

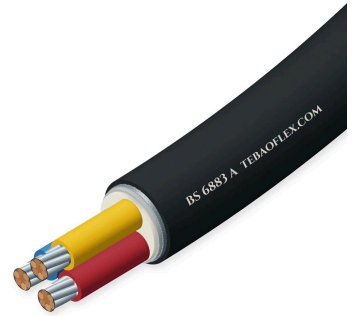


IEEE 1580 LSX & BS 6883 Offshore / Shipboard Power Cables

BS 6883 A

Armoured Offshore Power Cable

BS 6883 / UKOOA 0.6/1 kV GSWB / PBWB wire-braid armoured GP4 EPR / SW4 offshore power



BS 6883 / UKOOA Type A

0.6/1 kV · GSWB / PBWB Braid

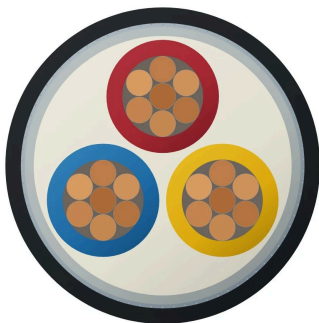
GP4 EPR + SW4 LSZH · Cat A Flame

Application

BS 6883 A Armoured Offshore Power Cable is the UKOOA and BS 6883 0.6/1 kV fixed offshore platform power and control cable constructed with Class 2 or Class 5 tinned annealed copper conductors, 90 °C Type GP4 EPR insulation, halogen-free elastomeric inner

Typical uses: Offshore oil & gas topside decks, Zone 1 / Zone 2 Ex d & Ex e equipment, FPSO turret, process & utility modules, Offshore wind HVDC/HVAC converter platforms

Construction



Cross-section, not to scale

1	Tinned annealed copper conductor	BS 6883 / BS EN 60228
2	Type GP4 EPR rubber insulation (90 °C)	BS 6883
3	Elastomeric inner bedding	BS 6883 Clause 9
4	Wire braid armour (GSWB / PBWB / TCWB)	BS 6883 Clause 10
5	Type SW4 outer sheath (LSZH)	BS 6883 / BS 7655-2.6

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV AC (600/1000 V)	AC dielectric test voltage	3,500 V AC for 5 minutes
Max. conductor operating temp.	+90 °C continuous · +250 °C short-circuit	Armour earth-fault capability	High-coverage GSWB / PBWB / TCWB per BS 6883
Operating temperature range	-40 °C to +90 °C fixed installation	Minimum installation temp.	-20 °C
Min. bending radius	6 × overall diameter (D) per BS 6883	Armour wire diameter	0.30 mm or 0.45 mm galvanized steel
Bunched vertical flame test	BS EN 60332-3-22 Category A & BS EN 60332-1-2	Zero halogen, low smoke & oil	BS EN 60754-1 (< 0.5 % HCl) · BS EN 61034-2
Standards	BS 6883 Type A · BS 7655-1.2 (GP4) · BS		

Sizes

6 standard constructions

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

Order designation	Cores × Size	Main cross-section	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard BS 6883 A configurations 6 sizes						
☐ BS 6883 Type A 3C × 2.5 mm² GSWB (UKOOA YD002)	3 × 2.5 mm²	2.5 mm²	14.3	72	335	86
☐ BS 6883 Type A 4C × 6.0 mm² GSWB (UKOOA YE004)	4 × 6.0 mm²	6.0 mm²	19.2	230	640	115
☐ BS 6883 Type A 4C × 16 mm² GSWB (UKOOA YE006)	4 × 16 mm²	16.0 mm²	25.0	614	1,240	150
☐ BS 6883 Type A 4C × 35 mm² GSWB (UKOOA YE008)	4 × 35 mm²	35.0 mm²	31.8	1,344	2,180	191
☐ BS 6883 Type A 3C × 95 mm² GSWB (UKOOA YD011)	3 × 95 mm²	95.0 mm²	42.6	2,736	4,120	256
☐ BS 6883 Type A 1C × 240 mm² PBWB (UKOOA YA014)	1 × 240 mm² (PBWB)	240.0 mm²	32.0	2,580	3,190	192

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per BS 6883 / UKOOA (Type A Wire-Braid Armoured 0.6/1 kV GP4 / SW4).

Electrical & ampacity

6 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Iz free air A	Iz tray / duct A	Isc (1 s) kA	Voltage drop mV/A/m	Dielectric test V
3 × 2.5 mm²	7.56	29	26	0.36	16.50	3,500
4 × 6.0 mm²	3.11	49	44	0.86	6.80	3,500
4 × 16 mm²	1.16	92	83	2.29	2.50	3,500
4 × 35 mm²	0.53	152	137	5.01	1.15	3,500
3 × 95 mm²	0.20	280	252	13.59	0.43	3,500
1 × 240 mm² (PBWB)	0.08	615	550	34.32	0.20	3,500

– Conductor DC resistance at +20 °C per IEC 60228 and reference current ratings at 30 °C ambient per BS 6883 / UKOOA (Type A Wire-Braid Armoured 0.6/1 kV GP4 / SW4).

Standards and approvals

- ✓ BS 6883 Type A
- ✓ UKOOA Code Compliant
- ✓ DNV / LR / ABS

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-offshore-power-cable



Typical values for this cable type, based on BS 6883 / UKOOA (Type A Wire-Braid Armoured 0.6/1 kV GP4 / SW4). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.