



Eland EV ProInstall Cat6A LSZH Cable



Eland Product Group: E1A

APPLICATION

The Eland EV ProInstall Cat6A LSZH Cable is for EV charging unit power and flow monitoring. The cable is a combination of power cores and screened Cat6A data cable offering a solution for quick installation including connection to CTs, eliminating the need to run two separate cables. Suitable for installation in air, clipped to surface, on tray/ladder, embedded in concrete, and for direct burial when mechanical protection is in place.

CHARACTERISTICS

Voltage
0.6/1kV

Test Voltage
5000V

Temperature Rating
Fixed: -30°C to +80°C

Minimum Bending Radius
6 x outer diameter

CONSTRUCTION

Conductor

Power Cores: Class 5 flexible stranded Copper
Cat6A Pairs: Class 1 solid Copper

Insulation

Power Cores: XLPE (Cross- Linked Polyethylene)
Cat6A Pairs: HDPE (High Density Polyethylene)

Individual & Collective Screen (Cat6A F/FTP pairs only)
Al/PET (Aluminium/Polyester Tape) with tinned copper drain wire

Cat6A Sheath

LSZH (Low Smoke Zero Halogen)

Tape and Interstitial Fillers

Outer Sheath

LSZH (Low Smoke Zero Halogen) - UV Resistant

Core Identification

Power - 3 Cores: ● Blue ● Brown ● Green/Yellow
Power - 5 Cores: ● Blue ● Brown ● Black ● Grey ● Green/Yellow

Cat6A Pairs:

Pair 1: ● Blue ● White/Blue
Pair 2: ● Orange ● White/Orange
Pair 3: ● Green ● White/Green
Pair 4: ● Brown ● White/Brown

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 Testing Verification Kitemark™.

EXTENDED WARRANTY

This cable has an extended warranty period of 5 years

STANDARDS

IEC 60502-1, IEC/EN 60228, TIA/EIA 568-B.10, IEC 61158-5

UV Resistant to EN 50396

Abrasion Resistant to EN 50289-3-7

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

Flame retardant according 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



SCIENCE
BASED
TARGETS

BUSINESS
AMBIITION FOR 1.5°C



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 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.



DIMENSIONS

ELAND PART NO.	NUMBER OF CORES	NOMINAL CROSS SECTIONAL AREA POWER CORES mm ²	NOMINAL AWG SIZE CAT6A DATA AWG	NOMINAL DIAMETER CAT6A mm	NOMINAL THICKNESS INSULATION (POWER) mm	NOMINAL OVERALL DIAMETER mm	NOMINAL PULLING TENSION N/mm ²	NOMINAL WEIGHT kg/km
E1A030060UCAT6	3	6	23	6.9	1.8	16.1	899	560
E1A050060UCAT6	5	6	23	6.9	1.8	19.1	1434	770

ELECTRICAL CHARACTERISTICS

POWER CONDUCTOR DC RESISTANCE AT 20 °C Ω/km	CAT6A 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
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.