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TOP CABLE TOXFREE ZH ROZ1-K (AS) VFD EM

This cable render is an example from this product range and does not neccesarily match the selected core size or number of cores.



# TOXFREE ZH ROZ1-K (AS) VFD EMC 1,8/3 kV

## 3kV flexible EMC LSZH screened cable for Variable Frequency Drive cables (VFD cables).

IEC 60502-1 / IEC 60092-353

## DESIGN

#### 1. Conductor

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

#### 2. Grounding Conductor

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

#### 3. Insulation

Cross-linked polyethylene (XLPE)

The standard identification of insulated conductors is the following:

4Ggrey + brown + black + Green/yellow (up to 4 mm2)3x + 3Ggrey + brown + black + Green/yellow (3 x) (from 6 mm2 onwards)

#### 4. 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 the electromagnetic interference.

The screen has a cover of 100% and its total section is approximately 10% of one of the conductors.

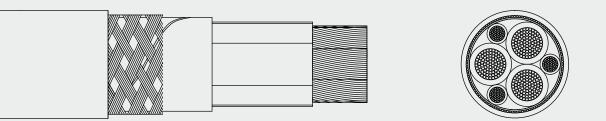
#### 5. Outer sheath

Polyolefin LSZH outer sheath, black colour.

## **APPLICATIONS**

ROZ1-K EMC VFD 1,8/3kV cable has been specially designed for Variable Frequency Drive Motors and installations where it is necessary to limit the effects of electromagnetic interference (EMI).





## CHARACTERISTICS



Electrical performance

LOW VOLTAGE 0.6/1 (1,2) KV



## Standard

IEC 60502-1 / IEC 60092-353



### Approvals

CE DNV-GL ABS (in progress) 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 installations).

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#### 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.

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.



#### Mechanical performance

Minimum bending radius: x10 cable diameter. Impact resistance: AG2 Medium severity.



Chemical performance Chemical & Oil resistance: Good.



Water performance



#### Other

Meter by meter marking. Electric fields resistant.



#### Installation conditions

Open Air. Buried. In conduit.



## Applications

Industrial use. Variable Frequency Drive (VFD)

