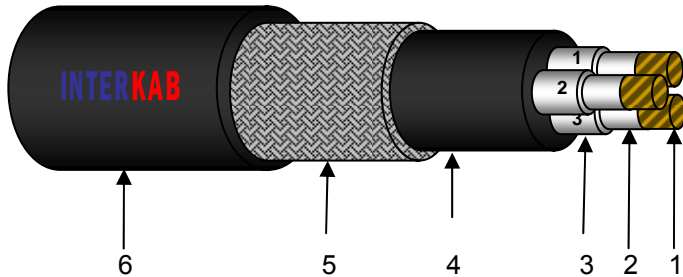


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Fire Resistant

Offshore Power & Control Cables to BS6883 Specification

Multi Core Armoured Cables



Applicable Standards:
BS6883 / BS7917 / IEC 60092-3
BS7655
BS EN 10257-1
IEC 60331 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
(2) Fire Protection:	Mica Glass Tape
(3) Insulation:	EPR Complying with BS7655 GP4
(4) Bedding:	EVA – SW4 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type YD) OR CSP – SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type XD)
(5) Armour:	Galvanised Steel Wire Braid to BS EN 10257-1
(6) Outer Sheath:	EVA – SW4 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type YD) OR CSP – SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance and LSZH (UKOOA type XD)
Conductor Identification:	The legend will include the manufacturers name, voltage, BS6883, 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. 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

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Cable	2 x1.5	2 x 2.5	2 x 4	2 x 6	2 x10	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	1.3	1.4	-	1.6	-	-	-	-	-	-
Diameter over Inner Sheath (min/max) mm	9.7/11.7	10.6/12.6	12.7/14.7	13.8/15.8	15.9/17.9	18.2/20.2	22.7/24.7	24.7/26.7	28.2/30.2	32.3/34.3	37.0/39.0	40.8/42.8	45.0/47.0	50.0/52.0
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	0.45	0.45	0.45	0.45
Thickness of Outer Sheath mm	1.2	1.2	1.3	1.4	1.4	1.5	-	1.8	-	-	-	-	-	-
Overall Diameter (min/max) mm	13.9/15.9	14.7/16.7	17.1/19.1	18.3/20.3	20.7/22.7	23.2/25.2	27.9/29.9	30.1/32.1	34.9/36.9	39.2/41.2	44.5/46.5	48.6/50.6	53.1/55.1	58.2/60.2
Gland Size	O	A	A	A	B	B	C	C	C2	D	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	0.391	0.371	0.353	0.332	0.316	0.304	0.283	0.278	0.272	0.264	0.259	0.254	0.251	0.250
Capacitance - µF/km	0.112	0.126	0.140	0.157	0.180	0.201	0.223	0.232	0.248	0.274	0.286	0.303	0.315	0.323
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
UKOOA Code (EVA)	YD202	YD203	YD204	YD206	YD210	YD216	YD225	YD235	YD250	YD270	YD295	YD20A	YD20B	YD20C
UKOOA Code (CSP)	XD202	XD203	XD204	XD206	XD210	XD216	XD225	XD235	XD250	XD270	XD295	XD20A	XD20B	XD20C

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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	7/1.0	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	56.7/58.7	63.0/65.0	10.8/12.8	11.7/13.7	13.9/15.9	15.2/17.2	17.4/19.4	19.9/21.9	24.9/26.9	27.0/29.0	30.9/32.9	35.2/37.2	40.3/42.3	44.4/46.4
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	65.9/67.9	72.5/74.5	14.9/16.9	16.1/18.1	18.3/20.3	19.8/21.8	22.4/24.4	25.0/27.0	30.3/32.3	33.6/35.6	37.5/39.5	42.4/44.4	47.9/49.9	52.5/54.5
Gland Size	F	F	A	A	A	B	B	C	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 - xD	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	0.244	0.243	0.391	0.371	0.353	0.332	0.316	0.304	0.283	0.278	0.272	0.264	0.259	0.254
Capacitance - µF/KM	0.348	0.357	0.112	0.126	0.14	0.157	0.180	0.201	0.223	0.232	0.248	0.274	0.286	0.303
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
UKQOA Code (EVA)	YD20D	YD20E	YD302	YD303	YD304	YD306	YD310	YD316	YD325	YD335	YD350	YD370	YD395	YD30A
UKQOA Code (CSP)	XD20D	XD20E	XD302	XD303	XD304	XD306	XD310	XD316	XD325	XD335	XD350	XD370	XD395	XD30A

