Technical Data Sheet

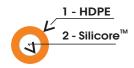
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DESCRIPTION, APPLICATION

Microduct DuraMicro DB 12/8 mm

Microduct DuraMicro DB is intended for protection of optical microcables. Stuctural 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 Burial (DB). Installation methods and conditions are described in the Installation manual. The microduct can be supplied also as a part of bundles DuraFlatTM and DuraMulti.

LEGISLATION

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.

PARAMETERS

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

Parameter	Value	Standard, conditions	
Outer diameter (OD)	12±0,1 mm	CWS 103-02	
Inner diameter (ID)	min. 7,9 mm	CWS 103-02	
Wall thickness (WT)	min. 1,9 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. 60 bar	ČSN EN ISO 1167-1, 2	
Visual examination	free from defects	CWS 103-02	
Crush - residual deformation	max. 15% OD = max. 1,8 mm	ČSN EN 60794-1-2, E3, sample 200mm, active 100mm,	
		force 1 680 N, 3 mm/min., action 60 s, recovery 20 s	
Crueb proceuro forco	min. 1 000 N	ČSN EN 60794-1-2, E3, sample 200mm, active 100mm,	
Crush - pressure force		ID deformation by 15%, speed 3 mm/min.	
Impact	no damage after the test,	ČSN EN 60794-1-2, method E4, striking surface	
	dimens. in tolerances after recovery	radius 10 mm, impact energy 15 J, recovery time 1 h	
Bending stiffness	min. 0,36 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)	*6	-	
Weight	*59 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. 840 N	-	
Recommended cable dimens. for blowing	from 2,4 to 5,6 mm	-	
Minimum bending radius	120 mm	-	
Blowing pressure	max. 20 bar	max. 2 hours at max. +50°C	
Outdoor exposure limit	max. 12 months	Central Europe conditions	

^{*} informative value



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MODIFICATION

COLOR LIST

MARKING

PACKING AND STORAGE

Microduct DuraMicro DB 12/8

- 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.
- Antirodent is more resistant to rodents because of special repellent additives.
- Preinstalled pulling cord with tensile strength min. 300 N.

Microduct is supplied in natural translucent version or in wide scale of 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

Example of printing scheme:

DURA-LINE CT DuraMicro DB 12/8 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)
MTB2	600	640	65	500	40
МТВ3	900	640	65	2 000	136
MTB7	1 000	550	82	2 000	140
MTB8	1 030	640	65	2 600	177
MTB9	1 000	510	82	2 000	140
MTB12	1 030	640	82	2 600	177
MTB13	1 190	510	82	3 000	213