Floating offshore wind 245 kV HVAC dynamic export cable

245KV HVAC DYNAMIC CABLE

245 kV (250 MW) Three-Core HVAC Dynamic Floating Wind Export Cable

IEC 62067 / CIGRE TB 862 · 19/33 kV · Floating offshore wind 245 kv hvac dynamic



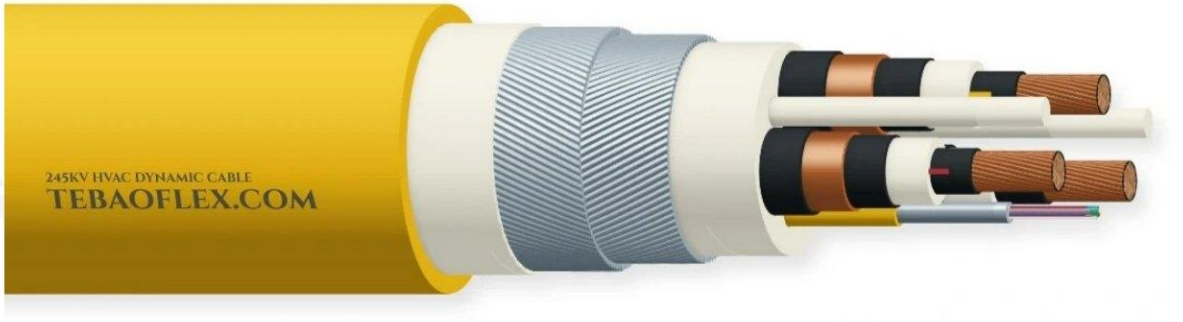
IEC 62067 / CIGRE TB 862 | 245 kV HVAC (250 MW) | Corrugated Welded Cu

Application

245 kV (250 MW) Three-Core Dry-Design HVAC Dynamic Submarine Export Cable with Corrugated Welded Copper Metallic Sheath, Double Galvanized Flat Steel Wire Armour & PE Outer Sheath (IEC 62067 / CIGRE TB 862, 19/33 kV, -20 to +90 °C).

Typical uses: Work-Class & Observation ROV Systems, Offshore Wind & Subsea Power Grids, Oceanographic, Sonar & Seismic Survey, Commercial Diving & Subsea Intervention

Construction





Cross-section, not to scale

1. Water-Blocked Cu Conductors (Ø41.5 mm, ID 1)
2. 245 kV XLPE & Semicon Screens (ID 2–5)
3. Corrugated Copper Welded Sheath (ID 6–7)
4. Shaped PE Fillers & 48 SM FO Cable (ID 8, 14)
5. Double Flat Steel Armour & PE Sheath (ID 9–13)

Technical data

Typical values

Rated voltage / transmission duty	19/33 kV (IEC 62067 / CIGRE TB 490, TB 722 & TB 862 Dynamic Export)	**Core / conductor construction**	Water-Blocked Cu Conductors (Ø41.5 mm, ID 1) — Stranded round longitudinally water-blocked Class 2 copper conductors (250 MW)
Primary dielectric / buffering	245 kV XLPE & Semicon Screens (ID 2–5) — Triple-extruded semicon screens + 245 kV XLPE insulation + water-blocking tapes	**Continuous operating temperature**	−20…+90 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 62067 / CIGRE TB 490, TB 722 & TB 862 Dynamic Export	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Double Flat Steel Armour & PE Sheath (ID 9–13) — Contra-helical double galvanized flat steel armour + extruded yellow PE outer sheath	**Minimum bending radius**	20 × OD
Hydrostatic, tensile & crush duty	Shaped PE Fillers & 48 SM FO Cable (ID 8, 14) — Pre-shaped polyethylene fillers + integrated 48 single-mode fiber-optic cable	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IEC 62067 / CIGRE TB 490, TB 722 & TB 862 Dynamic Export
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IEC 62067 / CIGRE TB 490, TB 722 & TB 862 Dynamic Export	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 62067 / CIGRE TB 490, TB 722 & TB 862 Dynamic Export		

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
245KV HVAC DYNAMIC CABLE Construction Schedule (−20…+90 °C) 3 sizes						
☐ **245KV HVAC DYNAMIC CABLE 3×240 mm² + FO**	**3 × 240 mm² + 48F FIMT**	**IEC 60228 Class 2 water-blocked Cu**	**118.0**	**26,400**	**320.0**	**1,770**
☐ **245KV HVAC DYNAMIC CABLE 3×400 mm² + FO**	**3 × 400 mm² + 48F FIMT**	**IEC 60228 Class 2 water-blocked Cu**	**134.0**	**34,800**	**420.0**	**2,010**
☐ **245KV HVAC DYNAMIC CABLE 3×630 mm² + FO**	**3 × 630 mm² + 96F FIMT**	**IEC 60228 Class 2 water-blocked Cu**	**152.0**	**46,200**	**560.0**	**2,280**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IEC 62067 / CIGRE TB 490, TB 722 & TB 862 Dynamic Export.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 240 mm² + 48F FIMT	**0.08**	**19/33 kV (560 A)**	**−20…+90 °C**
3 × 400 mm² + 48F FIMT	**0.05**	**19/33 kV (710 A)**	**−20…+90 °C**
3 × 630 mm² + 96F FIMT	**0.03**	**19/33 kV (890 A)**	**−20…+90 °C**

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

Standards and approvals

- IEC 62067 / CIGRE TB 862 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/245kv-hvac-dynamic-cable

Typical values for this cable type, based on IEC 62067 / CIGRE TB 490, TB 722 & TB 862 Dynamic Export. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.