marine & offshore instrumentation cable

RFOU(I) S1/S5 & RFOU(C) S2/S6 250 V

RFOU(i) S1/S5 & RFOU(c) S2/S6 250 V NEK 606 Mud-Resistant Offshore Ins



NEK TS 606 S1/S5 & S2/S6 · 150/250 V · Marine & offshore instrumentation cable

NEK TS 606 S1/S5 & S2/S6 | **150/250 V (-40 to +90 °C)** | **Grey SHF2-MUD Outer Sheath (S1/S5)**

Application

RFOU(i) S1/S5/S101 & RFOU(c) S2/S6/S102 150/250(300) V (Type P) EPR-Insulated Individually/Collectively Screened TCWB-Armoured SHF2 Mud-Resistant Offshore Instrumentation Cable (NEK TS 606 S1/S5 & S2/S6, 150/250 V, -40 to +90 °C).

Typical uses: Offshore DCS, ESD & Fire-Gas Systems, Shipboard Bridge & Engine Room Automation, Drilling Rig Instrumentation & Mud Logging, Naval Radar, Sonar & Combat Switchboards

Construction





Cross-section, not to scale

1. EPR Instrumentation Triads (4×3×1.5 mm²)
2. Individual Foil Screen & Drain (RFOU(i))
3. SHF2 Thermoset Inner Sheath
4. Tinned Copper Wire Braid (TCWB)
5. Grey SHF2-MUD Outer Sheath (S1/S5)

Technical data

Typical values

Rated voltage / transmission duty	150/250 V (NEK TS 606 Code S1/S5/S101 & S2/S6/S102 / IEC 60092-376 SHF2-MUD)	**Core / conductor construction**	EPR Instrumentation Triads (4×3×1.5 mm²) — Tinned copper Class 2/5 conductors with Black, White, Red EPR insulation
Primary dielectric / buffering	Individual Foil Screen & Drain (RFOU(i)) — Laminated Al/Cu-PET tape + tinned copper drain wire on each triad/pair	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per NEK TS 606 Code S1/S5/S101 & S2/S6/S102 / IEC 60092-376 SHF2-MUD	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Grey SHF2-MUD Outer Sheath (S1/S5) — NEK TS 606 mud-resistant thermoset jacket (Grey standard / Blue Ex-i)	**Minimum bending radius**	6 × OD
Armour, screen & mechanical duty	Tinned Copper Wire Braid (TCWB) — Braided tinned copper wire armour for mechanical and EMI protection	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per NEK TS 606 Code S1/S5/S101 & S2/S6/S102 / IEC 60092-376 SHF2-MUD
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per NEK TS 606 Code S1/S5/S101 & S2/S6/S102 / IEC 60092-376 SHF2-MUD	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	NEK TS 606 Code S1/S5/S101 & S2/S6/S102 / IEC 60092-376 SHF2-MUD		

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
RFOU(I) S1/S5 & RFOU(C) S2/S6 250 V Construction Schedule (−40…+90 °C) 3 sizes						
☐ **RFOU(I) S1 2×2×0.75 mm²**	**2 × 2 × 0.75 mm² (2Pr)**	**Stranded Cu/SnCu (IEC 60228 Class 2/5)**	**11.4**	**195**	**1.2**	**70**
☐ **RFOU(I) S1 4×2×1.0 mm²**	**4 × 2 × 1.0 mm² (4Pr)**	**Stranded Cu/SnCu (IEC 60228 Class 2/5)**	**15.6**	**365**	**2.4**	**95**
☐ **RFOU(I) S1 8×2×1.5 mm²**	**8 × 2 × 1.5 mm² (8Pr)**	**Stranded Cu/SnCu (IEC 60228 Class 2/5)**	**22.8**	**760**	**4.8**	**140**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per NEK TS 606 Code S1/S5/S101 & S2/S6/S102 / IEC 60092-376 SHF2-MUD.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
2 × 2 × 0.75 mm² (2Pr)	**26.00**	**150/250 V (≤60 nF/km)**	**−40…+90 °C**
4 × 2 × 1.0 mm² (4Pr)	**19.50**	**150/250 V (≤65 nF/km)**	**−40…+90 °C**
8 × 2 × 1.5 mm² (8Pr)	**13.30**	**150/250 V (≤75 nF/km)**	**−40…+90 °C**

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- NEK TS 606 S1/S5 & S2/S6 Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/rfou-i-s1-s5-rfou-c-s2-s6-250-v

Typical values for this cable type, based on NEK TS 606 Code S1/S5/S101 & S2/S6/S102 / IEC 60092-376 SHF2-MUD. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.