



Duct bundles 12/8 mm

Direct burial duct bundles with main duct 12/8 mm.

Features

- Ultraviolet resistance min. three years in Central European climate (EN ISO 4892-2)
- Outdoor storage extended by one year with white UV protective foil
- Different sheath colour possible for improved differentiation in the trench
- Clear allocation of the internal PE-HD microducts using different colour combinations and corresponding duct numbers
- Closed drum flange for avoiding damage to duct bundle
- Fulfilment of the specifications of large telecommunication companies like Deutsche Telekom and Vodafone

Application

The duct bundles consist of several individual ducts, that allow nanocables or microcables to be blown in. Suitable for direct burial or installation in a protective duct. In combination with the Hexatronic Cable systems, the microducts are optimized and tested for best blowing performance.

Design

The duct assemblies are available in several configurations from 2 to 14 microducts. The duct bundles have an outer sheath that can be easily opened for easy installation when branching off individual microducts.

Product Information

- Material of Sheath: PP, wall thickness 0.5 mm
- Material of ducts: HDPE

No bonding of the individual ducts to the sheath

Technical Information

Product Color	The standard sheath colour is black. Other sheath colours are available upon request. The microducts are translucent with single-extruded, opposite colour stripes.
Color Code	DIN0888
Temperature, Operation [°C]	-40 to +60
Temperature, Storage [°C]	-20 to +60
Temperature, Installation [°C]	-20 to +50

Conformance

The individual ducts meet the following requirements:

- Material: PE-HD according to DIN 16874
- Tolerances: Outer diameter: + 0.1 mm / Wall thickness: + 0.1 mm
- Creep rupture test according to DIN EN ISO 1167: 170 h / 80°C / 4 MPa
- UV resistance min. 3 years Central European climate according to EN ISO 4892-2
- Ducts tested according to IEC 60794-1-2
- Peak compressive strength: > 2000 N
- Burst pressure > 40 bar
- Abrasion: IEC 60794-1-2-E2B(1)
- Bending radius: IEC 60794-1-2-E10, 20 x outer diameter
- Impact strength: IEC 60794-1-2-E4
- Compressive strength: IEC 60794-1-2-E3
- Tensile strength: IEC 60794-1-2-E
- Flexural strength: IEC 60794-1-2-E11A
- Torsion: IEC 60794-1-2-E
- Repeated bending: IEC 60794-1-2-E8
- Internal clearance: IEC 60794-5-20, IEC 60794-5-10, Ann. D

Marking

The marking of the microduct bundles is done by permanent ink-jet printing at 1 m intervals with the following information:

- Manufacturer and product name
- Dimension
- Date of manufacture
- Shift
- Machine
- Meter number

Signing example bundle sheath:

HEXATRONIC HexaSpeed 7x12x2,0 "DD.MM.YYYY" "S" "M"
"000m"

The marking of the single ducts in the bundle is done by permanent ink-jet printing at 1 m intervals with the following information:

- Manufacturer and product name
- Material
- Dimension
- Date of manufacture
- Shift
- Machine
- Meter number
- Additional duct number marking of the individual ducts at intervals of 10 cm

Signing example single duct:

HEXATRONIC HexaSpeed PE-HD 12x2,0 "DD.MM.YYYY" "S"
"M" "000m" ----"1"----"1"----

Ordering Information

Delivery lengths according to article overview or customer request.

Drum properties (diameter [mm] x width [mm] x core [mm] / empty weight [kg]):

- Drum A: 2000 x 1088 x 1250 / 170
- Drum B: 2250 x 1088 x 1250 / 190
- Drum C/D: 2400 x 1220 x 1250 / 265
- Drum E: 700 x 464 x 364 / 13
- Drum F: 1200 x 464 x 370 / 20

Info: the last letter of the article number stands for the drum (see article overview)

- Diameter of axle bore in core (all reel types): 90 mm
- Closed drum flange: pipes cannot be damaged/crushed by edge flange
- Duct bundles closed on both sides ex works
- Delivery of the duct bundle drum with white UV protection foil and marking of the jacket color: Guaranteed full UV protection (3 years) of the ducts from removal of the foil; extension of the outdoor storage period (+1 year) until the start of laying; jacket color of the duct composite is printed on article label

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Article name	Color	Layout	Tensile Force, Installation [N]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct Assembly 2x12/8 MPB42300/02JJABF	Black	2x12/8	1600	25.0 × 13.0	185	850
Microduct Assembly 3x12/8 MPB42300/03JJABA	Black	3x12/8	2300	25.0 × 23.4	220	2000
Microduct Assembly 4x12/8 MPB42300/04JJABA	Black	4x12/8	3000	25.0 × 25.0	295	2000
Microduct Assembly 7x12/8 MPB42300/07JJABA	Black	7x12/8	5000	37.0 × 33.8	470	1000
Microduct Assembly 8x12/8 MPB42300/08JAABA	Black	8x12/8	5800	55.0 × 23.4	535	1100
Microduct Assembly 12x12/8 MPB42300/12JJABA	Black	12x12/8	8500	49.0 × 44.0	780	600
Microduct Assembly 14x12/8 MPB42300/14JJABA	Black	14x12/8	9800	54.0 × 49.0	910	550
Microduct Assembly 8x12/8 + 1x20/15 MPB47300/09JJABA	Black	8x12/8 + 1x20/15	7100	45.0 × 45.0	660	600
Microduct Assembly 14x12/8 + 1x16/12 MPB47300/15JJABA	Black	14x12/8 + 1x16/12	10500	57.8 × 56.7	910	450