



instrumentation cable series

BS 6883 AIS / ACS

Armoured Offshore Instrumentation Cable

UKOOA Type 4 EPR-insulated wire-braid armoured offshore instrumentation cable



BS 6883 / UKOOA

150/250 V & 0.6/1 kV

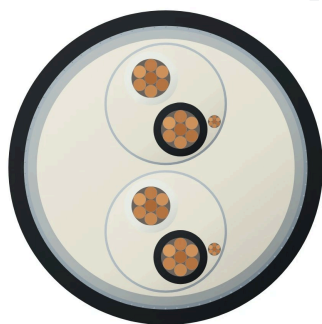
GSWB / PBWB Armoured

Application

BS 6883 AIS (Armoured Individually Screened) and ACS (Armoured Collectively Screened) 150/250 V & 600/1000 V offshore instrumentation cable with Class 2/5 tinned copper cores, GP4 EPR insulation, galvanized steel or phosphor-bronze.

Typical uses: Offshore Fixed Platforms & Topsides, FPSO, FSO & FLNG Vessels, Jack-Up & Semi-Submersible Rigs, Subsea Umbilical Termination Skids, Petrochemical & LNG Marine Terminals

Construction



Cross-section, not to scale

- | | | |
|---|--|---|
| 1 | Tinned annealed copper conductors | |
| 2 | GP4 / GP5 EPR thermoset insulation | 90 °C continuous service |
| 3 | Collective (ACS) or Individual + Collective (AIS) screen | |
| 4 | SW4 bedding + Galvanized Steel Wire Braid (GSWB) | |
| 5 | SW4 Heavy-Duty LSZH Offshore Outer Sheath | Low smoke, HCl < 0.5 %, oil & mud resistant |

Technical data

Typical values

Rated voltage (Uo/U)	150/250 V (instrumentation) · 600/1000 V (control/power)	Max. DC resistance @ 20 °C	24.8 Ω/km (0.75) · 18.2 Ω/km (1.0) · 12.2 Ω/km (1.5) · 7.56 Ω/km (2.5)
Mutual capacitance	≤ 115 pF/m (ACS) · ≤ 145 pF/m (AIS)	L/R ratio (inductance/resistance)	≤ 25 μH/Ω (0.75–1.0 mm ²) · ≤ 40 μH/Ω (1.5 mm ²)
Operating temperature	-40 °C to +90 °C (fixed installation)	Short-circuit temperature	+250 °C (max. 5 s)
Minimum installation temp.	-20 °C	Min. bend radius	6 × OD (up to 25 mm OD) · 8 × OD (> 25 mm OD)
Braid wire tensile strength	1,250–1,400 N/mm ² galvanized steel wire	Crush & impact resistance	Heavy-duty UKOOA Type 4 wire braid armour
Bunched flame propagation	BS EN 60332-3-22 Category A	Halogen acid gas & smoke	BS EN 60754-1 (< 0.5 % HCl) & BS EN 61034-2 (≥ 60 %)
Oil & fluid immersion	BS 7655-2.6 Type SW4 IRM 902/903 oil & fuel resistant	Standards	BS 6883 & UKOOA Cable Code

Sizes

8 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	UKOOA code & pairs	Outer Ø ≈ mm	Weight ≈ kg/km	Max. DC R Ω/km	Min. bend R mm
BS 6883 ACS — Collectively Screened + GSWB 4 sizes					
☐ BS 6883 ACS 1P×0.75	YJJ01 · 1 Pair 0.75 mm ²	10.4	175	24.8	62
☐ BS 6883 ACS 2P×0.75	YJJ02 · 2 Pair 0.75 mm ²	13.5	270	24.8	81
☐ BS 6883 ACS 5P×1.0	YJK05 · 5 Pair 1.0 mm ²	18.2	520	18.2	109
☐ BS 6883 ACS 10P×1.5	YJL10 · 10 Pair 1.5 mm ²	24.8	980	12.2	149
BS 6883 AIS — Individually & Collectively Screened + GSWB 4 sizes					
☐ BS 6883 AIS 2P×0.75	YJP02 · 2 Pair 0.75 mm ²	14.2	305	24.8	85
☐ BS 6883 AIS 5P×1.0	YJQ05 · 5 Pair 1.0 mm ²	19.4	590	18.2	116
☐ BS 6883 AIS 10P×1.0	YJQ10 · 10 Pair 1.0 mm ²	24.6	940	18.2	148
☐ BS 6883 AIS 20P×1.5	YJR20 · 20 Pair 1.5 mm ²	33.8	1,840	12.2	270

– Also available in 1, 3, 7 and 12 triad formations and 600/1000 V rated thickness.

Standards and approvals

- ✓ BS 6883 & UKOOA Compliant
- ✓ IEC 60332-3-22 Cat A & IEC 60754
- ✓ RoHS 2 & REACH Compliant

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/bs-6883-armoured-individually-or-collectively-screened-offshore-instrumentation-cable



Typical values for this cable type, based on BS 6883 / UKOOA / IEC 60092-376. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.