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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	-	-	-	1.8	-	2.1
Diameter over Inner Sheath (min/max) mm	49.0/51.0	54.5/56.5	61.5/63.5	68.3/70.3	12.1/14.1	13.1/15.1	15.6/17.6	17.2/19.2	19.7/21.7	22.5/24.5	28.4/30.4	31.1/33.1	36.2/38.2	41.4/43.4
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	-	-	-	2.0	-	2.4
Overall Diameter (min/max) mm	57.5/59.5	63.4/65.4	65.7/67.7	78.2/80.2	15.3/17.3	16.3/18.3	19.0/21.0	20.8/22.8	23.5/25.5	26.5/28.5	33.1/35.1	36.0/38.0	41.5/43.5	47.1/49.1
Gland Size	E	F	F	G	A	A	B	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	0.251	0.250	0.244	0.243	0.391	0.371	0.353	0.332	0.316	0.304	0.283	0.278	0.272	0.264
Capacitance - µF/KM	0.315	0.323	0.348	0.357	0.112	0.126	0.140	0.157	0.180	0.201	0.223	0.232	0.248	0.274
DC Resistance max @ 20°C - Ω/km	0.126	0.100	0.0762	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)	YD30B	YD30C	YD30D	YD30F	YD402	YD403	YD404	YD406	YD410	YD416	YD425	YD435	YD450	YD470
UKOOA Code (CSP)	XD30B	XD30C	XD30D	XD30F	XD402	XD403	XD404	XD406	XD410	XD416	XD425	XD435	XD450	XD470

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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	-	-	-	-	-	-	-	-	-	1.2	1.2	-	-	-
Diameter over Inner Sheath (min/max) mm	47.2/49.2	49.9/51.9	55.1/57.1	61.1/63.1	69.1/71.1	76.7/78.7	13.1/15.1	14.4/16.4	17.4/19.4	12.7/14.7	15.9/17.9	-	-	-
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	-	-	-	-	-	-	-	-	-	1.3	1.4	-	-	-
Overall Diameter (min/max) mm	53.3/55.3	58.4/60.4	64.1/66.1	70.4/72.4	79.1/81.1	87.3/89.3	16.3/18.3	17.6/19.6	21.0/23.0	17.6/19.6	19.3/21.3	22.7/24.7	23.3/25.3	24.1/26.1
Gland Size	E	E	F	F	G	G	A	A	B	A	B	B	B	C
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	0.259	0.254	0.251	0.250	0.244	0.243	0.391	0.371	0.353	0.391	0.371	-	-	-
Capacitance - µF/KM	0.286	0.303	0.315	0.323	0.348	0.357	0.112	0.126	0.140	0.112	0.126	-	-	-
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	-	-	-
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	-	-	-
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOOA Code (EVA)	YD495	YD40A	YD40B	YD40C	YD40D	YD40E	YD502	YD503	YD504	YD702	YD703	-	-	-
UKOOA Code (CSP)	XD495	XD40A	XD40B	XD40C	XD40D	XD40E	XD502	XD503	XD504	XD702	XD703	-	-	-

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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	48 x 1.5	48 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	-	1.5	-	1.7	-	-	-	-	-	-
Diameter over Inner Sheath (min/max) mm	18.6/20.6	20.8/22.8	23.3/25.3	25.8/27.8	28.0/30.0	31.0/33.0	-	-	31.01/33.01	34.9/36.9	-	-
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.3	0.3	0.45	0.3	0.45	0.45	0.45	0.45	0.45
Thickness of Outer Sheath mm	1.5	1.6	-	1.7	-	1.9	-	-	-	-	-	-
Overall Diameter (min/max) mm	22.2/24.2	24.6/26.6	27.1/29.1	29.8/31.8	32.2/34.2	35.7/37.7	33.2/35.2	36.9/38.9	35.72/37.72	39.8/41.8	40.67/42.67	45.3/47.3
Gland Size	A	C	C	C	C2	C2	C2	C2	C2	D	D	D
Weight kg/km	850	950	1100	1400	1500	1800	1950	2150	2700	2950	3500	3860
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	0.391	0.371	0.391	0.371	0.391	0.371	-	-	0.391	0.371	-	-
Capacitance - µF/KM	0.112	0.126	0.112	0.126	0.112	0.126	-	-	0.112	0.126	-	-
DC Resistance max @ 20°c - Ω/km	12.2	7.56	12.20	7.56	12.20	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	-	-	15.555	9.639	-	-
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
UKOOA Code (EVA)	YDA02	YDA03	YDB02	YDB03	YDC02	YDC03	-	-	YDD02	YDD03	-	-
UKOOA Code (CSP)	XDA02	XDA03	XDB02	XDB03	XDC02	XDC03	-	-	XDD02	XDD03	-	-