

TECHNICAL DATA SHEET



EVOEL SL-0H

Low resistance, rigid, halogen-free conduits

According to EN 61386-1
EN 50642
Classification: 22431

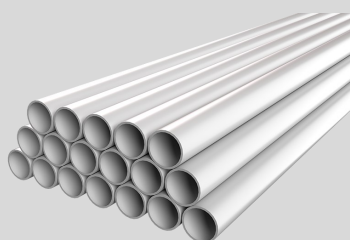
PRODUCT DESCRIPTION



EVOEL SL-0H is rigid, halogen-free electrical installation conduit made of a special, grey plastic. The conduit features low mechanical resistance and is manufactured in straight 3m bars.

Material: halogen-free plastic, low compression strength, low impact strength, temperature resistance from -25 °C to +105 °C, non flame propagator, self-extinguishing, corrosion-resistant.

Pipes are manufactured according to EN 61386-1, EN 61386-21, EN 50642.



PRODUCT AREA

The conduits are recommended for safe exposed installations in industrial buildings as well as for use in engineering and anywhere with aggressive substances in the atmosphere. The conduits are specifically recommended for use in low temperatures as well as in public buildings: 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
Outer OD, mm	16.0	20.0	25.0	32.0	40.0	50.0
Inner ID, mm	14	17,6	22,2	28,8	36,4	46,4
Length, m	3	3	3	3	3	3
Pack, m	108	75	48	27	21	21

Mehāniskā izturība:
320 N/5cm

Open product

PRODUCT PARAMETERS

Parameter	Value	Atbilstība standartiem
Material	PP	
Combustion	Flame-retardant, self extinguishing	EN 61386-1
Impact strength, J pie C°	>1J, 5 °C	EN 61386-1
Compression strength, N/5cm	>320	EN 61386-1
Temperature resistance, min/max C°	-25/ +105 °C	EN 61386-1
Total halogen content %	≤ 0,40 %	EN 50642
Flexibility	Rigid	EN 61386-1

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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		
					2	2	4	3	1	

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), rigid (1).

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.