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

KM 662609

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

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

8578 FS 672069 EMS 672067 OHS 672066

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 and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

DIMENSIONS

ELAND PART NO.	NUMBER OF CORES	NOMINAL CROSS SECTIONAL AREA POWER CORES mm²	NOMINAL AWG SIZE CAT6A DATA AWG	NOMINAL DIAMETER CAT6A mm	NOMINAL THICKNESS INSULATION (POWER) mm	NOMINAL OVERALL DIAMETER mm	NOMINAL PULLING TENSION N/mm²	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 CHARACTERTISTICS

POWER CONDUCTOR DC RESISTANCE AT 20 °C Ω/km	CAT6A DATA CONDUCTOR DC RESISTANCE AT 20 °C Ω/km	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
3.4	9.38	1000	115	1	60	44

UK T 020 7241 8787 | F 020 7241 8700 | sales@elandcables.com | www.elandcables.com
International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com