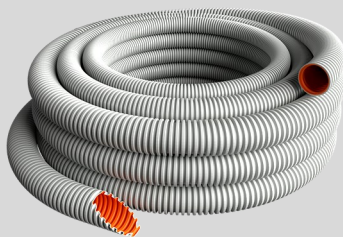
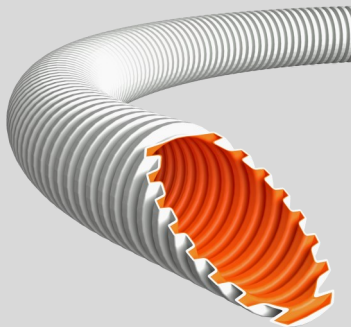


# TECHNICAL DATA SHEET



Compression strength:  
**320 N/5cm**

**Open product**

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

<b>2</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>3</b>
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**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 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.