SANS Type 63 1.9/3.3 kV Cable

Eland Product Group: B6B

APPLICATION

Connection for portable electrical equipment and machinery, including those used in hazardous areas, for reeling / non-reeling applications.

CHARACTERISTICS

Voltage Rating Uo/U
1.9/3.3 kV

Temperature Rating
-25°C to +90°C

Minimum Bending Radius
6 x Overall Diameter

CONSTRUCTION

Conductor
Class 5 flexible stranded tinned annealed Copper

Insulation
EPR (Ethylene Propylene Rubber) thermosetting compound

Braid
Nylon /Tinned copper wires

Pilot Core

Lay
Three tinned copper/nylon braid screened power cores and one unscreened pilot core laid up in the right hand lay around rubber (RD1) filler centre

Inner Sheath
CR (Polychloroprene Rubber)

Reinforcement braid
Open nylon braid - minimum 16 strings

Outer Sheath
CR (Polychloroprene Rubber)

Sheath Colour
● Black

STANDARDS

SANS 1520-2, SANS 1411-1, SANS 1411-3

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.	POWER CORES					PILOT CORE			MAXIMUM TENSION kN	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
	CONDUCTOR SIZE mm^2	MAXIMUM WIRE DIAMETER mm	CONDUCTOR DIAMETER mm	MAXIMUM SCREEN WIRE DIAMETER mm	SCREEN CROSS-SECTION mm^2	CONDUCTOR SIZE mm^2	MAXIMUM WIRE DIAMETER mm	CONDUCTOR DIAMETER mm			
B6B3025/3010	25	0.41	6.8	0.31	31	10	0.41	4.2	1.1	44	360
B6B3035/3010	35	0.41	8.5	0.31	33	10	0.41	4.2	1.6	48	420
B6B3050/3010	50	0.41	10.3	0.31	38	10	0.41	5.3	2.3	50.5	420
B6B3070/3016	70	0.51	11.9	0.31	42	16	0.41	5.3	3.2	56	640
B6B3095/3016	95	0.51	13.5	0.31	47	16	0.41	5.3	4.3	61	770
B6B3120/3016	120	0.51	15.5	0.31	50	16	0.41	5.3	5.4	63	850
B6B3150/3025	150	0.51	17.3	0.31	55	25	0.41	6.8	6.8	66	1050
B6B3185/3025	185	0.51	20.2	0.31	60	25	0.41	6.8	8.3	72	1140
B6B3240/3025	240	0.51	22.9	0.31	64	25	0.41	6.8	10.8	78	1400

ELECTRICAL CHARACTERISTICS

POWER CORES					CURRENT RATING AT 30°C AMBIENT A	SHORT CIRCUIT RATING kA for 1s	
CONDUCTOR SIZE mm^2	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	MAXIMUM CONDUCTOR DC RESISTANCE AT 90°C Ω/km	REACTANCE Ω/km	IMPEDENCE (Z) at 90°C Ω/km	Laid out straight	Symmetrical fault current	Earth fault current (screens)
25	0.859	1.10	0.122	1.11	130	3.1	1.6
35	0.610	0.778	0.113	0.786	160	4.3	2.1
50	0.424	0.542	0.107	0.552	200	6.1	3.1
70	0.299	0.382	0.103	0.396	245	8.5	3.5
95	0.227	0.290	0.090	0.304	295	11.6	4.1
120	0.177	0.227	0.088	0.243	345	14.6	4.1
150	0.143	0.183	0.085	0.202	390	18.3	4.1
185	0.117	0.150	0.084	0.172	440	23	4.1
240	0.0882	0.115	0.083	0.142	520	29	4.1

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.

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