



Oil & Gas - Cable Solutions

Exploration & Production - Offshore

Medium Voltage Cables

NEK 606 / IEC 60092-354

RFOU/RFCU 3,6/6 kV 18/30 kV

Distribution cables up to 18/30 kV.

Flame retardant, low smoke, halogen free. Armoured/Unarmoured.

Arctic Grade design option available on demand. FR version available on demand.

APPLICATION

Medium Voltage cables are used for power distribution applications or to connect equipment that requires large amounts of power on ships and offshore platforms. Prysmian offers a wide range of MV cables with diverse design options depending on the reference standards and customer requirements.

STANDARDS & APPROVALS

NEK 606 Design guidelines

IEC 60092-350 Design guidelines

IEC 60092-352 Choice and installation of electric cables

IEC-60092-354 Design guidelines

IEC 60092-360 Insulating and sheathing materials

IEC 60332-1-2 Flame retardance

IEC-60332-3-22 Fire retardance

IEC-60754-1 /...-2 Halogen free properties

IEC-61034-1 /...2 Smoke emission properties

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

1 CONDUCTOR

Tinned annealed copper conductor according to IEC 60228 cl. 2 (or cl. 5 on request) from 16 to 630 mm², single core or three cores

2 CONDUCTOR SCREEN

Semiconducting tape and/or layer

3 INSULATION

R

HEPR (or EPR) according to IEC 60092-360, thickness according to IEC 60092-354

4 INSULATION SCREEN

Semiconducting layer + tinned copper wire braid

5 BEDDING/INNER COVERING (only armoured versions)

F

Flame retardant and halogen free thermoset compound

6 ARMOURING

(only armoured versions)

O

Tinned annealed copper wire braid

or **C**

Galvanized steel wire braid

7 OUTER SHEATH

U

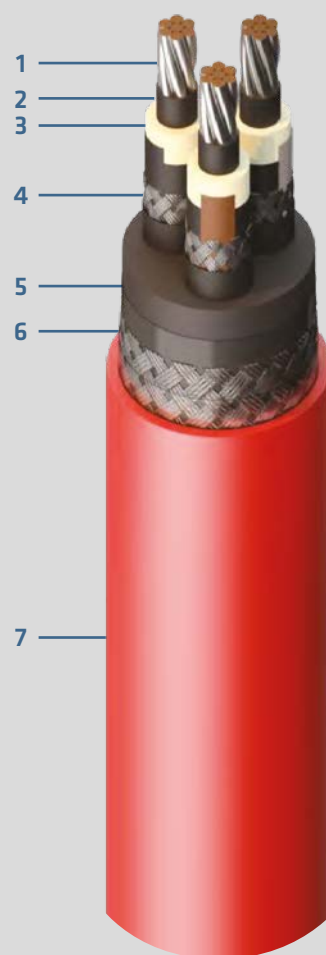
Flame retardant, halogen free or halogen free and mud resistant thermoset compound, SHF2 (IEC 60092-360)

or **U P2 ÷ P7, P19, P20**

Halogen free

or **U P2/P9 ÷ P7/P14, P19/P21, P20/P22**

Halogen free + mud resistant according to NEK TS 606



CONTACT INFO:

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PERFORMANCES/RATINGS

FIRE BEHAVIOUR



IEC 60332-1-2
IEC 60332-3-22

CHEMICAL RESISTANCE



VERY GOOD
EXCELLENT (MUD RES)

IMPACTS



GOOD

SMOKE DENSITY, CORROSIVITY AND TOXICITY



LOW EMISSION

MIN. PERMISSIBLE AMBIENT TEMPERATURE DURING LAYING



-20 °C
(-40°C for Arctic Grade)

MAX OPERATING TEMPERATURE



+90 °C

SHORT CIRCUIT TEMPERATURE



+250 °C

UV RESISTANCE



GOOD

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.

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Prysmian
Group