500 m submersible sewage & mine dewatering pump rubber cable

500 & 500 S

0.6/1 kV 500m Submersible Sewage & Dewatering Pump Cable

VDE 0282 / AD8 500m · 0.6/1 kV · 500 m submersible sewage & mine dewatering pump



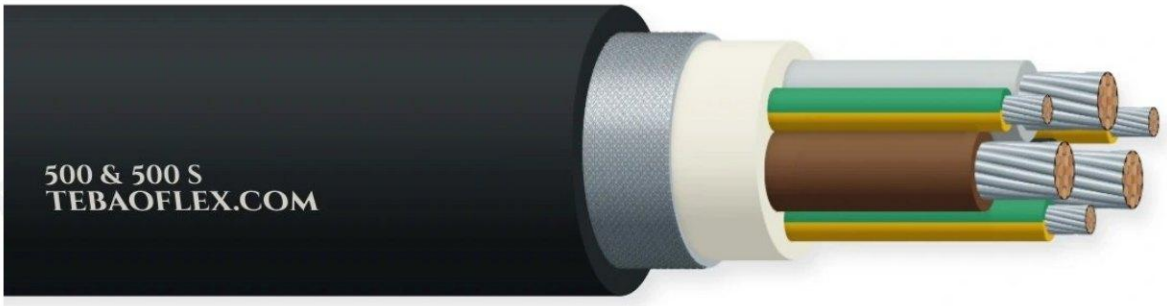
AD8 500 m Submersion | 0.6/1 kV (Max 1.2 kV) | KON Concentric Screen

Application

500 & 500 S (with KON Concentric Tinned Copper Braid Screen & Split Earth) 0.6/1 kV Heavy-Duty 500m Submersible Sewage & Dewatering Pump Cable (VDE 0282 / AD8 500m, 0.6/1 kV, -25 to +85 °C, min. bend radius 6 × 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. Phase Conductors (3×35 mm² Tinned Cu)
2. Symmetrical Split Earths (3×16/3 mm²)
3. Waterproof EPDM Inner Sheath (500 m)
4. Concentric Tinned Copper Braid (KON)
5. Sewage- & Oil-Resistant Black CPE Sheath

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (DIN VDE 0282 / IEC 60332-1-2 / EN 60811-404 Sewage Pump)	**Core / conductor construction**	Phase Conductors (3×35 mm² Tinned Cu) — IEC 60228 Class 5 flexible tinned copper with EI7 / 3GI3 EPR (Brown, Black, Grey)
Primary dielectric / buffering	Symmetrical Split Earths (3×16/3 mm²) — Three Green/Yellow EPR-insulated tinned copper earth cores in outer valleys	**Continuous operating temperature**	−25…+85 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per DIN VDE 0282 / IEC 60332-1-2 / EN 60811-404 Sewage Pump	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Sewage- & Oil-Resistant Black CPE Sheath — Cross-linked CPE rubber outer jacket passing IEC 60811-404 oil & IEC 60332-1-2 flame	**Minimum bending radius**	6 × OD
Hydrostatic, tensile & crush duty	Concentric Tinned Copper Braid (KON) — Overall tinned copper wire braid screen & earth-fault monitoring layer	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per DIN VDE 0282 / IEC 60332-1-2 / EN 60811-404 Sewage Pump
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per DIN VDE 0282 / IEC 60332-1-2 / EN 60811-404 Sewage Pump	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0282 / IEC 60332-1-2 / EN 60811-404 Sewage Pump		

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
500 & 500 S Construction Schedule (−25…+85 °C) 3 sizes						
☐ 500 4G16 mm²	4G16 mm² (3×16 + 1G16)	IEC 60228 Class 5 flexible Cu/SnCu	21.8	840	2.4	130
☐ 500 4G35 mm²	4G35 mm² (3×35 + 1G16)	IEC 60228 Class 5 flexible Cu/SnCu	28.6	1,620	5.2	172
☐ 500 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 0282 / IEC 60332-1-2 / EN 60811-404 Sewage Pump.

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	0.6/1 kV (94 A submerged)	−25…+85 °C
4G35 mm² (3×35 + 1G16)	0.55	0.6/1 kV (152 A submerged)	−25…+85 °C
3 × 70 mm² + 3G16 mm²	0.27	0.6/1 kV (235 A submerged)	−25…+85 °C

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- VDE 0282 / AD8 500m 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/500-500-s

Typical values for this cable type, based on DIN VDE 0282 / IEC 60332-1-2 / EN 60811-404 Sewage Pump. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.