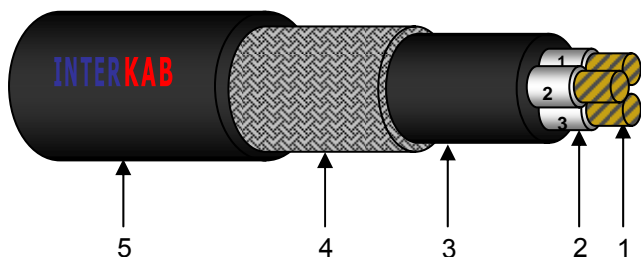


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Offshore Power & Control Cables to BS6883 Specification

Multi Core Armoured Cables



Applicable Standards:
 BS6883 / IEC 60092-3
 BS7655
 BS EN 10257-1
 IEC 60332 part 3 (Category A)
 IEC-60228
**Stranded class 2 or tinned annealed
 copper conductors to BS6360**

Application:	This range of cables is designed for use in fixed wiring on ships and offshore platforms and drilling rigs, especially used where life may be endangered by smoke and noxious fumes, and where sensitive equipment may be damaged by acid forming gases.
(1) Conductor:	Tinned Stranded Copper Conductor to BS6360
Fire Protection:	None
(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 WB) CSP – SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type LB)
(4) Armour:	Galvanised Steel Wire Braid to BS EN 10257-1
(5) Outer Sheath:	EVA – SW4 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type WB) CSP – SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type LB)
Conductor Identification:	<p>The legend will include the manufacturers name, voltage, BS6883, number of cores and cross sectional area, cable sheath class (e.g. SW4) IEC60332 and UK00A code Where applicable. The standard sheath colour is black however other colours are available on request.</p> <p>1 Core – Black 2 Core – Red, Black 3 Core- Red, Yellow, Blue 4 Core – Red, Yellow, Blue, Black 5 Core & Above – White and Numbered Optional- All cores White and Numbered</p>

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Multi Core Armoured Cables

Cable	2 x 1.5	2 x 2.5	2 x 4	2 x 6	2 x 10	2 x 16	2 x 25	2 x 35	2 x 50	2 x 70	2 x 95	2 x 120	2x150	2 x 185
Stranding mm	7/0.53	7/0.67	7/0.85	7/1.00	7/1.35	7/1.70	7/2.14	19/1.53	19/1.78	19/2.14	37/1.78	37/2.03	37/2.25	37/2.52
Insulation Thickness mm	0.8	0.8	1.0	1.0	1.0	1.0	1.2	1.2	1.4	1.4	1.6	1.6	1.8	2.0
Thickness of Inner Sheath mm	1.1	1.1	1.2	1.2	-	1.4	-	1.6	-	-	-	-	-	-
Diameter over Inner Sheath (min/max) mm	8.7/10.7	9.6/11.6	11.7/13.7	12.8/14.8	14.9/16.9	17.2/19.2	21.7/23.7	23.7/25.7	27.2/29.2	31.3/33.3	36.0/38.0	39.8/41.8	44.0/46.0	49.0/51.0
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.3	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	1.2	1.2	1.3	1.4	-	1.5	-	1.8	-	-	-	-	-	-
Overall Diameter (min/max) mm	12.9/14.9	13.7/15.7	16.1/18.1	17.3/19.3	19.7/21.7	22.2/24.2	26.9/28.9	29.1/31.1	33.9/35.9	38.2/40.2	43.5/45.5	47.6/49.6	52.1/54.1	57.2/59.2
Gland Size	O	O	A	A	B	B	C	C	C2	C2	D	D	E	E
Weight kg/km	270	310	430	520	680	850	1500	1810	2510	3230	4220	5125	6210	7500
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	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	100	100	100	100
Inductance - mH/km	0.353	0.330	0.329	0.311	0.292	0.277	0.267	0.259	0.258	0.250	0.245	0.241	0.240	0.241
Capacitance - µF/km	0.133	0.153	0.158	0.181	0.213	0.248	0.260	0.282	0.288	0.325	0.333	0.366	0.369	0.374
DC Resistance max @ 20°C - Ω/km	12.2	7.56	4.70	3.11	1.84	1.16	0.734	0.529	0.391	0.270	0.195	0.154	0.126	0.100
DC Resistance max @ 90°C - Ω/km	15.555	9.639	5.993	3.965	2.346	1.479	0.936	0.674	0.499	0.344	0.271	0.214	0.175	0.140
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOQA Code (EVA)	WB202	WB203	WB204	WB206	WB210	WB216	WB225	WB235	WB250	WB270	WB295	WB20A	WB20B	WB20C
UKOQA Code (CSP)	LB202	LB203	LB204	LB206	LB210	LB216	LB225	LB235	LB250	LB270	LB295	LB20A	LB20B	LB20C

