marine & offshore instrumentation cable

CMS1S / CMT1S / CMU1S 250 V (BS 7917 UKOOA)

CMS1S / CMT1S / CMU1S 250 V BS 7917 UKOOA Fire-Resistant Offshore Inst

BS 7917 / UKOOA · 150/250 V · Marine & offshore instrumentation cable



BS 7917 / UKOOA | **150/250 V (-40 to +90 °C)** | **Orange Type SW4 Fire-Safe Jacket**

Application

CMS1S / CMT1S / CMU1S 250 V BS 7917 UKOOA Fire-Resistant Offshore Instrumentation Cable (BS 7917 / UKOOA) engineered for 150/250 V service across -40 to +90 °C (min. bend radius 8 × OD).

Typical uses: Offshore DCS, ESD & Fire-Gas Systems, Shipboard Bridge & Engine Room Automation, Drilling Rig Instrumentation & Mud Logging, Naval Radar, Sonar & Combat Switchboards

Construction





Cross-section, not to scale

1. Mica + GP4 EPR Triads (3×3×1.0 mm²)
2. Individual & Collective Foil Screen (MT)
3. Type SW4 Inner Sheath & GSWB Armour
4. Orange Type SW4 Fire-Safe Jacket

Technical data

Typical values

Rated voltage / transmission duty	150/250 V (BS 7917:1999 & UKOOA Code CMS1S / CMT1S / CMU1S (GL/GM Series))	**Core / conductor construction**	Mica + GP4 EPR Triads (3×3×1.0 mm²) — Tinned copper conductors with mica fire tape and Black, White, Red EPR
Primary dielectric / buffering	Individual & Collective Foil Screen (MT) — Al/PET foil tape + tinned copper drain wire on each triad and overall	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per BS 7917:1999 & UKOOA Code CMS1S / CMT1S / CMU1S (GL/GM Series)	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Orange Type SW4 Fire-Safe Jacket — BS 7917 950 °C / 3h fire-resistant offshore instrumentation sheath	**Minimum bending radius**	8 × OD
Armour, screen & mechanical duty	Type SW4 Inner Sheath & GSWB Armour — Halogen-free SW4 bedding + galvanized steel wire braid armour	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per BS 7917:1999 & UKOOA Code CMS1S / CMT1S / CMU1S (GL/GM Series)
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per BS 7917:1999 & UKOOA Code CMS1S / CMT1S / CMU1S (GL/GM Series)	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	BS 7917:1999 & UKOOA Code CMS1S / CMT1S / CMU1S (GL/GM Series)		

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
CMS1S / CMT1S / CMU1S 250 V (BS 7917 UKOOA) Construction Schedule (−40…+90 °C) 3 sizes						
☐ **CMS1S 2×2×0.75 mm²**	2 × 2 × 0.75 mm² (2Pr)	Stranded Cu/SnCu (IEC 60228 Class 2/5)	11.4	195	1.2	70
☐ **CMS1S 4×2×1.0 mm²**	4 × 2 × 1.0 mm² (4Pr)	Stranded Cu/SnCu (IEC 60228 Class 2/5)	15.6	365	2.4	95
☐ **CMS1S 8×2×1.5 mm²**	8 × 2 × 1.5 mm² (8Pr)	Stranded Cu/SnCu (IEC 60228 Class 2/5)	22.8	760	4.8	140

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per BS 7917:1999 & UKOOA Code CMS1S / CMT1S / CMU1S (GL/GM Series).

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
2 × 2 × 0.75 mm² (2Pr)	26.00	150/250 V (≤60 nF/km)	−40…+90 °C
4 × 2 × 1.0 mm² (4Pr)	19.50	150/250 V (≤65 nF/km)	−40…+90 °C
8 × 2 × 1.5 mm² (8Pr)	13.30	150/250 V (≤75 nF/km)	−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 / 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/cms1s-cmt1s-cmu1s-250-v-bs-7917-ukooa

Typical values for this cable type, based on BS 7917:1999 & UKOOA Code CMS1S / CMT1S / CMU1S (GL/GM Series). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.