ELAND® CABLES

LXHIV 6/10kV Cable

Eland Product Group: MP39

APPLICATION

Portuguese reference Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 6/10kV. Suitable for fixed installations, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
6/10 (12)kV

Test Voltage
21kV

Temperature Range
Fixed: -20°C to +90°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Stranded aluminium, conductor

Inner Layer
Semi-conductive material

Insulation
XLPE (Cross-Linked Polyethylene)

Outer Layer
Semi-conductive material and tape

Screen
Copper tape

Outer Sheath
PVC (Polyvinyl Chloride)

Sheath Colour
● Black

STANDARDS

IEC 60228, IEC 60502-2
Flame Retardant according to BS EN/IEC 60332-1-2

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.

UKAS ISO/IEC 17025 Testing laboratory accreditation 8578
bsi. ISO 9001 Quality Management FS 672069
ISO 14001 Environmental Management EMS 672067
ISO 45001 Occupational Health and Safety Management OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

bsi. RoHS Trusted KITEMARK™ KM 634267
RoHS

DIMENSIONS

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP3910K01025	1	25	14.5	22.0	505
MP3910K01035	1	35	15.5	23.0	560
MP3910K01050	1	50	17.0	24.5	615
MP3910K01070	1	70	18.5	26.0	705
MP3910K01095	1	95	20.0	28.0	830
MP3910K01120	1	120	22.0	29.5	950
MP3910K01150	1	150	23.0	31.0	1055
MP3910K01185	1	185	24.5	32.5	1205
MP3910K01240	1	240	27.0	35.0	1425
MP3910K01300	1	300	30.0	38.0	1695
MP3910K01400	1	400	32.5	41.0	2055
MP3910K01500	1	500	35.5	44.5	2450
MP3910K01630	1	630	40.5	49.0	3040
MP3910K03025	3	25	14.5	43.5	1935
MP3910K03035	3	35	15.5	46.0	2140
MP3910K03050	3	50	17.0	49.0	2395
MP3910K03070	3	70	18.5	52.5	2785
MP3910K03095	3	95	20.0	56.5	3270
MP3910K03120	3	120	22.0	60.5	3725
MP3910K03150	3	150	23.0	63.5	4170
MP3910K03185	3	185	24.5	67.0	4725
MP3910K03240	3	240	27.0	72.0	5750
MP3910K03300	3	300	30.0	79.0	6860
MP3910K03400	3	400	32.5	85.5	8390

ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR MAXIMUM SHORT CIRCUIT CURRENT T=1S kA	CONDUCTOR DC RESISTANCE AT 20°C ohm/km	INDUCTANCE mH/km	CAPACITANCE µF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
1	25	2.4	1.2000	0.43	0.22	124	124
1	35	3.3	0.8680	0.41	0.24	150	148
1	50	4.7	0.6410	0.39	0.26	179	175
1	70	6.6	0.4430	0.37	0.30	225	215
1	95	9.0	0.3200	0.35	0.33	274	258
1	120	11.3	0.2530	0.33	0.37	319	295
1	150	14.2	0.2060	0.32	0.39	361	330
1	185	17.5	0.1640	0.31	0.43	415	374
1	240	22.7	0.1250	0.30	0.47	493	435
1	300	28.3	0.1000	0.29	0.53	573	495
1	400	37.8	0.0778	0.28	0.59	671	567
1	500	47.2	0.0605	0.28	0.65	783	649
1	630	59.5	0.0469	0.27	0.75	926	745
3	25	2.4	1.2000	0.40	0.22	142	115
3	35	3.3	0.8680	0.39	0.24	170	136
3	50	4.7	0.6410	0.37	0.26	204	162
3	70	6.6	0.4430	0.34	0.30	253	198

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

ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR MAXIMUM SHORT CIRCUIT CURRENT T=1S kA	CONDUCTOR DC RESISTANCE AT 20°C ohm/km	INDUCTANCE mH/km	CAPACITANCE µF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
3	95	9.0	0.3200	0.32	0.33	304	235
3	120	11.3	0.2530	0.31	0.37	351	268
3	150	14.2	0.2060	0.30	0.39	398	303
3	185	17.5	0.1640	0.29	0.43	455	343
3	240	22.7	0.1250	0.28	0.47	531	397
3	300	28.3	0.1000	0.27	0.53	606	448
3	400	37.8	0.0778	0.26	0.59	696	511