submersible aquaculture, pump & marine rubber cable

JHS 450/750V Submersible

JHS 450/750V Waterproof Rubber Submersible Cable

GB/T 5013 / IEC 60245 · 450/750 V · Submersible aquaculture, pump & marine rubber cable



GB/T 5013 / IEC 60245 | 450/750 V (-30 to +65 °C) | Subsea / Marine Outer Protective She

Application

JHS 450/750V Waterproof Rubber Submersible Cable featuring flexible stranded copper conductors (5 cores) and subsea / marine outer protective sheath (GB/T 5013 / IEC 60245, 450/750 V, -30 to +65 °C, min. bend radius 6 × OD).

Typical uses: Offshore & Coastal Aquaculture Cage Power Distribution, Submersible Aerators, Blowers & Clean-Water Well Pumps, WRAS / KTW Hatchery & Potable Water Pumping Systems, Submersible Pool, Reservoir & Tank Cleaning Robots

Construction





Cross-section, not to scale

1. Flexible Stranded Copper Conductors (5 C
2. Cross-Linked Elastomeric / Polymer Core
3. Water-Blocking Tape & Inner Bedding
4. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	450/750 V (GB/T 5013 & IEC 60245 JHS Waterproof Elastomeric Submersible Cable Standard)	**Core / conductor construction**	Flexible Stranded Copper Conductors (5 Cores) — Class 5 / class 6 copper conductors
Primary dielectric / optical buffer	Cross-Linked Elastomeric / Polymer Core Insulation — Ethylene-propyiene rubber (epr/epdm) insulation	**Continuous operating temperature**	−30…+65 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −30…+65 °C per GB/T 5013 & IEC 60245 JHS Waterproof Elastomeric Submersible Cable Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Black heavy-duty polychloroprene (PCP / EM2 / SGM5) submersible rubber sheath	**Minimum bending radius**	6 × OD
Reinforcement / screen / bedding layer	Water-Blocking Tape & Inner Bedding — Hydrostatic water-blocking filler and low-friction separator wrap	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per GB/T 5013 & IEC 60245 JHS Waterproof Elastomeric Submersible Cable Standard
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per GB/T 5013 & IEC 60245 JHS Waterproof Elastomeric Submersible Cable Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	GB/T 5013 & IEC 60245 JHS Waterproof Elastomeric Submersible Cable Standard		

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	Max. pulling kN ≈	Min. bend R mm
JHS 450/750V Submersible Construction Schedule (−30…+65 °C) 3 sizes						
☐ **JHS 450 4G4.0 mm²**	**4G4.0 mm² (3×4.0 + 1G4.0 / 12 AWG)**	**IEC 60228 Class 5 Cu/SnCu**	**14.2**	**340**	**3.2**	**85**
☐ **JHS 450 4G16 mm²**	**4G16 mm² (3×16 + 1G16 / 6 AWG)**	**IEC 60228 Class 5 Cu/SnCu**	**21.4**	**840**	**9.6**	**130**
☐ **JHS 450 3×50+1G25 mm²**	**3 × 50 + 1G25 mm² (or 3×70+1G35)**	**IEC 60228 Class 5 Cu/SnCu**	**32.8**	**2,240**	**26.5**	**195**

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per GB/T 5013 & IEC 60245 JHS Waterproof Elastomeric Submersible Cable Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
4G4.0 mm² (3×4.0 + 1G4.0 / 12 AWG)	**4.95**	**450/750 V (36 A Submersible)**	**−30…+65 °C**
4G16 mm² (3×16 + 1G16 / 6 AWG)	**1.21**	**450/750 V (98 A Submersible)**	**−30…+65 °C**
3 × 50 + 1G25 mm² (or 3×70+1G35)	**0.39**	**450/750 V (195 A Feeder)**	**−30…+65 °C**

– Every production length undergoes routine conductor DC resistance / OTDR optical attenuation, AC dielectric and dimensional verification.

Standards and approvals

- GB/T 5013 / IEC 60245 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/jhs-450-750v-waterproof-rubber-submersible-cable

Typical values for this cable type, based on GB/T 5013 & IEC 60245 JHS Waterproof Elastomeric Submersible Cable Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.