CEI 20-13 0.6/1 kV steel-wire & tape armoured seabed power cable

RG7OEFE 0.6/1 KV (MARINE)

RG7OEFE 0.6/1 kV (MARINE) G7 HEPR Steel-Armoured Seabed Power Cable

CEI 20-13 / IEC 60502-1 · 0.6/1 kV · Cei 20-13 0.6/1 kv steel-wire & tape armoured



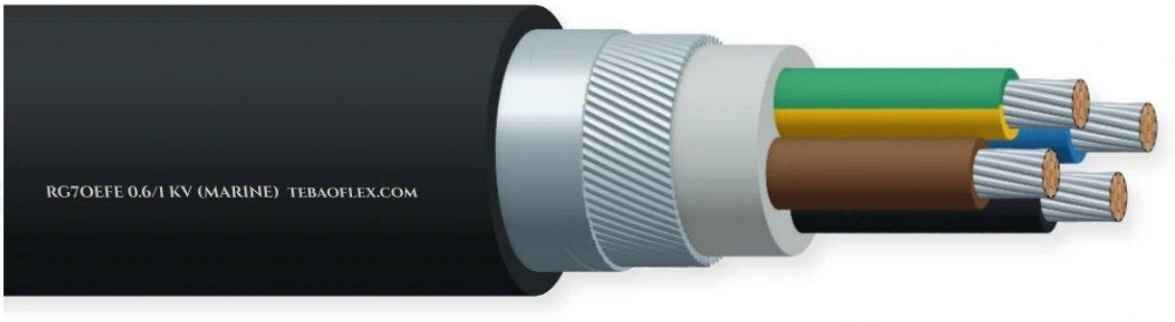
CEI 20-13 / IEC 60502-1 | **0.6/1 kV (200 m / 20 bar)** | **SWA + Spiral Steel Tape**

Application

RG7OEFE 0.6/1 kV (MARINE) Class 2 Tinned-Copper G7 HEPR-Insulated Galvanized Steel-Wire & Spiral Steel-Tape Armoured (200m / 20 bar) Seabed Underwater Power Cable (CEI 20-13 / IEC 60502-1, 0.6/1 kV, -25 to +90 °C).

Typical uses: Naval Shipboard & Submarine Outboard, Offshore Cathodic Protection (ICCP), Underwater Welding & Nuclear Pools, Deep-Well & Seabed Pump Feeders

Construction





Cross-section, not to scale

1. Phase Conductors (Class 2 Tinned Copper)
2. G7 Quality HEPR Insulation (0.6/1 kV)
3. Extruded Polyethylene Inner Sheath
4. Composite Steel Wire + Spiral Steel Tape (FE)
5. Black UV-Resistant PE Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (CEI 20-13 / IEC 60502-1 / 20 bar (200 m) Seabed Power)	**Core / conductor construction**	Phase Conductors (Class 2 Tinned Copper) — IEC 60228 Class 2 stranded tinned copper conductors (3G1.5–50 & 4G1.5–50 mm²)
Primary dielectric / buffering	G7 Quality HEPR Insulation (0.6/1 kV) — High-modulus cross-linked ethylene propylene rubber (CEI 20-13, 90 °C / 250 °C SC)	**Continuous operating temperature**	−25…+90 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per CEI 20-13 / IEC 60502-1 / 20 bar (200 m) Seabed Power	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Black UV-Resistant PE Outer Sheath — Extruded black polyethylene outer jacket for 200 m (20 bar) seabed installation	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	Composite Steel Wire + Spiral Steel Tape (FE) — 1° helically served galvanized steel wires + 2° spiral galvanized steel binder tape	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per CEI 20-13 / IEC 60502-1 / 20 bar (200 m) Seabed Power
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per CEI 20-13 / IEC 60502-1 / 20 bar (200 m) Seabed Power	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	CEI 20-13 / IEC 60502-1 / 20 bar (200 m) Seabed Power		

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
RG7OEFE 0.6/1 KV (MARINE) Construction Schedule (−25…+90 °C) 3 sizes						
☐ **RG7OEFE 0.6 4G16 mm²**	4G16 mm² (3×16 + 1G16)	IEC 60228 Class 5 flexible Cu/SnCu	21.8	840	2.4	130
☐ **RG7OEFE 0.6 4G35 mm²**	4G35 mm² (3×35 + 1G16)	IEC 60228 Class 5 flexible Cu/SnCu	28.6	1,620	5.2	172
☐ **RG7OEFE 0.6 3×70 + 3G16 mm²**	3 × 70 mm² + 3G16 mm²	IEC 60228 Class 5 flexible Cu/SnCu	38.4	3,180	10.5	230

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per CEI 20-13 / IEC 60502-1 / 20 bar (200 m) Seabed Power.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4G16 mm² (3×16 + 1G16)	1.21	0.6/1 kV (94 A submerged)	−25…+90 °C
4G35 mm² (3×35 + 1G16)	0.55	0.6/1 kV (152 A submerged)	−25…+90 °C
3 × 70 mm² + 3G16 mm²	0.27	0.6/1 kV (235 A submerged)	−25…+90 °C

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

Standards and approvals

- CEI 20-13 / IEC 60502-1 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/rg7oefe-0-6-1-kv-marine

Typical values for this cable type, based on CEI 20-13 / IEC 60502-1 / 20 bar (200 m) Seabed Power. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.