shipboard & offshore power cable

BFOU (M) P6/P7/P16 3.6/6-18/30 KV (NEK 606 MV)

BFOU (M) P6/P7/P16 3.6/6–18/30 kV NEK 606 Fire-Resistant Offshore MV P

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



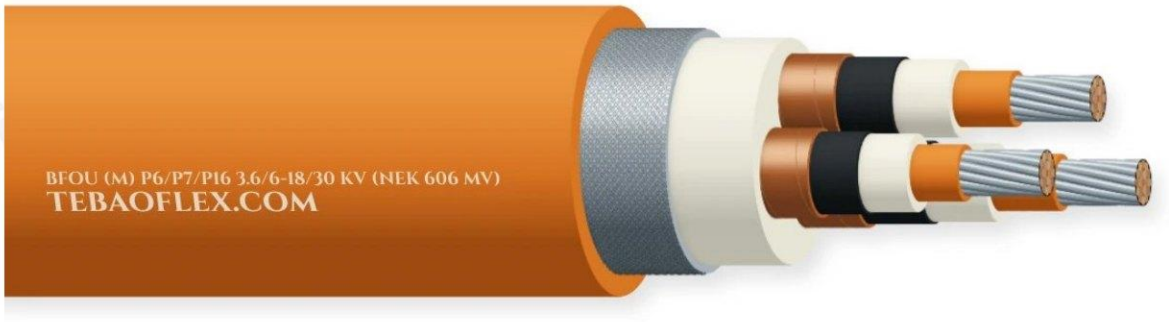
NEK TS 606 / IEC 60092-354 | 3.6/6 kV – 18/30 kV (-40 to +90 °C) | Orange SHF2-MUD Fire-Safe MV Jacket

Application

BFOU (M) P6/P7/P16 3.6/6–18/30 kV NEK 606 Fire-Resistant Offshore MV 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. Tinned Copper + Mica Fire Barrier (B)
2. Triple-Extruded HEPR MV Insulation (F)
3. Copper Tape Phase Metallic Screen
4. SHF2 Inner Bedding & TCWB Armour (O)
5. Orange SHF2-MUD Fire-Safe MV Jacket (U)

Technical data

Typical values

Rated voltage / transmission duty	3.6/6 kV – 18/30 kV (NEK TS 606 Code P6/P7/P16 / IEC 60092-354 / IEC 60331-21)	**Core / conductor construction**	Tinned Copper + Mica Fire Barrier (B) — Class 2/5 tinned copper with phlogopite mica fire-resistant barrier
Primary dielectric / buffering	Triple-Extruded HEPR MV Insulation (F) — Conductor screen + 90 °C HEPR dielectric + strippable insulation screen	**Continuous operating temperature**	−40...+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per NEK TS 606 Code P6/P7/P16 / IEC 60092-354 / IEC 60331-21	**Storage & transport temperature**	−40...+80 °C on export wooden/steel drum
Outer protection / armouring	Orange SHF2-MUD Fire-Safe MV Jacket (U) — NEK TS 606 P6/P7/P16 mud- and fire-resistant outer sheath	**Minimum bending radius**	12 × OD
Armour, screen & mechanical duty	SHF2 Inner Bedding & TCWB Armour (O) — Halogen-free thermoset inner sheath + tinned copper wire braid	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per NEK TS 606 Code P6/P7/P16 / IEC 60092-354 / IEC 60331-21
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per NEK TS 606 Code P6/P7/P16 / IEC 60092-354 / IEC 60331-21	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	NEK TS 606 Code P6/P7/P16 / IEC 60092-354 / IEC 60331-21		

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
BFOU (M) P6/P7/P16 3.6/6-18/30 KV (NEK 606 MV) Construction Schedule (−40...+90 °C) 3 sizes						
☐ **BFOU 3×50 mm² MV**	**3 × 50 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**42.5**	**2,980**	**22.5**	**510**
☐ **BFOU 3×95 mm² MV**	**3 × 95 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**51.8**	**4,690**	**42.8**	**620**
☐ **BFOU 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 P6/P7/P16 / IEC 60092-354 / IEC 60331-21.

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/bfou-m-p6-p7-p16-3-6-6-18-30-kv-nek-606-mv

Typical values for this cable type, based on NEK TS 606 Code P6/P7/P16 / IEC 60092-354 / IEC 60331-21. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.