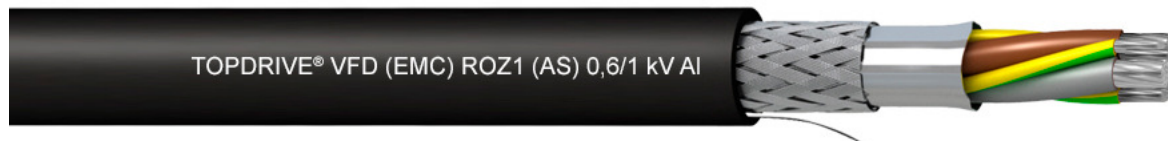


TOPDRIVE® VFD (EMC) ROZ1 (AS) 0,6/1 kV AI

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

ACCORDING TO: IEC 60502-1



APPLICATION

TOPDRIVE® VFD (EMC) ROZ1 (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 cable for fixed installations, for variable speed motors or pumps.

CONSTRUCTION

Conductor

Aluminium class 2 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.

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.

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).

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



Fire performance

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

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



Standards and approvals
RoHS / CE

