shipboard & offshore power cable

RFOU (M) P2-P4 / P19-P22 3.6/6-18/30 KV

RFOU (M) P2–P4 / P19–P22 3.6/6–18/30 kV NEK 606 Mud-Resistant Offshore

NEK TS 606 / IEC 60092-354 · 3.6/6 kV – 18/30 kV · Shipboard & offshore power cable



NEK TS 606 / IEC 60092-354 | 3.6/6 kV – 18/30 kV (-40 to +90 °C) | Red SHF2-MUD MV Outer Sheath

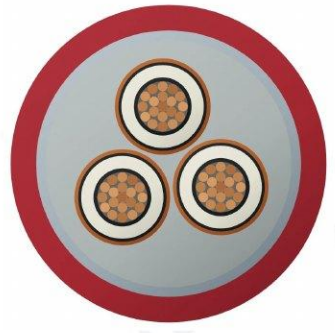
Application

RFOU (M) P2–P4 / P19–P22 3.6/6–18/30 kV NEK 606 Mud-Resistant Offshore Medium-Voltage Power Cable (NEK TS 606 / IEC 60092-354) engineered for 3.6/6 kV – 18/30 kV service across -40 to +90 °C (min. bend radius 12 × 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. Compacted Tinned Copper (3×95 mm²)
2. Triple-Extruded HEPR MV Dielectric
3. Individual Copper Tape Screen
4. SHF2 Inner Bedding & TCWB Armour
5. Red SHF2-MUD MV Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	3.6/6 kV – 18/30 kV (NEK TS 606 Code P2–P4 & P19–P22 / IEC 60092-354 SHF2-MUD)
Primary dielectric / buffering	Triple-Extruded HEPR MV Dielectric — Semi-conducting conductor screen + HEPR insulation + insulation screen
Short-circuit / peak thermal rating	Verified thermal stability per NEK TS 606 Code P2–P4 & P19–P22 / IEC 60092-354 SHF2-MUD
Outer protection / armouring	Red SHF2-MUD MV Outer Sheath — Medium-voltage red mud-resistant thermoset jacket (NEK TS 606)
Armour, screen & mechanical duty	SHF2 Inner Bedding & TCWB Armour — Extruded SHF2 inner sheath + tinned copper wire braid armour
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per NEK TS 606 Code P2–P4 & P19–P22 / IEC 60092-354 SHF2-MUD
Standards	NEK TS 606 Code P2–P4 & P19–P22 / IEC 60092-354 SHF2-MUD
Core / conductor construction	Compacted Tinned Copper (3×95 mm²) — IEC 60228 Class 2 / Class 5 tinned copper conductors
Continuous operating temperature	−40…+90 °C (shipboard & offshore duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	12 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per NEK TS 606 Code P2–P4 & P19–P22 / IEC 60092-354 SHF2-MUD
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant

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 (M) P2-P4 / P19-P22 3.6/6-18/30 KV Construction Schedule (−40…+90 °C) 3 sizes						
☐ **RFOU 3×50 mm² MV**	3 × 50 mm²	IEC 60228 Class 2/5 Cu/SnCu	42.5	2,980	22.5	510
☐ **RFOU 3×95 mm² MV**	3 × 95 mm²	IEC 60228 Class 2/5 Cu/SnCu	51.8	4,690	42.8	620
☐ **RFOU 3×150 mm² MV**	3 × 150 mm²	IEC 60228 Class 2/5 Cu/SnCu	61.2	6,840	67.5	735

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per NEK TS 606 Code P2–P4 & P19–P22 / IEC 60092-354 SHF2-MUD.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 50 mm²	0.39	3.6/6 kV – 18/30 kV (195 A)	−40…+90 °C
3 × 95 mm²	0.19	3.6/6 kV – 18/30 kV (285 A)	−40…+90 °C
3 × 150 mm²	0.12	3.6/6 kV – 18/30 kV (365 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 / IEC 60092-354 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-m-p2-p4-p19-p22-3-6-6-18-30-kv

Typical values for this cable type, based on NEK TS 606 Code P2–P4 & P19–P22 / IEC 60092-354 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.