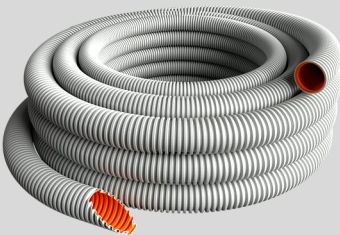
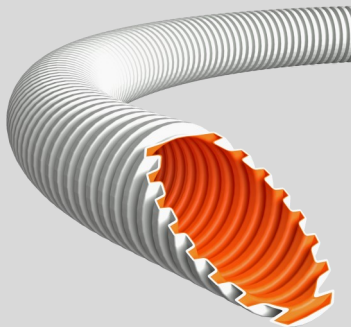


TECHNICAL DATA SHEET



Compression strength:
320 N/5cm

EVOEL FL-0H-SMART

low compression strength
corrugated halogen-free conduits

Conformity:
EN 61386-1
EN 61386-22
Classification: 22433

PRODUCT DESCRIPTION

Flexible, halogen-free electrical installation conduit made of a special light grey (RAL 7035) plastic material, with an orange inner gliding layer.

The conduit features a low mechanical resistance, a high thermal resistance, and a high flexibility at constant cross-section 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.

Material: a special plastic, low compression strength, low impact strength, temperature-resistance from -25 to +105°C, self-extinguishing, halogen-free, corrosion-resistant. Conduit is produced according to: EN 61386-1; EN 61386-22 standard specifications.

APPLICATION AREA

The conduits are specifically recommended for outdoor installations, can be used for installations in hollow walls, partitions, or suspended ceilings in public buildings: schools, kindergartens, hospitals, hotels, theatres, cinemas, museums, stadiums, arenas, malls, airports, railway stations, 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	11.6	14.7	19.1	24.6	31.5	40.2
Roll, 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	> 1J	EN 61386-1
Compression strength, N/5cm	>320	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			

2	2	4	3	3
---	---	---	---	---

Example: electrical installation conduit with low compression strength (2), low impact strength (2), 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 ca-
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
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
EN 61386-24	Conduit systems for cable management - Part 24: Particular requirements for conduit systems buried underground.