



# Duct bundles 7/4 mm

Direct burial duct bundles with main duct 7/4 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 Cable systems, the microducts are optimized and tested for best blowing performance.

## Design

The duct assemblies are available in several configurations from 2 to 24 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: > 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 24x7x1,5 "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 7x1,5 "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: ducts 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

## Articles 16

Article name	Color	Layout	Tensile Force, Installation [N]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct Assembly 2x7/4</b> MPB42100/02JJABF	Black	2x7/4	700	15.0 × 8.0	70	2000
<b>Microduct Assembly 2x7/4</b> MPB42100/02JJABE	Black	2x7/4	700	15.0 × 8.0	70	450
<b>Microduct Assembly 3x7/4</b> MPB42100/03JJABF	Black	3x7/4	1200	15.0 × 14.1	115	1300
<b>Microduct Assembly 4x7/4</b> MPB42100/04JJABF	Black	4x7/4	1300	18.5 × 14.1	125	1200
<b>Microduct Assembly 7x7/4</b> MPB42100/07JJABF	Black	7x7/4	2100	22.0 × 20.1	205	600
<b>Microduct Assembly 8x7/4</b> MPB42100/08JJABA	Black	8x7/4	2500	32.5 × 14.1	245	3000
<b>Microduct Assembly 12x7/4</b> MPB42100/12JJABA	Black	12x7/4	3700	29.0 × 26.0	350	1800
<b>Microduct Assembly 14x7/4</b> MPB42100/14JJABA	Black	14x7/4	4300	32.0 × 29.0	400	1500
<b>Microduct Assembly 18x7/4</b> MPB42100/18JJABA	Black	18x7/4	5200	36.0 × 32.2	510	1200
<b>Microduct Assembly 24x7/4</b> MPB42100/24JJABA	Black	24x7/4	7400	43.8 × 32.8	665	1000
<b>Microduct Assembly 6x7/4 + 1x14/10</b> MPB47100/07JJABA	Black	6x7/4 + 1x14/10	2500	21.5 × 28.9	267	2500
<b>Microduct Assembly 8x7/4 + 1x12/8</b> MPB47100/09JJABA	Black	8x7/4 + 1x12/8	3100	27.0 × 27.0	295	2000
<b>Microduct Assembly 9x7/4 + 1x14/10</b> MPB47100/10JJABA	Black	9x7/4 + 1x14/10	3500	28.7 × 28.4	339	1850
<b>Microduct Assembly 16x7/4 + 3x12/8</b> MPB47100/19JJABA	Black	16x7/4 + 3x12/8	6500	41.0 × 37.5	650	850
<b>Microduct Assembly 22x7/4 + 1x12/8</b> MPB47100/23JJABA	Black	22x7/4 + 1x12/8	7200	39.5 × 37.5	675	1000
<b>Microduct Assembly 24x7/4+1 x 14/10</b> MPB47101/25JJABA	Black	24x7/4+1 × 14/10	8200	44.8 × 44.8	730	700