KTW & food-contact certified PE-sheathed drinking-water cable

0.6/1 KV (KTW / FOOD ZONE)

0.6/1 kV KTW & EC 2002/72 Certified PE Drinking-Water Pump Cable

UBA KTW / EC 2002/72 · 0.6/1 kV · Ktw & food-contact certified pe-sheathed



UBA KTW & EC 2002/72 | **0.6/1 kV (3.5 kV Test)** | **150 m Drinking Water**

Application

0.6/1 kV KTW (Kiwa) & EC 2002/72 Certified PVC-Insulated Bright-Blue Water-Impermeable PE-Sheathed Drinking-Water & Food-Zone Pump Cable (UBA KTW / EC 2002/72, 0.6/1 kV, -20 to +70 °C, min. bend radius 8 × OD).

Typical uses: Naval Shipboard & Submarine Outboard, Offshore Cathodic Protection (ICCP), Underwater Welding & Nuclear Pools, Deep-Well & Seabed Pump Feeders

Construction





Cross-section, not to scale

1. Class 5 Flexible Bare Copper (3G–4G 1.5–2.5)
2. 0.6/1 kV PVC Core Insulation (HD 308 S2)
3. Bright-Blue Water-Impermeable PE Sheath

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (German UBA KTW (Kiwa) & EC Directive 2002/72/EC Food Zone)	**Core / conductor construction**	Class 5 Flexible Bare Copper (3G–4G 1.5–2.5) — Finely stranded annealed plain copper conductors for drinking-water & food-zone pumps
Primary dielectric / buffering	0.6/1 kV PVC Core Insulation (HD 308 S2) — High-dielectric PVC insulation color-coded Brown, Black, Grey & Green/Yellow (3.5 kV test)	**Continuous operating temperature**	−20…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per German UBA KTW (Kiwa) & EC Directive 2002/72/EC Food Zone	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Bright-Blue Water-Impermeable PE Sheath — Lead-free smooth PE jacket certified to German KTW (Kiwa) & EC 2002/72 food contact (150 m)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	0.6/1 kV PVC Core Insulation (HD 308 S2) — High-dielectric PVC insulation color-coded Brown, Black, Grey & Green/Yellow (3.5 kV test)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per German UBA KTW (Kiwa) & EC Directive 2002/72/EC Food Zone
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per German UBA KTW (Kiwa) & EC Directive 2002/72/EC Food Zone	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	German UBA KTW (Kiwa) & EC Directive 2002/72/EC Food Zone		

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
0.6/1 KV (KTW / FOOD ZONE) Construction Schedule (−20…+70 °C) 3 sizes						
☐ **0.6 4G16 mm²**	**4G16 mm² (3×16 + 1G16)**	**IEC 60228 Class 5 flexible Cu/SnCu**	**21.8**	**840**	**2.4**	**130**
☐ **0.6 4G35 mm²**	**4G35 mm² (3×35 + 1G16)**	**IEC 60228 Class 5 flexible Cu/SnCu**	**28.6**	**1,620**	**5.2**	**172**
☐ **0.6 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 German UBA KTW (Kiwa) & EC Directive 2002/72/EC Food Zone.

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)**	**−20…+70 °C**
4G35 mm² (3×35 + 1G16)	**0.55**	**0.6/1 kV (152 A submerged)**	**−20…+70 °C**
3 × 70 mm² + 3G16 mm²	**0.27**	**0.6/1 kV (235 A submerged)**	**−20…+70 °C**

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

Standards and approvals

- UBA KTW / EC 2002/72 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/0-6-1-kv-ktw-food-zone

Typical values for this cable type, based on German UBA KTW (Kiwa) & EC Directive 2002/72/EC Food Zone. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.