shipboard & offshore power cable

EBS1S / EBU1S & WB/WA 0.6/1 KV (BS 6883 UKOOA)

EBS1S / EBU1S & WB/WA Series 0.6/1 kV BS 6883 UKOOA Offshore Power & C



BS 6883 / UKOOA · 0.6/1 kV · Shipboard & offshore power cable

BS 6883 / UKOOA | **0.6/1 kV (-40 to +90 °C)** | **Type SW4 Outer Sheath (1S - 0.6/1 kV**

Application

EBS1S / EBU1S & WB/WA/WE Series 0.6/1 kV (BS 6883 / UKOOA Code) GP4 EPR-Insulated GSWB/TPBWB-Armoured & Unarmoured Type SW4 LSZH Offshore Power & Control Cable (BS 6883 / UKOOA, 0.6/1 kV, -40 to +90 °C, min. bend radius 6 × OD).

Typical uses: Commercial Vessels & Cruise Ships, Offshore Oil & Gas Platforms (FPSO), Jack-Up & Semi-Submersible Drilling Rigs, Naval Surface Vessels & Submarines

Construction





Cross-section, not to scale

1. Tinned Copper Conductors (4G35 mm²)
2. BS 7655 GP4 EPR Insulation (E)
3. Type SW4 Elastomeric Inner Bedding (B)
4. Galvanized Steel Wire Braid (S - GSWB)
5. Type SW4 Outer Sheath (1S - 0.6/1 kV)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (BS 6883:1999 & UKOOA Code EBS1S / EBU1S (WB/WA/WE Series))
Primary dielectric / buffering	BS 7655 GP4 EPR Insulation (E) — 90 °C high-grade ethylene-propylene rubber core insulation
Short-circuit / peak thermal rating	Verified thermal stability per BS 6883:1999 & UKOOA Code EBS1S / EBU1S (WB/WA/WE Series)
Outer protection / armouring	Type SW4 Outer Sheath (1S - 0.6/1 kV) — Black BS 7655 SW4 flame-retardant oil-resistant offshore jacket
Armour, screen & mechanical duty	Galvanized Steel Wire Braid (S - GSWB) — High-tensile galvanized steel wire braid mechanical armour
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per BS 6883:1999 & UKOOA Code EBS1S / EBU1S (WB/WA/WE Series)
Standards	BS 6883:1999 & UKOOA Code EBS1S / EBU1S (WB/WA/WE Series)
Core / conductor construction	Tinned Copper Conductors (4G35 mm²) — BS EN 60228 Class 2 / Class 5 tinned annealed copper conductors
Continuous operating temperature	−40…+90 °C (shipboard & offshore duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	6 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per BS 6883:1999 & UKOOA Code EBS1S / EBU1S (WB/WA/WE Series)
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant

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
EBS1S / EBU1S & WB/WA 0.6/1 KV (BS 6883 UKOOA) Construction Schedule (−40…+90 °C) 3 sizes						
☐ EBS1S 3×16+1G16 mm²	3 × 16 + 1G16 mm² (4G16)	IEC 60228 Class 2/5 Cu/SnCu	22.4	920	3.8	135
☐ EBS1S 3×35+1G16 mm²	3 × 35 + 1G16 mm² (4G35)	IEC 60228 Class 2/5 Cu/SnCu	28.8	1,690	7.4	175
☐ EBS1S 3×70+1G35 mm²	3 × 70 + 1G35 mm² (4G70)	IEC 60228 Class 2/5 Cu/SnCu	38.2	3,260	14.8	230

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per BS 6883:1999 & UKOOA Code EBS1S / EBU1S (WB/WA/WE Series).

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 16 + 1G16 mm² (4G16)	1.15	0.6/1 kV (98 A)	−40…+90 °C
3 × 35 + 1G16 mm² (4G35)	0.52	0.6/1 kV (158 A)	−40…+90 °C
3 × 70 + 1G35 mm² (4G70)	0.27	0.6/1 kV (245 A)	−40…+90 °C

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

Standards and approvals

- BS 6883 / UKOOA 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/ebs1s-ebu1s-wb-wa-0-6-1-kv-bs-6883-ukooa

Typical values for this cable type, based on BS 6883:1999 & UKOOA Code EBS1S / EBU1S (WB/WA/WE Series). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.