



# HexaSpeed Microducts Inhouse

Single ducts for indoor use - low-smoke, flame-retardant and halogen-free

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## Features

- For blowing in fibre optic cables, specifically suitable for indoor use
- Material: PE-HD according to DIN 16874 translucent base material to identify the occupancy, white colour for unobtrusive use indoor
- Low-Smoke according to EN 61034-2, flame-retardant according to EN 61386-1 and halogen-free to DIN V VDE V 0604-2-100 (LSOH) for maximum safety in the event of a fire
- RTR internal grooving for optimal blow-in-results
- Classification according to EN 61386-22 (VDE0605) for defining the installation
- Creep test according to DIN 16874 (80 °C / 4.0 MPa / 170 h)
- Ultraviolet resistance for min. two years in Central Europe

## Application

Application possibilities according to DIN VDE 0100-520:2013-06 / IEC 60364-5-52:2009-10:

thin-walled inhouse microducts:

- Unprotected installation on plaster
- Installed in cavity wall / wood (combustible materials), in plaster, in structural cavities, in suspended ceilings
- Ceiling mounting (mounting distance < 0.80 m)

Thick-walled inhouse microducts:

- Unprotected outdoor mounting
- Unprotected mounting on plaster
- Underfloor mounting (screed)
- Installed in concrete, in cavity wall / wood (combustible materials), in plaster, in structural cavities, in suspended ceilings
- Ceiling mounting (mounting distance < 0.80 m)

## Design

The inhouse-microducts are available in the following dimensions:

- 7/5,5 mm
- 7/4 mm
- 10/6 mm
- 10/8 mm
- 12/9.8 mm
- 12/8 mm
- 14/10 mm

## Technical Information

<b>Product Color</b>	The colour of the microducts is white, translucent for unobtrusive use indoors.
<b>Temperature, Operation [°C]</b>	-15 to +90
<b>Temperature, Storage [°C]</b>	-15 to +90
<b>Temperature, Installation [°C]</b>	-15 to +90

## Conformance

**-Material:** PE-HD according to DIN 16874, Creep rupture test 170 h / 80 °C / 4.0 MPa

Classification code according to DIN EN 61386-22:

thin-walled Inhouse-microducts (7/5,5 mm; 10/8 mm; 12/9,8 mm):

2-4-3-2-2-0-0-0-4-1-1-0

thick-walled Inhouse-microducts (7/4 mm; 10/6 mm; 12/8 mm; 14/10 mm):

3-4-3-3-2-0-0-0-4-2-1-0

**Abrasion:** IEC 60794-1-2-E2B(1)

**Kink:** IEC 60794-1-2-E10, 20 x outer diameter

**Impact:** IEC 60794-1-2-E4

**Crush:** IEC 60794-1-2-E3

**Tensile:** IEC 60794-1-2-E

**Bend:** IEC 60794-1-2-E11A

**Torsion:** IEC 60794-1-2-E7

**Flexibility:** IEC 60794-1-2-E8

**Inner Clearance:** IEC 60794-5-20, IEC 60794-5-10, Ann. D

## Marking

The identification of microducts made from PE-HD is carried out using permanent, abrasion-resistant inkjet printing with a 1 m spacing with the following information:

- Manufacturer and range of application: HEXATRONIC Inhouse
- Material: PE-HD
- Outer diameter / inner diameter in mm: e.g. 12/8

-Production date (day, month, year): e.g. 10/01/2020

-Shift

-Machine

-Meterage: e.g. 001 m

## Ordering Information

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

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

- Inhouse Drum A: 1200 x 370 x 464 / 20
- Inhouse Drum B: 400 x 316 x 200 / 2,8

## Articles 13

## ARTICLE LIST

Article name	Layout	Tensile Force, Installation [N]	Diameter Ø [mm]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct Inhouse 7/5,5</b> MPB40100/TTTTBS3	7/5.5	100	7	7	13	1250
<b>Microduct Inhouse 7/5,5</b> MPB40100/TTTTAS3	7/5.5	100	7	7	13	450
<b>Microduct Inhouse 7/4</b> MPB40101/TTTTBS3	7/4	250	7	7	25	1250
<b>Microduct Inhouse 7/4</b> MPB40101/TTTTAS3	7/4	250	7	7	25	450
<b>Microduct Inhouse 10/8</b> MPB40200/TTTTCS3	10/8	250	10	10	28	2500
<b>Microduct Inhouse 10/8</b> MPB40200/TTTTAS3	10/8	250	10	10	28	220
<b>Microduct Inhouse 10/6</b> MPB40201/TTTTCS3	10/6	500	10	10	48	2500
<b>Microduct Inhouse 10/6</b> MPB40201/TTTTAS3	10/6	500	10	10	48	220
<b>Microduct Inhouse 12/9,8</b> MPB40300/TTTTCS3	12/9.8	250	12	12	35	1750
<b>Microduct Inhouse 12/9,8</b> MPB40300/TTTTAS3	12/9.8	250	12	12	35	150
<b>Microduct Inhouse 12/8</b> MPB40301/TTTTCS3	12/8	500	12	12	58	1750
<b>Microduct Inhouse 12/8</b> MPB40301/TTTTAS3	12/8	500	12	12	58	150
<b>Microduct Inhouse 14/10</b> MPB40401/TTTTCS3	14/10	500	14	14	72	1250