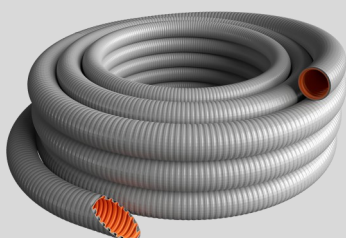
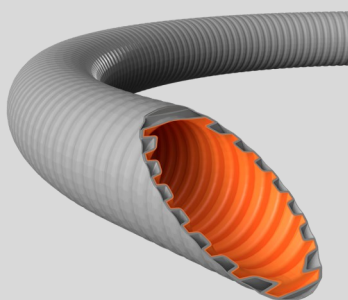


TECHNICAL DATA SHEET



Compression strength:
750 N/5cm

Open product

EVOEL FM5-0H-SMART

sheathed medium compression strength
 corrugated halogen-free conduits

Conformity:
 EN 61386-1
 EN 61386-22
 EN 50642
 Classification: 33433

PRODUCT DESCRIPTION

Flexible conduit made of a special, halogen-free material, ideally suitable for installations in concrete. The conduit has a sheath made of a plasticised material and therefore features a medium impact strength and water resistance. The special structure of the inner surface of the conduit with outstanding gliding properties allows to considerably extend the cable-pulling distances and reduce the length of installation work.

The colour of the cable sheath is light grey with an orange inner gliding layer.

Material: a special plastic, compression strength 750 N/5cm, temperature-resistance from - 25 to +105°C, self-extinguishing, halogen-free, corrosion-resistant.

Conduit is produced according to: EN 61386-1, EN 61386-22, EN 50642 standard specifications.

APPLICATION AREA

The conduits are specifically recommended for installations in concrete, can be used for installations in hollow walls, partitions, or suspended ceilings. Conduits of this type are the best solution for exposed and concealed installations, underground installations, connection of equipment or machine tools in schools, kindergartens, hospitals, hotels, theatres, cinemas, museums, stadiums, arenas, shopping-centres, airports, railway terminals, and office buildings.

PRODUCT DIMENSIONS

Nominal size	16	20	25	32	40	50
Outside OD, mm	16.0	20.0	25.0	32.0	40.0	50.0
Inside ID, mm	11.1	14.5	18.4	23.9	30.7	39.4
Roll, m	50	50	50	50	25	25
On pallet, m	2400	1500	1000	600	350	300
Bend radius ≥ mm	48	60	75	96	160	200

PRODUCT PARAMETERS

Parameter	Value	Test method
Material	Special plastic	
Combustion	Flame retardant, self-extinguishing	EN 61386-1
Impact strength, J at 25°C	>2 J	EN 61386-1
Compression strength, N/5cm	>750	EN 61386-1
Temperature resistance, min/max °C	-25 .. 105 °C	EN 61386-1
Total halogen content %	≤ 0,40 %	EN 50642
Flexibility	Pliable	EN 61386-1

TECHNICAL DATA SHEET

EVOEL classification codes according to EN 61386-1

Digit in the classification code										
1		2		3		4		5		
Compression strength		Impact strength		Minimum operating temperature t°		Maximum operating temperature t°		Flexibility		
Codification number	1	125N very low	1	0.5J (0.5 kg/100mm) very low	1	+5°C	1	+60°C	1	rigid
	2	320N low	2	1J (1.0 kg/100mm) low	2	-5°C	2	+90°C	2	pliable
	3	750N medium	3	2J (2.0 kg/100mm) medium	3	-15°C	3	+105°C	3	pliable/self recovering
	4	1250N high	4	6J (2.0 kg/300mm) high	4	-25°C	4	+125°C	4	flexible
	5	4000N very high	5	20.4J (6.8 kg/300mm) very high	5	-45°C	5	+150°C		
							6	+250°C		
							7	+400°C		
				3	3	4	3	3		

Example: electrical installation conduit with medium compression strength (3), medium impact strength (3), minimum operating temperature -25°C (4), maximum operating temperature +105°C (3), pliable/self recovering (3).

STANDARTS APPLICABLE TO CONDUITS

Number	Title
EN 61386-1	Conduit systems for cable management - Part 1: General requirements.
EN 61386-21	Conduit systems for cable management - Part 21: Particular requirements. Rigid conduit systems.
EN 61386-22	Conduit systems for cable management - Part 22: Particular requirements. Pliable conduit systems.
EN 61386-23	Conduit systems for cable management - Part 23: Particular requirements. Flexible conduit systems.
EN 50642	Cable management systems—Test method for content of halogens.
EN 50267-2-2	Common test methods for cables under fire conditions - Test on gases evolved during combustion of materials from cables. Parts 2-2: Procedures. Determination of degree of acidity of gases for materials by measuring pH and conductivity.
EN 61034-2	Measurement of smoke density of cables burning under defined conditions. Part 2: Test procedure and requirements.
EN 60332-1-2	Tests on electric and optical fibre cables under fire conditions. Parts 1-2: Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame.
EN 60332-1-3	Tests on electric and optical fibre cables under fire conditions. Parts 1-3: Test for vertical flame propagation for a single insulated wire or cable. Procedure for determination of flaming droplets/particles.
EN 61386-24	Conduit systems for cable management - Part 24: Particular requirements for conduit systems buried underground.