500 m submersible dredger & floating dock /3E rubber cable

NTSCGEWÖU / 3E & NSSHÖU / 3E

500m Submersible Dredger Rubber Cable

VDE 0250-812 / -813 · 6/10 kV · 500 m submersible dredger & floating dock /3e rubber cable



DIN VDE 0250-812 / -813 | 0.6/1 kV & 1.8/3–18/30 kV | 500 m Dredger (/3E)

Application

NTSCGEWÖU / 3E (1.8/3–18/30 kV) & NSSHÖU / 3E (0.6/1 kV) Individual Concentric Copper-Core Shielded (/3E) 500m Submersible Dredger & Pump Rubber Cable (VDE 0250-812 / -813, 6/10 kV, -25 to +90 °C, min. bend radius 10 × OD).

Typical uses: Deep-Well Potable Water Pumping, Municipal Sewage & Wastewater Plants, Mine Dewatering & Slurry Dredging, Geothermal, Spa & Pool Installations

Construction





Cross-section, not to scale

1. Class 5 Tinned / Bare Copper (Up to 240 mm²)
2. Semicon Screens & 3GI3 EPR Insulation
3. Individual Concentric PE Copper Screen (/3E)
4. Anti-Bubble GM1B EPR Inner Sheath
5. Red 5GM3 / Yellow 5GM5 Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	6/10 kV (DIN VDE 0168 / DIN VDE 0250-812 & -813 Dredger Standard)	**Core / conductor construction**	Class 5 Tinned / Bare Copper (Up to 240 mm²) — Finely stranded tinned copper (NTSCGEWÖU / 3E) or plain copper (NSSHÖU / 3E) phase cores
Primary dielectric / buffering	Semicon Screens & 3GI3 EPR Insulation — Triple-extruded field control + high-grade 3GI3 EPR (0.6/1 kV up to 18/30 kV)	**Continuous operating temperature**	−25…+90 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per DIN VDE 0168 / DIN VDE 0250-812 & -813 Dredger Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Red 5GM3 / Yellow 5GM5 Outer Sheath — Heavy-duty chlorinated elastomer jacket (±25 °/m torsion, MSHA P-189-3/4)	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	Anti-Bubble GM1B EPR Inner Sheath — Waterproof anti-bubble GM1B EPR inner jacket rated for 500 m salt/sewage water	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per DIN VDE 0168 / DIN VDE 0250-812 & -813 Dredger Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per DIN VDE 0168 / DIN VDE 0250-812 & -813 Dredger Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0168 / DIN VDE 0250-812 & -813 Dredger 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	Tensile rating kN ≈	Min. bend R mm
NTSCGEWÖU / 3E & NSSHÖU / 3E Construction Schedule (−25…+90 °C) 3 sizes						
☐ **NTSCGEWÖU 4G16 mm²**	**4G16 mm² (3×16 + 1G16)**	**IEC 60228 Class 5 flexible Cu/SnCu**	**21.8**	**840**	**2.4**	**130**
☐ **NTSCGEWÖU 4G35 mm²**	**4G35 mm² (3×35 + 1G16)**	**IEC 60228 Class 5 flexible Cu/SnCu**	**28.6**	**1,620**	**5.2**	**172**
☐ **NTSCGEWÖU 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 DIN VDE 0168 / DIN VDE 0250-812 & -813 Dredger Standard.

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**	**6/10 kV (94 A submerged)**	**−25…+90 °C**
4G35 mm² (3×35 + 1G16)	**0.55**	**6/10 kV (152 A submerged)**	**−25…+90 °C**
3 × 70 mm² + 3G16 mm²	**0.27**	**6/10 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

- VDE 0250-812 / -813 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/ntscgewoeu-3e-nsshoeu-3e

Typical values for this cable type, based on DIN VDE 0168 / DIN VDE 0250-812 & -813 Dredger Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.