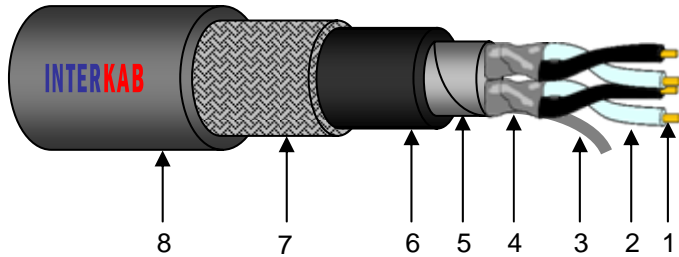


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Flame Retardant

## Offshore Instrumentation Cables to BS6883 Specification

Pairs/Triples/Quads Armoured Cables – Individually Screened



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

<b>Application:</b>	This range of cables is designed for use in fixed wiring in ships and offshore units, e.g. safety and emergency lighting, fire pumps, shut down systems, communication systems, gas detectors, and alarms. These cables are ideal for occupied areas including accommodation facilities, control rooms and computer suites.
<b>(1) Conductor:</b>	Tinned Stranded Copper Conductor to BS6360
<b>Fire Protection:</b>	None
<b>(2) Insulation:</b>	EPR Complying with BS7655 GP4
<b>(3) Drain Wire:</b>	Tinned Copper drain wire
<b>(4) Individual Screen:</b>	Aluminium Mylar Tape Screen
<b>(5) Collective Screen:</b>	Aluminium Mylar Tape Screen
<b>(6) Bedding:</b>	EVA - SW4 Thermo set Rubber Compound Complying with BS7655 (UKOOA type KH/KK) <b>OR</b> CSP - SW2 Thermo set Rubber Compound Complying with BS7655 (UKOOA type JH/JK)
<b>(7) Armour:</b>	Galvanised Steel Wire Braid to BS EN 10257-1
<b>(8) Outer Sheath:</b>	EVA - SW4 Thermo set Rubber Compound Complying with BS7655 (UKOOA type KH/KK) <b>OR</b> CSP - SW2 Thermo set Rubber Compound Complying with BS7655 (UKOOA type JH/JK)
<b>Conductor Identification:</b>	<p>The legend will include the manufacturers name, voltage, BS6883, the number of pairs/triples and cross sectional area, cable sheath class (e.g. SW4), IEC60332 and UK00A code where applicable. The standard sheath colours are grey, blue or black, and other colours are available on request.</p> <p>Pairs: Black and White  Multi-Pair: Numbered White &amp; Black Pairs  Triples: Black, White and Red  Quads: Black, White, Red and Blue</p>

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Pairs/Triples/Quads Armoured Cables – Individually Screened

Cable	1x2x0.75	2x2x0.75	3x2x0.75	7x2x0.75	12x2x0.75	20x2x0.75	1x3x0.75	3x3x0.75	7x3x0.75
Stranding mm	24/0.20	24/0.20	24/0.20	24/0.20	24/0.20	24/0.20	7/0.53	24/0.20	24/0.20
Insulation Thickness mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Thickness of Inner Sheath mm	1.2	1.2	1.2	1.4	1.6	1.8	1.0	1.3	1.5
Diameter over Inner Sheath (min/max) mm	7.6/9.6	8.6/10.4	12.6/14.5	16.9/19.0	21.3/23.7	27.8/30.7	7.9/9.9	14.2/16.2	19.7/22.1
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.3	0.3	0.45	0.3	0.3	0.3
Thickness of Outer Sheath mm	1.25	1.4	1.4	1.6	1.8	2.0	2.0	1.5	1.7
Overall Diameter (min/max) mm	11.9/13.9	12.4/14.3	16.7/19.0	21.4/24.3	26.1/29.2	33.8/37.8	12.5/14.5	18.6/20.9	24.4/27.4
Gland Size	O	O	A	B	C	C2	O	B	C
Weight kg/km	200	287	549	919	1380	1680	285	699	1172
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85
Maximum L/R ratio	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Maximum LOOP self inductance mH/km	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860
Maximum Mutual Capacitance – pF/m	104	104	104	104	104	104	92	92	92
DC Resistance @ 20°C – OHMS/km	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
AC Resistance @ 90°C – OHMS/km	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
Sheath Colour	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue
UKOOA Codes (EVA)	KHF00 (Blue) KKF00 (Grey)	KHX00 (Blue) KKX00 (Grey)	KHH00 (Blue) KKH00 (Grey)	KHJ00 (Blue) KKJ00 (Grey)	KHK00 (Blue) KKK00 (Grey)	KHL00 (Blue) KKL00 (Grey)	KHR00 (Blue) KKR00 (Grey)	KHS00 (Blue) KKS00 (Grey)	KHT00 (Blue) KKT00 (Grey)
UKOOA Codes (CSP)	JHF00 (Blue) JKF00 (Grey)	JHX00 (Blue) JKX00 (Grey)	JHH00 (Blue) JKH00 (Grey)	JHJ00 (Blue) JKJ00 (Grey)	JHK00 (Blue) JKK00 (Grey)	JHL00 (Blue) JKL00 (Grey)	JHR00 (Blue) JKR00 (Grey)	JHS00 (Blue) JKS00 (Grey)	JHT00 (Blue) JKT00 (Grey)

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## Offshore Instrumentation Cables to BS6883 Specification

