

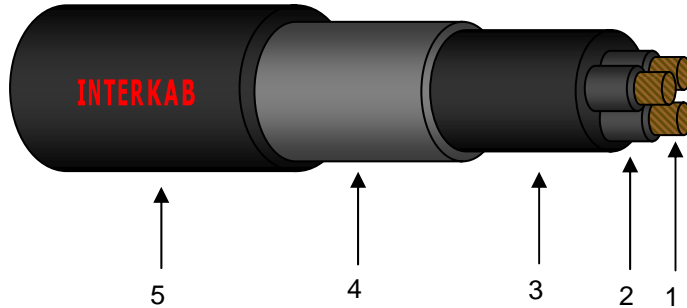
600 / 1000v
Flame Retardant

Onshore Power & Control Cables to IEC 60502-2 Specification

Applicable Standards:

IEC 60502-1 , IEC 60502-2
IEC 60228
BS 6346
BS 12548

Single and Multi Core Un-Armoured Cables to BS7846



Application:	These cables are designed to facilitate land-based activities in the oil, gas, petroleum and chemical industries where the spillage or seepage of corrosive liquids and vapours pose a threat to circuit integrity. Contaminants such as petroleum-based substances are capable of permeating cable sheaths and passing along and between armour wires, thus the inevitable degradation of insulating materials may not be limited to the proximity of penetration.	
(1) Conductor:	Conductors shall be Round Stranded (Non-Compacted or Compacted) or shaped, Class 2 as per IEC 60228. For smaller sizes up to and including 4mm ² , solid conductors, class 1 to IEC 60228 can also be provided.	
(2) Insulation:	XLPE insulation material and thickness shall be as per IEC 60502-1 rated for 90°C continuous operation. PVC insulation material and thickness shall be as per IEC 60502-1 and BS 6346. PVC material shall be Type A as per IEC 60502-1 or T11 as per BS 6346. PVC insulation material as per SASO 1694 rated for 85°C continuous operation is also available upon special request.	
(3) Bedding:	PVC	
(4) Protection :	Extruded Lead Alloy type "E" to BS 12548. Thickness of Lead shall be as per IEC 60502-1. Cables with other thickness of Lead Sheath can also be provided based on specific request.	
(5) Outer Sheath:	PVC	
Voltage :	600/1000 v	
Conductor Identification:	<p>Colour code (1)</p> <ul style="list-style-type: none"> 1 Core : Red or Black 2 Cores : Red, Black 3 Cores : Red, Yellow, Blue 4 Cores : Red, Yellow, Blue, Black 5 Cores : Red, Yellow, Blue, Black, Green Above 5 : Black Cores with White numerals Cores 	<p>Colour Code (2)</p> <ul style="list-style-type: none"> 1 Core : Brown or Blue 2 Cores : Brown or Blue 3 Cores : Brown, Black, Grey 4 Cores : Blue, Brown, Black, Grey 5 Cores : Green/Yellow, Blue, Brown, Black, Grey Above 5 : Black Cores with White numerals Cores

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Single Core Un-Armoured Cables to BS7846

Cables(mm2)	1x10rm	1x16rm	1x25rm	1x35rm	1x50rm	1x70rm	1x95rm	1x120rm	1x150rm	1x185rm	1x240rm	1x300rm	1 x 400rm	1 x 500rm	1 x 630rm
Diameter of Conductor (Approx) (mm)	4.0	5.0	6.3	7.4	8.8	10.6	12.4	14.0	15.5	17.4	20.3	22.7	25.4	28.8	30.4
Nominal Insulation Thickness (mm)	0.7	0.7	0.9	0.9	1.0	1.1	1.1	1.2	1.4	1.6	1.7	1.8	2.0	2.2	2.4
Nominal Lead Sheath Thickness (mm)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8
Nominal PVC Sheath Thickness (mm)	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.2	2.3
Overall Diameter (Approx) (mm)	16	17	19	20	21	23	25	27	29	31	35	37	42	46	48
Weight of Cable (Approx) (kg/km)	715	825	1025	1150	1350	1675	2025	2425	2800	3400	4250	5000	6250	7725	9275
DC Resistance at 20°C (Ohm/km)	1.83	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283
Standard Packing (m)	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500	500

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Multi Core Un-Armoured Cables to BS7846

Cables(mm2)	2 x 2.5m	2 x 4m	2 x 6m	2 x 10m	2 x 16m	2 x 25m	2 x 35m	2 x 50m	3 x 1.5m
Diameter of Conductor (Approx) (mm)	2.0	2.6	3.1	4.0	5.0	6.3	7.4	8.8	1.6
Nominal Insulation Thickness (mm)	0.7	0.7	0.7	0.7	0.7	0.9	0.9	1.0	0.7
Nominal Lead Sheath Thickness (mm)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2
Nominal PVC Sheath Thickness (mm)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Overall Diameter (Approx) (mm)	18	19	20	22	24	27	29	33	17
Weight of Cable (Approx) (kg/km)	825	925	1025	1225	1500	1925	2300	2875	790
DC Resistance at 20°C (Ohm/km)	7.41	4.61	3.08	1.83	1.15	0.727	0.524	0.387	12.1
Standard Packing (m)	1000	1000	1000	1000	1000	1000	1000	500	1000

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Multi Core Un-Armoured Cables to BS7846

