2,000 m halogen-free & 500 m EMC screened VFD submersible cable

S1BZ-F & VSCCB

S1BZ-F (2,000m HF) & VSCCB (500m EMC Screened) 0.6/1 kV Pump Cable

VDE 0282 / EMC VFD · 0.6/1 kV · 2,000 m halogen-free & 500 m emc screened vfd



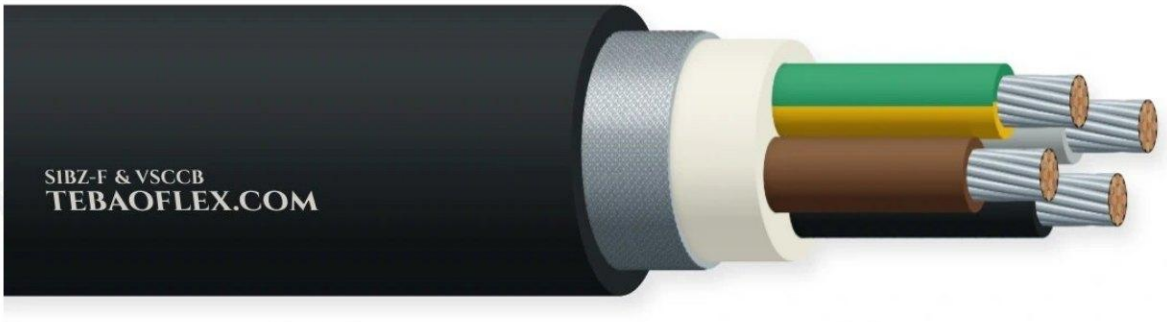
0.6/1 kV (3.0 kV Test) | **2,000 m HF / 500 m EMC** | **Anti-Bubble Inner Sheath**

Application

S1BZ-F 0.6/1 kV (0.6/1 kV 2,000m HEPR/EPDM/EVA Halogen-Free Oil-Resistant Pump Cable) & VSCCB 0.6/1 kV (EMC Screened 500m Screened EPR VFD Wastewater Cable) (VDE 0282 / EMC VFD, 0.6/1 kV, -25 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 Copper Conductors (Up to 240 mm²)
2. 0.6/1 kV HEPR / EPR Core Insulation
3. Waterproof Anti-Bubble Inner Sheath
4. Tinned Copper Braid & Oil-Resistant Sheath

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (DIN VDE 0282 / IEC 60811-404 2,000m HF & EMC Pump Cable)	**Core / conductor construction**	Class 5 Copper Conductors (Up to 240 mm²) — Finely stranded plain copper (S1BZ-F) or tinned copper ≤6 mm² (VSCCB EMC Screened)
Primary dielectric / buffering	0.6/1 kV HEPR / EPR Core Insulation — Reduced-wall HEPR (S1BZ-F 0.6/1 kV) or EPR (VSCCB EMC Screened) rated +90 °C	**Continuous operating temperature**	−25…+90 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per DIN VDE 0282 / IEC 60811-404 2,000m HF & EMC Pump Cable	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Tinned Copper Braid & Oil-Resistant Sheath — Tinned Cu braid (VSCCB) + halogen-free oil-resistant EVA (2,000 m) or EPR (500 m) jacket	**Minimum bending radius**	6 × OD
Hydrostatic, tensile & crush duty	Waterproof Anti-Bubble Inner Sheath — Special EPDM / EPR inner sheath preventing osmotic water-bubble formation under pressure	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per DIN VDE 0282 / IEC 60811-404 2,000m HF & EMC Pump Cable
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per DIN VDE 0282 / IEC 60811-404 2,000m HF & EMC Pump Cable	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0282 / IEC 60811-404 2,000m HF & EMC Pump Cable		

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
S1BZ-F & VSCCB Construction Schedule (−25…+90 °C) 3 sizes						
☐ **S1BZ-F 4G16 mm²**	**4G16 mm² (3×16 + 1G16)**	**IEC 60228 Class 5 flexible Cu/SnCu**	**21.8**	**840**	**2.4**	**130**
☐ **S1BZ-F 4G35 mm²**	**4G35 mm² (3×35 + 1G16)**	**IEC 60228 Class 5 flexible Cu/SnCu**	**28.6**	**1,620**	**5.2**	**172**
☐ **S1BZ-F 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 60811-404 2,000m HF & EMC Pump Cable.

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…+90 °C**
4G35 mm² (3×35 + 1G16)	**0.55**	**0.6/1 kV (152 A submerged)**	**−25…+90 °C**
3 × 70 mm² + 3G16 mm²	**0.27**	**0.6/1 kV (235 A submerged)**	**−25…+90 °C**

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

Standards and approvals

- VDE 0282 / EMC VFD 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/s1bz-f-vsccb

Typical values for this cable type, based on DIN VDE 0282 / IEC 60811-404 2,000m HF & EMC Pump Cable. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.