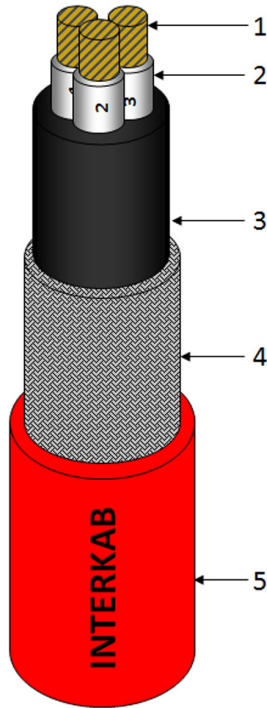


3.8/6.6kV
Flame Retardant

Medium Voltage Power Cable to BS6883 Specification

BS6883 – Power/Control Cables-
Single and Multi Core Armoured:



Applicable Standards

BS6883 / IEC 60092-3
BS7655
BS EN 10257-1 or BS EN 12166
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.

Conductor Identification

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

Note: picture is for illustration purposes only

Construction	Specifications
(1) Conductor:	Stranded Class 2 Tinned Annealed Copper Conductor to BS6360
Fire Performance	Flame retardant to IEC60332 part 3 category A (reduced propagation)
(2) Insulation:	EPR Complying with BS7655 GP4
(3) Bedding:	CSP - SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance - UKOOA type MA (Single core) UKOOA type MB (Multi Core)
(4) Armour:	Singlecore- Tinned phosphor bronze wire braid to BS2873-PB102 (now BS EN 12166) 3 Core- Galvanised Mild Steel Wire Braid to BS EN 10257-1
(5) Outer Sheath:	CSP - SW2 Thermo set Rubber Compound Complying with BS7655, incorporating enhanced Oil resistance, minimum tear resistance - UKOOA type MA (Single core) UKOOA type MB (Multi Core)

**3.8/6.6kV
Flame Retardant** Medium Voltage Power Cables to BS6883 Specification

Single & Multicore Armoured Power/Control Cables - Table 1/3

Cable	1 x16	1 x 25	1 x 35	1 x 50	1 x70	1 x 95	1 x 120	1 x 150
Nominal Conductor Diameter mm	4.9	5.9	6.9	8.2	9.9	11.6	13	14.5
Insulation Thickness mm	3	3	3	3	3	3	3	3
Diameter over Inner Sheath (min/max) mm	16.0/18.0	17.6/19.7	18.7/20.8	19.9/22.3	21.8/24.3	23.7/26.3	25.4/28.0	27.0/29.8
Overall Diameter (min/max) mm	20.2/23.0	21.9/24.9	23.0/26.0	24.4/27.4	26.5/29.6	28.6/31.8	30.2/33.9	32.8/36.6
Gland Size	B	B	B	C	C	C	C2	C2
Weight kg/km	775	930	1050	1273	1580	1912	2260	2732
DC Resistance max @ 20°C - Ω/km	1.16	0.734	0.529	0.391	0.27	0.195	0.154	0.126
AC Resistance	1.48	0.936	0.675	0.499	0.345	0.271	0.214	0.174
Max @ 90 °c - Ω/km								
Reactance @ 60 Hz	0.193	0.176	0.17	0.164	0.155	0.147	0.143	0.141
Impedance @ 90 °c, 60 Hz	1.492	0.952	0.696	0.525	0.378	0.308	0.257	0.224
Sheath Colour	Red	Red	Red	Red	Red	Red	Red	Red
UKOOA Code (CSP)	MA116	MA125	MA135	MA150	MA170	MA195	MA10A	MA10B

Single & Multicore Armoured Power/Control Cables - Table 2/3

Cable	1 x185	1 x 240	1 x 300	1 x 400	1 x500	1 x 630	3 x 16	3 x 25
Nominal Conductor Diameter mm	16.2	18.5	21.1	23.6	26.3	29.9	4.9	5.9
Insulation Thickness mm	3	3	3	3	3	3	3	3
Diameter over Inner Sheath (min/max) mm	29.0/32.1	31.7/35.0	34.3/37.6	37.6/41.1	41.4/45.4	45.1/49.2	32.7/36.0	36.5/39.9
Overall Diameter (min/max) mm	35.0/38.9	37.9/41.9	40.6/45.1	44.4/49.0	48.4/53.6	52.4/57.8	38.9/43.3	42.9/47.5
Gland Size	C2	D	D	D	E	E	D	D
Weight kg/km	3225	3944	3723	5833	7154	8696	2498	3066
DC Resistance max @ 20°C - Ω/km	0.1	0.0762	0.0607	0.0475	0.0369	0.0286	1.16	0.734
AC Resistance	0.14	0.108	0.0874	0.0695	0.0578	0.0444	1.48	0.936
Max @ 90 °c - Ω/km								
Reactance @ 60 Hz	0.136	0.131	0.128	0.125	0.122	0.119	0.154	0.14
Impedance @ 90 °c, 60 Hz	0.195	0.17	0.155	0.143	0.135	0.127	1.487	0.946
Sheath Colour	Red	Red	Red	Red	Red	Red	Red	Red
UKOOA Code (CSP)	MA10C	MA10D	MA10E	MA10F	MA10G	MA10H	MB316	MB325

Single & Multicore Armoured Power/Control Cables - Table 3/3

Cable	3 x 35	3 x 50	3 x 70	3 x 95	3 x 120	3 x 150	3 x 185	3 x 240	3 x 300
Nominal Conductor Diameter mm	6.9	8.2	9.9	11.6	13	14.5	16.2	18.5	21.1
Insulation Thickness mm	3	3	3	3	3	3	3	3	3
Diameter over Inner Sheath (min/max) mm	38.4/41.9	41.3/45.3	45.3/49.4	49.3/53.9	53.1/57.8	56.5/61.4	60.8/66.1	66.6/72.2	72.0/78.1
Overall Diameter (min/max) mm	44.9/49.6	48.1/53.3	52.4/57.4	56.8/62.4	60.8/67.0	64.6/70.9	69.1/76.0	75.5/82.6	81.3/89.1
Gland Size	D	E	E	E	F	F	F	G	G
Weight kg/km	3421	4349	5263	6456	7668	9021	10578	13019	15313
DC Resistance max @ 20°C - Ω/km	0.529	0.391	0.27	0.195	0.154	0.126	0.1	0.0762	0.0607
AC Resistance	1.4	0.498	0.344	0.271	0.214	0.174	0.14	0.108	0.0862
Max @ 90 °c - Ω/km									
Reactance @ 60 Hz	0.134	0.13	0.123	0.115	0.113	0.11	0.106	0.103	0.1
Impedance @ 90 °c, 60 Hz	0.688	0.515	0.365	0.294	0.242	0.206	0.176	0.149	0.132
Sheath Colour	Red	Red	Red	Red	Red	Red	Red	Red	Red
UKOOA Code (CSP)	MB335	MB350	MB370	MB395	MB30A	MB30B	MB30C	MB30D	MB30E