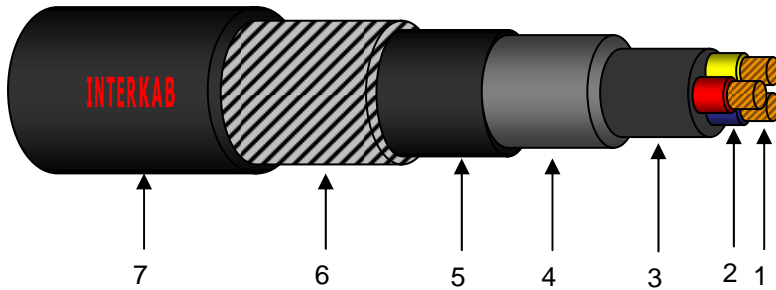


600 / 1000v
Flame Retardant

Lead Sheath Onshore Power & Control Cables to IEC 60502 Specification

Single and Multi Core Armoured Lead Sheath Onshore Cables



Applicable Standards:

IEC 60502
IEC 60228
BS 6346
BS 12548

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) Bedding :	PVC	
(6) Armour :	Galvanised Single Steel Wire	
(7) Outer Sheath :	PVC	
Voltage :	600/1000 V	
Conductor Identification:	Colour code (1) 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	Colour Code (2) 1 Core : Brown or Blue 2 Cores : Brown, 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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Lead Sheath Onshore Power & Control Cables to IEC 60502 Specification

Single Core Lead Sheath Armoured Onshore Cables

Cables(mm ²)	1 x 35	1 x 50	1 x 70	1 x 95	1 x 120	1 x 150	1 x 185	1 x 240	1 x 300	1 x 400	1 x 500	1 x 630
Diameter of Conductor (Approx) (mm)	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)	0.9	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	1.3	1.4	1.4	1.5	1.6	1.7	1.8
Diameter of Aluminium Wire Armour	1.3	1.3	1.6	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.5	2.5
Nominal PVC Sheath Thickness (mm)	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.1	2.3	2.4	2.6
Overall Diameter (Approx) (mm)	24	26	28	30	32	34	37	41	44	48	54	57
Weight of Cable (Approx) (kg/km)	1450	1750	2075	2450	2900	3300	3950	5000	5825	7150	8900	10600
DC Resistance at 20°C (Ohm/km)	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Standard Packing (m)	1000	1000	500	500	500	500	500	500	500	500	500	500

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Lead Sheath Onshore Power & Control Cables to IEC 60502 Specification

Multi Core Lead Sheath Armoured Onshore Cables

Cables(mm2)	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	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
Diameter of Conductor (Approx) (mm)	2.0	2.6	3.1	4.0	5.0	6.3	7.4	8.8	1.6	2.0	2.6	3.1	4.0	5.0	6.3	7.4
Nominal Insulation Thickness (mm)	0.7	0.7	0.7	0.7	0.7	0.9	0.9	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9
Nominal Lead Sheath Thickness (mm)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3
Diameter of Steel Wire Armour (mm)	1.3	1.3	1.3	1.6	1.6	1.6	1.6	2.0	1.3	1.3	1.3	1.3	1.6	1.6	1.6	1.6
Nominal PVC Sheath Thickness (mm)	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
Overall Diameter (Approx) (mm)	22	23	24	27	29	32	35	39	22	23	24	25	28	30	34	36
Weight of Cable (Approx) (kg/km)	1325	1450	1600	2025	2350	2900	3350	4375	1275	1400	1550	1725	2175	2575	3250	3750
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	7.41	4.61	3.08	1.83	1.15	0.727	0.524
Standard Packing (m)	1000	1000	1000	1000	1000	500	500	500	1000	1000	1000	1000	1000	1000	500	500

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Lead Sheath Onshore Power & Control Cables to IEC 60502 Specification

