marine winch, salvage, shore power & crawler reeling cable

RK-Mining Extreme-Duty Offshore

RK-Mining Extreme-Duty Mining & Offshore Cable

DIN VDE 0250-814 / DNV · 0.6/1 kV (1.8/3 kV) · Marine winch, salvage, shore power &



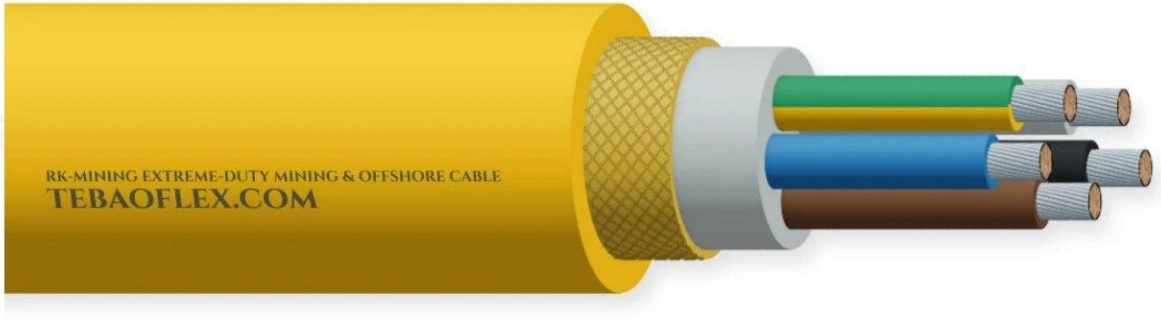
DIN VDE 0250-814 / DNV | 0.6/1 kV (1.8/3 kV) (-40 to +90 °C) | Subsea / Marine Outer Protective She

Application

RK-Mining Extreme-Duty Mining & Offshore Cable featuring flexible stranded copper conductors (7 cores) and subsea / marine outer protective sheath (DIN VDE 0250-814 / DNV, 0.6/1 kV (1.8/3 kV), -40 to +90 °C, min. bend radius 6 × OD).

Typical uses: Marine Salvage, Deck Crane & Oceanographic Winch Drums, High-Voltage & Low-Voltage Port Shore Power (AMP / HVSC) Reels, Seabed Crawler, Amphibious Excavator & Dredge Reeling Systems, Offshore Aquaculture Feed Barge & Net-Handling Winches

Construction





Cross-section, not to scale

1. Flexible Stranded Copper Conductors (7 C
2. Aramid / LCP Braided Strength Member
3. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	0.6/1 kV (1.8/3 kV) (DIN VDE 0250-814 RK-Mining Extreme-Duty Mining & Offshore Reeling Standard)	**Core / conductor construction**	Flexible Stranded Copper Conductors (7 Cores) — Class 5 / Class 6 copper conductors with Ethylene-propyiene rubber (EPR/EPDM) insulation
Primary dielectric / optical buffer	Aramid / LCP Braided Strength Member — High-tenacity synthetic fiber braid absorbing dynamic tension	**Continuous operating temperature**	−40…+90 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+90 °C per DIN VDE 0250-814 RK-Mining Extreme-Duty Mining & Offshore Reeling Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Black hydrolysis- & abrasion-resistant marine Polyurethane (PUR) outer sheath	**Minimum bending radius**	6 × OD
Reinforcement / screen / bedding layer	Aramid / LCP Braided Strength Member — High-tenacity synthetic fiber braid absorbing dynamic tension	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per DIN VDE 0250-814 RK-Mining Extreme-Duty Mining & Offshore Reeling Standard
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per DIN VDE 0250-814 RK-Mining Extreme-Duty Mining & Offshore Reeling Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0250-814 RK-Mining Extreme-Duty Mining & Offshore Reeling 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
RK-Mining Extreme-Duty Offshore Construction Schedule (−40…+90 °C) 3 sizes						
☐ **RK-Mining Extreme-Duty Offshore 4G1.5 / 5C18AWG**	**4G1.5 mm² (or 5C × 18 AWG)**	**IEC 60228 Class 5/6 Cu/SnCu**	**9.6**	**145**	**2.2**	**55**
☐ **RK-Mining Extreme-Duty Offshore 7G1.5 / 8C16AWG**	**7G1.5 mm² (or 8C × 16 AWG)**	**IEC 60228 Class 5/6 Cu/SnCu**	**12.2**	**235**	**3.6**	**70**
☐ **RK-Mining Extreme-Duty Offshore 12G2.5 / 16C16AW**	**12G2.5 mm² (or 16C × 16 AWG)**	**IEC 60228 Class 5/6 Cu/SnCu**	**17.4**	**510**	**7.5**	**105**

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per DIN VDE 0250-814 RK-Mining Extreme-Duty Mining & Offshore Reeling Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
4G1.5 mm² (or 5C × 18 AWG)	**13.30**	**0.6/1 kV (1.8/3 kV) (18 A)**	**−40…+90 °C**
7G1.5 mm² (or 8C × 16 AWG)	**13.30**	**0.6/1 kV (1.8/3 kV) (16 A)**	**−40…+90 °C**
12G2.5 mm² (or 16C × 16 AWG)	**7.98**	**0.6/1 kV (1.8/3 kV) (22 A)**	**−40…+90 °C**

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

Standards and approvals

- DIN VDE 0250-814 / DNV 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/rk-mining-extreme-duty-mining-offshore-cable

Typical values for this cable type, based on DIN VDE 0250-814 RK-Mining Extreme-Duty Mining & Offshore Reeling Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.