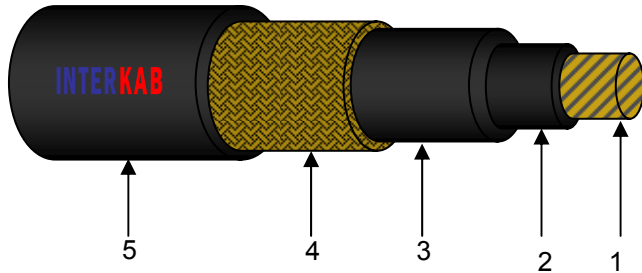


600 / 1000v
Flame Retardant

Offshore Power Cables to BS6883 Specification

Single Core Armoured Cable



Applicable Standards:
BS 6883 / IEC 60092-359
BS7655
BS EN 12166
IEC 60332 part 3 (Category A, B & C)
IEC-60228
Stranded class 2 or flexible class 5 tinned
annealed copper conductors to BS6360

Application:	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.
(1) Conductor:	Tinned Stranded Copper Conductor to BS6360
(2) Insulation::	EPR Complying with BS7655 GP4
(3) Bedding:	EVA – SW4 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type WA) OR CSP – SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type LA)
(4) Armour:	Tinned Phosphor Bronze Wire Braid to BS2873-PB102 (now BS EN 12166)
(5) Outer Sheath:	EVA – SW4 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type WA) OR CSP – SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type LA)
Conductor Identification:	1 Core - Black

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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	4.6/6.6	4.9/6.9	5.3/7.3	6.3/8.3	6.8/8.8	7.8/9.8	9.0/11.0	11.4/13.4	12.3/14.3	14.1/16.1
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	8.5/10.5	8.8/10.8	9.2/11.2	10.3/12.3	10.8/12.8	12.0/14.0	13.2/15.2	15.8/17.8	16.9/18.9	18.7/20.7
Gland Size	Os	Os	Os	O	O	O	O	A	A	B
Weight kg/km	150	170	190	260	340	390	480	565	740	940
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)	WA101	WA102	WA103	WA104	WA106	WA110	WA116	WA125	WA130	WA150
UKOOA Codes (CSP)	LA101	LA102	LA103	LA104	LA106	LA110	LA116	LA125	LA130	LA150

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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	1.0	1.2	1.4	1.6	1.8	1.3	1.5	1.7	1.2	1.0
Diameter over Inner Sheath (min/max) mm	16.0/18.0	18.4/20.4	20.4/22.4	22.6/24.6	25.0/27.0	28.3/30.3	31.5/33.5	35.4/37.4	39.4/41.4	43.3/45.3
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
Diameter over Armour/Braid mm	-	14.0	17.7	23.1	31.4	15.5	20.4	28.9	11.0	9.8
Thickness of Outer Sheath mm	1.4	1.4	1.6	1.8	2.1	1.5	1.7	2.0	1.3	1.2
Overall Diameter (min/max) mm	20.9/22.9	23.5/25.5	25.6/27.6	28.0/30.0	31.6/33.6	35.0/37.0	38.2/40.2	42.7/44.7	47.1/49.1	51.3/53.3
Gland Size	B	B	C	C	C2	C2	C2	D	D	E
Weight kg/km	1270	1500	1750	2200	2700	3400	4200	5700	7200	8840
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)	WA170	WA195	WA10A	WA10B	WA10C	WA10D	WA10E	WA10F	WA10G	WA10H
UKOOA Codes (CSP)	LA170	LA195	LA10A	LA10B	LA10C	LA10D	LA10E	LA10F	LA10G	LA10H