fire-resistant shipboard & offshore cable

BFOU P5/P12 & BFOU-HCF P34 0.6/1 KV

BFOU P5/P12 & BFOU-HCF P34 0.6/1 kV NEK 606 Fire-Resistant & Jet-Fire

NEK TS 606 / IEC 60331 · 0.6/1 kV · Fire-resistant shipboard & offshore cable



NEK TS 606 / IEC 60331 | 0.6/1 kV (-40 to +90 °C) | SHF2-MUD Outer Sheath (U - P5/P12)

Application

BFOU P5/P12/P105 & BFOU-HCF P34 0.6/1(1.2) kV (Type P) Mica/EPR Fire-Resistant TCWB-Armoured SHF2 Mud-Resistant Offshore Power Cable (NEK TS 606 / IEC 60331, 0.6/1 kV, -40 to +90 °C, min. bend radius 8 × OD).

Typical uses: Offshore Emergency Shutdown (ESD) & Deluge, Passenger Cruise & Ferry Safe-Return-to-Port, Shipboard Fire Alarm, PA/GA & Emergency Lighting, FPSO & Petrochemical Hydrocarbon Fire Zones

Construction





Cross-section, not to scale

1. Tinned Copper Conductors (4G25 mm²)
2. Mica Fire Barrier + EPR Insulation (BF)
3. Thermoset Fire-Safe Inner Sheath
4. Tinned Copper Wire Braid Armour (O)
5. SHF2-MUD Outer Sheath (U - P5/P12)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (NEK TS 606 Code P5/P12/P105 & P34 / IEC 60331-21 / IEC 60092-353)
Primary dielectric / buffering	Mica Fire Barrier + EPR Insulation (BF) — Mica glass tape + EPR certified to IEC 60331 & 1,100 °C HCF Jet Fire (P34)
Short-circuit / peak thermal rating	Verified thermal stability per NEK TS 606 Code P5/P12/P105 & P34 / IEC 60331-21 / IEC 60092-353
Outer protection / armouring	SHF2-MUD Outer Sheath (U - P5/P12) — Mud-resistant thermoset jacket for offshore rigs and FPSOs
Armour, screen & mechanical duty	Tinned Copper Wire Braid Armour (O) — High-density tinned copper wire braid (TCWB)
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per NEK TS 606 Code P5/P12/P105 & P34 / IEC 60331-21 / IEC 60092-353
Standards	NEK TS 606 Code P5/P12/P105 & P34 / IEC 60331-21 / IEC 60092-353
Core / conductor construction	Tinned Copper Conductors (4G25 mm²) — IEC 60228 Class 2 / Class 5 stranded 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	8 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per NEK TS 606 Code P5/P12/P105 & P34 / IEC 60331-21 / IEC 60092-353
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
BFOU P5/P12 & BFOU-HCF P34 0.6/1 KV Construction Schedule (−40…+90 °C) 3 sizes						
☐ **BFOU P5 3×16+1G16 mm²**	**3 × 16 + 1G16 mm² (4G16)**	**IEC 60228 Class 2/5 Cu/SnCu**	**22.4**	**920**	**3.8**	**135**
☐ **BFOU P5 3×35+1G16 mm²**	**3 × 35 + 1G16 mm² (4G35)**	**IEC 60228 Class 2/5 Cu/SnCu**	**28.8**	**1,690**	**7.4**	**175**
☐ **BFOU P5 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 P5/P12/P105 & P34 / IEC 60331-21 / IEC 60092-353.

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 / IEC 60331 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-p5-p12-bfou-hcf-p34-0-6-1-kv

Typical values for this cable type, based on NEK TS 606 Code P5/P12/P105 & P34 / IEC 60331-21 / IEC 60092-353. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.