



## Oil & Gas - Cable Solutions

### Exploration & Production - Offshore

# Low Voltage & Control Cables

NEK 606 / IEC 60092-353

**RU/TU 0,6/1 kV**

**RFOU/RFCU/TFOU/TFCU 0,6/1 kV**

Low Voltage cables, fire retardant, low smoke, halogen free. Unarmoured/Armoured. Arctic Grade design option available on demand.

#### APPLICATION

Low Voltage & Control cables are used for fixed installations on ships and offshore platforms in a wide range of power supply and control applications. Prysmian offers a wide range of LV & Control 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 60092-353** 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

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)

Russian 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)

##### 2 INSULATION

**R**  
EPR according to IEC 60092-360

or **T**  
Cross-linked polyethylene

##### 3 BEDDING/INNER COVERING (only armoured versions)

**F**  
Flame retardant and halogen free thermoset compound

##### 4 ARMOURING (only armoured versions)

**O**  
Tinned copper wire braid

or **C**  
Galvanized steel wire braid

##### 5 OUTER SHEATH

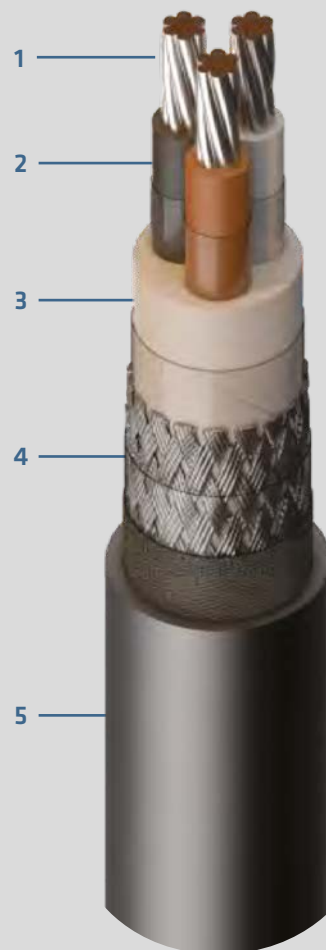
**U**  
Flame retardant, halogen free or halogen free and mud resistant thermoset compound, SHF2 (IEC 60092-360)

or **U P18**  
Halogen free

or **U P18 MUD**  
Halogen free + mud resistant according to NEK TS 606

or **U P1**  
Halogen free

or **U P1/P8 MUD**  
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