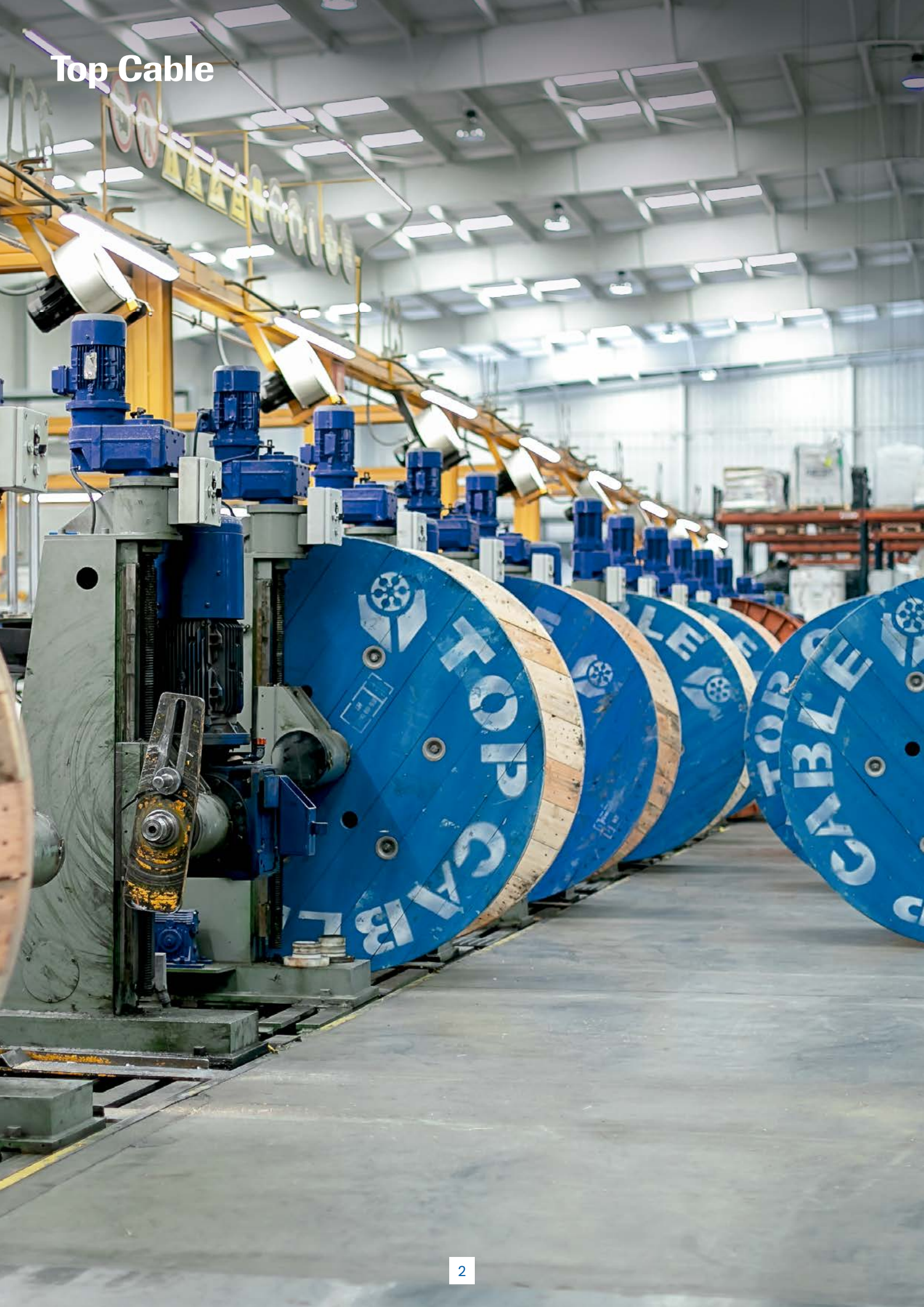




MARINE CABLES

Power, control,
instrumentation
and low voltage
marine cables.

Top Cable



Top Cable, a European manufacturer of industrial cables

Top Cable is one of the main European electric cables manufacturers. We manufacture a wide spectrum of cables ranging from control cables for specialized applications to larger power cables for medium voltage applications in various industries.

