



# Microduct Assembly 5/3.5-12/10 mm Aerial

TPD 5/3.5-12/10 mm TIA598

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## Features

- Aerial, dielectric, self supporting design
- 5/3.5, 10/8 or 12/10 mm microduct system
- Low friction inner surface for maximum installation lengths
- Excellent UV resistance
- Slim, lightweight design with low visual impact

## Application

The tight protected duct assemblies consist of a number of microducts with an inner low friction surface that enables air blown installation of air blown fibers or micro cables.

The duct assemblies are dielectric and self supported. This makes the ducts suitable for aerial applications along power lines.

## Design

The duct assemblies are available in several configurations with 5/3.5, 10/8 and 12/10 mm microducts (OD/ID) for the installation of customer drop installations with air blown fiber and distribution micro cables into the same infrastructure.

Depending on type, the assemblies are of All-Dielectric Self-Supporting (ADSS) or Figure-8 design. The available configurations are chosen for perfect match with Hexatronic aerial blown fiber system for fiber access networks.

## Product Information

**Microducts:** HDPE

**Strain relief:** FRP or aramide yarn

## 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>	-15 to +50
<b>Conformance</b>	<p><b>Abrasion:</b> IEC 60794-1-2-E2B(1)</p> <p><b>Kink:</b> IEC 60794-1-2-E10, 20 x outer diameter</p> <p><b>Impact:</b> IEC 60794-1-2-E4</p> <p><b>Crush:</b> IEC 60794-1-2-E3</p> <p><b>Tensile:</b> IEC 60794-1-2-E</p> <p><b>Bend:</b> IEC 60794-1-2-E11A</p> <p><b>Torsion:</b> IEC 60794-1-2-E</p> <p><b>Flexibility:</b> IEC 60794-1-2-E8</p> <p><b>Inner Clearance:</b> IEC 60794-5-20, IEC 60794-5-10, Ann. D</p>
<b>Marking</b>	<p>Duct assemblies have markings showing the tube length.</p> <p>The individual microducts are identified by their color and position in the bundle.</p>

## 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

## 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]
<b>Aerial 1x5/3.5 TIA</b> MPB30222/1B	Black	1x5/3.5	100	1000	500	3	8	40	1000/K6, 500/K5
<b>Aerial 1x5/3.5 Fig8 TIA</b> MPB30224/1B	Black	1x5/3.5	–	–	500	3	15.5 × 7.1	80	2000/K10, 1000/K9, 500/K9
<b>Aerial 4x5/3.5 Fig8 TIA</b> MPB30224/4B	Black	4x5/3.5	200	1000	500	3	24 × 12	122	500/K12, 1000/K12, 2000/K14
<b>Aerial 19x5/3.5 Fig8 TIA598</b> MPB30224/19B	Black	19x5/3.5	500	5000	500	3	–	295	–
<b>Aerial 8x5/3.5+2x10/8 Fig8 TIA</b> MPB30225/8B	Black	8x5/ 3.5+2x10/ 8	500	5000	500	3	36 × 27	286	2000/K24, 1000/K20
<b>Aerial 1x12/10 Fig8 TIA</b> MPB30228/1B	Black	1x12/10	300	5000	500	3	25 × 14.5	150	1000/K12
<b>Aerial 2x5/3.5+1x12/10 Fig8 TIA</b> MPB30228/2B	Black	2x5/ 3.5+1x12/ 10	–	–	–	–	–	350	–
<b>Aerial 5x5/3.5+4x12/10 Fig8 TIA</b> MPB30228/5B	Black	5x5/ 3.5+4x12/ 10	500	5000	500	3	42 × 30.5	350	500/K16, 1000/K20
<b>Aerial 8x5/3.5+2x12/10 Fig8 TIA</b> MPB30228/8B	Black	8x5/ 3.5+2x12/ 10	550	5000	500	3	38 × 29	286	1000/K18
<b>Aerial10x5/3.5+1x12/10 Fig8 TIA</b> MPB30228/10B	Black	10x5/ 3.5+1x12/ 10	–	–	–	–	–	242	–
<b>Aerial12x5/3.5+1x12/10 Fig8 TIA</b> MPB30228/12B	Black	12x5/ 3.5+1x12/ 10	550	5000	500	3	40.5 × 21	259	2000/K22, 1000/K18

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Aerial 26x5/3.5+1x12/10 Fig8 TIA MPB30228/26B	Black	26x5/ 3.5+1x12/10	-	-	-	-	-	400	-