Langervaldes iela 2a,
Jelgava, Latvia, LV-3002

Phone: +371 630-943-00
e-mail: Info@evopipes.lv

Website: www.evopipes.lv

TECHNICAL DATA SHEET

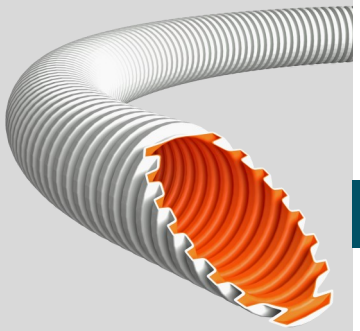
EVOEL FL-0H-SMART

low compression strength
corrugated halogen-free conduits

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

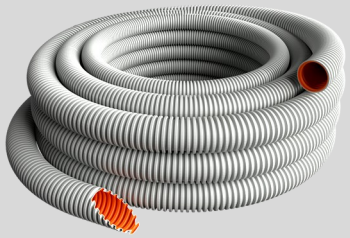
PRODUCT DESCRIPTION

Flexible, halogen-free electrical installation conduit made of a special light grey 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 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.



Compression strength:

320 N/5cm

Open product

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
Bend radius ≥ mm	48	60	75	96	160	200

PRODUCT PARAMETERS

Parameter	Value	Test method
Material	Special plastic	
Combustion	Flame retardant, self- extingushing	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 61386-22

TECHNICAL DATA SHEET

EVOEL classification codes according to EN 61386-1

Codification number	Digit in the classification code									
	1		2		3		4		5	
	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.