Pairs/Triples/Quads Armoured Cables – Individually Screened

Cable	12x3x0.75	1x2x1.0	1x3x1.0	1x4x1.0	1x2x1.5	2x2x1.5	3x2x1.5	5x2x1.5	7x2x1.5
Stranding mm	24/0.20	32/0.20	32/0.20	32/0.20	7/0.53	7/0.53	7/0.53	7/0.53	7/0.53
Insulation Thickness mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Thickness of Inner Sheath mm	1.7	1.0	1.1	1.1	1.1	1.1	1.3	1.4	1.5
Diameter over Inner Sheath (min/max) mm	24.4/27.1	8.2/10.2	8.7/10.7	9.0/11.0	8.9/9.9	14.6/16.1	15.2/16.8	18.8/20.5	20.9/23.0
Diameter of Armour/Braid mm	0.45	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Thickness of Outer Sheath mm	2.0	1.0	1.1	1.2	1.2	1.2	1.5	1.6	1.7
Overall Diameter (min/max) mm	30.4/34.1	12.4/14.4	13.0/15.0	14.0/16.0	13.1/15.1	19.0/21.1	19.7/22.1	23.5/26.0	25.9/28.5
Gland Size	C2	O	O	O	O	B	B	B	C
Weight kg/km	1982	262	273	300	260	591	697	983	1181
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85
Maximum L/R ratio	21.0	27.0	27.0	27.0	38.0	38.0	38.0	38.0	38.0
Maximum LOOP self inductance mH/km	0.860	0.819	0.819	0.819	0.778	0.778	0.778	0.778	0.778
Maximum Mutual Capacitance – pF/m	92	115	101	101	128	128	128	128	128
DC Resistance @ 20°C – OHMS/km	25.3	18.6	18.6	18.6	12.4	12.4	12.4	12.4	12.4
AC Resistance @ 90°C – OHMS/km	32.3	23.7	23.7	23.7	15.9	15.9	15.9	15.9	15.9
Sheath Colour	Grey/Blue	Grey/ Blue	Grey/ Blue	Grey/ Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue
UKOOA Codes (EVA)	KHU00 (Blue) KKU00 (Grey)	KHF01 (Blue) KKF01 (Grey)	KHR01 (Blue) KKR01 (Grey)	KHX01 (Blue) KKX01 (Grey)	KHF02 (Blue) KKF02 (Grey)	KHX02 (Blue) KKX02 (Grey)	KHH02 (Blue) KKH02 (Grey)	-	KHU02 (Blue) KKU02 (Grey)
UKOOA Codes (CSP)	JHU00 (Blue) JKU00 (Grey)	JHF01 (Blue) JKF01 (Grey)	JHR01 (Blue) JKR01 (Grey)	JHX01 (Blue) JKX01 (Grey)	JHF02 (Blue) JKF02 (Grey)	JHX02 (Blue) JKX02 (Grey)	JHH02 (Blue) JKH02 (Grey)	-	JHU02 (Blue) JKU02 (Grey)

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## Offshore Instrumentation Cables to BS6883 Specification

Pairs/Triples/Quads Armoured Cables – Individually Screened

Cable	10x2x1.5	12x2x1.5	20x2x1.5	1x3x1.5	3x3x1.5	5x3x1.5	7x3x1.5	12x3x1.5	1x2x2.5
Stranding mm	7/0.53	7/0.53	7/0.53	7/0.53	7/0.53	7/0.53	7/0.53	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
Thickness of Inner Sheath mm	1.7	1.8	2.0	1.1	1.4	1.5	1.6	1.9	1.1
Diameter over Inner Sheath (min/max) mm	25.6/27.8	27.2/29.4	36.2/39.0	9.4/11.4	16.4/18.4	20.2/22.2	22.3/24.3	30.6/32.6	9.8/11.8
Diameter of Armour/Braid mm	0.45	0.45	0.45	0.3	0.3	0.3	0.3	0.45	0.3
Thickness of Outer Sheath mm	2.0	2.0	2.3	1.2	1.5	1.7	1.8	2.1	1.2
Overall Diameter (min/max) mm	31.8/35.0	33.4/36.5	42.9/46.8	13.8/15.8	21.8/23.8	25.9/27.9	28.2/30.2	38.1/40.1	14.1/16.1
Gland Size	C2	C2	D	O	B	C	C	C2	A
Weight kg/km	1323	1907	2250	331	780	1100	1409	2301	320
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85
Maximum L/R ratio	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	58.0
Maximum LOOP self inductance mH/km	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.731
Maximum Mutual Capacitance – pF/m	128	128	128	111	111	111	111	111	148
DC Resistance @ 20°C – OHMS/km	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	7.71
AC Resistance @ 90°C – OHMS/km	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	9.83
Sheath Colour	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue
UKOOA Codes (EVA)	-	KHK02 (Blue) KKK02 (Grey)	KHL02 (Blue) KKL02 (Grey)	KHR02 (Blue) KKR02 (Grey)	KHS02 (Blue) KKS02 (Grey)	-	KHT02 (Blue) KKT02 (Grey)	KHU02 (Blue) KKU02 (Grey)	KHF03 (Blue) KKF03 (Grey)
UKOOA Codes (CSP)	-	JHK02 (Blue) JKK02 (Grey)	JHL02 (Blue) JKL02 (Grey)	JHR02 (Blue) JKR02 (Grey)	JHS02 (Blue) JKS02 (Grey)	-	JHT02 (Blue) JKT02 (Grey)	JHU02 (Blue) JKU02 (Grey)	JHF03 (Blue) JKF03 (Grey)