fire-resistant shipboard & offshore cable

CJ86/NC & CJ86/SC 0.6/1 KV & CHJ86/NC

CJ86/NC & CJ86/SC 0.6/1 kV & CHJ86/NC 250 V IEC 60092-353 Fire-Resista



IEC 60092-353 / IEC 60331 · 0.6/1 kV · Fire-resistant shipboard & offshore cable

IEC 60092-353 / IEC 60331 | **0.6/1 kV (-40 to +90 °C)** | **SHF1 Zero-Halogen Outer Sheath (NC)**

Application

CJ86/NC & CJ86/SC 0.6/1 kV & CHJ86/NC (CH86/NC) 150/250 V Mica-Tape + XLPE Insulated Tinned-Copper-Braid Armoured SHF1 Fire-Resistant & Flame-Retardant Shipboard Cable (IEC 60092-353 / IEC 60331, 0.6/1 kV, -40 to +90 °C).

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 (3×70+1×35 mm²)
2. Mica Fire Tape + XLPE Insulation
3. LSZH Extruded Inner Sheath
4. Tinned Copper Wire Braid Armour (86)
5. SHF1 Zero-Halogen Outer Sheath (NC)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IEC 60092-353 / IEC 60331-21 / IEC 60332-3-22 Cat. A)	**Core / conductor construction**	Tinned Copper Conductors (3×70+1×35 mm²) — Three 70 mm² phase cores plus one 35 mm² reduced neutral/earth core
Primary dielectric / buffering	Mica Fire Tape + XLPE Insulation — Phlogopite mica fire barrier (NC) + 90 °C XLPE insulation	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 60092-353 / IEC 60331-21 / IEC 60332-3-22 Cat. A	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	SHF1 Zero-Halogen Outer Sheath (NC) — Low-smoke zero-halogen polyolefin outer jacket (IEC 60331 & 60332-3-22)	**Minimum bending radius**	6 × OD
Armour, screen & mechanical duty	Tinned Copper Wire Braid Armour (86) — Braided tinned copper wire armour for mechanical & EMC protection	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC 60092-353 / IEC 60331-21 / IEC 60332-3-22 Cat. A
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per IEC 60092-353 / IEC 60331-21 / IEC 60332-3-22 Cat. A	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60092-353 / IEC 60331-21 / IEC 60332-3-22 Cat. A		

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
CJ86/NC & CJ86/SC 0.6/1 KV & CHJ86/NC Construction Schedule (−40…+90 °C) 3 sizes						
☐ CJ86 3×16+1G16 mm²	3 × 16 + 1G16 mm² (4G16)	IEC 60228 Class 2/5 Cu/SnCu	22.4	920	3.8	135
☐ CJ86 3×35+1G16 mm²	3 × 35 + 1G16 mm² (4G35)	IEC 60228 Class 2/5 Cu/SnCu	28.8	1,690	7.4	175
☐ CJ86 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 IEC 60092-353 / IEC 60331-21 / IEC 60332-3-22 Cat. A.

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

- IEC 60092-353 / 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/cj86-nc-cj86-sc-0-6-1-kv-chj86-nc

Typical values for this cable type, based on IEC 60092-353 / IEC 60331-21 / IEC 60332-3-22 Cat. A. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.