SANS 1507-3 Steel Wired Armoured PVC-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 +70 °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
PVC (Polyvinyl Chloride)

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 Blue Stripe

STANDARDS

SANS 1507-3

Flame Retardant according to IEC 60332-1-2

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

ISO/IEC 17025 Accredited Testing Laboratory
IECEE CBTL Accredited Testing Laboratory

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability

SCIENCE BASED TARGETS BUSINESS AMBITION FOR 1.5°C

REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

RoHS REACH

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	
B7SFR020015	2	1.5	0.8	9.75	12.6	313
B7SFR020025	2	2.5	0.8	10.59	13.6	370
B7SFR020040	2	4	1	12.41	15.4	478
B7SFR020060	2	6	1	13.55	16.6	564
B7SFR02010	2	10	1	15.56	18.8	794
B7SFR02016	2	16	1	17.46	20.7	1001
B7SFR02025	2	25	1.2	22.03	25.4	1546
B7SFR02035	2	35	1.2	24.03	27.4	1852
B7SFR02050	2	50	1.4	24.92	28.3	1863
B7SFR02070	2	70	1.4	27.67	31.3	2377
B7SFR02095	2	95	1.6	31.60	35.6	3080
B7SFR02120	2	120	1.6	35.04	39.0	3869
B7SFR02150	2	150	1.8	37.88	42.3	4610
B7SFR02185	2	185	2	41.32	46.1	5506
B7SFR02240	2	240	2.2	48.12	52.9	7289
B7SFR030015	3	1.5	0.8	10.26	13.3	351
B7SFR030025	3	2.5	0.8	11.17	14.2	411
B7SFR030040	3	4	1	13.13	16.1	539
B7SFR030060	3	6	1	15.05	18.3	743
B7SFR03010	3	10	1	16.48	19.7	919
B7SFR03016	3	16	1	18.53	21.7	1181
B7SFR03025	3	25	1.2	23.35	26.8	1820
B7SFR03035	3	35	1.2	25.51	29.1	2229
B7SFR03050	3	50	1.4	27.10	30.7	2485
B7SFR03070	3	70	1.4	30.40	34.4	3226
B7SFR03095	3	95	1.6	35.48	39.9	4477
B7SFR03120	3	120	1.6	38.58	43.0	5314
B7SFR03150	3	150	1.8	42.68	47.5	6444
B7SFR03185	3	185	2	47.56	52.4	8051
B7SFR03240	3	240	2.2	52.76	58.0	10114
B7SFR040015	4	1.5	0.8	11.09	14.1	395
B7SFR040025	4	2.5	0.8	12.11	15.1	468
B7SFR040040	4	4	1	15.00	18.0	709
B7SFR040060	4	6	1	16.38	19.6	857
B7SFR04010	4	10	1	17.98	21.2	1075
B7SFR04016	4	16	1	21.74	25.1	1599
B7SFR04025	4	25	1.2	25.50	29.1	2172
B7SFR04035	4	35	1.2	27.92	31.5	2666
B7SFR04050	4	50	1.4	30.60	34.6	3167
B7SFR04070	4	70	1.4	35.58	40.0	4388
B7SFR04095	4	95	1.6	40.08	44.9	5711
B7SFR04120	4	120	1.6	45.06	49.9	7217
B7SFR04150	4	150	1.8	49.36	54.2	8595
B7SFR04185	4	185	2	53.86	59.1	10337
B7SFR04240	4	240	2.2	59.96	65.6	12999

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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	22	22	19	18	19	18
2.5	7.41	31	29	26	24	26	24
4	4.61	41	37	35	30	35	30
6	3.08	53	46	45	38	45	38
10	1.83	72	60	62	50	62	50
16	1.15	97	78	83	64	83	64
25	0.727	128	99	110	82	110	82
35	0.524	157	119	135	98	135	98
50	0.387	190	140	163	116	163	116
70	0.268	241	173	207	143	207	143
95	0.193	291	204	251	169	251	169
120	0.153	336	231	290	192	290	192
150	0.124	386	261	332	217	332	217
185	0.0991	439	292	378	243	378	243
240	0.0754	516	336	445	280	445	280