



TOXFREE PLUS 331 ZH RZ1-K (AS+)

LSZH and fire resistant power cable, for emergency circuits.

IEC 60502-1 / UNE 211025

DESIGN

Conductor

Electrolytic copper, class 5 (flexible), based on

EN 60228 and IEC 60228.

Insulation

Mica tape + XLPE

The standard identification of insulated conductors is the following:

- 1 x Natural
- 2x Blue + Brown
- 3 G Blue + Brown + Green/yellow
- 4 G Brown + Black + Grey + Green/yellow
- 5 G Brown + Black + Grey + Green/yellow + Blue

Outer sheath

Low Smoke Zero Halogen (LSZH) polyolefin. Orange colour, non-toxic, fire retardant and fire resistant.

APPLICATIONS

Toxfree Plus RZ1-K (AS+) is a fire resistant cable, specially designed to ensure the power supply to emergency circuits in the event of fire. During a fire you need critical circuits to work for life safety (signaling lights, fume extractors, acustic alarms, water pumps, etc) and a secure plant shutdown. For this reason, its use is highly recommended in public places such as: hospitals, tunnels, offices, production plants, laboratories, hotels, etc.



EN 50575

C₂-s1a, d1, a1

TOXFREE PLUS 331 ZH RZ1-K (AS+)



CHARACTERISTICS



Electrical performance

LOW VOLTAGE 0,6/1kV



Standard

IEC 60502-1 / UNE 211025

Approvals

CE RoHS



C_{ca}-s1a, d1, a1



Thermal performance

Maximum service temperature: 90°C. Maximum short-circuit temperature: 250°C (max. 5 s). Minimum service temperature: -40°C (fixed and protected installations).



Mechanical performance

Minimum bending radius: x5 cable diameter. Impact resistance: AG2 Medium severity.



Chemical performance

Chemical & Oil resistance: Acceptable.

Water performance

Water resistance: AD5 Jets.



Fire performance

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Flame non-propagation based on UNE-EN 60332-1 and IEC 60332-1.

Fire non-propagation based on UNE-EN 60332-3 and IEC 60332-3 and EN 50399.

Fire resistant:(PH120) minimum 120 minutes at 840°C: Based on EN 50200 and IEC 60331-2 for Ø cable < 20 mm. Based on EN 50362 and IEC 60331-1 for \emptyset cable > 20 mm. 180' at 950°C (cat C) category C,W & Z based on BS6387. Fire resistant 180' at 950°C (cat C) category C,W & Z based on BS6387 (300/500V).

LSZH (Low Smoke Zero Halogen) based on UNE-EN 60754-1 and IEC 60754-1.

Low smoke emission based on UNE-EN 61034 and IEC 61034: Light transmittance > 60%.

Low corrosive gases emission based on UNE-EN 60754-2 and IEC 60754-2.

Reaction to fire CPR: C_{ca} -s1a,d1,a1, according to EN 50575.



Other

Meter by meter marking.

Installation conditions

Open Air. Buried. In conduit.



Applications

Industrial use. Emergency circuits Public places.