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Offshore Power & Control Cables to BS6883 Specification

Multi Core Armoured Cables

Cable	2 x 240	2 x 300	3 x 1.5	3 x 2.5	3 x 4	3 x 6	3 x 10	3 x 16	3 x 25	3 x 35	3 x 50	3 x 70	3 x 95	3x120
Stranding mm	61/2.25	61/2.52	7/0.53	7/0.67	7/0.85	7/1.00	7/1.35	7/1.70	7/2.14	19/1.53	19/1.78	19/2.14	37/1.78	37/2.03
Insulation Thickness mm	2.2	2.4	0.8	0.8	1.0	1.0	1.0	1.0	1.2	1.2	1.4	1.4	1.6	1.6
Thickness of Inner Sheath mm	-	-	1.1	1.1	1.2	1.2	1.3	1.4	1.6	1.7	1.8	2.0	2.2	-
Diameter over Inner Sheath (min/max) mm	55.7/57.7	62.0/64.0	9.3/11.3	10.2/12.2	12.4/14.4	13.7/15.7	15.9/17.9	18.4/20.4	23.4/25.4	25.5/27.5	29.4/31.4	33.7/35.7	38.8/40.8	42.9/44.9
Diameter of Armour/Braid mm	0.45	0.45	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.45	0.45	0.45	0.45	0.45
Thickness of Outer Sheath mm	-	-	1.2	1.3	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.2	2.4	-
Overall Diameter (min/max) mm	64.9/66.9	71.5/73.5	13.4/15.4	14.6/16.6	16.8/18.8	18.3/20.3	20.9/22.9	23.5/25.5	28.8/30.8	32.1/34.1	36.0/38.0	40.9/42.9	46.4/48.4	51.0/53.0
Gland Size	F	F	O	A	A	A	B	B	C	C2	C2	D	D	E
Weight kg/km	9440	11500	290	390	520	620	850	1150	1600	2200	3000	3980	5295	6490
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85	85	85	85	85	85
Short Circuit Rating, I _{sc} second - 250°C - A	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Inductance - mH/km	0.238	0.238	0.353	0.330	0.329	0.311	0.292	0.277	0.267	0.259	0.258	0.250	0.245	0.241
Capacitance - µF/KM	0.381	0.392	0.133	0.153	0.158	0.181	0.213	0.248	0.260	0.282	0.288	0.325	0.333	0.366
DC Resistance max @ 20°C - Ω/km	0.0762	0.0607	12.2	7.56	4.70	3.11	1.84	1.16	0.734	0.529	0.391	0.270	0.195	0.154
DC Resistance max @ 90°C - Ω/km	0.108	0.087	15.555	9.639	5.993	3.965	2.346	1.479	0.936	0.674	0.499	0.344	0.271	0.214
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOOA Code (EVA)	WB20D	WB20E	WB302	WB303	WB304	WB306	WB310	WB316	WB325	WB335	WB350	WB370	WB395	WB30A
UKOOA Code (CSP)	LB20D	LB20E	LB302	LB303	LB304	LB306	LB310	LB316	LB325	LB335	LB350	LB370	LB395	LB30A

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Offshore Power & Control Cables to BS6883 Specification

