



AD8 Potable-Water & Deep-Well Submersible Pump Cables

Submersible Pump Cable

450/750 V & 0.6/1 kV flat 3- & 4-core KTW/WRAS/ACS potable-water EPDM deep-well pump cable

0.6/1 kV AD8 500 m Submersible

Flat 3C & 4C Borehole Profile

KTW / WRAS / ACS / NSF-61 Potable

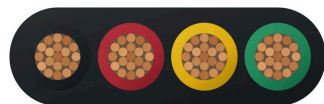


Application

Flat Submersible Pump Cable is a low-profile 3-core and 4-core motor lead and drop cable engineered for continuous AD8 immersion down to 500 m (50 bar hydrostatic pressure) in narrow borehole wells. Built with parallel Class 5 flexible bare or tinned copper core

Typical uses: Municipal drinking-water wells, Deep-well agricultural irrigation, Submersible motor lead tails, Geothermal & mineral-water bores, Mine & tunnel dewatering

Construction



Cross-section, not to scale

1	Class 5 flexible copper (IEC 60228)	IEC 60228
2	High-grade EPR / HEPR rubber (3GI3)	VDE 0282
3	Potable-water EPDM flat sheath	BS 6920

Technical data

Typical values

Rated voltage (U0/U)	450/750 V & 0.6/1 kV AC (up to 1.2 kV AC max.)	AC test voltage (water bath)	3.5 kV rms for 5 minutes
Insulation resistance in water	≥1,000 MΩ·km at +20 °C	Max. conductor operating temperature	+90 °C continuous · +250 °C short-circuit
Permissible water temperature	Up to +70 °C (KTW/WRAS potable) · up to +85 °C (industrial water)	Hydrostatic immersion rating	AD8 permanent submersion up to 500 m depth (50 bar / 5.0 MPa)
Minimum bending radius	4 × cable flat thickness (H) for fixed riser clamping	Drinking-water hygiene & leaching	Zero organic carbon (TOC), taste, odour or heavy-metal migration per BS 6920 & KTW-BWGL
Water uptake & hydrolysis	<1.5 mg/cm ² gravimetric water absorption; immune to chlorinated water	Standards	UBA KTW-BWGL / DVGW W270 (Germany), WRAS BS 6920 (UK), ACS (France), NSF/ANSI 61 (USA)

Sizes

16 standard constructions

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

Designation	Cores × Size mm ²	Flat H × W mm	Nom. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
Submersible Pump Cable size schedule 16 sizes						
☐ Flat 3×1.5	3 × 1.5 mm ²	5.2 × 11.8 mm	5.20	43.2	105.0	20.8
☐ Flat 3×2.5	3 × 2.5 mm ²	5.8 × 13.5 mm	5.80	72.0	145.0	23.2
☐ Flat 3×4.0	3 × 4.0 mm ²	6.8 × 16.2 mm	6.80	115.2	210.0	27.2
☐ Flat 3×6.0	3 × 6.0 mm ²	7.5 × 18.0 mm	7.50	172.8	280.0	30.0
☐ Flat 3×10	3 × 10 mm ²	9.2 × 22.4 mm	9.20	288.0	445.0	36.8
☐ Flat 3×16	3 × 16 mm ²	10.6 × 26.0 mm	10.60	460.8	660.0	42.4
☐ Flat 3×25	3 × 25 mm ²	12.5 × 31.2 mm	12.50	720.0	995.0	50.0
☐ Flat 3×35	3 × 35 mm ²	13.8 × 35.0 mm	13.80	1,008.0	1,340.0	55.2
☐ Flat 4G1.5	4G 1.5 mm ²	5.4 × 15.2 mm	5.40	57.6	135.0	21.6
☐ Flat 4G2.5	4G 2.5 mm ²	6.2 × 17.8 mm	6.20	96.0	195.0	24.8
☐ Flat 4G4.0	4G 4.0 mm ²	7.2 × 21.0 mm	7.20	153.6	280.0	28.8
☐ Flat 4G6.0	4G 6.0 mm ²	8.0 × 23.8 mm	8.00	230.4	380.0	32.0
☐ Flat 4G10	4G 10 mm ²	9.6 × 29.2 mm	9.60	384.0	595.0	38.4
☐ Flat 4G16	4G 16 mm ²	11.0 × 34.0 mm	11.00	614.4	880.0	44.0
☐ Flat 4G25	4G 25 mm ²	13.0 × 41.0 mm	13.00	960.0	1,320.0	52.0
☐ Flat 4G35	4G 35 mm ²	14.5 × 46.0 mm	14.50	1,344.0	1,780.0	58.0

– Dimensions and tolerances conform to DIN VDE 0282 / BS 6920 / KTW / ACS / NSF-61.

Electrical data

16 sizes

Cores × Size mm ²	Max. DC R @ 20 °C Ω/km	Current in air A	Installed / duty A
3 × 1.5 mm ²	13.300	23	18
3 × 2.5 mm ²	7.980	31	25
3 × 4.0 mm ²	4.950	42	34
3 × 6.0 mm ²	3.300	54	43
3 × 10 mm ²	1.910	75	60
3 × 16 mm ²	1.210	100	80
3 × 25 mm ²	0.780	133	106
3 × 35 mm ²	0.554	164	131
4G 1.5 mm ²	13.300	23	18

Cores × Size mm ²	Max. DC R @ 20 °C Ω/km	Current in air A	Installed / duty A
4G 2.5 mm ²	7.980	31	25
4G 4.0 mm ²	4.950	42	34
4G 6.0 mm ²	3.300	54	43
4G 10 mm ²	1.910	75	60
4G 16 mm ²	1.210	100	80
4G 25 mm ²	0.780	133	106
4G 35 mm ²	0.554	164	131

– Reference ampacities at +30 °C ambient; apply duty-cycle or grouping correction factors per standard.

Standards and approvals

- ✓ KTW-BWGL & DVGW W270 (Germany)
- ✓ WRAS BS 6920 (UK)
- ✓ ACS Attestation de Conformité Sanitaire (France)
- ✓ NSF/ANSI 61 Drinking Water
- ✓ CE / RoHS 3

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/flat-submersible-pump-cable



Typical values for this cable type, based on DIN VDE 0282 / BS 6920 / KTW / ACS / NSF-61. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.