



Microduct Assembly 7/3.5 mm Eco

TWD 7/3.5 mm 1-12 -way S12 Colored skin

Features

- For direct burial
- 1, 2, 4, 7 or 12 bundled ducts
- 7/3.5 mm microducts
- Low friction inner surface
- ≥51% Recycled or reused material
- Lower environmental impact compared to versions with virgin materials

Application

The thick walled microduct bundles consist of a number of microducts with an inner low friction surface that enables installation of air-blown fiber units or nano cables. The thick inner wall of the microducts allow for installation directly into the ground without the need for additional protection. Since these microducts are partially made with recycled or reground materials, they have a lower environmental impact compared to versions made entirely of virgin materials.

Design

The duct assemblies are available in several configurations from 1 to 12 microducts.

7/3.5 mm microducts are optimized for installation of air-blown fibers and nano cables. The microducts have a solid low-friction inner surface for best blowing performance and contain at least 51% of recycled or regrind high quality material. The materials are chosen to secure best performance and lifespan. All microducts are black with a colored skin. The carbon footprint reduction, compared to versions made entirely with virgin material, has been verified according to life cycle calculations (cradle to gate, EF3.0). For more information, see <https://www.hexatronic.com/en-uk/microducts-for-the-future>

Product Information

Microducts and outer sheath: Microducts: HDPE, ≥51% recycled or regrind

Technical Information

Color Code	S12
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 type and tube length. The individual microducts are identified by their colors.

12 different colors are used according to the S12 standard.

For duct assemblies with >12 ducts, the first 12 colored ducts are marked with “1” and the following ducts are marked with “2”.

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

Technical Notes

To facilitate recycling, these assemblies are delivered without ripcords.

Technical Details

S12 Mikroör 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 Mikroör 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 28

Article name	Color	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 2x7/3.5 Eco S12 OG MPB30350/2M	Orange	2x7/3.5	80	700	2500	15	8 × 15	99	–
Microduct 4x7/3.5 Eco S12 OG MPB30350/4M-X	Orange	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 4x7/3.5 Eco S12 YE 4/MPB30350/4M-X	Yellow	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 4x7/3.5 Eco S12 RD 2/MPB30350/4M-X	Red	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 4x7/3.5 Eco S12 WH 5/MPB30350/4M-X	White	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 4x7/3.5 Eco S12 GN 1/MPB30350/4M-X	Green	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 4x7/3.5 Eco S12 BU 3/MPB30350/4M-X	Blue	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 4x7/3.5 Eco S12 GY 9/MPB30350/4M-X	Gray/Slate	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 4x7/3.5 Eco S12 VT 6/MPB30350/4M-X	Violet	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 4x7/3.5 Eco S12 PK 7/MPB30350/4M-X	Pink/Rose	4x7/3.5	210	1100	2500	15	15 × 15	175	1100
Microduct 7x7/3.5 Eco S12 OG MPB30350/7M-X	Orange	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 7x7/3.5 Eco S12 YE 4/MPB30350/7M-X	Yellow	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 7x7/3.5 Eco S12 RD 2/MPB30350/7M-X	Red	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 7x7/3.5 Eco S12 WH 5/MPB30350/7M-X	White	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 7x7/3.5 Eco S12 GN 1/MPB30350/7M-X	Green	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 7x7/3.5 Eco S12 GY 9/MPB30350/7M-X	Gray/Slate	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 7x7/3.5 Eco S12 BU 3/MPB30350/7M-X	Blue	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 7x7/3.5 Eco S12 PK 7/MPB30350/7M-X	Pink/Rose	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 7x7/3.5 Eco S12 VT 6/MPB30350/7M-X	Violet	7x7/3.5	220	2300	2500	15	22	250	900
Microduct 12x7/3.5 Eco S12 OG MPB30350/12M-X	Orange	12x7/3.5	300	3600	2500	15	30	455	1100
Microduct 12x7/3.5 Eco S12 YE 4/MPB30350/12M-X	Yellow	12x7/3.5	300	3600	2500	15	30	455	1100
Microduct 12x7/3.5 Eco S12 RD 2/MPB30350/12M-X	Red	12x7/3.5	300	3600	2500	15	30	455	1100

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 12x7/3.5 Eco S12 WH 5/MPB30350/12M-X	White	12x7/3.5	300	3600	2500	15	30	455	1100
Microduct 12x7/3.5 Eco S12 GN 1/MPB30350/12M-X	Green	12x7/3.5	300	3600	2500	15	30	455	1100
Microduct 12x7/3.5 Eco S12 BU 3/MPB30350/12M-X	Blue	12x7/3.5	300	3600	2500	15	30	455	1100
Microduct 12x7/3.5 Eco S12 GY 9/MPB30350/12M-X	Gray/Slate	12x7/3.5	300	3600	2500	15	30	455	1100
Microduct 12x7/3.5 Eco S12 VT 6/MPB30350/12M-X	Violet	12x7/3.5	300	3600	2500	15	30	455	1100
Microduct 12x7/3.5 Eco S12 PK 7/MPB30350/12M-X	Pink/Rose	12x7/3.5	300	3600	2500	15	30	455	1100