Multi Core Armoured Cables

Cable	3 x 150	3 x 185	3 x 240	3 x 300	4 x 1.5	4 x 2.5	4 x 4	4 x 6	4 x 10	4 x 16	4 x 25	4 x 35	4 x 50	4 x 70
Stranding mm	37/2.25	37/2.52	61/2.25	61/2.52	7/0.53	7/0.67	7/0.85	7/1.00	7/1.35	7/1.70	7/2.14	19/1.53	19/1.78	19/2.14
Insulation Thickness mm	1.8	2.0	2.2	2.4	0.8	0.8	1.0	1.0	1.0	1.0	1.2	1.2	1.4	1.4
Thickness of Inner Sheath mm	-	-	-	-	1.1	1.1	1.2	1.3	1.4	1.5	1.7	1.8	1.9	2.1
Diameter over Inner Sheath (min/max) mm	47.5/49.5	53.0/55.0	60.0/62.0	66.8/68.8	10.2/12.2	11.2/13.2	13.7/15.7	15.3/17.3	17.7/19.7	20.7/22.7	26.0/28.0	28.4/30.4	32.7/34.7	37.5/39.5
Diameter of Armour/Braid mm	0.45	0.45	0.45	0.45	0.3	0.3	0.3	0.3	0.3	0.3	0.45	0.45	0.45	0.45
Thickness of Outer Sheath mm	-	-	-	-	1.3	1.3	1.4	1.5	1.6	1.7	1.9	2.0	2.2	2.4
Overall Diameter (min/max) mm	56.0/58.0	61.9/63.9	64.2/66.2	76.7/78.7	14.6/16.6	15.6/17.6	18.3/20.3	20.3/22.3	22.9/24.9	25.9/27.9	32.6/34.6	35.1/37.1	39.9/41.9	45.1/47.1
Gland Size	E	E	F	G	A	A	A	B	B	C	C2	C2	D	D
Weight kg/km	7690	9550	12400	14900	360	470	620	760	1100	1500	2100	2700	3400	4600
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	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	100	100	100	100
Inductance - mH/km	0.24	0.241	0.238	0.238	0.353	0.330	0.329	0.311	0.292	0.277	0.267	0.0259	0.258	0.25
Capacitance - µF/KM	0.369	0.374	0.381	0.392	0.133	0.153	0.158	0.181	0.213	0.248	0.260	0.282	0.288	0.325
DC Resistance max @ 20°C - Ω/km	0.126	0.100	0.076	0.0607	12.2	7.56	4.70	3.110	1.84	1.16	0.734	0.529	0.391	0.27
DC Resistance max @ 90°C - Ω/km	0.175	0.140	0.108	0.087	15.555	9.639	5.993	3.965	2.346	1.479	0.936	0.674	0.499	0.344
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOOA Code (EVA)	WB30B	WB30C	WB30D	WB30E	WB402	WB403	WB404	WB406	WB410	WB416	WB425	WB435	WB450	WB470
UKOOA Code (CSP)	LB30B	LB30C	LB30D	LB30E	LB402	LB403	LB404	LB406	LB410	LB416	LB425	LB435	LB450	LB470

