

Cable ducts

1 General

- 1.1 The duct features an internal bonded low friction dry silicone liner to reduce frictional contact.
 1.2 The duct is supplied in coils or on drums.

2 Raw Materials

HDPE raw materials are used.
 Density polyethylene 0,94 – 0,96 g/cm³
 Mass flow rate of polyethylene 0,4 – 1,2 g/10min

3 Dimensions

'SIZE'	MEAN OUTSIDE DIAM			Ovality	WALL THICKNESS			MASS nom g/m	Max install tension	
	min	NOM	max		min	NOM	max		kN	kg
16 mm	15,6	16	16,4	1,2	2	2,0	2,4	84	0,19	19
					2,7	3,0	3,1	118	0,24	25
					1,8	2,0	2,2	109	0,22	22
20 mm	20	20	20,3	1,2	2,3	2,3	2,7	123	0,27	28
					2,7	3,0	3,1	154	0,31	32
					1,8	2,0	2,2	139	0,28	28
					2,1	2,3	2,4	157	0,32	33
25 mm	25	25	25,3	1,2	2,4	2,5	2,55	170	0,36	37
					2,7	3,0	3,1	199	0,41	41
					1,8	2,0	2,2	181	0,37	37
32 mm	32	32	32,3	1,3	2,0	2,2	2,3	198	0,41	41
					2,3	2,5	2,7	222	0,47	47
					2,7	3,0	3,1	262	0,54	54
					2,2	2,5	2,7	283	0,57	57
40 mm	40	40	40,4	1,4	2,7	3,0	3,1	335	0,69	69
					3,1	3,4	3,5	375	0,78	78
					3,4	3,7	3,8	405	0,85	85
					3,7	4,0	4,1	434	0,92	92
					2,7	2,8	3,1	399	0,87	87
50 mm	50	50	50,4	1,4	2,9	3,0	3,3	425	0,93	93
					3,7	4,0	4,1	555	1,17	117
					4,3	4,6	4,7	630	1,34	134
					2,7	2,8	3,1	508	1,11	111
63 mm	63	63	63,5	1,5	3,7	3,8	4,2	678	1,50	150
					4,9	5,0	5,4	875	1,94	194
					5,8	5,8	6,5	1001	2,26	226
					2,7	2,8	3,1	610	1,33	133
75 mm	75	75	75,5	1,6	3,9	4,0	4,5	857	1,89	189
					5,9	6,0	6,5	1249	2,78	278
					6,7	6,8	7,1	1399	3,12	312
					2,7	2,8	3,1	736	1,61	161
					5,0	5,1	5,6	1306	2,90	290
90 mm	90	90	90,6	1,8	7,7	8,0	8,1	1978	4,32	432
					8,1	8,2	8,6	2023	4,52	452
					2,7	2,8	3,1	905	1,97	197
					4,2	4,2	4,8	1340	3,03	303
110 mm	110	110	111,0	2,2	6,5	6,6	7,0	2058	4,58	458
					7,0	7,1	7,6	2203	4,91	491
					8,1	8,2	8,7	2518	5,62	562
					10,0	10,0	10,7	3016	6,81	681
125 mm	125	125	125,8	2,5	7,3	7,4	7,9	2625	5,85	585
					9,1	9,2	9,8	3213	7,19	719

Diameters and thicknesses are measured to nearest 0.1mm. Please note that the ovality will be changed at a coiled product

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3.1 The duct shall have dimensions (mm) as defined above.

3.2 The weight (mass) of the duct shall be nominally calculated for 1 m pipe:

$$(OD - wt) * wt * \pi * density$$

where:

OD (outside diameter) and wt (wall thickness) is in mm, and density for cable duct material is 0.96 g/cm³

4 Duct Performance

4.1 Physical properties

Test	Standard	Result
Impact test 5 kg	DS EN 61386	Ok
Compression	DS EN 61386	> 450 N
Yield stress	EN ISO 6259	> 17 MPa
Ring stiffness	EN ISO 9969	≥ 8 kN/m ²
Longitudinal reversion	EN ISO 2505	< 3%
Coefficient of friction	S201-10150	≤ 0,12
Leak test	Internal	Pass

Leak test: Tested in a closed system at min. 6 bar to max. 9 bar (15 min)

Blowing pressure at installation: Short time maximum pressure: 12bar

Minimum bend radius: 15 x Outside diameter

Exposure: The ducts shall be UV stabilised to withstand daylight exposure period of at least 12 months. However, for optimum performance, the duct is best stored for no longer than 6 months if outdoors.

Temperature: Storage and transport between -15°C and +50°C, installation between -15°C and +40°C

Marking: Manufactures name, dimensions, ID number, date - can be customized

Environmental considerations: Can be disposed to recycling

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