LOW VOLTAGE 0,6/1kV

Based on : IEC 60092-353 / NEK TS 606

RFOU VFD EMC

Offshore power VDF EMC

DESIGN

Conductor

Flexible conductor tinned copper, based on IEC 60228.

Grounding conductor

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

Insulation

Halogen Free Ethylene propylene, type EPR according to IEC 60092-351.

The standard identification is the following:

3x + 3G..... brown + black + grey + green/yellow (3x) (from 6 mm2 conductors)

Bedding

Halogen Free compound.

Screen

Copper-polyester tape helically placed over the bedding. The tape serves as a screen. 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. The screen has a cover of 100% and its total section is approximately 10% of one of the conductors.

Outer sheath

Mud resistant thermosetting compound, black colour, low smoke and halogen free, type SHF MUD.

APPLICATIONS

Our offshore power Variable Frequency Drive (VFD) cables have been designed for use in drive systems where variable frequency drives are used to protect equipment against the effects of electro-magnetic interference (EMI). As well as the appropiate screening the outer-sheath is based on IEC 60092-353 and NEK TS 606. Suitable for fixed installation.

CHARACTERISTICS

- Flexible conductor
- Minimum bending radius: 6 x cable diameter
- LSZH
- Mechanical stress impact: AG3. High severity
- Minimum service temperature: fixed -40ºC mobile -25ºC
- Meter by meter marking
- Low smoke emission: Light transmittance > 60%
- AD4 splashes Outdoor installation: permanent
- Maximum service temperature: 90ºC
- Flame non-propagation
- Low corrosive gases emission
- Water resistance: AD4 splashes
- Maximum short-circuit temperature: 250ºC (maximum 5 s)
- Fire non-propagation
- Mud resistance NEK TS 606
- Chemical & oil resistance: excellent

INSTALLATION CONDITIONS

- Oil rigs
- In conduit
- Marine use
- Wall attached
- Public places
- On tray
- Open air

PROPERTIES

Cross section (mm^2)	Diameter (mm)	Weight (Kg/km)	Open Air 45ºC (A)	Voltage drop (V/A · km)	Max. Conductor Resistance at 20ºC (Ohm /Km)
3 x 25 + 3G6	25,7	1.610	110	1,76	0,7950
3 x 35 + 3G6	28,3	2.070	137	1,25	0,5650
3 x 50 + 3G10	33,4	2.700	167	0,87	0,3930
3 x 70 + 3G16	37,0	3.600	214	0,61	0,2770
3 x 95 + 3G16	42,5	4.800	259	0,46	0,2100
3 x 120 + 3G25	45,9	5.865	301	0,36	0,1640
3 x 150 + 3G25	51,3	7.250	347	0,29	0,1320
3 x 185 + 3G35	56,2	9.000	397	0,24	0,1080
3 x 240 + 3G50	62,8	10.800	468	0,18	0,0817