

Protective conduits WO

Product description and application:

Corrugated tube with pulling wire for indoor and outdoor cable protection. Conduits intended for the installation and protection of cables in building and industrial systems, suitable for both concealed and surface applications. Particularly recommended for areas with an increased risk of fire spread, such as wooden structures, attics, and loft spaces. They provide high strength and resistance to mechanical impact and are widely used in vibrated concrete. Despite their high mechanical durability, the conduits remain relatively flexible and retain their formed shape. A properly designed longitudinal profile ensures a low friction coefficient, enabling easy cable pulling over long distances.

Compliant with the following standards: PN-EN 61386-1; PN-EN 60423; 2014/35/EU (LVD).

Available versions:

- standard
- with pull wire: steel wire to facilitate cable installation.

Features:

- Compression strength: 750 N
- Impact resistance: 2.0 kg / 100 mm
- Temperature range: -25°C to +60°C (continuous)
- Flexibility: flexible conduit
- Flammability: self-extinguishing
- Material: modified PVC
- Colour: grey, black

Material properties:

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

Technical specifications:

	Nominal diameter DN (mm)	Inner diameter d (mm)	Outer diameter D (mm)	Packing unit (m)
WO-16	16	10,5	16	25, 50, 100
WO-20	20	15	20	25, 50, 100
WO-25	25	25	19	25

Fields of application:

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

Resistance to selected chemicals:

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



Easy cable
pulling



Lead-free



Flexible



High impact
resistance



Self-extinguishing



UV-resistant