marine winch, salvage, shore power & crawler reeling cable

PUR-HF Heavy Crawler Drum Reeling

PUR-HF Heavy-Duty Crawler Drum Reeling Cable

DIN VDE 0250-814 / IEC 60502-1 · 0.6/1 kV · Marine winch, salvage, shore power &



DIN VDE 0250-814 / IEC 60502-1 | 0.6/1 kV (-40 to +80 °C) | Subsea / Marine Outer Protective She

Application

PUR-HF Heavy-Duty Crawler Drum Reeling Cable featuring flexible stranded copper conductors (4 cores) and subsea / marine outer protective sheath (DIN VDE 0250-814 / IEC 60502-1, 0.6/1 kV, -40 to +80 °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 (4 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 (DIN VDE 0250-814 PUR-HF Heavy-Duty Seabed Crawler Drum Reeling Specification)	**Core / conductor construction**	Flexible Stranded Copper Conductors (4 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…+80 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+80 °C per DIN VDE 0250-814 PUR-HF Heavy-Duty Seabed Crawler Drum Reeling Specification	**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 PUR-HF Heavy-Duty Seabed Crawler Drum Reeling Specification
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per DIN VDE 0250-814 PUR-HF Heavy-Duty Seabed Crawler Drum Reeling Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0250-814 PUR-HF Heavy-Duty Seabed Crawler Drum Reeling Specification		

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
PUR-HF Heavy Crawler Drum Reeling Construction Schedule (−40…+80 °C) 3 sizes						
☐ **PUR-HF Heavy Crawler Drum Reeling 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**
☐ **PUR-HF Heavy Crawler Drum Reeling 4G16 mm²**	**4G16 mm² (3×16 + 1G16 / 6 AWG)**	**IEC 60228 Class 5 Cu/SnCu**	**21.4**	**840**	**9.6**	**130**
☐ **PUR-HF Heavy Crawler Drum Reeling 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 DIN VDE 0250-814 PUR-HF Heavy-Duty Seabed Crawler Drum Reeling Specification.

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**	**0.6/1 kV (36 A Submersible)**	**−40…+80 °C**
4G16 mm² (3×16 + 1G16 / 6 AWG)	**1.21**	**0.6/1 kV (98 A Submersible)**	**−40…+80 °C**
3 × 50 + 1G25 mm² (or 3×70+1G35)	**0.39**	**0.6/1 kV (195 A Feeder)**	**−40…+80 °C**

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

Standards and approvals

- DIN VDE 0250-814 / 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/pur-hf-heavy-duty-crawler-drum-reeling-cable

Typical values for this cable type, based on DIN VDE 0250-814 PUR-HF Heavy-Duty Seabed Crawler Drum Reeling Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.