shipboard & offshore power cable

RFOU P1/P8/P101 0.6/1 KV (NEK 606)

RFOU P1/P8/P101 0.6/1 kV NEK 606 TCWB-Armoured SHF2 Mud-Resistant Offs

NEK TS 606 P1 / P8 / P101 · 0.6/1 kV · Shipboard & offshore power cable



NEK TS 606 P1 / P8 / P101 | **0.6/1 kV (-40 to +90 °C)** | **SHF2-MUD Outer Sheath (U - P1/P8/P10**

Application

RFOU P1/P8/P101 0.6/1(1.2) kV (Type P) EPR-Insulated TCWB-Armoured SHF2 Mud-Resistant Offshore Power & Control Cable (NEK TS 606 P1 / P8 / P101, 0.6/1 kV, -40 to +90 °C, min. bend radius 6 × OD).

Typical uses: Commercial Vessels & Cruise Ships, Offshore Oil & Gas Platforms (FPSO), Jack-Up & Semi-Submersible Drilling Rigs, Naval Surface Vessels & Submarines

Construction





Cross-section, not to scale

1. Tinned Copper Conductors (3×95 mm²)
2. 90 °C EPR Core Insulation (R)
3. Thermoset SHF2 Inner Sheath (F)
4. Tinned Copper Wire Braid (O)
5. SHF2-MUD Outer Sheath (U - P1/P8/P101)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (NEK TS 606 Code P1/P8/P101 & IEC 60092-353 SHF2-MUD)	**Core / conductor construction**	Tinned Copper Conductors (3×95 mm²) — IEC 60228 Class 2 / Class 5 stranded tinned annealed copper
Primary dielectric / buffering	90 °C EPR Core Insulation (R) — Halogen-free ethylene-propylene rubber coded Black, Brown, Grey	**Continuous operating temperature**	−40...+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per NEK TS 606 Code P1/P8/P101 & IEC 60092-353 SHF2-MUD	**Storage & transport temperature**	−40...+80 °C on export wooden/steel drum
Outer protection / armouring	SHF2-MUD Outer Sheath (U - P1/P8/P101) — Cross-linked elastomer resistant to Calcium Bromide & Oil-Based Drilling Mud	**Minimum bending radius**	6 × OD
Armour, screen & mechanical duty	Tinned Copper Wire Braid (O) — High-coverage tinned copper wire braid armour (TCWB)	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per NEK TS 606 Code P1/P8/P101 & IEC 60092-353 SHF2-MUD
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per NEK TS 606 Code P1/P8/P101 & IEC 60092-353 SHF2-MUD	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	NEK TS 606 Code P1/P8/P101 & IEC 60092-353 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 P1/P8/P101 0.6/1 KV (NEK 606) Construction Schedule (−40...+90 °C) 3 sizes						
☐ **RFOU P1 3×16+1G16 mm²**	**3 × 16 + 1G16 mm² (4G16)**	**IEC 60228 Class 2/5 Cu/SnCu**	**22.4**	**920**	**3.8**	**135**
☐ **RFOU P1 3×35+1G16 mm²**	**3 × 35 + 1G16 mm² (4G35)**	**IEC 60228 Class 2/5 Cu/SnCu**	**28.8**	**1,690**	**7.4**	**175**
☐ **RFOU P1 3×70+1G35 mm²**	**3 × 70 + 1G35 mm² (4G70)**	**IEC 60228 Class 2/5 Cu/SnCu**	**38.2**	**3,260**	**14.8**	**230**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per NEK TS 606 Code P1/P8/P101 & IEC 60092-353 SHF2-MUD.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 16 + 1G16 mm² (4G16)	**1.15**	**0.6/1 kV (98 A)**	**−40...+90 °C**
3 × 35 + 1G16 mm² (4G35)	**0.52**	**0.6/1 kV (158 A)**	**−40...+90 °C**
3 × 70 + 1G35 mm² (4G70)	**0.27**	**0.6/1 kV (245 A)**	**−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 P1 / P8 / P101 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-p1-p8-p101-0-6-1-kv-nek-606

Typical values for this cable type, based on NEK TS 606 Code P1/P8/P101 & IEC 60092-353 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.