

Oil & Gas - Cable Solutions

Exploration & Production - Offshore

VFD Cables

NEK 606 / IEC 60092-353

F-RFOU 0,6/1 (1,8/3) kV VFD (EMC)

Low Voltage Special cables for Variable Frequency Drives application. Fire retardant, low smoke, halogen free. Armoured. Arctic Grade design option available on demand.

APPLICATION

Special design for Variable Frequency Drives. VFD cables are used to control the frequency of the electrical power supplied to AC motors. Our VFD cables are designed to provide complete EMI screening and resistance to high voltage spikes to extend the operating life of the cable or motor. Prysmian offers a wide range of VFD cables with diverse design options depending on the reference standards and customer requirements.

STANDARDS & APPROVALS

IEC 60092-350 Design guidelines

IEC 60092-352 Choice and installation of electric cables

IEC-60092-353 Design guidelines

IEC 60092-360 Insulating and sheathing materials

IEC 60332-1-2 Flame retardance

IEC-60332-3-22 Fire retardance

IEC-60754-1 Halogen free properties

IEC-61034-2 Smoke emission properties

NEK 606 Oil and MUD resistance

on request

CSA 22.2 Cold bend/impact test at -40 °C /-35 °C

Det Norske Veritas-Germanischer Lloyd (DNV-GL) American Bureau of Shippings (ABS) Lloyds Register of Shipping (LRS) Bureau Veritas (BV) Russiam Maritime Register of Shipping (RMRS) RINa (Registro Italiano Navale)

DESIGN & CONSTRUCTION

CONDUCTOR

Tinned annealed copper conductor according to IEC 60228 cl.5 (cl.2 on request)

2 INSULATION

HEPR according to IEC 60092-360

BEDDING/INNER COVERING

Flame retardant and halogen free thermoset compound

ARMOURING / EMC SCREEN

Cu/PETP tape + tinned copper wire braid (shield coverage 100 %)

OUTER SHEATH

Flame retardant, halogen free thermoset compound, SHF2 (IEC 60092-360)

Flame retardant, halogen free and mud resistant thermoset compound. SHF2 (NEK 606)







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PERFORMANCES/RATINGS





CHEMICAL RESISTANCE



IMPACTS



SMOKE DENSITY, CORROSIVITY AND TOXICITY



MIN. PERMISSIBLE
AMBIENT TEMPERATURE



-20 °C (-40°C for Arctic Grade)

MAX OPERATING TEMPERATURE



+90 °0

SHORT CIRCUIT TEMPERATURE



UV RESISTANCE



QUALITY & TESTING

Prysmian has a built-in multi-step quality assurance program, covering the production process from cable design and raw material purchases to final inspection and testing documentation.

The ISO 9001 quality system of Prysmian Group (together with ISO 14001 and OHSAS 18001) has been assessed, approved and is currently audited by SGS.

This product information sheet is provided for reference only.

Please consult the factory or your representative to confirm all engineering information or refer to the related catalogues available in the local countries website.

