Medium-voltage screened submersible pump & dredger cable

(N)TSCGECEWÖU MT PLUS

3.6/6–12/20 kV Submersible MV Cable

VDE 0250-813 · 3.6/6 kV · Medium-voltage screened submersible pump & dredger cable



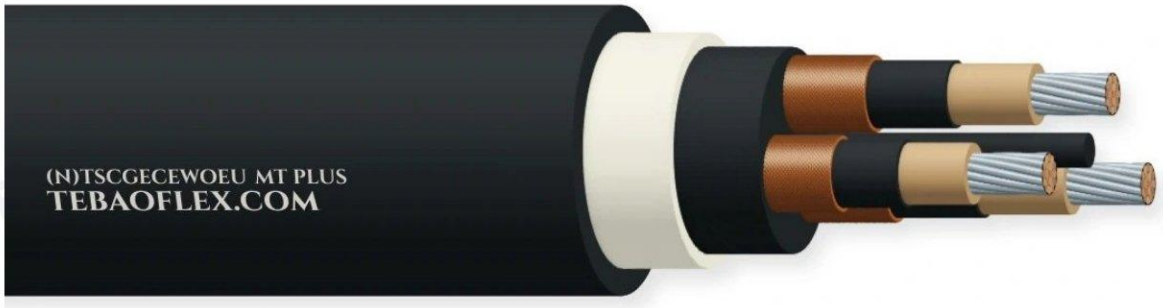
DIN VDE 0250-813 | 3.6/6–12/20 kV MV | 300 m Submersion

Application

(N)TSCGECEWÖU 3.6/6–12/20 kV (MV Submersible Individually Copper-Braided MV Submersible Pump/Dredger Cable) & MT PLUS 3.6/6 kV (WRAS/ACS MV Potable-Water Cable) (VDE 0250-813, 3.6/6 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 Copper MV Conductors
2. Triple-Extruded 3GI3 EPR MV Insulation
3. Individual Copper Braid Phase Screen (CE)
4. Reinforced Cradle & GM1b Waterproof Inner
5. 5GM3 CM / Blue EM6 Potable-Water Sheath

Technical data

Typical values

Rated voltage / transmission duty	3.6/6 kV (DIN VDE 0250-813 / WRAS / ACS)	**Core / conductor construction**	Class 5 Tinned Copper MV Conductors — Flexible stranded tinned copper conductors rated for 3.6/6 kV up to 12/20 kV
Primary dielectric / buffering	Triple-Extruded 3GI3 EPR MV Insulation — Semiconductive conductor screen + 3GI3 EPR dielectric + outer semiconductive screen	**Continuous operating temperature**	−25…+90 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per DIN VDE 0250-813 / WRAS / ACS	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	5GM3 CM / Blue EM6 Potable-Water Sheath — Black 5GM3 CM (MV Submersible) or Blue WRAS/ACS EM6 (MT PLUS, 300 m)	**Minimum bending radius**	10 × OD
Hydrostatic, tensile & crush duty	Reinforced Cradle & GM1b Waterproof Inner — Central reinforced rubber cradle + semicon tape + waterproof GM1b EPR inner sheath	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per DIN VDE 0250-813 / WRAS / ACS
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per DIN VDE 0250-813 / WRAS / ACS	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0250-813 / WRAS / ACS		

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
(N)TSCGECEWÖU MT PLUS Construction Schedule (−25…+90 °C) 3 sizes						
☐ **(N)TSCGECEWÖU MT P 4G16 mm²**	**4G16 mm² (3×16 + 1G16)**	**IEC 60228 Class 5 flexible Cu/SnCu**	**21.8**	**840**	**2.4**	**130**
☐ **(N)TSCGECEWÖU MT P 4G35 mm²**	**4G35 mm² (3×35 + 1G16)**	**IEC 60228 Class 5 flexible Cu/SnCu**	**28.6**	**1,620**	**5.2**	**172**
☐ **(N)TSCGECEWÖU MT P 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 0250-813 / WRAS / ACS.

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**	**3.6/6 kV (94 A submerged)**	**−25…+90 °C**
4G35 mm² (3×35 + 1G16)	**0.55**	**3.6/6 kV (152 A submerged)**	**−25…+90 °C**
3 × 70 mm² + 3G16 mm²	**0.27**	**3.6/6 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 0250-813 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/n-tscgecewoeu-mt-plus

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