fire-resistant shipboard & offshore cable

MBS1S / MBU1S & YD 0.6/1 KV (BS 7917 UKOOA)

MBS1S / MBU1S & YD Series 0.6/1 kV BS 7917 UKOOA Fire-Resistant Offsho

BS 7917 / BS 6387 CWZ · 0.6/1 kV · Fire-resistant shipboard & offshore cable



BS 7917 / BS 6387 CWZ | **0.6/1 kV (-40 to +90 °C)** | **Orange Type SW4 Fire-Safe Jacket (1S**

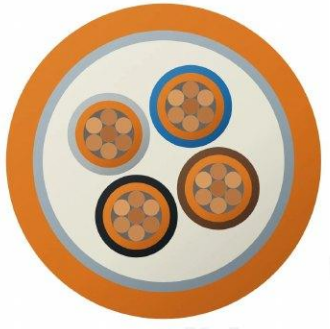
Application

MBS1S / MBU1S & YD Series 0.6/1 kV (BS 7917 / UKOOA Code) Mica-Glass-Tape & GP4 EPR-Insulated GSWB-Armoured Type SW4 LSZH Fire-Resistant (IEC 60331) Offshore Power & Control Cable (BS 7917 / BS 6387 CWZ, 0.6/1 kV, -40 to +90 °C).

Typical uses: Offshore Emergency Shutdown (ESD) & Deluge, Passenger Cruise & Ferry Safe-Return-to-Port, Shipboard Fire Alarm, PA/GA & Emergency Lighting, FPSO & Petrochemical Hydrocarbon Fire Zones

Construction





Cross-section, not to scale

1. Tinned Copper Conductors (4×16 mm²)
2. Mica Tape + GP4 EPR Insulation (M)
3. Type SW4 Inner Sheath (B)
4. Galvanized Steel Wire Braid (S - GSWB)
5. Orange Type SW4 Fire-Safe Jacket (1S)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (BS 7917:1999 & BS 6387 Cat. C, W, Z / UKOOA Code MBS1S & MBU1S)
Primary dielectric / buffering	Mica Tape + GP4 EPR Insulation (M) — Mica fire barrier + EPR rated for 950 °C / 3h circuit integrity (BS 6387 CWZ)
Short-circuit / peak thermal rating	Verified thermal stability per BS 7917:1999 & BS 6387 Cat. C, W, Z / UKOOA Code MBS1S & MBU1S
Outer protection / armouring	Orange Type SW4 Fire-Safe Jacket (1S) — Orange BS 7917 SW4 outer sheath for offshore emergency power
Armour, screen & mechanical duty	Galvanized Steel Wire Braid (S - GSWB) — High-coverage galvanized steel wire braid mechanical armour
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per BS 7917:1999 & BS 6387 Cat. C, W, Z / UKOOA Code MBS1S & MBU1S
Standards	BS 7917:1999 & BS 6387 Cat. C, W, Z / UKOOA Code MBS1S & MBU1S
Core / conductor construction	Tinned Copper Conductors (4×16 mm²) — BS EN 60228 Class 2 tinned annealed stranded 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	8 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per BS 7917:1999 & BS 6387 Cat. C, W, Z / UKOOA Code MBS1S & MBU1S
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
MBS1S / MBU1S & YD 0.6/1 KV (BS 7917 UKOOA) Construction Schedule (−40…+90 °C) 3 sizes						
☐ **MBS1S 3×16+1G16 mm²**	**3 × 16 + 1G16 mm² (4G16)**	**IEC 60228 Class 2/5 Cu/SnCu**	**22.4**	**920**	**3.8**	**135**
☐ **MBS1S 3×35+1G16 mm²**	**3 × 35 + 1G16 mm² (4G35)**	**IEC 60228 Class 2/5 Cu/SnCu**	**28.8**	**1,690**	**7.4**	**175**
☐ **MBS1S 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 7917:1999 & BS 6387 Cat. C, W, Z / UKOOA Code MBS1S & MBU1S.

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 7917 / BS 6387 CWZ 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/mbs1s-mbu1s-yd-0-6-1-kv-bs-7917-ukooa

Typical values for this cable type, based on BS 7917:1999 & BS 6387 Cat. C, W, Z / UKOOA Code MBS1S & MBU1S. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.