600 m XLPE/rubber potable-water round, flat & EMV screened cable

# CLEAN CABLE / CLEAN CABLE EMV

## CLEAN CABLE & CLEAN CABLE EMV 0.6/1 kV 600m Potable-Water Pump Cable

ACS / KTW / WRAS / DM174 · 0.6/1 kV · 600 m xlpe/rubber potable-water round, flat &



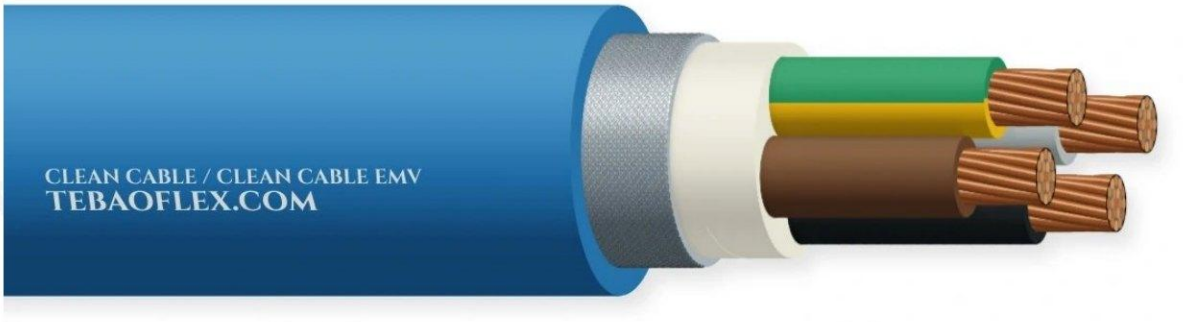

**ACS / KTW / WRAS / DM174** | **0.6/1 kV (AD8 600 m)** | **Round, Flat & EMV Screened**

## Application

CLEAN CABLE (Round / Flat) & CLEAN CABLE EMV (Screened Round) 0.6/1 kV XLPE-Insulated Cross-Linked Rubber Sheathed Potable Water Submersible Pump Cable (ACS / KTW / WRAS / DM174, 0.6/1 kV, -40 to +90 °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. Class 5 Bare Copper Conductors (4G1.5–50)
2. High-Insulation XLPE Dielectric (>200 MΩ·km)
3. Overall Tinned Copper Braid (EMV, ≥85%)
4. RAL 5015 Sky-Blue Cross-Linked Rubber Sheath

## Technical data

Typical values

| | | | |
|---|---|---|---|
| **Rated voltage / transmission duty** | 0.6/1 kV (CEI EN 60228 / ACS, KTW/W270, WRAS & DM 174 Potable Rubber) | **Core / conductor construction** | Class 5 Bare Copper Conductors (4G1.5–50) — CEI EN 60228 Class 5 flexible annealed bare copper conductors |
| **Primary dielectric / buffering** | High-Insulation XLPE Dielectric (>200 MΩ·km) — Low-capacitance cross-linked polyethylene insulation (Brown, Black, Grey & G/Y) | **Continuous operating temperature** | −40…+90 °C (subsea, marine & submersible duty) |
| **Short-circuit / peak thermal rating** | Verified thermal stability per CEI EN 60228 / ACS, KTW/W270, WRAS & DM 174 Potable Rubber | **Storage & transport temperature** | −40…+80 °C on export wooden/steel drum |
| **Outer protection / armouring** | RAL 5015 Sky-Blue Cross-Linked Rubber Sheath — Food-grade rubber jacket (≤0.5% halogen; ACS, KTW/W270, WRAS & DM 174 certified) | **Minimum bending radius** | 6 × OD |
| **Hydrostatic, tensile & crush duty** | Overall Tinned Copper Braid (EMV, ≥85%) — High-coverage tinned copper wire braid for VFD inverter EMC & bearing protection | **Hydrostatic pressure & water blocking** | Engineered for continuous submersion and hydrostatic integrity per CEI EN 60228 / ACS, KTW/W270, WRAS & DM 174 Potable Rubber |
| **Seawater, oil & chemical resistance** | Resistant to seawater hydrolysis, hydraulic oils and abrasion per CEI EN 60228 / ACS, KTW/W270, WRAS & DM 174 Potable Rubber | **RoHS & REACH compliance** | RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant |
| **Standards** | CEI EN 60228 / ACS, KTW/W270, WRAS & DM 174 Potable Rubber | | |

## 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 |
|---|---|---|---|---|---|---|
| **CLEAN CABLE / CLEAN CABLE EMV Construction Schedule (−40…+90 °C)** 3 sizes | | | | | | |
| ☐ **CLEAN CABLE 4G16 mm²** | 4G16 mm² (3×16 + 1G16) | IEC 60228 Class 5 flexible Cu/SnCu | 21.8 | 840 | 2.4 | 130 |
| ☐ **CLEAN CABLE 4G35 mm²** | 4G35 mm² (3×35 + 1G16) | IEC 60228 Class 5 flexible Cu/SnCu | 28.6 | 1,620 | 5.2 | 172 |
| ☐ **CLEAN CABLE 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 CEI EN 60228 / ACS, KTW/W270, WRAS & DM 174 Potable Rubber.

## 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) | −40…+90 °C |
| 4G35 mm² (3×35 + 1G16) | 0.55 | 0.6/1 kV (152 A submerged) | −40…+90 °C |
| 3 × 70 mm² + 3G16 mm² | 0.27 | 0.6/1 kV (235 A submerged) | −40…+90 °C |

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

## Standards and approvals

- ACS / KTW / WRAS / DM174 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/clean-cable-clean-cable-emv**

Typical values for this cable type, based on CEI EN 60228 / ACS, KTW/W270, WRAS & DM 174 Potable Rubber. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.