



Oil & Gas - Cable Solutions

Exploration & Production - Offshore

Instrumentation Cables

NEK 606 / IEC 60092-376

RU (i) or (c) or (i+c) / TU (i) or (c) or (i+c) 150/250 (300) V
RFOU (i) or (c) or (i+c) / RFCU (i) or (c) or (i+c) /
TFOU (i) or (c) or (i+c) / TFCU (i) or (c) or (i+c) 150/250 (300) V

Instrumentation cables, multi-core (pairs, triads), screened, fire retardant, low smoke, halogen free. Armoured/Unarmoured. Arctic Grade design option available on demand.

APPLICATION

Instrumentation cables are used to transmit digital or analogue signals for measurement or process control applications in fixed installation on ships or offshore platforms. Prysmian offers a wide range of Instrumentation 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 60092-376** 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** Halogen free properties
- IEC-61034-2** Smoke emission properties

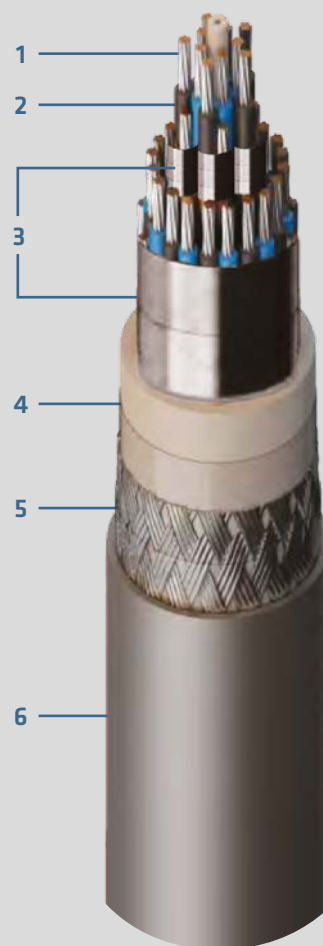
on request

CSA 22.2 n. 38-95 Cold bend/impact test at low temperature

- 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)

DESIGN & CONSTRUCTION

- 1 CONDUCTOR**
Tinned annealed copper conductor according to IEC 60228 cl. 2 (or cl. 5 on request) from 0,75 to 2,5 mm²: up to 32 pairs, up to 24 triples
- 2 INSULATION**
R EP-rubber according to IEC 60092-360 (EPR)
or **T** XLPE according to IEC 60092-360
- 3 SCREEN (i)** Individual screen, Cu/PET tape or Al/PET tape, with tinned copper stranded drain wire
(c) Collective screen, Cu/PET tape or Al/PET tape, with tinned copper stranded drain wire
- 4 BEDDING/INNER COVERING (only armoured versions)**
F Flame retardant and halogen free thermoset compound
- 5 ARMOURING (only armoured versions)**
O Tinned annealed copper wire braid
or **C** Galvanized steel wire braid
- 6 OUTER SHEATH U** Flame retardant, halogen free or halogen free and mud resistant thermoset compound, SHF2 (IEC 60092-360)
Non mud resistant available on demand
Hydraulic resistant available on demand
or **U S1 or S2** Halogen free
or **U S1/S5 or S2/S6** Halogen free + mud resistant according to NEK TS 606





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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



VERY 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.

CONTACT INFO:
prysmianoilandgas@prysmiangroup.com
www.prysmiangroup.com/contact-us

Prysmian
Group