shore-to-ship & derrick reeling cable

ES3-FO & HVSC 6.6/11 KV

ES3-FO & HVSC 6.6/11 kV IEC/IEEE 80005-1 Extruded-Screen Cold-Ironing

IEC/IEEE 80005-1 · 6.6/11 kV · Shore-to-ship & derrick reeling cable



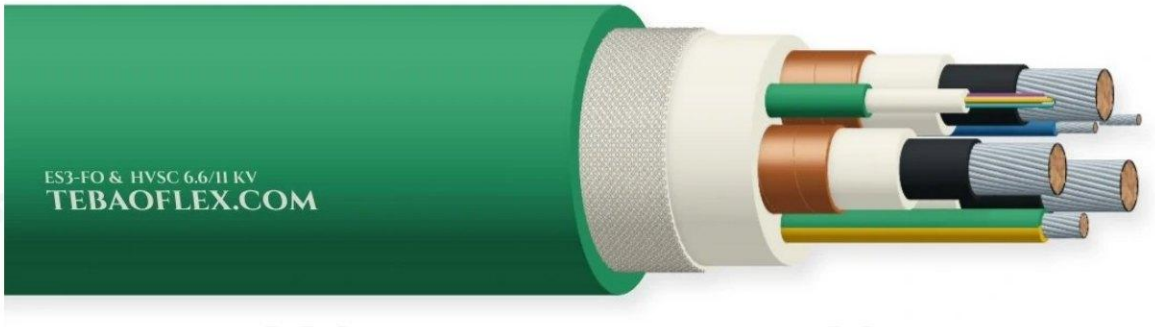
IEC/IEEE 80005-1 | **6.6/11 kV (-40 to +90 °C)** | **Shore Power Eco-Friendly Outer Jacke**

Application

Shore Power-ES3-FO & Reeling AMP / Shore Power 6.6 kV / 11 kV (IEC/IEEE 80005-1) Extruded-Screen (ES3) Electro-Optical Low-Smoke / CSP Cold-Ironing Ship-to-Shore Reeling Cable (IEC/IEEE 80005-1, 6.6/11 kV, -40 to +90 °C).

Typical uses: Port Cold-Ironing / Shore Power (AMP / HVSC), Container, Cruise & Ro-Ro Berth Reels, Offshore Drilling Rig Top Drive Service Loops, Shipyard & Drydock Mobile Power Feeders

Construction





Cross-section, not to scale

1. ES3 Reduced-Wall MV Phase Cores
2. Earth Core + Pilot Pair + Optical Unit
3. Anti-Torsion Braid & Inner Sheath
4. Shore Power Eco-Friendly Outer Jacket

Technical data

Typical values

Rated voltage / transmission duty	6.6/11 kV (IEC/IEEE 80005-1 Shore-to-Ship Cold-Ironing (AMP) HVSC Reeling Cable)
Primary dielectric / buffering	Earth Core + Pilot Pair + Optical Unit — Interstitial earth, pilot interlock pair and 12-fiber optical sub-unit
Short-circuit / peak thermal rating	Verified thermal stability per IEC/IEEE 80005-1 Shore-to-Ship Cold-Ironing (AMP) HVSC Reeling Cable
Outer protection / armouring	Shore Power Eco-Friendly Outer Jacket — High-visibility green abrasion-, oil- and seawater-resistant outer sheath
Armour, screen & mechanical duty	Anti-Torsion Braid & Inner Sheath — Double-sheathed reeling construction with anti-torsion textile braid
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per IEC/IEEE 80005-1 Shore-to-Ship Cold-Ironing (AMP) HVSC Reeling Cable
Standards	IEC/IEEE 80005-1 Shore-to-Ship Cold-Ironing (AMP) HVSC Reeling Cable
Core / conductor construction	ES3 Reduced-Wall MV Phase Cores — Flexible tinned copper + triple-extruded ES3 HEPR + copper screen
Continuous operating temperature	−40…+90 °C (shipboard & offshore duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	10 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC/IEEE 80005-1 Shore-to-Ship Cold-Ironing (AMP) HVSC Reeling Cable
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
ES3-FO & HVSC 6.6/11 KV Construction Schedule (−40…+90 °C) 3 sizes						
☐ ES3-FO 3×70+2G25+24F	3×70 + 2×25 mm² + 2×Pilot + 24F	IEC 60228 Class 5 flexible Cu/SnCu	58.0	5,420	31.5	580
☐ ES3-FO 3×95+2G35+24F	3×95 + 2×35 mm² + 2×Pilot + 24F	IEC 60228 Class 5 flexible Cu/SnCu	63.5	6,780	42.8	635
☐ ES3-FO 3×150+2G50+24F	3×150 + 2×50 mm² + 2×Pilot + 24F	IEC 60228 Class 5 flexible Cu/SnCu	72.4	9,350	67.5	725

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IEC/IEEE 80005-1 Shore-to-Ship Cold-Ironing (AMP) HVSC Reeling Cable.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3×70 + 2×25 mm² + 2×Pilot + 24F	0.27	6.6/11 kV (245 A HVSC)	−40…+90 °C
3×95 + 2×35 mm² + 2×Pilot + 24F	0.19	6.6/11 kV (300 A HVSC)	−40…+90 °C
3×150 + 2×50 mm² + 2×Pilot + 24F	0.12	6.6/11 kV (385 A HVSC)	−40…+90 °C

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- IEC/IEEE 80005-1 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/es3-fo-hvsc-6-6-11-kv

Typical values for this cable type, based on IEC/IEEE 80005-1 Shore-to-Ship Cold-Ironing (AMP) HVSC Reeling Cable. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.