Microduct **Multi**

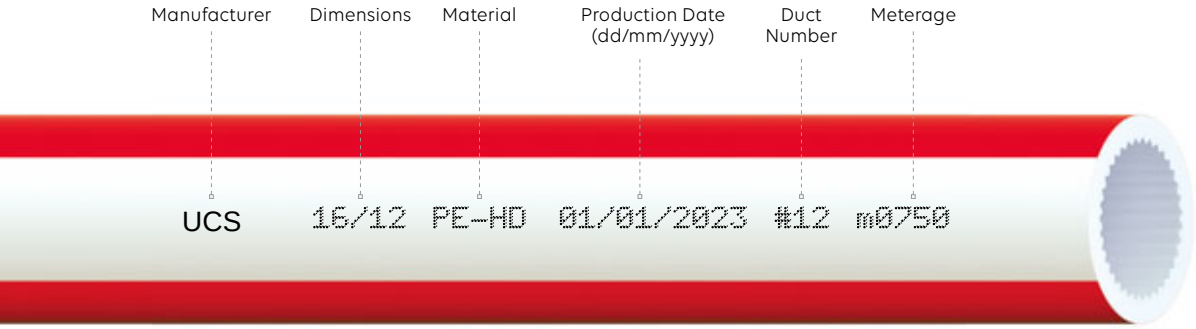
7x16/12 mm

- Available in configurations with 2 to 24+1 pathways, with sizes ranging from 7-20 mm OD
- Duct bundle with 1 mm PE sheathing material as standard no adhesion with the individual ducts
- Different sheath colour possible for improved differentiation in the trench
- Ultraviolet resistance up to 2 years in Central European climate
- Clear allocation of the internal PE-HD microducts using different colour combinations and corresponding duct numbers
- Disposable metal and wooden drum on transport frame for secure storage and handling
- Fulfilment of the specifications of major telecommunication companies like Deutsche Glasfaser, Deutsche Telekom and Vodafone

Marking

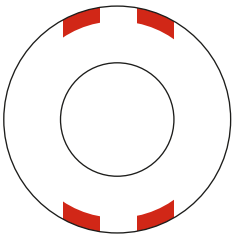
Standard Marking

Microducts are identified using a permanent inkjet marking at intervals of 1 m with the following information:

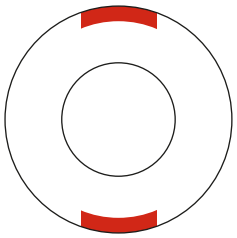


Colour Code Table

The color requirement is made with an extruded wide color stripe or a colored outer layer. The tube colors are manufactured according to DIN VDE 0888.



Color coding: Translucent with four same colored stripes



Color coding: Translucent with two same color or two different color stripes

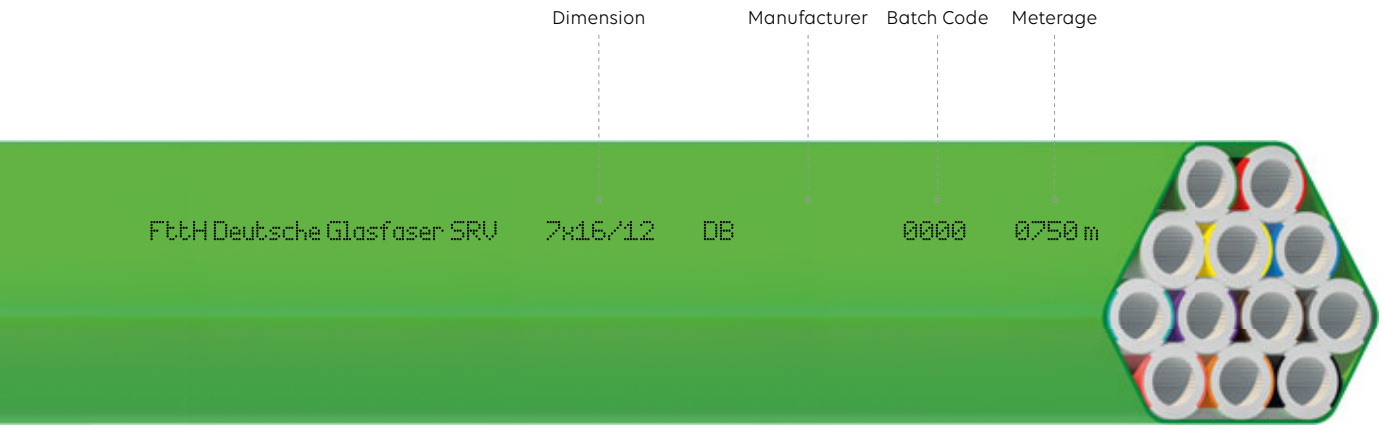
red green blue yellow white gray brown violet turquoise black orange pink

