPB302927UV8	Gray/Slate	7x12/10	400	4400	1000	3	40.2	502	2000/ K24/ 1300