

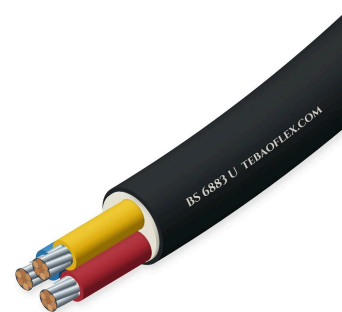


IEEE 1580 LSX & BS 6883 Offshore / Shipboard Power Cables

BS 6883 U

Unarmoured Offshore Power Cable

BS 6883 / UKOOA 0.6/1 kV Class 2/5 tinned Cu GP4 EPR / SW4 unarmoured offshore power cable



BS 6883 / UKOOA Type U

0.6/1 kV · GP4 EPR + SW4 LSZH

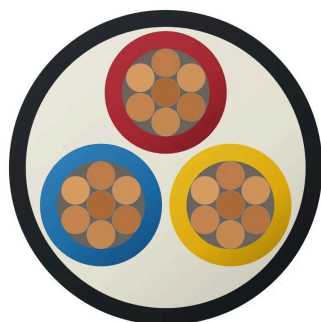
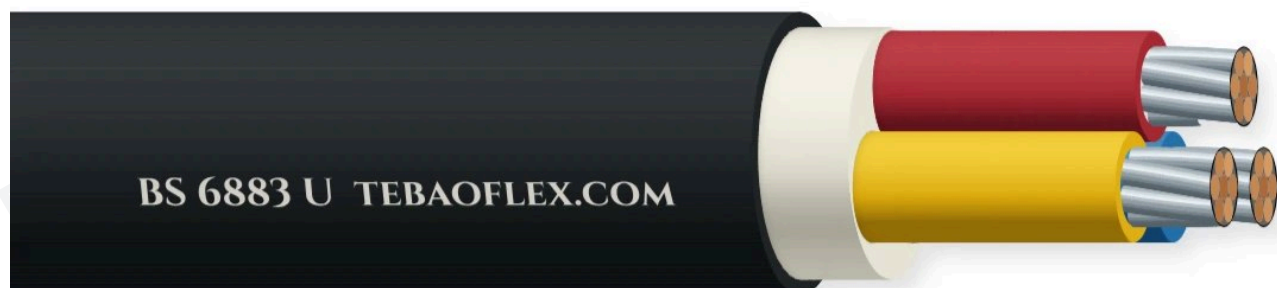
1C to 37C · Tinned Cu

Application

BS 6883 U Unarmoured Offshore Power Cable is manufactured to BS 6883 and UKOOA standards for 0.6/1 kV fixed installation on offshore oil and gas platforms, FPSOs, and marine vessels, featuring Class 2 or Class 5 tinned annealed copper conductors (1C to

Typical uses: Fixed offshore oil & gas platforms, FPSO & FLNG processing vessels, Offshore wind substation topsides, Marine LV switchgear & battery rooms

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 / BS 7655-1.2
3	Halogen-free binder / filler	BS 6883
4	Type SW4 elastomeric outer sheath	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	Insulation resistance constant Ki	≥ 3.67 MΩ·km at +90 °C per BS 6883
Operating temperature range	-40 °C to +90 °C (fixed installation)	Minimum installation temp.	-20 °C
Min. bending radius	4 × D (D ≤ 10 mm) · 6 × D (D > 10 mm) per	Tear & abrasion resistance	Cross-linked thermoset Type SW4 elastomer
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 · BS 7655-1.2 (GP4) · BS 7655-2.6		

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 U configurations 6 sizes						
☐ BS 6883 Type U 3C × 2.5 mm² GP4/SW4	3 × 2.5 mm²	2.5 mm²	10.6	72	165	64
☐ BS 6883 Type U 4C × 6.0 mm² GP4/SW4	4 × 6.0 mm²	6.0 mm²	15.1	230	395	91
☐ BS 6883 Type U 4C × 16 mm² GP4/SW4	4 × 16 mm²	16.0 mm²	20.6	614	875	124
☐ BS 6883 Type U 1C × 70 mm² GP4/SW4	1 × 70 mm²	70.0 mm²	16.2	672	810	97
☐ BS 6883 Type U 1C × 185 mm² GP4/SW4	1 × 185 mm²	185.0 mm²	24.4	1,776	2,040	146
☐ BS 6883 Type U 1C × 300 mm² GP4/SW4	1 × 300 mm²	300.0 mm²	30.2	2,880	3,240	181

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per BS 6883 / UKOOA (Type U Unarmoured 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	30	27	0.36	16.50	3,500
4 × 6.0 mm²	3.11	50	45	0.86	6.80	3,500
4 × 16 mm²	1.16	94	84	2.29	2.50	3,500
1 × 70 mm²	0.27	285	255	10.01	0.54	3,500
1 × 185 mm²	0.10	530	475	26.46	0.24	3,500
1 × 300 mm²	0.06	735	660	42.90	0.18	3,500

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

Standards and approvals

- ✓ BS 6883 Type U
- ✓ 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-unarmoured-offshore-power-cable



Typical values for this cable type, based on BS 6883 / UKOOA (Type U Unarmoured 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.