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Multi Core Armoured Cables

Cable	4 x 95	4 x 120	4 x 150	4 x 185	4 x 240	4 x 300	5 x 1.5	5 x 2.5	5 x 4	7 x 1.5	7 x 2.5	7 x 4	10 x 1.5	10 x 2.5
Stranding mm	37/1.78	37/2.03	37/2.25	37/2.52	61/2.25	61/2.52	7/0.53	7/0.67	7/0.85	7/0.53	7/0.67	7/0.85	7/0.53	7/0.67
Insulation Thickness mm	1.6	1.6	1.8	2.0	2.2	2.4	0.8	0.8	1.0	0.8	0.8	1.0	0.8	0.8
Thickness of Inner Sheath mm	2.3	-	-	-	-	-	1.1	-	-	1.2	1.2	1.4	-	-
Diameter over Inner Sheath (min/max) mm	43.3/45.3	47.9/49.9	53.1/55.1	59.1/61.1	67.1/69.1	74.7/76.7	11.1/13.1	12.5/14.5	15.3/17.3	12.4/14.4	13.6/15.6	16.7/18.7	16.0/18.0	17.8/19.8
Diameter of Armour/Braid mm	0.45	0.45	0.45	0.45	0.45	0.45	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Thickness of Outer Sheath mm	2.6	-	-	-	-	-	1.3	-	-	1.3	1.4	1.6	-	-
Overall Diameter (min/max) mm	51.3/53.3	56.4/58.4	62.1/64.1	68.4/70.4	77.1/79.1	85.3/87.3	15.5/17.5	16.8/18.8	20.2/22.2	16.8/18.8	18.2/20.2	21.7/23.7	21.0/23.0	22.8/24.8
Gland Size	E	E	E	E	G	G	A	A	B	A	A	B	B	B
Weight kg/km	5700	6900	8200	10260	13200	16300	420	550	720	520	600	800	720	810
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	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	100	100	100	100
Inductance - mH/km	0.245	0.241	0.240	0.241	0.238	0.238	0.353	0.330	0.329	0.353	0.330	0.308	-	-
Capacitance - µF/KM	0.333	0.366	0.369	0.374	0.381	0.392	0.133	0.153	0.158	0.133	0.153	0.158	-	-
DC Resistance max @ 20°C - Ω/km	0.195	0.154	0.126	0.100	0.0762	0.0607	12.2	7.56	4.70	12.2	7.56	4.7	-	-
DC Resistance max @ 90°C - Ω/km	0.271	0.214	0.175	0.140	0.108	0.087	15.555	9.639	5.993	15.555	9.639	5.993	-	-
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOOA Code (EVA)	WB495	WB40A	WB40B	WB40C	WB40D	WB40E	WB502	WB503	WB504	WB702	WB703	WB704	-	-
UKOOA Code (CSP)	LB495	LB40A	LB40B	LB40C	LB40D	LB40E	LB502	LB503	LB504	LB702	LB703	LB704	-	-

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Multi Core Armoured Cables

Cable	12 x 1.5	12x2.5	19x1.5	19x2.5	27 x 1.5	27 x 2.5	30 x 1.5	30 x 2.5	37 x 1.5	37 x 2.5	30 x 1.5	30 x 2.5
Stranding mm	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67
Insulation Thickness mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Thickness of Inner Sheath mm	1.3	1.4	1.4	1.5	-	1.7	-	-	-	1.8	-	-
Diameter over Inner Sheath (min/max) mm	16.5/18.5	18.5/20.5	19.8/21.8	22.1/24.1	24.1/26.1	26.8/28.8	25.0/27.0	27.9/29.9	27.1/29.1	30.4/32.4	31.4/33.4	35.2/37.2
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.45	0.45	0.45	0.45	0.45
Thickness of Outer Sheath mm	1.5	1.6	1.6	1.7	-	1.9	-	-	-	2.0	-	-
Overall Diameter (min/max) mm	21.5/23.5	23.8/25.6	24.8/26.8	27.3/29.3	29.7/31.7	33.4/35.4	30.6/32.6	34.6/36.6	33.7/35.7	37.0/39.0	38.2/40.2	42.4/44.4
Gland Size	B	B	C	C	C	C2	C	C2	C2	C2	C2	D
Weight kg/km	850	950	1100	1400	1500	1800	1950	2150	2700	2950	3500	3800
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	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	100	100
Inductance/- mH/km	0.353	0.330	0.353	0.330	0.353	0.330	-	-	0.353	0.330	-	-
Capacitance - µF/KM	0.133	0.153	0.133	0.153	0.133	0.153	-	-	0.133	0.153	-	-
DC Resistance max @ 20°C - Ω/km	12.2	7.56	12.20	7.56	12.2	7.56	-	-	12.2	7.56	-	-
DC Resistance max @ 90°C - Ω/km	15.555	9.639	15.555	9.639	15.555	9.639	-	-	15.56	9.639	-	-
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOOA Code (EVA)	WBA02	WBA03	WBB02	WBB03	WBC02	WBC03	-	-	WBD02	WBD03	-	-
UKOOA Code (CSP)	LBA02	LBA03	LBB02	LBB03	LBC02	LBC03	-	-	LBD02	LBD03	-	-