Multi Core Lead Sheath Armoured Onshore Cables

Cables(mm2)	3 x 50m	3 x 70m	3 x 95m	3 x 120m	3 x 150m	3 x 185m	3 x 240m	3 x 300m	3 x 50sm	3 x 70sm	3 x 95sm	3 x 120sm	3 x 150sm	3x 185sm	3 x 240sm	3 x 300sm
Diameter of Conductor (Approx) (mm)	8.8	10.6	12.4	14.0	15.5	17.4	20.3	22.7	-	-	-	-	-	-	-	-
Nominal Insulation Thickness (mm)	1.0	1.1	1.1	1.2	1.4	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)	1.4	1.5	1.6	1.7	1.8	1.9	2.1	2.2	1.3	1.4	1.5	1.6	1.7	1.8	2.0	2.1
Diameter of Steel Wire Armour (mm)	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5
Nominal PVC Sheath Thickness (mm)	2.1	2.2	2.4	2.5	2.7	2.8	3.1	3.2	2.1	2.2	2.4	2.5	2.7	2.8	3.0	3.2
Overall Diameter (Approx) (mm)	41	47	51	57	62	68	76	82	39	43	47	52	57	61	67	73
Weight of Cable (Approx) (kg/km)	4900	6225	7650	9550	11300	13375	16700	19725	4450	5650	6900	8575	10275	12100	14975	17700
DC Resistance at 20°C (Ohm/km)	0.387	0.268	0.193	0.153	0.124	0.991	0.0754	0.0601	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
Standard Packing (m)	500	500	250	250	250	250	250	250	500	500	250	250	250	250	250	250

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Lead Sheath Onshore Power & Control Cables to IEC 60502 Specification

Multi Core Lead Sheath Armoured Onshore Cables

Cables(mm2)	3 x 10 mm+6 mm	3 x 16 mm+10 mm	3 x 25 mm+16 mm	3 x 35 sm+16 mm	3 x 50 sm+25 mm	3 x 70 sm+35 mm	3 x 95 sm+50 mm	3 x 120 sm+70 mm	3 x 150 sm+70 mm	3 x 185 sm+95 mm	3 x 240 sm+120 mm	3 x 300 sm+150 mm
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 Diameter of Steel Wire Armour (mm)	1.8	1.8	1.9	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.1	3.4
Nominal PVC Sheath Thickness (mm)	1.6	1.6	1.6	1.6	2.0	2.0	2.5	2.5	2.5	2.5	2.5	3.15
Overall Diameter (Approx) (mm)	29	31	35	35	40	45	50	54	59	64	70	78
Weight of Cable (Approx) (kg/km)	2325	2775	3475	3650	4825	6175	8025	9575	11175	13575	16525	20800
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)	500	500	500	500	500	500	250	250	250	250	250	250

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Lead Sheath Onshore Power & Control Cables to IEC 60502 Specification

Multi Core Lead Sheath Armoured Onshore Cables

Cables(mm2)	4 x 1.5m	4 x 2.5m	4 x 4m	4 x 6m	4 x 10m	4 x 16m	4 x 25m	4 x 35sm	4 x 50sm	4 x 70sm	4 x 95sm	4 x 120sm	4x150sm	4 x 185sm	4 x 240sm	4 x 300sm
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
Diameter of Steel Wire Armour (mm)	1.3	1.3	1.3	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	3.2
Nominal PVC Sheath Thickness (mm)	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.1	2.2	2.3	2.5	2.7	2.9	3.0	3.3	3.5
Overall Diameter (Approx) (mm)	23	24	25	27	29	32	36	38	42	46	52	57	62	67	74	81
Weight of Cable (Approx) (kg/km)	1350	1500	1700	2050	2425	2875	3800	4200	5300	6775	8800	10500	12450	14950	18550	22900
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	0.754	0.0601
Standard Packing (m)	1000	1000	1000	1000	500	500	500	500	500	500	250	250	250	250	250	250