We supply cables for worldwide construction projects, OEM's, renewable energies, and more. We are proud to supply high-quality, cost-effective cables with good after-sale services. Customer's satisfaction is Top Cable's prime goal.

All Top Cable's manufacturing plants are based around Barcelona, Spain. The organization is family-owned company manufacturing electric cables on an international scale, with offices and warehouses located around the globe. Therefore, we guarantee customer proximity on a global level.

Customers appreciate Top Cable as a technically leading manufacturer of cables of outstanding quality, meeting the most stringent international specifications and certificates. Large cable stocks are available on the company's main logistics center in Barcelona to ensure short lead times and shipment flexibility. Top Cable also manages several cable stocks across their worldwide offices and warehouses to avoid out-of-stock situations in the supply chain.

As a familiar group company, Top Cable believes in the compatibility of economic, social, and ecological aspects, being committed to acting responsibly along our entire value chain.

TOXFREE® MARINE XZ1-K (AS)

The marine power cable.

ACCORDING TO: IEC 60092-353



APPLICATION

The Toxfree® Marine XZ1-K (AS) cable with halogen free is a safety cable. 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 marine applications.

- Marine use.
- Public use.

CONSTRUCTION

Conductor

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

Insulation

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

The standard identification of insulated conductors is the following:

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

Other colours available on request.

Outer sheath

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

Black colour.

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).

Lowest installation temperature: -15°C

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



Fire performance

Flame non-propagation according to IEC 60332-1.

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

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:

Ø ≤ 25mm 4x cable diameter.

Ø > 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





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 SHFI 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 according to IEC 60331-2 (overall diameter ≤ 20 mm) and IEC 60331-1 (overall 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:

≤ 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



TOXFREE® MARINE XTCuZ1-K (AS)

The marine power cable.
ACCORDING TO: IEC 60092-353



APPLICATION

The Toxfree® Marine XTCuZ1-K (AS) cable with halogen free is a safety cable. 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 marine applications.

CONSTRUCTION

Conductor

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

Insulation

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

The standard identification of insulated conductors 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.	

Bedding

Thermoplastic polyolefin, natural colour, with low smoke and halogen free under fire conditions (single-cores and multi-cores from 25 mm²).

Screen

Aluminium polyester tape screen with overlapping tinned copper braid armour, ensuring 100% screening coverage.

Outer sheath

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

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).

Lowest installation temperature: -15°C

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



Fire performance

Flame non-propagation according to IEC 60332-1.

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

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: 6x cable diameter.

Impact resistance: AG3 High severity.



Environmental performance

Chemical & Oil resistance: Acceptable.

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





TOXFREE[®] MARINE PLUS XTCuZ1-K (AS+)

Marine armoured fire resistant power cable.
ACCORDING TO: IEC 60092-353



APPLICATION

The Toxfree[®] Marine Plus XTCuZ1-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.

Bedding

Thermoplastic polyolefin, natural colour, with low smoke and halogen free under fire conditions (single-cores and multi-cores from 25 mm²).

Screen

Aluminium polyester tape screen with overlapping tinned copper braid armour, ensuring 100% screening coverage.

Outer sheath

Low smoke halogen free thermoplastic polyolefin, type SHFI 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 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 according to IEC 60331-21 (90 minutes at 750°C).

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: 6x cable diameter.

Impact resistance: AG3 High severity.



Environmental performance

Chemical & Oil resistance: Acceptable.

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



TOXFREE® MARINE

XOxZ1-K (AS)

XOxTCuZ1-K (AS)

The marine armoured instrumentation cable.

ACCORDING TO: IEC 60092-376



APPLICATION

The Toxfree Marine XOxZ1-K (AS) and XOxTCuZ1-K (AS) cable with halogen free is a safety instrumentation and telecommunication cable. 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 marine applications.

CONSTRUCTION

Conductor

Electrolytic annealed copper, class 5 (flexible) according to IEC 60228 (conductor resistance according to IEC 60092-376, Table 1).

Insulation

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

The standard identification of insulated conductors is the following:

Pair White + Blue (each core numbered with the pair number)

Other colours available on request.

