

Eland EV ProInstall Cat6A SWA LSZH 1kV Cable



APPLICATION

The Eland EV ProInstall SWA LSZH Cable is specific to the e-Mobility industry, for EV charging unit power and flow monitoring. The cable is a combination of power cores and Cat6A twisted data pair, offering a solution for quick installation including connection to CTs, eliminating the need to run two separate cables. The steel wire armour provides additional mechanical protection for direct burial or external wall clipped installations where needed.

CHARACTERISTICS

Voltage

Power: 0.6/1kV
Data: 0.6/1kV

Test Voltage

Core to Core: 5000V
Core to Screen: 2000V

Temperature Rating

During Installation: -5°C to +50°C
Fixed Installation: -30°C to +80°C

Minimum Bending Radius

14 x outer diameter

CONSTRUCTION

Conductor

Power Cores: Class 2 stranded Copper
Data Pair: Class 1 solid Copper

Insulation

Power Cores: XLPE (Cross- Linked Polyethylene)
Data Pair: PE (Polyethylene)

Screen (Data Pair only)

Al/PET (Aluminium/Polyester Tape + tinned copper drain wire)

Data Pair Sheath

LSZH (Low Smoke Zero Halogen) - Orange

Inner Sheath

LSZH (Low Smoke Zero Halogen) - Black

Armour

SWA (Galvanised Steel Wires)

Outer Sheath

LSZH (Low Smoke Zero Halogen) - UV Resistant

Core Identification

Power: ● Blue ● Brown ● Green/Yellow
Data: ● Red ● Blue

Sheath Colour

● Black

BSI KITEMARK™ TESTED



Cables are tested and verified by The Cable Lab® to confirm they meet the quality standards required of the BSI Cable TVET Y Verification Kitemark™.

EXTENDED WARRANTY

This cable has an extended warranty period of 5 years

STANDARDS

IEC 60502-1, IEC/EN 60228

UV Resistant

Abrasion Resistant to EN 50289-3-7

Low Smoke Zero Halogen to IEC/EN 61034-1/2, IEC/EN 60754-1/2

Flame retardant to IEC/EN 60332-1-2, IEC/EN 60332-3-24

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 is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/853/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.



DIMENSIONS

ELAND PART NO.	NUMBER POWER CORES	NOMINAL CROSS SECTIONAL AREA POWER CORES mm ²	NOMINAL AWG SIZE DATA PAIR AWG	NOMINAL THICKNESS INSULATION mm		NOMINAL DIAMETER mm		NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MAXIMUM PULLING TENSION N/mm ²
				Power	Data	Over Bedding	Over Armour			
E1B030060ACAT6	3	6	23	3.2	7.2	16.0	18.5	21.7	1002	568
E1B050060ACAT6	5	6	23	3.2	7.2	19.1	22.3	25.8	1479	909

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	POWER CONDUCTOR DC RESISTANCE AT 20 °C Ω/km	DATA CONDUCTOR DC RESISTANCE AT 20 °C Ω/100m	INSULATION RESISTANCE AT 20 °C MΩ/km	MUTUAL CAPACITANCE max nF/km	INDUCTANCE max mH/km	L/R RATIO max uH/Ω	CURRENT CARRYING CAPACITY AT 30°C Amps		
							IN AIR	CLIPPED	TRUNKING
6	3.4	9.38	1000	115	1	60	54	44	46

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.