SANS Type 633 / 633-ECC 19/33 kV

Eland Product Group: B6G

APPLICATION

Electrically driven machines, movable electric apparatus in hazardous areas, portable electric apparatus. Section feeders. Open cast mining, medium sized draglines, shovels and drills. Suitable for reeling purposes. Other industrial applications.

CHARACTERISTICS

Voltage Rating Uo/U
19/33 kV

Temperature Rating
-25°C to +90°C

Minimum Bending Radius
9 x Overall Diameter

CONSTRUCTION

Conductor
Class 5 flexible stranded tinned annealed Copper

Insulation
EPR (Ethylene Propylene Rubber) thermosetting compound and a strippable semi-conducting core screen (triple extruded)

Braid
Nylon /Tinned copper wires

Pilot Cores
Insulated with EPM (Ethylene Propylene Monomer)

Lay
Each power core individually screened with tinned copper/textile braid, laid up three insulated pilot cores

ECC Variant
One pilot core replaced with tinned conductor

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

UV resistant
Sunlight resistant
Oil resistant

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.

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 mm²	MAXIMUM WIRE DIAMETER mm	CONDUCTOR DIAMETER mm	MAXIMUM SCREEN WIRE DIAMETER mm	CONDUCTOR SIZE mm²	MAXIMUM WIRE DIAMETER mm	CONDUCTOR DIAMETER mm			
B6G3025/3025	25	0.41	6.8	0.31	16	0.41	4.2	1.1	71.3	720
B6G3035/3025	35	0.41	8.5	0.31	16	0.41	4.2	1.6	73.5	780
B6G3050/3025	50	0.41	10.3	0.31	16	0.41	4.2	2.3	77.8	890
B6G3070/3025	70	0.51	11.9	0.31	16	0.41	4.2	3.2	83.0	1030
B6G3095/3025	95	0.51	13.5	0.31	16	0.41	4.2	4.3	87.8	1170
B6G3120/3025	120	0.51	15.5	0.31	16	0.41	4.2	5.4	90.0	1270

ECC DIMENSIONS (IF APPLICABLE)

POWER CORES	PILOT CORES CORES		NOMINAL WEIGHT kg/km
CONDUCTOR SIZE mm²	ECC SIZE mm²	ECC MAXIMUM WIRE DIAMETER mm	
25	16	0.41	720
35	25	0.41	780
50	25	0.41	880
70	35	0.41	1040
95	50	0.41	1190
120	70	0.51	1310

ELECTRICAL CHARACTERISTICS

POWER CORES						CURRENT RATING AT 30°C AMBIENT A	SHORT CIRCUIT RATING kA for 1s		
CONDUCTOR SIZE mm²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	MAXIMUM CONDUCTOR DC RESISTANCE AT 90°C Ω/km	REACTANCE Ω/km	MINIMUM COMBINED SCREEN RESISTANCE AT 23°C Ω/km	MINIMUM COMBINED SCREEN & ECC RESISTANCE Ω/km	Laid out straight	Symmetrical fault current	Earth fault current (screens)	Earth fault current (ECC + screens)
25	0.795	1.05	0.155	1.6	0.7	105	3.1	1.6	3.6
35	0.565	0.749	0.144	1.2	0.5	130	4.3	2.1	5.0
50	0.393	0.521	0.136	0.8	0.5	160	6.1	3.1	5.0
70	0.277	0.368	0.131	0.7	0.4	195	8.5	3.5	7.5
95	0.210	0.279	0.125	0.6	0.3	230	11.6	4.1	9.0
120	0.164	0.218	0.119	0.6	0.23	260	14.6	4.1	11.5

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