Custom colors are available for Microducts and Oversheath

Marking

Standard Marking

Microducts are identified using a permanent inkjet marking at intervals of 1 m with the following information:

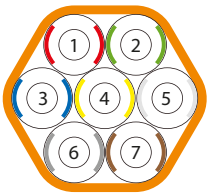


Marking of Sheathing

It is possible to additionally apply the company logo and the company name when signing the jacket of the pipe bundles. If necessary, the signature can be offset by 180°. Two vertical stripes can be extruded additionally. The jacket is permanently marked with inkjet printing. The color design of the jacket can be made according to customer requirements.

Subsequent assignment of HDPE Ducts

The color requirement is made with an extruded color stripe or a colored outer layer. The tube colors are manufactured according to DIN VDE 0888.



red green blue yellow white gray brown violet turquoise black orange pink

Custom colors are available for Microducts and Oversheath

Single Duct Specifications 16 × 2,0 mm

Dimensions	Outer Diameter :	16,0 mm Ø: -0,1 mm / +0,15 mm
	Inner Diameter :	min 11,9 mm
	Wall Thickness:	2,0 mm -0,1 mm / +0,1 mm
	Ovality :	max 5%
Material		PE-HD
Weight		0,077 kg / m
Recommended Cable		6,0 – 9,4 mm
Rib Number		62

Technical Requirements 16 × 2,0 mm

Bending Radius	240 mm	IEC 60794-5-10/IEC 60794-1-21-E11B
Tensile Strength	1000 N	IEC 60794-5-10/IEC 60794-1-21-E1
Crush Performance	500 N	IEC 60794-5-10/IEC 60794-1-21-E3
Creep Rupture Strength	170 h / 80 °C / 4 N / mm² according to DIN 16874	
Homogenity	DIN 8075	
Direct Buried	yes	
Blowing Pressure	16 bar	
Burst Pressure	min 40 bar at 20˚C	

Multi Duct Specifications 7 × 16 × 2,0 mm

Dimension of Sheathing	Outer Diameter :	50,0 x 46,0 mm
	Wall Thickness :	0,9 mm
Weight		0,730 kg / m
Tensile Strength 23°		7000 N
Crush Performance		2000 N according to IEC 60794-5-10/IEC 60794-1-21-E3
Inner Clearance Test		85% according to IEC 60794-5-10/IEC 60794-1-21-E23
Bending Radius		1000 mm according to IEC 60794-5-10/IEC 60794-1-21-E11B

Temperature

Transport and Storage	-10° to +50°C
Installation	-10° to +50°C
Operation	-20° to +60°C

Bending Radius

Single Duct	The recommended minimum bending radius is calculated as follows: 15 × outer diameter at 20 °C.
Multi Duct	The recommended minimum bending radius is: 2,5 m.

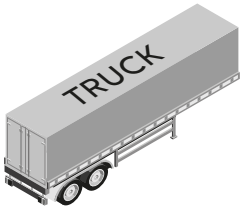
Material Specifications

Average Density	> 0,940 g/cm³ at 23 °C
UV-Resistance	2 years under the conditions in Central Europe climate according to EN ISO 4892-2
Fire Behaviour	Normal Flame-Resistance according to DIN 4102, class B2

Packaging Information

Drum Size	H: 2200 W:1100 C:82 mm
Drum Length	1100 m
Delivery Protection	The duct bundle drum is delivered on special drum support pallet. The ducts are sealed on both ends with protective caps and wrapped in black film.

Logistics Information



Drum Length	2000 m	
Number of Drums	10 Drums	12 Drums
Loading Quantity	11.000 m	13.200 m