

600 / 1000v  
Fire Resistant

## Offshore Power Cables to BS6883 Specification

### Applicable Standards:

BS 6883 / BS7917 / IEC 60092-359

BS7655

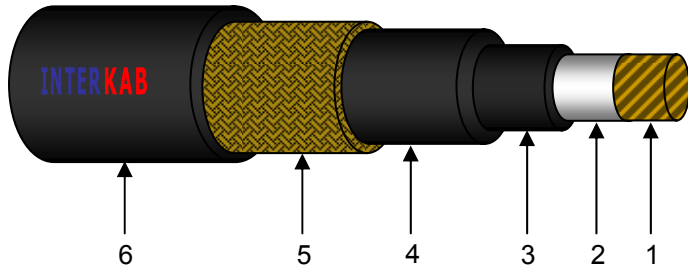
BS EN 12166

IEC 60331 part 3 (Category A, B & C)

IEC-60228

Stranded class 2 or flexible class 5 tinned annealed copper conductors to BS6360

Single Core Armoured Cable



<p><b>Application:</b></p>	<p>This range of cables are designed for use in fixed wiring in ships, and in mobile and fixed offshore units. These cables are particularly designed for use in areas regularly occupied by people, such as accommodation facilities, control rooms and computer suites, which assists in reducing smoke and noxious fumes, and where vital, sensitive equipment may be damaged by acid forming gas.</p>
<p><b>(1) Conductor:</b></p> <p><b>(2) Fire Protection:</b></p> <p><b>(3) Insulation:</b></p> <p><b>(4) Bedding:</b></p> <p><b>(5) Armour:</b></p> <p><b>(6) Outer Sheath:</b></p>	<p>Tinned Stranded Copper Conductor to BS6360</p> <p>Mica Glass Tape</p> <p>EPR Complying with BS7655 GP4</p> <p>EVA – SW4 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type YC)  <b>OR</b>                  CSP – SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type XC)</p> <p>Tinned Phosphor Bronze Wire Braid to BS2873-PB102 (now BS EN 12166)</p> <p>EVA – SW4 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type YC)  <b>OR</b>                  CSP – SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type XC)</p> <p><small>The legend will include the manufacturers name, voltage, the number of cores and cross sectional area, cable sheath class (e.g. SW4), IEC60331 and UK00A code where applicable. The standard sheath colour is black, however other colours are available on request.</small></p>
<p><b>Conductor Identification:</b></p>	<p>1 Core - Black</p>

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Cable	1x1.0	1x1.5	1x2.5	1x4	1x6	1x10	1x16	1x25	1x35	1x50
Stranding mm	7/0.44	7/0.53	7/0.67	7/0.85	7/1.0	7/1.35	7/1.70	7/2.14	19/1.53	19/1.78
Insulation Thickness mm	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.2	1.2	1.4
Thickness of Inner Sheath mm	-	-	-	-	-	-	1.1	1.1	1.1	1.1
Diameter over Inner Sheath (min/max) mm	5.1/7.1	5.4/7.4	5.8/7.8	6.8/8.8	7.3/9.3	8.3/10.3	9.5/11.5	11.9/13.9	12.8/14.8	14.6/16.6
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Thickness of Outer Sheath mm	-	-	-	-	-	-	1.2	1.2	1.3	1.4
Overall Diameter (min/max) mm	9.0/11.0	9.3/11.3	9.7/11.7	10.8/12.8	11.3/13.3	12.5/14.5	13.7/15.7	16.3/18.3	17.4/19.4	19.2/21.2
Gland Size	O	O	O	O	O	O	O	A	A	B
Weight kg/km	158	179	200	273	357	410	504	593	777	987
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85	85
Short Circuit Rating, 1second - 250°C - A	100	100	100	100	100	100	100	100	100	100
Inductance - mH/km	-	-	-	-	0.464	0.433	0.405	0.379	0.368	0.357
Capacitance - µF/km	-	-	-	-	0.522	0.379	0.447	0.464	0.514	0.522
DC Resistance @ 20°C - Ω/km	-	-	-	-	3.11	1.84	1.16	0.734	0.529	0.391
DC Resistance @ 90°C - Ω/km	-	-	-	-	3.965	2.346	1.479	0.936	0.674	0.499
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOOA Codes (EVA)	YC101	YC102	YC103	YC104	YC106	YC110	YC116	YC125	YC130	YC150
UKOOA Codes (CSP)	XC101	XC102	XC103	XC104	XC106	XC110	XC116	XC125	XC130	XC150

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Cable	1x70	1x95	1x120	1x150	1x185	1x240	1x300	1x400	1x500	1x630
Stranding mm	19/2.14	37/1.78	37/2.03	37/2.25	37/2.52	61/2.25	61/2.52	91/2.36	91/2.65	127/2.52
Insulation Thickness mm	1.4	1.6	1.6	1.8	2.0	2.2	2.4	2.6	2.8	2.8
Thickness of Inner Sheath mm	1.1	1.1	1.2	1.2	1.2	1.2	1.2	-	-	-
Diameter over Inner Sheath (min/max) mm	16.5/18.5	18.9/20.9	20.9/22.9	23.1/25.1	25.5/27.5	28.8/30.8	32.0/34.0	35.9/37.9	39.9/41.9	43.8/45.8
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.3	0.45	0.45	0.45	0.45	0.45	0.45
Thickness of Outer Sheath mm	1.4	1.5	1.6	1.6	1.7	1.8	1.9	-	-	-
Overall Diameter (min/max) mm	21.4/23.4	24.0/26.0	26.1/28.1	28.5/30.5	32.1/34.1	35.5/37.5	39.0/41.0	43.2/45.2	47.6/49.6	51.8/53.8
Gland Size	B	B	C	C	C2	C2	C2	D	D	E
Weight kg/km	1333	1575	1838	2310	2835	3570	4410	5985	7560	9282
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85	85
Short Circuit Rating, 1second - 250°C - A	100	100	100	100	100	100	100	100	100	100
Inductance - mH/km	0.341	0.330	0.321	0.318	0.319	0.310	0.306	0.301	0.296	0.289
Capacitance - µF/km	0.609	0.628	0.694	0.694	0.705	0.727	0.750	0.793	0.821	0.904
DC Resistance @ 20°C - Ω/km	0.270	0.195	0.154	0.126	0.100	0.0762	0.0607	0.0475	0.0369	0.0286
DC Resistance @ 90°C - Ω/km	0.344	0.271	0.214	0.175	0.140	0.108	0.087	0.069	0.058	0.045
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOOA Codes (EVA)	YC170	YC195	YC10A	YC10B	YC10C	YC10D	YC10E	YC10F	YC10G	YC10H
UKOOA Codes (CSP)	XC170	XC195	XC10A	XC10B	XC10C	XC10D	XC10E	XC10F	XC10G	XC10H