

SANS Type 622 / 622-ECC 12.7/22 kV



Eland Product Group: B6F

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 U_o/U
12.7/22 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 IECCE 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 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	CONDUCTOR DIAMETER mm	MAXIMUM SCREEN WIRE DIAMETER mm	CONDUCTOR SIZE mm ²	MAXIMUM WIRE DIAMETER mm	CONDUCTOR DIAMETER mm			
B6F3025/3025	25	0.41	6.8	0.31	10	0.41	4.2	1.1	60.6	550
B6F3035/3025	35	0.41	8.5	0.31	10	0.41	4.2	1.6	64.9	640
B6F3050/3025	50	0.41	10.3	0.31	10	0.41	4.2	2.3	68.5	720
B6F3070/3025	70	0.51	11.9	0.31	16	0.41	4.2	3.2	72.4	830
B6F3095/3025	95	0.51	13.5	0.31	16	0.41	4.2	4.3	77.1	960
B6F3120/3025	120	0.51	15.5	0.31	16	0.41	4.2	5.4	81.4	1100
B6F3150/3025	150	0.51	17.3	0.31	25	0.41	6.8	6.8	85.6	1260

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	550
35	25	0.41	640
50	25	0.41	730
70	35	0.41	840
95	50	0.41	980
120	70	0.51	1130
150	95	0.51	1300

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	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	0.145	1.6	0.7	105	3.1	1.6	3.6
35	0.565	0.749	0.135	1.2	0.5	130	4.3	2.1	5.0
50	0.393	0.521	0.127	0.8	0.5	160	6.1	3.1	5.0
70	0.277	0.368	0.122	0.7	0.4	195	8.5	3.5	7.5
95	0.210	0.279	0.117	0.6	0.3	230	11.6	4.1	9.0
120	0.164	0.218	0.111	0.6	0.23	260	14.6	4.1	11.5
150	0.132	0.176	0.106	0.6	0.18	300	18.3	4.1	14.0

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.