shore-to-ship & derrick reeling cable

HVSC 6/10 & 8.7/15 KV (IEC 80005-1)

HVSC 6/10 & 8.7/15 kV IEC/IEEE 80005-1 High-Voltage Shore Connection E

IEC/IEEE 80005-1 · 6/10 kV – 8.7/15 kV · Shore-to-ship & derrick reeling cable



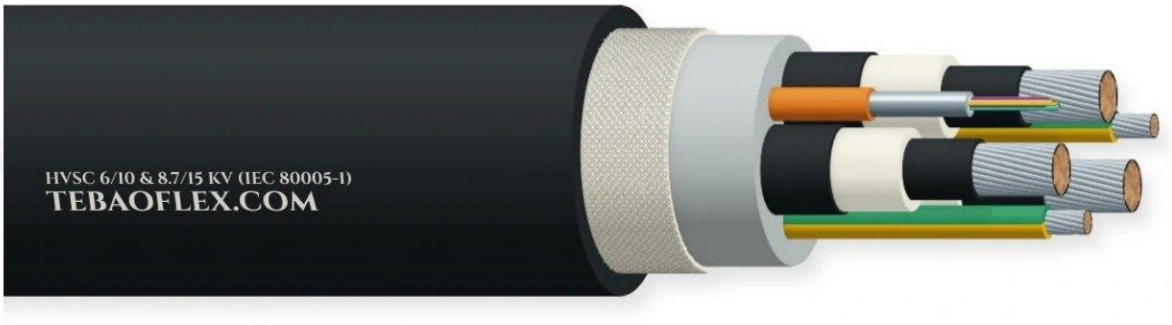
IEC/IEEE 80005-1 | **6/10 kV – 8.7/15 kV (-40 to +90 °C)** | **Double 5GM5 Polychloroprene Sheath**

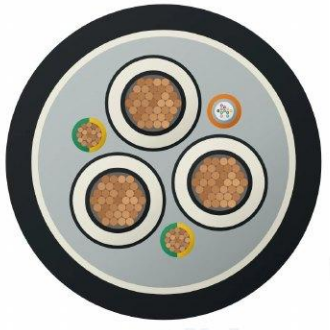
Application

HVSC 6/10 kV & 8.7/15 kV (IEC/IEEE 80005-1) Three-Core MV Power with Split Earth, 24-Fiber Optic & Pilot Cores Anti-Torsion Polychloroprene Shore-to-Ship Reeling Cable (IEC/IEEE 80005-1, 6/10 kV – 8.7/15 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. HVSC MV Phase Cores (3×95 mm²)
2. Interstitial Split Earth Conductors
3. IEC 80005-1 Fiber-Optic & Pilot Unit
4. Anti-Torsion Reinforcement Braid
5. Double 5GM5 Polychloroprene Sheath

Technical data

Typical values

Rated voltage / transmission duty	6/10 kV – 8.7/15 kV (IEC/IEEE 80005-1 High-Voltage Shore Connection (HVSC) / DIN VDE 0250-813)	**Core / conductor construction**	HVSC MV Phase Cores (3×95 mm²) — Class 5 tinned copper with triple-extruded EPR insulation (6/10–8.7/15 kV)
Primary dielectric / buffering	Interstitial Split Earth Conductors — Flexible tinned copper earth cores in outer interstices	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC/IEEE 80005-1 High-Voltage Shore Connection (HVSC) / DIN VDE 0250-813	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Double 5GM5 Polychloroprene Sheath — Heavy-duty oil-, seawater- and abrasion-resistant reeling jacket	**Minimum bending radius**	10 × OD
Armour, screen & mechanical duty	Anti-Torsion Reinforcement Braid — Embedded synthetic anti-torsion braid between inner and outer sheaths	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC/IEEE 80005-1 High-Voltage Shore Connection (HVSC) / DIN VDE 0250-813
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per IEC/IEEE 80005-1 High-Voltage Shore Connection (HVSC) / DIN VDE 0250-813	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC/IEEE 80005-1 High-Voltage Shore Connection (HVSC) / DIN VDE 0250-813		

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
HVSC 6/10 & 8.7/15 KV (IEC 80005-1) Construction Schedule (−40…+90 °C) 3 sizes						
☐ **HVSC 6/10 & 8.7/15 KV 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
☐ **HVSC 6/10 & 8.7/15 KV 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
☐ **HVSC 6/10 & 8.7/15 KV 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 High-Voltage Shore Connection (HVSC) / DIN VDE 0250-813.

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	6/10 kV – 8.7/15 kV (245 A HVSC)	−40…+90 °C
3×95 + 2×35 mm² + 2×Pilot + 24F	0.19	6/10 kV – 8.7/15 kV (300 A HVSC)	−40…+90 °C
3×150 + 2×50 mm² + 2×Pilot + 24F	0.12	6/10 kV – 8.7/15 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/hvsc-6-10-8-7-15-kv-iec-80005-1

Typical values for this cable type, based on IEC/IEEE 80005-1 High-Voltage Shore Connection (HVSC) / DIN VDE 0250-813. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.