Assembly of cores

Stranded conductors in pairs.

Individual screen (XO3Z1-K and XO3TCuZ1-K)

Aluminium + polyester tape with 100% coverage + tinned copper drain wire applied over the assembled cores.

Assembly of pairs

Cabled in concentric layers.

Collective screen

Aluminium + polyester tape with 100% coverage + tinned copper drain wire applied over the assembled pairs

Only for XO2TCuZ1-K (AS) cables, the tinned copper drain wire will be removed, and the aluminium side of the tape will put in contact with the braid armour.

Braid armour (XO2TCuZ1-K and XO3TCuZ1-K)

Tinned copper wire braid armour over the collective screen.

Outer sheath

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

Grey colour.

CHARACTERISTICS



Electrical performance

Instrumentation: 150/250 V.



Thermal performance

Maximum conductor temperature: 90°C.

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

Minimum service temperature: -40°C (fixed 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.

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:

Ø ≤ 25mm 4x cable diameter.

Ø > 25mm 6x cable diameter.

Impact resistance: AG3 high severity.



Environmental performance

Chemical & Oil resistance: Acceptable.

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 60092-376



Standards and approvals
ABS / DNV-GL / BUREAU VERITAS / CE / RoHS





TOXFREE® MARINE PLUS

XOxZ1-K (AS+)

XOxTCuZ1-K (AS+)

The marine armoured instrumentation cable.

ACCORDING TO: IEC 60092-376



APPLICATION

The Toxfree Marine Plus XOxZ1-K (AS+) and XOxTCuZ1-K (AS+) cable with halogen free is a safety instrumentation and telecommunication cable.

It is fire resistant and specially designed to continue transmitting information/data in case of fire. For this reason, it is recommended for use in public places and marine applications.

CONSTRUCTION

Conductor

Electrolytic annealed copper, class 5 (flexible) according to IEC 60228 (conductor resistance according to IEC 60092-376, Table I).

Insulation

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

The standard identification of insulated conductors is the following:

Pair White + Blue (each core numbered with the pair number)

Other colours available on request.

Assembly of cores

Stranded conductors in pairs.

Individual screen (XO3Z1-K and XO3TCuZ1-K)

Aluminium + polyester tape with 100% coverage + tinned copper drain wire applied over the assembled cores.

Assembly of pairs

Cabled in concentric layers.

Collective screen

Aluminium + polyester tape with 100% coverage + tinned copper drain wire applied over the assembled pairs.

Only for XO2TCuZ1-K (AS+) cables, the tinned copper drain wire will be removed, and the aluminium side of the tape will put in contact with the braid armour.

Braid armour (XO2TCuZ1-K and XO3TCuZ1-K)

Tinned copper wire braid armour over the collective screen.

Outer sheath

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

Orange colour, non-toxic, fire retardant and fire resistant.

CHARACTERISTICS



Electrical performance

Instrumentation: 150/250 V.



Thermal performance

Maximum conductor temperature: 90°C.

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

Minimum service temperature: -40°C (fixed 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 according to IEC 60331-21 (90 minutes at 750°C).

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:

$\varnothing \leq 25\text{mm}$ 4x cable diameter.

$\varnothing > 25\text{mm}$ 6x cable diameter.

Impact resistance: AG3 high severity.



Environmental performance

Chemical & Oil resistance: Acceptable.

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 60092-376



Standards and approvals
ABS / DNV-GL / BUREAU VERITAS / CE / RoHS



TOPDRIVE® VFD (EMC) ROZ1-K (AS) 0,6/1 kV

Flexible LSHF screened cable for Variable Frequency
Drive cables (VFD cables).

ACCORDING TO: IEC 60502-1 / IEC 60092-353



Cca

APPLICATION

TOPDRIVE® VFD (EMC) ROZ1-K (AS) cable has been specially designed for Variable Frequency Drive Motors and installations where it is necessary to limit the effects of electromagnetic interference (EMI). This is a flexible cable for fixed installations, for variable speed motors or pumps.

CONSTRUCTION

Conductor

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

Protective Conductor

The ground conductor is divided into three conductors; the equivalent cross-section is approximately 50% of the section of the phase conductor.

