



TOXFREE MARINE PLUS XOxTCuZ1-K (AS+) (x:1...3)

The Marine armoured and fire resistant instrumentation cable

IEC 60092-376, IEC 60092-350

DESIGN

1. Conductor

Electrolytic copper, class 5 (flexible), based on EN 60228 and IEC 60228.

2. Insulation

Mica Tape + LSZH XLPE 90°C.

The standard identification is the following per pair:

1x Blue

1x White

Each pair is numbered

3. Screen

Individual and/or collective aluminium / polyester tape with tinned copper drain wire

O1.....Individual screen (per pair)

O2.....Overall screen (per cable)

O3.....Individual and overall screen

4. Armour bedding

Polyester tape.

5. Armour

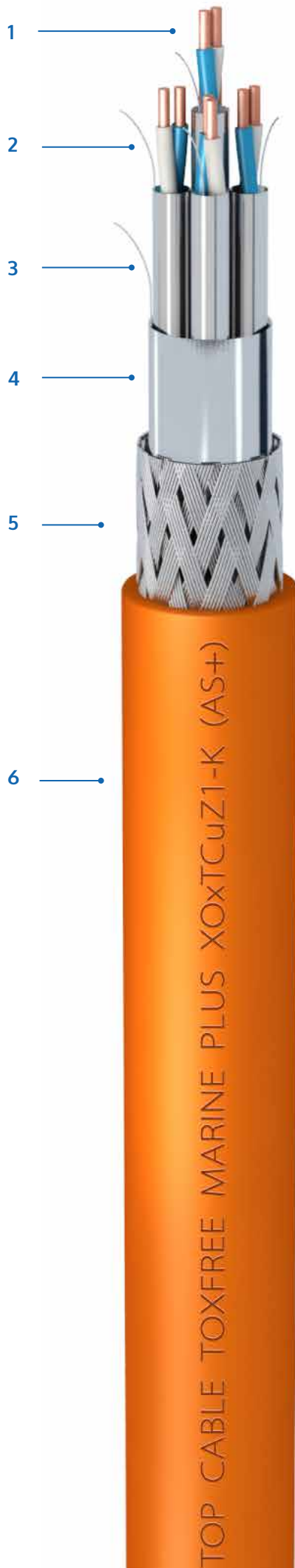
Tinned copper braid screen.

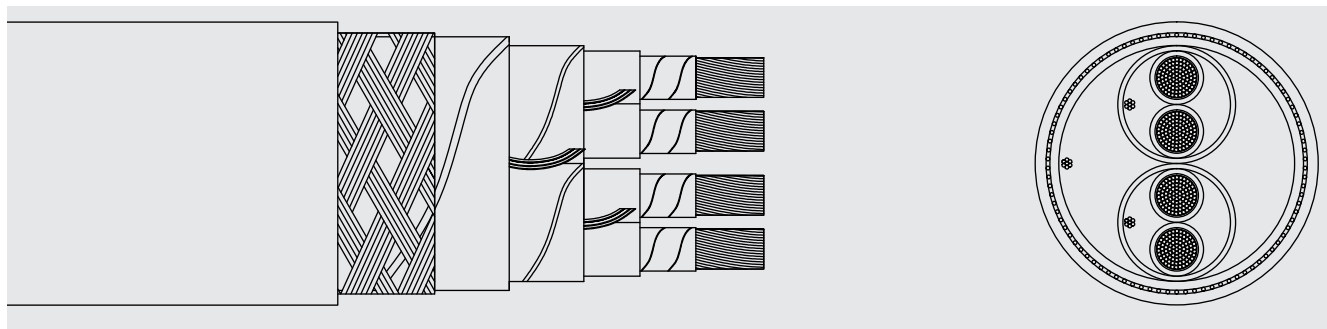
6. Outer sheath

LSZH polyolefin outer sheath SHF1 type. Orange colour, non-toxic, fire retardant and fire resistant.

APPLICATIONS

The Toxfree Marine Plus XOxTCuZ1-K (AS+) cable with zero halogens is a safety armoured instrumentation cable. It is specially designed to transmit electric supply to emergency circuits, like signalling lights, smoke extractors, acoustic alarms, water pumps, etc. For this reason, its use is recommended in public places and marine applications.





CHARACTERISTICS



Electrical performance

INSTRUMENTATION 250v



Standards

IEC 60092-376, IEC 60092-350



Approvals

DNV-GL
ABS (in progress)
Bureau Veritas (in progress)
CE
RoHS



Thermal performance

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



Fire performance

Flame non-propagation based on EN 60332-1 and IEC 60332-1.
Fire non-propagation based on EN 60332-3-22 and IEC 60332-3-22.
Fire resistant based on EN 60331-21 and IEC 60331-21
LSZH (Low Smoke Zero Halogen) based on EN 60754-1 and IEC 60754-1.
Low smoke emission based on EN 61034 and IEC 61034.: Light transmittance > 60%
Low corrosive gases emission based on EN 60754-2 and IEC 60754-2.



Mechanical performance

Minimum bending radius: x5 cable diameter.
Impact resistance: AG3 High severity.



Chemical performance

Chemical & Oil resistance: Acceptable.



Water performance

Water resistance: AD6 waves.



Other

Metre by metre marking.



Installation conditions

Open Air.
In conduit.
Wall attached.
On tray.



Applications

Marine use.
Public places.





DIMENSIONS XO2Z1-K (AS+)

Cross section (mm ²)	Diameter (mm)	Weight (Kg/Km)	Open Air 45°C (A)	Max. Conductor Resistance at 20°C (Ohm/Km)
1 x 2 x 0,75	10,5	145	17,1	27,6
2 x 2 x 0,75	14,3	230	13,7	27,6
4 x 2 x 0,75	18,1	375	11,2	27,6
7 x 2 x 0,75	21,0	605	9,2	27,6
10 x 2 x 0,75	29,3	745	8,6	27,6
14 x 2 x 0,75	31,5	905	7,4	27,6
19 x 2 x 0,75	34,5	1.195	6,5	27,6
24 x 2 x 0,75	38,8	1.350	6,5	27,6

DIMENSIONS XO3Z1-K (AS+)

Cross section (mm ²)	Diameter (mm)	Weight (Kg/Km)	Open Air 45°C (A)	Max. Conductor Resistance at 20°C (Ohm/Km)
1 x 2 x 0,75	10,5	145	17,1	27,6
2 x 2 x 0,75	14,8	250	13,7	27,6
4 x 2 x 0,75	20,0	565	11,2	27,6
7 x 2 x 0,75	22,0	815	9,2	27,6
10 x 2 x 0,75	30,3	980	8,6	27,6
14 x 2 x 0,75	32,1	1.255	7,4	27,6
19 x 2 x 0,75	35,6	1.465	6,5	27,6
24 x 2 x 0,75	40,5	1.645	6,5	27,6

Maximum admissible intensities according to IEC 60364-5-52.

For other installation conditions, please refer to correction factors in the appendix to this catalogue.

See more technical data on the particular cable specification.

Top Cable reserves the right to carry out any modification to the data sheets whatsoever without giving previous notice.

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