



# Duct bundles 12/9,8 mm

**Duct bundles with main duct 12/9,8 mm.**

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## 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 Viper and Raptor cable systems, the microducts are optimized and tested for best blowing performance.

## Design

The duct assemblies are available in several configurations from 2 to 8 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

|                                       |   |
|---------------------------------------|---|
| <b>Product Color</b>                  | The standard sheath colour is black. Other sheath colours are available upon request. The microducts are translucent with single-extruded, opposite colour stripes. |
| <b>Color Code</b>                     | DIN0888   |
| <b>Temperature, Operation [°C]</b>    | -40 to +60  |
| <b>Temperature, Storage [°C]</b>      | -20 to +60  |
| <b>Temperature, Installation [°C]</b> | -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: > 500 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 7x12x1,1 "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 12x1,1 "DD.MM.YYYY" "S"  
"M" "000m" ----"1"----"1"----

## Ordering Information

Delivery lengths according to the product specification or according to customer requirements.

Drum specifications (Diameter [mm] x Width [mm] x Core [mm] x Empty weight [kg]):

- Drum A: 2000 x 1088 x 1250 x 170
- Drum B: 2250 x 1088 x 1250 x 190
- Drum C: 2400 x 1220 x 1250 x 265
- Axle hole diameter in the core (all drum types): 90 mm
- Closed drum flange: Ducts cannot be damaged/squashed by edge flange
- Duct bundles sealed on both ends
- The duct bundle drum is delivered on special drum support frame: Roll-away protection during transport and on the construction site; Forklift forks can be inserted under the support frame on both sides, without damaging the first layer of duct bundles (flexibility during transport)
- The duct bundle drum is delivered with white UV protection film and sheath colour identification: Full UV protection (3 years) guaranteed for the ducts starting from removal of the film; Outdoor storage extended (+1 year) until the installation starts; The colour of the duct bundle sheath is printed on the article label

## Articles 4

| Article name  | Color | Layout   | Tensile Force, Installation [N] | Dimensions [mm] | Weight [kg/km] | Length [m] |
|---|-------|----------|---------------------------------|-----------------|----------------|------------|
| <b>Microduct Assembly 2x12/9,8</b><br>MPB41300/02.JJABA | Black | 2x12/9.8 | 1100                            | 25.0 × 13.0     | 110            | 1900       |
| <b>Microduct Assembly 4x12/9,8</b><br>MPB41300/04.JJABA | Black | 4x12/9.8 | 2000                            | 25.0 × 25.0     | 200            | 2000       |
| <b>Microduct Assembly 5x12/9,8</b><br>MPB41300/05.JJABA | Black | 5x12/9.8 | 3000                            | 23.5 × 37.0     | 235            | 1300       |
| <b>Microduct Assembly 7x12/9,8</b><br>MPB41300/07.JJABA | Black | 7x12/9.8 | 3200                            | 37.0 × 33.8     | 315            | 1000       |