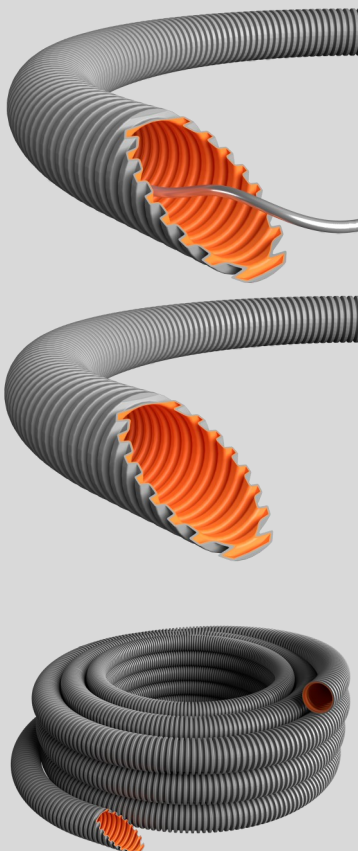


TECHNICAL DATA SHEET



Compression strength:
750 N/5cm

EVOEL FM-0H-SMART medium compression strength corrugated halogen-free conduits

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

PRODUCT DESCRIPTION

Pliable, halogen-free electrical installation conduit made of a special grey (RAL 7037) plastic material, with an orange inner gliding layer. The conduit features a medium mechanical resistance, high thermal resistance, and substantial flexibility parameters. 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. On demand cable conduits might be equipped with a metal pulling wire.

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

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

APPLICATION AREA

Due to the use of the halogen-free, thermally resistant material, the conduits are suitable for simple concealed installations as well as for installations in hollow walls, partitions, and suspended ceilings in public buildings: schools, kindergartens, hospitals, hotels, theatres, cinemas, museums, stadiums, arenas, shopping-centres, airports, railway terminals, and office buildings

PRODUCT DIMENSIONS

Outside OD, mm	16.0	20.0	25.0	32.0	40.0	50.0
Inside ID, mm	11.4	14.2	18.4	23.9	30.7	39.4
Coil, m	100	50	50	50	25	25
On pallet, m	2400	1200	1500	800	500	400
Bend radius \geq 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
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	
Codification number	Compression strength		Impact strength		Minimum operating temperature t°		Maximum operating temperature t°		Flexibility		
	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
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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 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.