

Halogen-free protective conduits WO/LSZH

Product description and application:

Corrugated tube with pulling wire designed for laying and protecting optical indoor and outdoor cables in installations in areas requiring enhanced fire protection (self-extinguishing product), with strict limits on toxic compounds released during combustion (halogen-free product). Recommended for industrial installations exposed to high temperatures and mechanical stress. Not recommended for outdoor use. They feature low rigidity, moderate mechanical strength, and impact resistance achieved through optimized cross-section design and material modification. The appropriately designed longitudinal profile ensures low friction, enabling easy cable installation over long distances. Standards compliance: PN-EN 61386-1; 2014/35/EU (LVD).

Available versions:

- Standard
- With pilot: steel wire facilitating cable pulling

Features:

- Compression strength: 750 N
- Impact resistance: 2.0 kg/100 mm
- Temperature range: -25°C to +120°C (continuous), +180°C (short-term)
- Flexibility: flexible tube
- Flame behavior: self-extinguishing tube
- Material: modified polyamide 6 (PA6) NYLON
- Color: black

Material properties:

Self-extinguishing material, i.e., non-flame-propagating and halogen-free, with a high mechanical strength coefficient and excellent impact resistance. Characterized by low elongation at break, moderate elasticity under tensile load, and high resistance to pressure as well as most chemical compounds. The material exhibits very good dielectric properties and high resistance to UV radiation.

Technical specifications:

	Nominal diameter DN (mm)	Inner diameter d (mm)	Outer diameter D (mm)	Packing unit (m)
WO/LSZH-10	10	7	10	50, 100

Fields of application:

Indoor wall installations not exposed to direct sunlight (UV)	recommended
Flush-mounted installations	recommended
Outdoor wall installations with direct sunlight (UV)	acceptable
Gypsum walls	recommended
Combustible surfaces with potential fire spread (e.g., wood)	recommended
Underground installations laid directly in the ground	not permitted
Poured concrete, vibrated concrete	not permitted
Vibrated and steam-cured concrete	not permitted
Electrical devices, industrial machinery	recommended
Automation, movable equipment where installation is exposed to continuous bending	recommended
Chemical and food industry installations	recommended
Automotive industry	recommended
Shipbuilding industry	recommended
Aerospace industry	recommended

Resistance to selected chemicals:

Acids	weak	none
	strong	none
	oxidizing	none
	hydrofluoric acid	none
Alkalis	dry halogens	none
	weak	high
	strong	high
Solvents	alcohols	high
	esters	high
	ketones	high
	ethers	high
Oil and fuel materials	chlorinated hydrocarbons	medium
	benzene	high
	gasoline	high
	fuel blends	high
	mineral oils	high
	fatty oils	high



Easy cable
pulling



Flexible



Halogen free



High impact
resistance



Self-extinguishing



UV-resistant