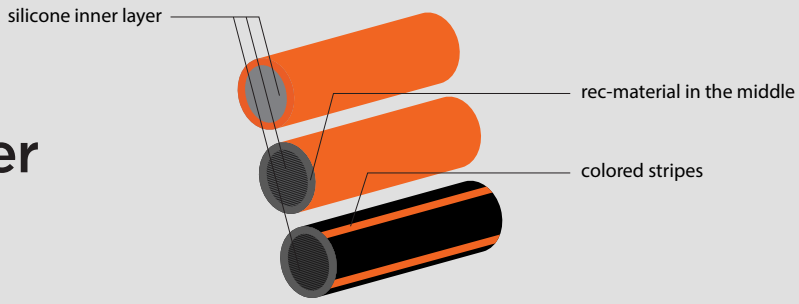
HellermannTyton

Technical Data Sheet

Standard silicone core ducts in diameter 20 ... up to 110 mm



Standard ducts are designed for installation and protection of fibre optical cables and power cables. Standard Duct provides easier installation of cables as well long term protection against mechanical load and other loads.

Standard ducts are constructed of two or three layers. All ducts have an inner layer of silicone (grooved or smooth). Recycled material can be used in the middle layer. The outer layer is colored or black with colored stripes.

Standard Ducts can be installed with ploughing method or with horisontal drilling method or with open trench method.

Application area - Direct Bury or Direct Install - depends on wall thickness of Standard Duct. Ducts with below SDR 17 should be used only at direct install application.

standard ducts				
outside diameter	wall thickness			
	SDR 11	SDR 13,6	SDR 17	SDR 26
mm	mm	mm	mm	mm
25	2,3	2,0		
32	3,0	2,4	2,0	
40	3,7	3,0	2,4	
50	4,6	3,7	3,0	2,0
63	5,8	4,7	3,8	2,5
75	6,8	5,6	4,5	2,9
90	8,2	6,7	5,4	3,5
110	10,0	8,1	6,6	4,2

The above represents most standard sizes, other OD/ID's are available on request.
Standard Ducts are available:

- in black or orange colour. Other colours available on request.
- in wooden drums or coils *Standard Ducts correspond to requirements of EN 61386-24.*
- the tensile strength of the polyethylene stated by the supplier shall be no less than 23MPa.
- the derived density of the polyethylene shall be not less than 0.95 g/ml when determined in accordance with Appendix B of BS 3412 Method B5.
- the melt flow rate of the polyethylene compound shall be less than 0.4g/600s when measured in accordance with ISO 1133:2000.

Ovality: Before the coiling the ovality shall not exceed 3% (ducts up to OD 40mm). For ducts over nominal 40mm, the ovality shall not exceed 5%.

Tensile: The duct shall withstand the stated axial load when applied at 100mm/min to a 500mm gauge length. The elongation due to this load shall not exceed 5%.

Stiffness: of each duct at 5% deflection shall exceed that stated below. ASTM 2412

Compression: The load expected to give 15% deflection on a 200mm length is given. EN 50086-2-4:

Bending: Minimum recommended bend radius is 10 x OD

Impact: 15J impact at -5°C when tested to EN 50086-2-4. (no cracks)

Min-max recommendations		
Temperature ranges	for installation	-20 ... +60°C
	transport, storage, operation	-45 ... +60°C
Outdoor exposure at Central Europe without protection		up to 24 months

We value environmental and sustainable way of acting:

• All plastic materials left would be recycled by Weerec OÜ, **www.weerec.ee**