Cables(mm2)	3 x 2.5mm	3 x 4mm	3 x 6mm	3 x 10mm	3 x 16mm	3 x 25mm	3 x 35mm	3 x 50mm	3 x 70mm	3 x 95mm	3 x 120mm	3 x 150mm
Diameter of Conductor (Approx) (mm)	2.0	2.6	3.1	4.0	5.0	6.3	7.4	8.8	10.6	12.4	14.0	15.5
Nominal Insulation Thickness (mm)	0.7	0.7	0.7	0.7	0.7	0.9	0.9	1.0	1.1	1.1	1.2	1.4
Nominal Lead Sheath Thickness (mm)	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8
Nominal PVC Sheath Thickness (mm)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.3	2.4
Overall Diameter (Approx) (mm)	18	19	21	23	25	28	31	35	40	44	49	54
Weight of Cable (Approx) (kg/km)	875	1000	1125	1375	1700	2225	2650	3350	4425	5625	6850	8250
DC Resistance at 20°C (Ohm/km)	7.41	4.61	3.08	1.83	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124
Standard Packing (m)	1000	1000	1000	1000	1000	1000	500	500	500	500	500	250

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Multi Core Un-Armoured Cables to BS7846

Cables(mm2)	3 x 185mm	3 x 240mm	3 x 300mm	3 x 50sm	3 x 70sm	3 x 95sm	3 x 120sm	3 x 150sm	3 x 185sm	3 x 240sm	3 x 300sm
Diameter of Conductor (Approx) (mm)	17.4	20.3	22.7	-	-	-	-	-	-	-	-
Nominal Insulation Thickness (mm)	1.6	1.7	1.8	1.0	1.1	1.1	1.2	1.4	1.6	1.7	1.8
Nominal Lead Sheath Thickness (mm)	1.9	2.1	2.2	1.3	1.4	1.5	1.6	1.7	1.8	2.0	2.1
Nominal PVC Sheath Thickness (mm)	2.6	2.8	2.9	1.9	2.0	2.1	2.3	2.4	2.6	2.8	2.9
Overall Diameter (Approx) (mm)	59	67	73	32	36	40	44	48	53	59	64
Weight of Cable (Approx) (kg/km)	10025	12900	15550	3000	4000	5075	6175	7525	9125	11650	14025
DC Resistance at 20°C (Ohm/km)	0.0991	0.0754	0.0601	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
Standard Packing (m)	250	250	250	500	500	500	500	500	250	250	250

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Cables(mm2)	3 x 10 rm+6 rm	3 x 16 rm+10 rm	3 x 25 rm+16 rm	3 x 35 sm+16 rm	3 x 50 sm+25 rm	3 x 70 sm+35 rm	3 x 95 sm+50 rm	3 x 120 sm+70 rm	3 x 150 sm+70 rm	3 x 185 sm+95 rm	3 x 240 sm+120 rm	3 x 300 sm+150 rm
Nominal Insulation Thickness (mm) (Ph)	0.7	0.7	0.9	0.9	1.0	1.1	1.1	1.2	1.4	1.6	1.7	1.8
Nominal Insulation Thickness (mm) (Ne)	0.7	0.7	0.7	0.7	0.9	0.9	1.0	1.1	1.1	1.1	1.2	1.4
Nominal Lead Sheath Thickness (mm)	1.2	1.2	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.0	2.2
Nominal PVC Sheath Thickness (mm)	1.8	1.8	1.8	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.8	3.0
Overall Diameter (Approx) (mm)	23	26	29	30	33	38	42	46	50	56	62	67
Weight of Cable (Approx) (kg/km)	1475	1850	2425	2575	3325	4450	5675	6975	8325	10400	13025	15950
DC Resistance at 20°C (Ohm/km) (Ph)	1.83	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
DC Resistance at 20°C (Ohm/km) (Ne)	3.08	1.83	1.15	1.15	0.727	0.524	0.387	0.268	0.268	0.193	0.153	0.124
Standard Packing (m)	1000	1000	1000	1000	500	500	500	500	250	250	250	250

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Cables(mm2)	4x1.5 mm	4x2.5 mm	4x4 mm	4x6 mm	4x10 mm	4x16 mm	4x25 mm	4x35 sm	4x50 sm	4x70 sm	4x95 sm	4x 120 sm	4x150 sm	4x185 sm	4x240 sm	4x300 sm
Diameter of Conductor (Approx) (mm)	1.6	2.0	2.6	3.1	4.0	5.0	6.3	-	-	-	-	-	-	-	-	-
Nominal Insulation Thickness (mm)	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	1.0	1.1	1.1	1.2	1.4	1.6	1.7	1.8
Nominal Lead Sheath Thickness (mm)	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.4	1.5	1.6	1.7	1.8	2.0	2.2	2.3
Nominal PVC Sheath Thickness (mm)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.1	2.3	2.4	2.6	2.7	3.0	3.2
Overall Diameter (Approx) (mm)	18	19	20	22	24	26	31	31	35	40	44	48	53	58	65	71
Weight of Cable (Approx) (kg/km)	850	950	1100	1250	1550	1950	2700	2800	3700	4950	6350	7750	9425	11575	14800	17900
DC Resistance at 20°C (Ohm/km)	12.1	7.41	4.61	3.08	1.83	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.751	0.0601
Standard Packing (m)	1000	1000	1000	1000	1000	1000	500	500	500	500	500	500	250	250	250	250