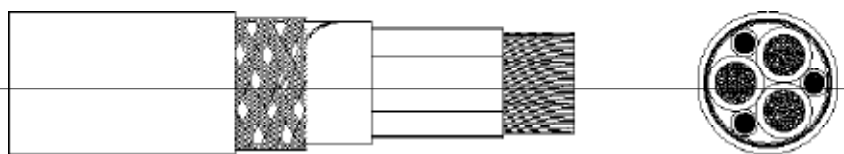


# TOPDRIVE<sup>®</sup> VFD (EMC) ROZ1-K (AS)

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

BASED ON: IEC 60502-1 / IEC 60092-353

## DESIGN



### Conductor

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

### Grounding Conductor

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

### Insulation

Cross-linked polyethylene (XLPE)

The standard identification of insulated conductors is the following:

4 G	● ● ● ●	grey + brown + black + yellow/green (up to 4 mm <sup>2</sup> )
3 x +3 G	● ● ● ●	grey + brown + black + yellow/green (3 x) (from 6 mm <sup>2</sup> onwards)

### 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 LSZH outer sheath, black colour. The ripcord allows you to gently tear the outer-sheath allowing you to gently peel it away without damaging the screen.

## Applications

TOPDRIVE<sup>®</sup> 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.

- Industrial use.
- Variable Frequency Drive (VFD).
- Electromagnetic protection.

More information at [www.topcable.com](http://www.topcable.com)

## CHARACTERISTICS



### Electrical performance

Low voltage 0.6/1 kV.



### Based on

IEC 60502-1 / IEC 60092-353.



### Standards and approvals

#### Approvals

DNV-GL

ABS

CE

RoHS



### CPR

C<sub>ca</sub>-s1a, d1, a1.



### Thermal performance

Maximum service temperature: 90°C.

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

Minimum service temperature: -40°C (static with protection).



### Fire performance

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

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

Reaction to fire CPR: C<sub>ca</sub>-s1a, d1, a1, according to EN 50575.

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: x 10 cable diameter.

Impact resistance: AG2 Medium severity.



### Chemical performance

Chemical & Oil resistance: Good.

UV resistant: UNE 211605 and NF-C 32-323.



### Water performance

Water resistance: AD5 Jets.



### Other

Meter by meter marking.

Ripcord.

Electric fields resistant.



### Installation conditions

Open Air.

Buried.

In conduit.

## CONTROL/ SCREENED CABLES

TOPFLEX® VV-F

H05VV-F



FLEXTEL® 110

ES05VV-F



FLEXTEL® 140

H05VV5-F



FLEXTEL® 200

VV-K



SCREENFLEX® 110

LiYCY VC4V-K



SCREENFLEX® 200

VC4V-K



TOXFREE® ZH

Z1C4Z1-K (AS)



TOPDATA®

VHOV-K (PAR-POS)

& VOV-K (POS) 300/500 V



TOPDRIVE® VFD (EMC)

ROZI-K (AS) 0,6/1 kV



TOPDRIVE® VFD (EMC)

ROZI-K (AS) 1,8/3 kV

