

TOXFREE® LSZH ALARMS Z1OZ1-K (AS+)

Fire resistant cable for alarm systems

ACCORDING TO: UNE 211025



C_{ca}

APPLICATION

The TOXFREE® LSZH ALARMS Z1OZ1-K (AS+) fire resistant cable is designed to comply with the regulations of Fire Detection and Alarm systems.

It is recommended to be used in public places. It should not be used for direct connection to the power supply network or other low impedance sources.

- Fire detection.
- Fire alarms.

CONSTRUCTION

Conductor

Electrolytic annealed copper, class 5 (flexible) according to EN 60228 and IEC 60228.

Insulation

Mica tape + Special polyolefin, type T17 according to EN 50363-7, with low smoke emission and halogen-free.

Core identification: Red - Black.

Assembly of cores

The cores are twisted together.

Screen


Overlapping aluminium-polyester tape screen with 100% coverage + tinned copper drain wire.


Outer sheath


Fire-retardant polyolefin, type DMZ-E according to UNE 21123-4, with low smoke emission and halogen-free fumes in case of fire.


Red colour.


CHARACTERISTICS


 **Electrical performance**
Low voltage: 300/500 V.

 **Thermal performance**
Maximum conductor temperature: 70°C.
Maximum short circuit temperature: 160°C (maximum 5 s).
Minimum operating temperature: -40°C (static, with protection).


 **Fire performance**
Flame non-propagation according to EN 60332-1/ IEC 60332-1.
Fire non-propagation according to EN 50399.
Reaction to fire CPR: C_{ca}-s1a, d1, a1 according to EN 50575.
Fire resistant (PH120) minimum 120 minutes at 840 °C according to IEC 60331-2 / EN 50200.
Low smoke halogen free according to EN 60754-1 / IEC 60754-1.
Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.
Smoke density according to EN 61034 / IEC 61034:
Light transmittance > 80%.


 **Mechanical performance**
Minimum bending radius: 10x cable diameter.

 **Environmental performance**
Chemical & Oil: Acceptable.
Water resistance: AD3 Sprays.

 **Installation conditions**
Open air.
In conduit.
On tray.

STANDARDS / COMPLIANCE

 **According to:**
UNE 211025

 **Standards and approvals**
CE / RoHS

 **CPR (Construction Products Regulation)**
C_{ca}-s1a, d1, a1



TOXFREE[®] LSZH ALARMS Z1OZ1-K (AS+)

DIMENSIONS

Cross-section (mm ²)	Diameter (mm)	Weight (kg/km)
2 x 1,5	7,8	80
2 x 2,5	8,5	100