



# Duct bundles 16/12 mm

**Direct burial duct bundles with main duct 16/12 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 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: > 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 with a PP jacket is done by permanent ink-jet printing at 1 m intervals with the following information:

- Manufacturer and application: HEXATRONIC
- Dimension in mm: e.g. 7x14/10
- Date of manufacture (day, month, year): e.g. 15.01.2022
- Shift
- Machine
- Meter number: e.g. 0001 m
- Additional duct number marking of the individual ducts at intervals of 10 cm

## 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