For 4G cables, ground conductor has the same cross-section as the phase conductors.

Insulation

Cross-linked polyethylene type XLPE according to IEC 60502-1, type HF XLPE 90°C according to IEC 60092-360.

The standard identification of insulated conductors is the following:
3 x +3 G Grey + Brown + Black + Green/Yellow (3 G) (from 6 mm² onwards)

4 G Grey + Brown + Black + Green/Yellow (up to 4 mm²)

Assembly of cores

For 3x+3G cables, the three phase conductors are cabled helically with the three protective conductors distributed in the interstices. For 4G cables, the three phase conductors and protection conductor are cabled helically.

Screen

Aluminium-polyester tape screen helically placed over the insulated conductors. Over the tape there is a tinned copper braid screen. The tape and the braid act as a double screen to cut out all of the electromagnetic interference, with a minimum total section of 10% of the phase conductor, ensuring a total shielding coverage.

Outer sheath

Polyolefin type ST8 according to IEC 60502-1 and type SHFI according to IEC 60092-360.

Black colour.

The ripcord allows you to tear the outer sheath without damaging the screen.

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).

Maximum ambient temperature: 60 °C.

Minimum installation and handling temperature: 0 °C.

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



Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Fire non-propagation according to EN 60332-3 / IEC 60332-3 and EN 50399.

Reaction to fire CPR: Cca-s1a, d1, a1 according to EN 50575.

Low Smoke Halogen Free according to EN 60754-1 / IEC 60754-1.

Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.

Low smoke emission according to EN 61034 / IEC 61034:

Light transmittance > 80%.



Mechanical performance

Minimum bending radius: 10x cable diameter.

Impact resistance: AG2 Medium severity.



Environmental performance

Chemical & Oil resistance: Acceptable.

UV Resistant according to EN 50618.

Water resistance: AD5 Jets.



Installation conditions

Being very performant cables there are, however, certain precautions that must be taken into account during installation:

- Always respect the bending radius of the cable. Radius below the minimums indicated can cause damage or breakage in the outer sheath.

- Precautions design of the laying. It is necessary that the laying of the cable is done in a careful way, taking care not to damage the outer sheath in irregular areas, sharp edges, etc.

- Fixings/Fastenings. Adapt fastenings so that the cable adopts a natural position in the laying to avoid stress concentration in the outer sheath. Allow a certain degree of freedom of movement in order to absorb possible movements produced by temperature variations. Open Air. Buried. In conduit.

STANDARDS / COMPLIANCE



According to

IEC 60502-1 / IEC 60092-353



Standards and approvals

BUREAU VERITAS / DNV-GL / ABS /

LLOYD'S REGISTER / RoHS / CE / UKCA



CPR (Construction Products Regulation)

Cca-s1a, d1, a1





TOPDRIVE® VFD (EMC) ROZ1-K (AS) 1,8/3 kV

Flexible LSHF screened cable for Variable Frequency
Drive cables (VFD cables).

ACCORDING TO: IEC 60502-1 / IEC 60092-353



Cca

APPLICATION

TOPDRIVE® VFD (EMC) ROZ1-K (AS) cable has been specially designed for Variable Frequency Drive Motors and installations where it is necessary to limit the effects of electromagnetic interference (EMI). This is a flexible cable for fixed installations, for variable speed motors or pumps.

CONSTRUCTION

Conductor

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

Protective Conductor

The ground conductor is divided into three conductors; the equivalent cross-section is approximately 50% of the section of the phase conductor.

Insulation

Cross-linked polyethylene type XLPE according to IEC 60502-1 and type HF XLPE 90°C according to IEC 60092-351.

The standard identification of insulated conductors is the following:
3 x +3 G Grey + Brown + Black + Green/Yellow (3 G) (from 6 mm² onwards)

Assembly of cores

For 3x+3G cables, the three phase conductors are cabled helically with the three protective conductors distributed in the interstices.

Screen

Aluminium-polyester tape screen helically placed over the insulated conductors. Over the tape there is a tinned copper braid screen. The tape and the braid act as a double screen to cut out all of the electromagnetic interference, with a minimum total section of 10% of the phase conductor, ensuring a total shielding coverage.

