

SANS Type 41 Cable



Eland Product Group: B6A

APPLICATION

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

CHARACTERISTICS

Voltage Rating Uo/U
640/1100V

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

THE CABLE LAB®

AN ISO/IEC 17025 AND IECCE CBTL ACCREDITED FACILITY

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



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



REGULATORY COMPLIANCE

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





DIMENSIONS

ELAND PART NO.	POWER CORES					PILOT CORES CORES			MAXIMUM TENSION kN	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
	CONDUCTOR SIZE mm ²	MAXIMUM WIRE DIAMETER mm	WIRE DIAMETER mm	MAXIMUM SCREEN WIRE DIAMETER mm	SCREEN FILLING FACTOR mm ²	CONDUCTOR SIZE mm ²	MAXIMUM WIRE DIAMETER mm	CONDUCTOR DIAMETER mm			
B6A30025/10025	2.5	0.26	2.1	0.21	8	2.5	0.26	2.1	0.15	20	712
B6A30040/10040	4	0.31	2.7	0.21	9.5	4	0.31	2.7	0.24	25	902
B6A30060/10060	6	0.31	3.3	0.21	10.4	6	0.31	3.3	0.36	26	1103
B6A3010/1010	10	0.41	4.2	0.31	19	10	0.41	4.2	0.60	29	1563
B6A3016/1016	16	0.41	5.3	0.31	22	16	0.41	5.3	0.95	33	2105
B6A3025/1016	25	0.41	6.8	0.31	25	16	0.41	5.3	1.1	39	2705

ELECTRICAL CHARACTERISTICS

POWER CORES				CURRENT RATING AT 30°C AMBIENT A				SHORT CIRCUIT RATING kA for 1s	
MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	MAXIMUM CONDUCTOR DC RESISTANCE AT 90°C Ω/km	REACTANCE Ω/km	IMPEDENCE (Z) at 30°C	Laid out straight	1 layer on drum	2 layer on drum	3 layer on drum	Symmetrical fault current	Earth fault current (screens)
5.50	7.01	0.123	7.01	45	38	29	20	0.49	0.5
3.66	4.67	0.115	4.67	57	48	37	25	0.73	0.7
2.11	2.69	0.108	2.69	77	65	50	34	1.2	0.6
1.34	1.71	0.103	1.71	100	85	65	45	2.0	1.0
0.859	1.10	0.100	1.10	130	110	84	58	3.1	1.6

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.