



Microduct Assembly 5/3.5-12/10 mm Aerial

TPD 5/3.5-12/10 mm S12

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

Color Code	S12
Temperature, Operation [°C]	-40 to +60
Temperature, Storage [°C]	-40 to +60
Temperature, Installation [°C]	-15 to +50
Conformance	<p>Abrasion: IEC 60794-1-2-E2B(1)</p> <p>Kink: IEC 60794-1-2-E10, 20 x outer diameter</p> <p>Impact: IEC 60794-1-2-E4</p> <p>Crush: IEC 60794-1-2-E3</p> <p>Tensile: IEC 60794-1-2-E</p> <p>Bend: IEC 60794-1-2-E11A</p> <p>Torsion: IEC 60794-1-2-E</p> <p>Flexibility: IEC 60794-1-2-E8</p> <p>Inner Clearance: IEC 60794-5-20, IEC 60794-5-10, Ann. D</p>
Marking	<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

S12 Mikrodot 1-12 Microducts 1-12	1	2	3	4	5	6	7	8	9	10	11	12
	Orange	Gul Yellow	Röd Red	Vit White	Grön Green	Violett Violet	Blå Blue	Grå Grey	Turkos Turquoise	Svart Black	Brun Brown	Rosa Pink
S12 Mikrodot 1-24 Microducts 1-24	1	2	3	4	5	6	7	8	9	10	11	12
	Orange 1	Gul 1 Yellow 1	Röd 1 Red 1	Vit 1 White 1	Grön 1 Green 1	Violett 1 Violet 1	Blå 1 Blue 2	Grå 1 Grey 1	Turkos 1 Turquoise 1	Svart 1 Black 1	Brun 1 Brown 1	Rosa 1 Pink 1
	13	14	15	16	17	18	19	20	21	22	23	24
	Orange 2	Gul 2 Yellow 2	Röd 2 Red 2	Vit 2 White 2	Grön 2 Green 2	Violett 2 Violet 2	Blå 2 Blue 2	Grå 2 Grey 2	Turkos 2 Turquoise 2	Svart 2 Black 2	Brun 2 Brown 2	Rosa 2 Pink 2

S12 Color Code Chart for Microduct Assemblies

Articles 15

Article name	EL-No.	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Aerial 1x5/3.5 S12 MPB30222/1M		Black	1x5/3.5	100	1000	500	3	8	40	1000/K6, 500/K5
Aerial 1x5/3.5 Fig8 S12 MPB30224/1M	2804133	Black	1x5/3.5	—	—	500	3	15.5 × 7.0	80	2000/K10, 1000/K9, 500/K9
Aerial 1x5/3.5 S12 HStrength 1/MPB30222/1M	2804135	Black	1x5/3.5	120	1000	500	3	9	40	500/K6, 1000/K7, 2000/K9
Aerial 4x5/3.5 Fig8 S12 MPB30224/4M	2804150	Black	4x5/3.5	200	1000	500	3	24 × 12	122	500/K12, 1000/K12, 2000/K14
Aerial 7x5/3.5 Fig8 S12 MPB30224/7M	2804192	Black	7x5/3.5	400	5000	500	3	29 × 16	200	500/K12, 1000/K14
Aerial 8x5/3.5+2x10/8 Fig8 S12 MPB30225/8M	2804152	Black	8x5/ 3.5+2x10/8	500	5000	500	3	36 × 27	286	2000/K24, 1000/K20
Aerial 8x5/3.5+2x10/8 S12 HStreng 1/MPB30225/8M	2804136	Black	8x5/3.5	500	5000	500	3	36 × 27	286	1000/K18
Aerial 19x5/3.5 Fig8 TIA598 MPB30224/19B		Black	19x5/3.5	500	5000	500	3	—	295	—
Aerial 12x5/3.5 Fig8 S12 MPB30224/12M	2804151	Black	12x5/3.5	500	5000	500	3	33 × 22	255	2000/K22, 500/K18, 1000/K18
Aerial12x5/3.5+1x12/10 Fig8 S12 MPB30228/12M	2804196	Black	12x5/ 3.5+1x12/10	550	5000	500	3	40.5 × 21	259	2000/K22, 1000/K18

Article name	EL-No.	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Aerial 24x5/3.5+1x10/8 Fig8 S12 MPB30225/24M		Black	24x5/ 3.5+1x10/8	500	5000	500	3	32.0 × 43.0	420	1000/K20
Aerial 1x12/10 Fig8 S12 MPB30228/1M	2804193	Black	1x12/10	300	5000	500	3	25 × 14.5	150	1000/K12
Aerial 4x12/10 Fig8 S12 MPB30228/4M	2804198	Black	4x12/10	–	–	500	3	26.0 × 45.8	286	1000/K18
Aerial 5x5/3.5+4x12/10 Fig8 S12 MPB30228/5M	2804194	Black	5x5/ 3.5+4x12/10	500	5000	500	3	42 × 30.5	350	500/K16, 1000/K20
Aerial 8x5/3.5+2x12/10 Fig8 S12 MPB30228/8M	2804195	Black	8x5/ 3.5+2x12/10	550	5000	500	3	38 × 29	286	1000/K18