SANS 1507-4 Steel Wired Armoured XLPE-PVC 0.6/1kV Cable

Eland Product Group: B7S

APPLICATION

Direct burial in free-draining soil conditions for fixed indoor and outdoor installations.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Temperature Rating
Operating Temperature: -20 to +90 °C

Minimum Bending Radius
1.5mm2 to 16mm2 - Fixed: 6 x overall diameter
25mm2 and above - Fixed: 8 x overall diameter

CONSTRUCTION

Conductor
Copper conductor

Insulation
XLPE (Cross-linked Polyethylene)

Bedding
PVC (Polyvinyl Chloride)

Armour
SWA (Galvanized Steel Wire Armour)

Sheath
PVC (Polyvinyl Chloride)

Core Identification
2 core: Red Yellow
3 core: Red Yellow Blue
4 core: Red Yellow Blue Black

Sheath Colour
Black with Red Stripe

STANDARDS

SANS 1507-4

Flame Retardant according to IEC 60332-1-2

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

UKAS ISO/IEC 17025 Testing laboratory accreditation 8578
bsi. ISO 9001 Quality Management FS 672069
ISO 14001 Environmental Management EMS 672067
ISO 45001 Occupational Health and Safety Management OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

bsi. RoHS Trusted KITEMARK™ KM 634267
RoHS

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
				Under Armour	Overall	
B7S020015	2	1.5	0.7	9.35	12.2	289
B7S020025	2	2.5	0.7	10.19	13.2	343
B7S020040	2	4	0.7	11,21	14.2	408
B7S020060	2	6	0.7	12.35	15.4	489
B7S02010	2	10	0.7	13.67	16.7	612
B7S02016	2	16	0.7	16.26	19.5	903
B7S02025	2	25	0.9	20.83	24.2	1420
B7S02035	2	35	0.9	22.83	26.2	1716
B7S02050	2	50	1	23.72	27.1	1753
B7S02070	2	70	1.1	26.81	30.4	2267
B7S02095	2	95	1.1	29.65	33.3	2842
B7S02120	2	120	1.2	33.84	37.8	3700
B7S02150	2	150	1.4	36.68	41.1	4410
B7S02185	2	185	1.6	40.12	44.9	5267
B7S02240	2	240	1.7	46.57	51.4	6973
B7S030015	3	1.5	0.7	9.83	12.6	315
B7S030025	3	2.5	0.7	10.74	13.7	379
B7S030040	3	4	0.7	11.84	14.8	458
B7S030060	3	6	0.7	13.07	16.1	557
B7S03010	3	10	0.7	15.18	18.4	814
B7S03016	3	16	0.7	17.24	20.4	1064
B7S03025	3	25	0.9	22.05	25.5	1670
B7S03035	3	35	0.9	24.21	27.6	2052
B7S03050	3	50	1	26.30	29.9	2315
B7S03070	3	70	1.1	29.80	33.4	3013
B7S03095	3	95	1.1	34.48	38.5	4167
B7S03120	3	120	1.2	37.78	42.2	5036
B7S03150	3	150	1.4	41.48	46.3	6065
B7S03185	3	185	1.6	46.76	51.6	7681
B7S03240	3	240	1.7	51.76	57.0	9598
B7S040015	4	1.5	0.7	10.61	13.6	359
B7S040025	4	2.5	0.7	11.62	14.6	428
B7S040040	4	4	0.7	12.86	15.9	525
B7S040060	4	6	0.7	14.93	17.9	733
B7S04010	4	10	0.7	16.52	19.7	950
B7S04016	4	16	0.7	18.82	22.0	1261
B7S04025	4	25	0.9	24.04	27.4	1977
B7S04035	4	35	0.9	26.46	30.1	2468
B7S04050	4	50	1	29.60	33.2	2890
B7S04070	4	70	1.1	34.88	38.9	4101
B7S04095	4	95	1.1	38.88	43.3	5284
B7S04120	4	120	1.2	44.06	48.9	6832
B7S04150	4	150	1.4	48.36	53.2	8136
B7S04185	4	185	1.6	52.86	58.1	9795
B7S04240	4	240	1.7	58.66	64.3	12308

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ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C ohm/km	CURRENT CARRYING CAPACITY (A)					
		2 cores		3 cores		4 cores	
		Free Air	In Ground	Free Air	In Ground	Free Air	In Ground
1.5	12.1	29	25	25	21	25	21
2.5	7.41	39	33	33	28	33	28
4	4.61	52	43	44	36	44	36
6	3.08	66	53	56	44	56	44
10	1.83	90	71	78	58	78	58
16	1.15	115	91	99	75	99	75
25	0.727	152	116	131	96	131	96
35	0.524	188	139	162	115	162	115
50	0.387	228	164	197	135	197	135
70	0.268	291	203	251	167	251	167
95	0.193	354	239	304	197	304	197
120	0.153	410	271	353	223	353	223
150	0.124	472	306	406	251	406	251
185	0.0991	539	343	463	281	463	281
240	0.0754	636	395	546	324	546	324