Outer sheath

Polyolefin type ST8 according to IEC 60502-1 and type SHF1 according to IEC 60092-360.

Black colour.

The ripcord allows you to tear the outer sheath without damaging the screen.

CHARACTERISTICS

Electrical performance

Low voltage: 1,8/3 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)

Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Fire non-propagation according to EN 60332-3 / IEC 60332-3 and EN 50399.

Reaction to fire CPR: Cca-s1a, d1, a1 according to EN 50575.

Low Smoke Halogen Free according to EN 60754-1 / IEC 60754-1.

Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.

Low smoke emission according to EN 61034 / IEC 61034:

Light transmittance > 80%.

Mechanical performance

Minimum bending radius: 10x cable diameter.

Impact resistance: AG2 Medium severity.

Environmental performance

Chemical & Oil resistance: Acceptable.

UV Resistant according to EN 50618.

Water resistance: AD5 Jets.

Installation conditions

Open Air.

Buried.

In conduit.

STANDARDS / COMPLIANCE



According to

IEC 60502-1 / IEC 60092-353



Standards and approvals

BUREAU VERITAS / DNV-GL / ABS /

LLOYD'S REGISTER / RoHS / CE



CPR (Construction Products Regulation)

Cca-s1a, d1, a1





E_{ca}

APPLICATION

Xtrem® H07RN-F rubber cables are designed to supply power to low voltage appliances including electric motors and submersible pumps in deep water installations, as well as many other electrical equipment.

Thanks to its extraordinary flexibility and mechanical strength, the Xtrem® H07RN-F cable is ideal for power transmission in both fixed installation or mobile service.

The use nominal voltage up to 1000 V is accepted in fixed protected assemblies.

Top Cable Xtrem® H07RN-F cables are designed to power all types of electrical equipment including motors and submersible pumps in deep water installations (AD8)

CONSTRUCTION

Conductor

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

Insulation

Thermosetting rubber, type EI7 according to EN 50363-1.

The standard identification according to HD 308 and EN 50334 is the following:

1 x	Natural
2 x	Blue + Brown
3 G	Blue + Brown + Green/Yellow
3 x	Brown + Black + Grey
4 G	Brown + Black + Grey + Green/Yellow
4 x	Brown + Black + Grey + Blue
5 G	Brown + Black + Grey + Blue + Green/Yellow
6 or more	Black numbered + Green/Yellow

Outer sheath

Thermosetting flexible rubber, type EM2 according to EN 50363-2-1. Black colour.

CHARACTERISTICS

Electrical performance

Low voltage: 450/750 V.

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) and -25°C (mobile use).

Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Reaction to fire CPR: E_{ca} according to EN 50575.

Mechanical performance

Minimum bending radius:

3x cable diameter < 12 mm.

4x cable diameter ≥ 12 mm.

Impact resistance: AG2 Medium severity.

Environmental performance

Chemical & Oil resistance: Excellent.

Grease & mineral oils resistance: Excellent.

UV Resistant according to EN 50618.

Water resistance: AD8 Submersion.

Cable for submersible pumps in drinkable water according to AS/ NZS 4020.

Deep wells. AWQC.

Installation conditions

Open Air.

Submersible pumps cable.

Other

Meter by meter marking.

STANDARDS / COMPLIANCE



According to

EN 50525-2-21 / IEC 60092-353 / IEC 60245



Standards and approvals

HAR / AENOR / DNV / RoHS / CE



CPR (Construction Products Regulation)

E_{ca}





Top Cable Resources

GENERAL CATALOGUE



TOPSOLAR Heavy Duty®



LSHF CPR CABLES



INDUSTRIAL CATALOGUE





Top Cable, a sustainable cable manufacturer with a premium service





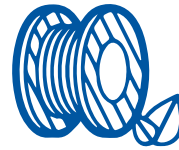
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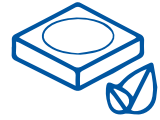
ISO 14000
CERTIFIED



WASTE
RECYCLING



PSFC
DRUMS



ECO
BOXES





MARINE CABLES

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