Screened power & VFD / motor supply cables

Submersible Pump VFD & Monitoring

Submersible Pump VFD Power and Screened Monitoring Hybrid Cable



AD8 waterproof 0.6/1 kV EPR/PCP hybrid VFD pump power + screened sensor cable

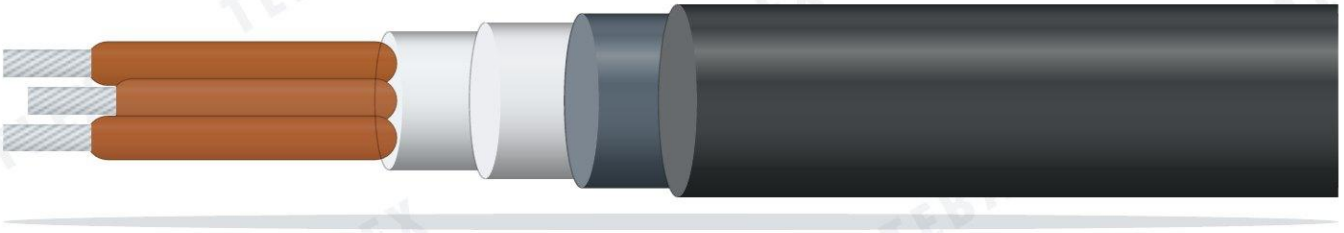
AD8 Submersible · 500 m | **U0/U 0.6/1 kV** | **VFD Power + Screened Pairs**

Application

Submersible Pump Power & Monitoring VFD and Screened Monitoring — Hybrid 0.6/1 kV submersible pump cable combining EMC-screened VFD power cores (4G or symmetrical 3+3G) with individually screened PT100/thermistor/seal-leakage monitoring pairs inside an AD8.

Typical uses: Submersible VFD sewage pumps, Mine dewatering & shaft pumps, Offshore caisson & ballast pumps, Municipal water & storm stations

Construction





Cross-section, not to scale

1	Power & control conductors	IEC 60228 / DIN EN 60228 Class 5
2	Core insulation	DIN VDE 0207-20 (+90 °C)
3	Inner sheath	DIN VDE 0250-812 pressure-extruded bedding
4	Outer sheath	

Technical data

Typical values

Rated voltage U0/U	600/1000 V (power) · 300/500 V (pairs)	AC test voltage	4000 V (power) · 2000 V (pairs)
Screen / Field control	Individual pair Cu braids + overall Cu braid	Current rating	Per DIN VDE 0298-4 (+90 °C EPR)
Max. conductor temperature	+90 °C continuous	Short-circuit temperature	+250 °C (max. 5 s)
Max. water temperature	+70 °C continuous submerged	Temperature, flexing	−25 °C to +80 °C
Min. bending radius, fixed	6 × OD	Min. bending radius, moving	10 × OD
Max. tensile load (permanent / dynamic)	15 N/mm²	Submersion depth	Up to 500 m (5.0 MPa / AD8)
Water	AD8 permanent submersion (IEC 60529 IP68)	Oil resistance	EN 60811-404 / DIN VDE 0473-811-404
Chemicals	Sewage, slurry, weak acids & alkalis (pH 4–10)	Flame retardance	IEC 60332-1-2
Standards	DIN VDE 0250-812 / EN 50525-2-21		

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Power cores mm²	Screened pairs mm²	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
4G power + 2 individually screened control pairs 5 sizes						
☐ Sub-VFD 4G2.5 + 2×(2×1.0)C	4G2.5	2×(2×1.0)C	18.4	215	445	110
☐ Sub-VFD 4G4 + 2×(2×1.0)C	4G4	2×(2×1.0)C	20.2	295	560	121
☐ Sub-VFD 4G6 + 2×(2×1.0)C	4G6	2×(2×1.0)C	22.1	385	690	133
☐ Sub-VFD 4G10 + 2×(2×1.5)C	4G10	2×(2×1.5)C	25.8	610	985	155
☐ Sub-VFD 4G16 + 2×(2×1.5)C	4G16	2×(2×1.5)C	29.4	865	1,320	176
Symmetrical 3+3G power + 2 individually screened control pairs 7 sizes						
☐ Sub-VFD 3×16+3G2.5 + 2×(2×1.5)C	3×16 + 3G2.5	2×(2×1.5)C	28.6	755	1,240	172
☐ Sub-VFD 3×25+3G4 + 2×(2×1.5)C	3×25 + 3G4	2×(2×1.5)C	32.5	1,120	1,690	195
☐ Sub-VFD 3×35+3G6 + 2×(2×1.5)C	3×35 + 3G6	2×(2×1.5)C	35.8	1,510	2,160	215
☐ Sub-VFD 3×50+3G10 + 2×(2×1.5)C	3×50 + 3G10	2×(2×1.5)C	40.4	2,120	2,890	242
☐ Sub-VFD 3×70+3G10 + 2×(2×1.5)C	3×70 + 3G10	2×(2×1.5)C	44.8	2,795	3,680	269
☐ Sub-VFD 3×95+3G16 + 2×(2×1.5)C	3×95 + 3G16	2×(2×1.5)C	50.2	3,790	4,820	301
☐ Sub-VFD 3×120+3G16 + 2×(2×1.5)C	3×120 + 3G16	2×(2×1.5)C	54.6	4,620	5,750	328

– Other auxiliary pair/triad combinations (e.g. 3×(2×1.0)C or 4×1.5C) are manufactured to match specific pump gland entry plates.

Standards and approvals

- CE (2014/35/EU Low Voltage Directive)
- EN 61800-3 / EN 55011 EMC Class A/B
- IEC 60332-1-2 Flame Retardant

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/submersible-pump-vfd-power-and-screened-monitoring-cable

Typical values for this cable type, based on DIN VDE 0250-812 · EN 50525-2-21 · AD8. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.