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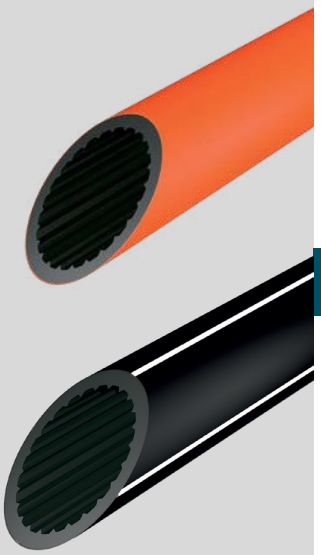
TECHNICAL DATA SHEET

EVODUCT GROOVE

Optical cable conduits with ribbed inner surface

Conformity:
EN 61386-1
EN 61386-24



PRODUCT DESCRIPTION

These rigid, high-density polyethylene (HDPE) cable conduits come standard with a smooth outer surface and ribbed inner surface.
The standard conduits are black (RAL 9005) or orange (RAL 2004), with 4 (every 90°) white single or double longitudinal lines along the entire length. The conduits bear a white thermal labelling located at 1 m intervals.
Material: HDPE (high density polyethylene), impact resistance code N, compression strength 750N, temperature range from - 25°C to +90°C.
Conduit produced according to: EN 61386-1; DIN 8074/8075; EN 61386-24 specifications.

APPLICATION AREA

When constructing ground-buried optical cable and communication cable systems, the best solution in ensuring a long-term protection of the cables is rigid plastic conduits. The conduits can be buried directly in the soil, in concrete, or through water barriers, in concrete pipes, channels and blocks, along bridges and flyovers. The conduits are used for the installation of optical fibre cables employing traditional installation methods - pulling with a cord or blowing.

PRODUCT DIMENSIONS

Nominal size	25	32	32	40	40	50	50	63	63
Inside ID, mm	20.4	27.6	26.0	34.0	32.6	44.0	40.8	55.8	51.4
Wall thickness, mm	2.3	2.2	3.0	3.0	3.7	3.0	4.6	3.6	5.8
SDR class	11	13,6	11	13,6	11	17	11	17	11
Coil length, m	500	300	1000	1000	1000	500	500; 750	400	400

Impact resistance:
N (normal)
Compression strength:
750N

Open product

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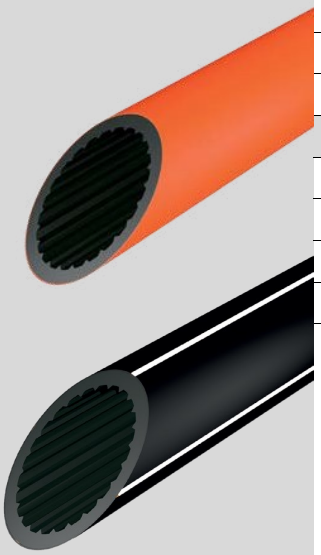

PRODUCT PARAMETERS

Parameter	Value	Test method
Material	HDPE	
Temperature resistance, min/max C°	-25 .. +90 °C	
Combustion	Combustible	EN 61386-1
Impact resistance class	N	EN 61386-24
Compression strength, N	750	EN 61386-24
Temperature stability, 110°C 1h	≤3%	EN ISO 2505
Tensile strength at yield	≥350%	ISO 6259-1
Resistance to internal pressure, bar at 20°C / 100h		
SDR class 11	24,8	EN ISO 1167
SDR class 13,6	19,7	EN ISO 1167
SDR class 17	15,5	EN ISO 1167
Service life, years	>50 years	EN 9967
Recommendation for installation by blowing	Air pressure range: 0.8-1.2 MPa	
	Air flow range: 10-12 m^3/min	

Impact resistance:
N (normal)
Compression strength:
750N

Open product

PULLING FORCE AT 20°C

Nominal size	25	32	32	40	40	50	50	63	63
	Maximum allowable inital pulling force, kN								
Pipe pulling time in hours t <10 h	1,6	2,1	2,7	3,5	4,2	4,4	6,6	6,7	10,4
Pipe pulling time in hours 10 h < t < 20 h	1,4	1,8	2,3	3	3,6	3,8	5,6	5,7	8,9
Pipe pulling time in hours t > 20 h	1,2	1,5	2	2,6	3,2	3,3	4,9	5	7,8