



# Duct bundles Xtreme

**Direct burial duct bundles with reinforced sheathing made of exceptionally robust PP for special requirements.**

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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
- Passes sheath nail-test according to DIN 16876
- Increased point load resistance verified by stamp test
- Available for all underground duct bundle variants
- Fulfilment of the specifications of large telecommunication companies like Deutsche Telekom and Vodafone

Recommended for the following applications:

- Installation using horizontal directional drilling with high tensile forces
- Ploughing into soils with larger constituent parts (> 63 mm)
- Trenching method without sand bed

## 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 with different dimensions. The duct bundles have a reinforced outer sheath that can be easily opened for easy installation when branching off individual microducts. The reinforcement of the sheath allows for use with alternative installation methods.

## Product Information

- Material of Sheath: PP, wall thickness 2.0 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: > 1800 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 Xtreme 12x10x2,0 spülbohrfähig  
"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 10x2,0 "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

## Articles 26

Article name	Color	Layout	Tensile Force, Installation [N]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct Assembly Xtreme 2x7/4</b> MPB42101/02JJABE	Black	2x7/4	1300	18.0 × 11.0	130	300
<b>Microduct Assembly Xtreme 3x7/4 + 3x14/10</b> MPB47100/06JJABA	Black	3x7/4 + 3x14/10	5600	32.0 × 34.5	535	1300
<b>Microduct Assembly Xtreme 24x7/4</b> MPB42102/24JJABA	Black	24x7/4	9300	46.0 × 35.2	431	1300
<b>Microduct Assembly Xtreme 12x7/4 + 1x14/10</b> MPB47100/13JJABA	Black	12x7/4 + 1x14/10	8600	37.4 × 31.7	890	850
<b>Microduct Assembly Xtreme 24x7/4 + 1x14/10</b> MPB47100/25JJABA	Black	24x7/4 + 1x14/10	9700	45.4 × 45.4	935	600
<b>Microduct Assembly Xtreme 6x10/6</b> MPB42201/06JJABA	Black	6x10/6	5400	22.7 × 39.0	510	1850
<b>Microduct Assembly Xtreme 7x10/6</b> MPB42201/07JJABA	Black	7x10/6	6000	34.0 × 31.3	570	1500
<b>Microduct Assembly Xtreme 12x10/6</b> MPB42201/12JJABA	Black	12x10/6	9300	44.0 × 40.0	880	800
<b>Microduct Assembly Xtreme 24x10/6</b> MPB42201/24JJABA	Black	24x10/6	16300	64.0 × 48.6	1563	500
<b>Microduct Assembly Xtreme 8x10/6 + 1x16/12</b> MPB47201/09JJABA	Black	8x10/6 + 1x16/12	7300	40.0 × 40.0	700	900
<b>Microduct Assembly Xtreme 5x12/8</b> MPB42302/05JJOA	Black	5x12/8	5700	40.0 × 26.4	535	1550
<b>Microduct Assembly Xtreme 7x12/8</b> MPB42301/07JJABA	Black	7x12/8	7300	40.0 × 36.8	690	850
<b>Microduct Assembly Xtreme 12x12/8</b> MPB42301/12JJABA	Black	12x12/8	11400	52.0 × 47.0	1067	600
<b>Microduct Assembly Xtreme 14x12/8</b> MPB42301/14JJABA	Black	14x12/8	12100	56.0 × 52.0	1200	500
<b>Microduct Assembly Xtreme 4x14/10</b> MPB42401/04JJABA	Black	4x14/10	5400	32.0 × 32.0	525	1400
<b>Microduct Assembly Xtreme 5x14/10</b> MPB42400/05JJABA	Black	5x14/10	6700	46.0 × 30.1	640	1050
<b>Microduct Assembly Xtreme 7x14/10</b> MPB42401/07JJABA	Black	7x14/10	8700	46.0 × 42.0	830	650
<b>Microduct Assembly Xtreme 7x14/10 + 1x20/15</b> MPB47401/08JJABA	Black	7x14/10 + 1x20/15	10600	51.0 × 50.0	1011	550
<b>Microduct Assembly Xtreme 3x16/12</b> MPB42503/03JJABA	Black	3x16/12	5300	36.0 × 33.9	520	1250
<b>Microduct Assembly Xtreme 4x16/12</b> MPB42500/04JAABA	Black	4x16/12	6300	36.0 × 36.0	610	1100

Article name	Color	Layout	Tensile Force, Installation [N]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct Assembly Xtreme 6x16/12</b> MPB42501/06JJABA	Black	6x16/12	8800	52.0 × 36.0	845	700
<b>Microduct Assembly Xtreme 7x16/12</b> MPB42501/07JJABA	Black	7x16/12	10000	52.0 × 47.7	980	450
<b>Microduct Assembly Xtreme 3x16/12 + 3x7/4</b> MPB47500/06JJABA	Black	3x16/ 12 + 3x7/4	6200	35.8 × 37.6	609	1200
<b>Microduct Assembly Xtreme 4x20/15</b> MPB42602/04JJABA	Black	4x20/15	9200	54.0 × 41.3	880	750
<b>Microduct Assembly Xtreme 6x20/15</b> MPB42600/06JJABA	Black	6x20/15	12400	64.0 × 44.0	1185	500
<b>Microduct Assembly Xtreme 3x20/15 + 3x10/6</b> MPB47600/06JJABA	Black	3x20/ 15 + 3x10/6	9200	44.0 × 47.5	870	700