shipboard & offshore power cable

EBS2S & MBS2S 3.8/6.6-19/33 KV (BS 6883/7917 UKOOA)

EBS2S & MBS2S 3.8/6.6–19/33 kV BS 6883/7917 UKOOA Offshore Medium-Volt

BS 6883 / BS 7917 · 3.8/6.6 kV – 19/33 kV · Shipboard & offshore power cable



BS 6883 / BS 7917 | **3.8/6.6 kV – 19/33 kV (-40 to +90 °C** | **Red Type SW4 MV Outer Jacket (2S)**

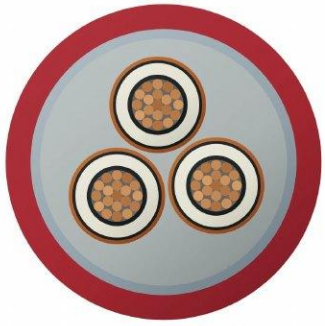
Application

EBS2S & MBS2S 3.8/6.6–19/33 kV BS 6883/7917 UKOOA Offshore Medium-Voltage Power Cable (BS 6883 / BS 7917) engineered for 3.8/6.6 kV – 19/33 kV service across -40 to +90 °C (min. bend radius 12 × 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 (3×120 mm²)
2. Triple-Extruded GP5 HF-EPR MV Insulation
3. Copper Tape Phase Metallic Screen
4. Type SW4 Bedding & GSWB Armour (BS)
5. Red Type SW4 MV Outer Jacket (2S)

Technical data

Typical values

Rated voltage / transmission duty	3.8/6.6 kV – 19/33 kV (BS 6883 & BS 7917 / UKOOA Code EBS2S & MBS2S (1.9/3.3 kV to 19/33 kV))	**Core / conductor construction**	Tinned Copper Conductors (3×120 mm²) — BS EN 60228 Class 2 compacted tinned copper conductors
Primary dielectric / buffering	Triple-Extruded GP5 HF-EPR MV Insulation — Semi-con conductor screen + GP5 HF-EPR dielectric + insulation screen	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per BS 6883 & BS 7917 / UKOOA Code EBS2S & MBS2S (1.9/3.3 kV to 19/33 kV)	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Red Type SW4 MV Outer Jacket (2S) — BS 6883 / BS 7917 red medium-voltage oil-resistant offshore sheath	**Minimum bending radius**	12 × OD
Armour, screen & mechanical duty	Type SW4 Bedding & GSWB Armour (BS) — SW4 halogen-free inner sheath + galvanized steel wire braid armour	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per BS 6883 & BS 7917 / UKOOA Code EBS2S & MBS2S (1.9/3.3 kV to 19/33 kV)
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per BS 6883 & BS 7917 / UKOOA Code EBS2S & MBS2S (1.9/3.3 kV to 19/33 kV)	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	BS 6883 & BS 7917 / UKOOA Code EBS2S & MBS2S (1.9/3.3 kV to 19/33 kV)		

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
EBS2S & MBS2S 3.8/6.6-19/33 KV (BS 6883/7917 UKOOA) Construction Schedule (−40…+90 °C) 3 sizes						
☐ **EBS2S 3×50 mm² MV**	**3 × 50 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**42.5**	**2,980**	**22.5**	**510**
☐ **EBS2S 3×95 mm² MV**	**3 × 95 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**51.8**	**4,690**	**42.8**	**620**
☐ **EBS2S 3×150 mm² MV**	**3 × 150 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**61.2**	**6,840**	**67.5**	**735**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per BS 6883 & BS 7917 / UKOOA Code EBS2S & MBS2S (1.9/3.3 kV to 19/33 kV).

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 50 mm²	**0.39**	**3.8/6.6 kV – 19/33 kV (195 A)**	**−40…+90 °C**
3 × 95 mm²	**0.19**	**3.8/6.6 kV – 19/33 kV (285 A)**	**−40…+90 °C**
3 × 150 mm²	**0.12**	**3.8/6.6 kV – 19/33 kV (365 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 / BS 7917 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/ebs2s-mbs2s-3-8-6-6-19-33-kv-bs-6883-7917-ukooa

Typical values for this cable type, based on BS 6883 & BS 7917 / UKOOA Code EBS2S & MBS2S (1.9/3.3 kV to 19/33 kV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.