marine & offshore instrumentation cable

CFS1S / CFT1S / CFU1S 250 V (BS 6883 UKOOA)

CFS1S / CFT1S / CFU1S 250 V BS 6883 UKOOA Offshore Screened Instrument



BS 6883 / UKOOA · 150/250 V · Marine & offshore instrumentation cable

BS 6883 / UKOOA | 150/250 V (-40 to +90 °C) | Grey Type SW4 Outer Jacket (1S)

Application

CFS1S / CFT1S / CFU1S & KG/KJ/KH/KK Series 150/250 V (BS 6883 / UKOOA Code) GP4 EPR-Insulated Collectively/Individually Screened GSWB-Armoured Type SW4 LSZH Offshore Instrumentation Cable (BS 6883 / UKOOA, 150/250 V, -40 to +90 °C).

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. Tinned Copper EPR Pairs (5×2×1.5 mm²)
2. Individual & Collective Foil Screen (F/F
3. Type SW4 Elastomeric Inner Sheath
4. Galvanized Steel Wire Braid (S - GSWB)
5. Grey Type SW4 Outer Jacket (1S)

Technical data

Typical values

Rated voltage / transmission duty	150/250 V (BS 6883:1999 & UKOOA Code CFS1S / CFT1S / CFU1S (KG/KH Series))
Primary dielectric / buffering	Individual & Collective Foil Screen (F/FT) — Al/PET tape + tinned copper drain wire per pair (CFT1S) and overall (CFS1S)
Short-circuit / peak thermal rating	Verified thermal stability per BS 6883:1999 & UKOOA Code CFS1S / CFT1S / CFU1S (KG/KH Series)
Outer protection / armouring	Grey Type SW4 Outer Jacket (1S) — BS 7655 SW4 offshore instrumentation sheath (Grey standard / Blue Ex-i)
Armour, screen & mechanical duty	Galvanized Steel Wire Braid (S - GSWB) — High-tensile galvanized steel wire braid armour
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per BS 6883:1999 & UKOOA Code CFS1S / CFT1S / CFU1S (KG/KH Series)
Standards	BS 6883:1999 & UKOOA Code CFS1S / CFT1S / CFU1S (KG/KH Series)
Core / conductor construction	Tinned Copper EPR Pairs (5×2×1.5 mm²) — BS EN 60228 Class 2/5 tinned copper with GP4 EPR insulation
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 6883:1999 & UKOOA Code CFS1S / CFT1S / CFU1S (KG/KH 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
CFS1S / CFT1S / CFU1S 250 V (BS 6883 UKOOA) Construction Schedule (−40…+90 °C) 3 sizes						
☐ CFS1S 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
☐ CFS1S 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
☐ CFS1S 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 6883:1999 & UKOOA Code CFS1S / CFT1S / CFU1S (KG/KH 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 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/cfs1s-cft1s-cfu1s-250-v-bs-6883-ukooa

Typical values for this cable type, based on BS 6883:1999 & UKOOA Code CFS1S / CFT1S / CFU1S (KG/KH Series). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.