

TOXFREE® MARINE PLUS XZ1-K (AS+)

The marine fire resistant power cable.

ACCORDING TO: IEC 60092-353



APPLICATION

The Toxfree® Marine Plus XZ1-K (AS+) is specially designed to transmit electric power in the presence of fire, assuring electric supply to emergency circuits, like signalling lights, smoke extractors, acoustic alarms, water pumps, etc. In case of fire, it does not emit toxic or corrosive gases, thereby protecting public health and avoiding any possible damage to electronic equipment. For this reason, its use is recommended in public places and marine applications.

CONSTRUCTION

Conductor

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

Insulation

Mica Tape + Cross linked polyethylene type HF XLPE 90°C according to IEC 60092-360.

The standard identification is the following:

1 x	Natural
2 x	Blue + Brown
3 x	Brown + Black + Grey
4 x	Brown + Black + Grey + Blue
5 or more conductors	Black numbered

Other colours available on request.

Outer sheath

Low smoke halogen free thermoplastic polyolefin, type SHF1 according to IEC 60092-360.

Orange colour.

Non-toxic, fire retardant and fire resistant.

CHARACTERISTICS



Electrical performance

Low voltage: 0,6/1 kV.



Thermal performance

Maximum conductor temperature: 90°C.

Maximum short-circuit temperature: 250°C (max 5 s).

Minimum service temperature: -40°C (fixed and protected installations).

Lowest installation temperature: -15°C



Fire performance

Flame non-propagation according to IEC 60332-1.

Fire non-propagation according to IEC 60332-3-22.

Fire resistant minimum 90 minutes at 840 °C:

According to IEC 60331-2 for cable diameter ≤ 20 mm.

According to IEC 60331-1 for cable diameter > 20 mm.

Low smoke halogen free according to IEC 60754-1.

Low corrosive gases emission according to IEC 60754-2.

Low smoke emission according to IEC 61034:

light transmittance > 60%.



Mechanical performance

Minimum bending radius during installation:

≤ 25mm 4x cable diameter.

> 25mm 6x cable diameter.

Impact resistance: AG2 medium severity.



Environmental performance

Chemical & Oil resistance: Good.

UV Resistant according to EN 50618.

Water resistance: AD6 waves.



Installation conditions

Open Air.

In conduit on a bulkhead.

On a bulkhead.

STANDARDS / COMPLIANCE



According to
IEC 60092-353



Standards and approvals
ABS / DNV-GL / BUREAU VERITAS / LLOYD'S
REGISTER / CE / RoHS

