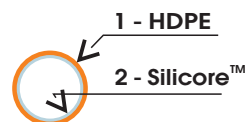


Microduct DuraMicro DI 10/8 mm

Microduct DuraMicro DI is intended for protection of optical microcables. Structural part (1) is made from high density polyethylene (HDPE). Inner surface (2) is made from permanent sliding material Silicore™ with a very low coefficient of friction and standardly with fine ribs. Outer microduct's surface is smooth. Microduct is not designed for permanent inner pressure.



Wall thickness and material classify the microduct as a Direct Install (DI) for installation to places with additional mechanical protection. Installation methods and conditions are described in the Installation manual. The microduct can be supplied also as a part of bundles DuraFlat™, DuraPack and DuraMulti.

The quality management system of Dura-Line CT is certified acc. to ČSN EN ISO 9001. Microduct does not contain dangerous chemicals in accordance to the Directive 2006/1907/EC (REACH). Microduct meets requirements of the Directive 2002/95/EC (RoHS) - content of lead, cadmium, mercury, Cr^{VI}, PBB, PBDE.

The details to parameters are in company standard CWS 103-02.

Parameter	Value	Standard, conditions
Outer diameter (OD)	10±0,1 mm	CWS 103-02
Inner diameter (ID)	min. 7,9 mm	CWS 103-02
Wall thickness (WT)	min. 0,95 mm	CWS 103-02
Ovality	max. 5%	CWS 103-02, before coiling
Blown ball test (BB test)	pass	CWS 103-02, ball diameter 6,5 mm
Inner coefficient of friction	max. 0,1	CWS 103-02
Burst pressure	min. 30 bar	ČSN EN ISO 1167-1, 2
Visual examination	free from defects	CWS 103-02
Tensile performance	no damage after the test	ČSN EN 60794-1-2, method E1A, length min. 0,2 m, elongation 7%, speed of elongation 5 mm/min.
Kink	min. 200 mm	ČSN EN 60794-1-2, method E10
Crush	no damage after the test	ČSN EN 60794-1-2, method E3, sample length 250 mm, load 450 N, recovery time 1 h
Impact	no damage after the test	ČSN EN 60794-1-2, method E4, striking surface radius 10 mm, impact energy 1 J, recovery time 1 h
Bend	no damage after the test, reduction in diameters max. 15%	ČSN EN 60794-1-2, method E11A, diameter of mandrel 400 mm, 10 turns/helix, 3 cycles
Aging	after exposure dimensions in tolerances, burst pressure min. 25 bar	exposition in oven at 60°C for 3 months
Bending stiffness	min. 0,13 N.m ²	CWS 103-02
Thermal expansion	*1,6.10 ⁻⁴ K ⁻¹	ISO 11359-2, temperature range from -20°C to +70°C
Longitudinal reversion	max. 3%	ČSN EN ISO 2505, oven, 110°C, 60 min.
Standard Dimension Ratio (SDR = OD/WT)	*10	-
Weight	*27 kg/km	-
Transport and storage temperatures	from -40°C to +70°C	-
Installation temperatures	from -10°C to +50°C	-
Operating temperatures	from -40°C to +70°C	-
Installation tensile force	max. 380 N	-
Recommended cable dimens. for blowing	from 2,4 to 5,6 mm	-
Minimum bending radius	100 mm	-
Blowing pressure	max. 16 bar	max. 2 hours at max. +50°C
Outdoor exposure limit	max. 12 months	Central Europe conditions

* informative value

MODIFICATION

COLOR LIST

MARKING

PACKING AND STORAGE

Microduct DuraMicro DI 10/8 mm

- **Standard** is a basic material version convenient for most applications.
- **UV stabilized** is more resistant to ultraviolet radiation. Storability is prolonged to 24 months at Central Europe outdoor conditions.
- **Antistatic** - lower electrical surface resistance.
- **Preinstalled pulling cord** with tensile strength min. 300 N.

Microduct is supplied in natural translucent version or in a wide scale of the following RAL list. Longitudinal stripes with the same color are another possibility.



Microduct is printed in whole length according to customer requirement. Printing color is contrasting to microduct color. Printing can be doubled in opposite sides as an option. Printing scheme is repeating after 1 metre.

Example of printing scheme:

DURA-LINE CT DuraMicro DI 10/8 mm SILICORE 03/2009 LOT No 12345678 0000 m >|<

Microduct is wound on disposable drum (MTB) and coil is wrapped by stretch film. Microduct's ends are protected by plastic caps protecting them from impurities penetrating into microduct. End of microduct is minimally 10 mm under the flange edge. MTB flanges are regularly made from chipboard and have to be protected from moisture.

Option - MTB flanges can be made from Oriented Strand Board (OSB) which is waterproof.

MTB core diameter is 415 mm.

All drum dimensions are informative values.

Drum width is measured near center in place of axis. The periphery width can be higher up to 10% because of pressure winded microducts.

Drum	Flange diameter (mm)	Drum width (mm)	Shaft hole diameter (mm)	Winding maximum length (m)	Informative weight of full drum with chipboard flanges (kg)
MTB 1	495	640	65	300	13
MTB 2	600	640	65	900	34
MTB 3	900	640	65	3 000	99
MTB 7	1 000	550	82	3 200	108
MTB 8	1 030	640	65	3 800	127
MTB 9	1 000	510	82	2 900	100
MTB 12	1 030	640	82	3 800	127
MTB 16	1 250	740	65	6 600	209
MTB 17	900	500	65	2 200	76