LXHIE 12/20kV Cable

Eland Product Group: MP40

APPLICATION

Portuguese reference Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 12/20kV. 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)
12/20 (24)kV

Test Voltage
42kV

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

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Class 2 Aluminium, circular, stranded

Conductor Screen
Semi-conductive XLPE (Cross-Linked Polyethylene)

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Semi-conductive XLPE (Cross-Linked Polyethylene)

Metallic Screen
Copper tape screen

Sheath
PE (polyethylene)

Sheath Colour
●Black

STANDARDS

IEC 60228, IEC 60502-2

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
MP4020K01035	1	35	20,0	27,5	815
MP4020K01050	1	50	21,0	28,5	880
MP4020K01070	1	70	22,5	30,5	1005
MP4020K01095	1	95	24,5	32,5	1130
MP4020K01120	1	120	26,0	34,0	1275
MP4020K01150	1	150	27,5	35,5	1395
MP4020K01185	1	185	29,0	37,0	1565
MP4020K01240	1	240	31,0	39,5	1785
MP4020K01300	1	300	34,0	42,5	2065
MP4020K01400	1	400	37,0	45,5	2425
MP4020K01500	1	500	40,0	48,5	2825
MP4020K01630	1	630	44,5	53,5	3425
MP4020K03035	3	35	20,0	56,0	3315
MP4020K03050	3	50	21,0	58,5	3645
MP4020K03070	3	70	22,5	62,5	4145
MP4020K03095	3	95	24,5	66,5	4740
MP4020K03120	3	120	26,0	70,5	5285
MP4020K03150	3	150	27,5	73,5	5810
MP4020K03185	3	185	29,0	76,5	6450
MP4020K03240	3	240	31,0	82,0	7495
MP4020K03300	3	300	34,0	88,5	8640
MP4020K03400	3	400	37,0	95,0	10165

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	35	3,3	0,8680	0,44	0,17	154	148
1	50	4,7	0,6410	0,42	0,18	184	175
1	70	6,6	0,4430	0,40	0,21	230	215
1	95	9,0	0,3200	0,38	0,23	280	257
1	120	11,3	0,2530	0,36	0,25	325	294
1	150	14,2	0,2060	0,35	0,27	368	329
1	185	17,5	0,1640	0,34	0,29	422	373
1	240	22,7	0,1250	0,33	0,32	499	434
1	300	28,3	0,1000	0,32	0,35	579	493
1	400	37,8	0,0778	0,30	0,39	677	566
1	500	47,2	0,0605	0,30	0,43	789	647
1	630	59,5	0,0469	0,28	0,49	930	744
3	35	3,3	0,8680	0,43	0,17	170	136
3	50	4,7	0,6410	0,41	0,18	204	162
3	70	6,6	0,4430	0,38	0,21	253	198
3	95	9,0	0,3200	0,36	0,23	304	235
3	120	11,3	0,2530	0,34	0,25	351	268
3	150	14,2	0,2060	0,33	0,27	398	303
3	185	17,5	0,1640	0,32	0,29	455	343

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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	240	22,7	0,1250	0,31	0,32	531	397
3	300	28,3	0,1000	0,30	0,35	606	448
3	400	37,8	0,0778	0,29	0,39	696	511