



LXHIE 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 from 3.6/6kV to 18/30kV. Suitable for fixed installations, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

3.6/6 (7.2)kV,
6/10 (12)kV,
8.7/15 (17.5)kV,
12/20 (24)kV,
18/30 (36)kV

Test Voltage

3.6/6 (7.2)kV: 12.6kV
6/10 (12)kV: 21kV
8.7/15 (17.5)kV: 30kV
12/20 (24)kV: 42kV
18/30 (36)kV: 63kV

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

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
AMBITION FOR 1.5°C**



REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS 3.6/6 (7.2)kV

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP4006K01025	1	25	12.5	20.0	505
MP4006K01035	1	35	13.5	21.0	560
MP4006K01050	1	50	15.0	22.0	615
MP4006K01070	1	70	16.5	24.0	705
MP4006K01095	1	95	18.0	25.5	830
MP4006K01120	1	120	20.0	27.5	950
MP4006K01150	1	150	21.0	29.0	1055
MP4006K01185	1	185	22.5	30.5	1205
MP4006K01240	1	240	25.5	33.5	1425
MP4006K01300	1	300	28.5	37.0	1695
MP4006K01400	1	400	32.0	40.0	2055
MP4006K01500	1	500	35.0	43.5	2450
MP4006K01630	1	630	40.0	49.0	3040
MP4006K03025	3	25	12.5	39.0	1935
MP4006K03035	3	35	13.5	41.5	2140
MP4006K03050	3	50	15.0	44.0	2395
MP4006K03070	3	70	16.5	48.0	2785
MP4006K03095	3	95	18.0	52.0	3270
MP4006K03120	3	120	20.0	56.0	3725
MP4006K03150	3	150	21.0	59.0	4170
MP4006K03185	3	185	22.5	62.5	4725
MP4006K03240	3	240	25.5	68.5	5750
MP4006K03300	3	300	28.5	76.0	6860
MP4006K03400	3	400	32.0	83.5	8390

ELECTRICAL CHARACTERISTICS 3.6/6 (7.2)kV

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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	0.41	0.27	121	124
1	35	3.3	0.8680	0.39	0.30	147	148
1	50	4.7	0.6410	0.37	0.33	176	175
1	70	6.6	0.4430	0.35	0.38	221	215
1	95	9.0	0.3200	0.33	0.42	270	258
1	120	11.3	0.2530	0.32	0.47	315	295
1	150	14.2	0.2060	0.31	0.51	357	331
1	185	17.5	0.1640	0.30	0.55	411	375
1	240	22.7	0.1250	0.29	0.60	489	436
1	300	28.3	0.1000	0.28	0.63	571	495
1	400	37.8	0.0778	0.28	0.66	670	567
1	500	47.2	0.0605	0.27	0.69	782	649
1	630	59.5	0.0469	0.26	0.79	925	746
3	25	2.4	1.2000	0.38	0.27	142	115
3	35	3.3	0.8680	0.36	0.30	170	136
3	50	4.7	0.6410	0.35	0.33	204	162
3	70	6.6	0.4430	0.32	0.38	253	198

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.



ELECTRICAL CHARACTERISTICS 3.6/6 (7.2)kV

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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	0.30	0.42	304	235
3	120	11.3	0.2530	0.29	0.47	351	268
3	150	14.2	0.2060	0.29	0.51	398	303
3	185	17.5	0.1640	0.28	0.55	455	343
3	240	22.7	0.1250	0.27	0.60	531	397
3	300	28.3	0.1000	0.26	0.63	606	448
3	400	37.8	0.0778	0.26	0.66	696	511

DIMENSIONS 6/10 (12)kV

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP4010K01025	1	25	14.5	22.0	575
MP4010K01035	1	35	15.5	23.0	630
MP4010K01050	1	50	17.0	24.5	700
MP4010K01070	1	70	18.5	26.0	795
MP4010K01095	1	95	20.0	28.0	925
MP4010K01120	1	120	22.0	29.5	1040
MP4010K01150	1	150	23.0	31.0	1165
MP4010K01185	1	185	24.5	32.5	1305
MP4010K01240	1	240	27.0	35.0	1525
MP4010K01300	1	300	30.0	38.0	1785
MP4010K01400	1	400	32.5	41.0	2125
MP4010K01500	1	500	35.5	44.5	2500
MP4010K01630	1	630	40.5	49.0	3070
MP4010K03025	3	25	14.5	43.5	2255
MP4010K03035	3	35	15.5	46.0	2480
MP4010K03050	3	50	17.0	49.0	2765
MP4010K03070	3	70	18.5	52.5	3175
MP4010K03095	3	95	20.0	56.5	3720
MP4010K03120	3	120	22.0	60.5	4210
MP4010K03150	3	150	23.0	63.5	4680
MP4010K03185	3	185	24.5	67.0	5260
MP4010K03240	3	240	27.0	72.0	6170
MP4010K03300	3	300	30.0	79.0	7255
MP4010K03400	3	400	32.5	85.5	8620



ELECTRICAL CHARACTERISTICS 6/10 (12)kV

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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
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

DIMENSIONS 8.7/15 (17.5)kV

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP4015K01025	1	25	17.0	24.5	665
MP4015K01035	1	35	18.0	25.5	720
MP4015K01050	1	50	19.0	26.5	785
MP4015K01070	1	70	20.5	28.5	900
MP4015K01095	1	95	22.5	30.0	1020
MP4015K01120	1	120	24.0	32.0	1160
MP4015K01150	1	150	25.5	33.5	1270
MP4015K01185	1	185	27.0	35.0	1435
MP4015K01240	1	240	29.0	37.5	1665
MP4015K01300	1	300	32.0	40.5	1915
MP4015K01400	1	400	35.0	43.5	2270
MP4015K01500	1	500	38.0	46.5	2655
MP4015K01630	1	630	42.5	51.5	3240
MP4015K03025	3	25	17.0	49.0	2665
MP4015K03035	3	35	18.0	51.5	2905
MP4015K03050	3	50	19.0	54.0	3210
MP4015K03070	3	70	20.5	58.0	3650
MP4015K03095	3	95	22.5	61.5	4210



DIMENSIONS 8.7/15 (17.5)kV

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP4015K03120	3	120	24.0	65.5	4725
MP4015K03150	3	150	25.5	68.5	5285
MP4015K03185	3	185	27.0	72.0	5835
MP4015K03240	3	240	29.0	77.5	6830
MP4015K03300	3	300	32.0	84.0	7965
MP4015K03400	3	400	35.0	90.5	9390

ELECTRICAL CHARACTERISTICS 8.7/15 (17.5)kV

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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	0.45	0.18	126	124
1	35	3.3	0.8680	0.43	0.19	152	148
1	50	4.7	0.6410	0.41	0.21	182	175
1	70	6.6	0.4430	0.38	0.24	228	215
1	95	9.0	0.3200	0.36	0.27	277	257
1	120	11.3	0.2530	0.35	0.29	322	294
1	150	14.2	0.2060	0.34	0.31	365	330
1	185	17.5	0.1640	0.33	0.34	419	373
1	240	22.7	0.1250	0.32	0.37	496	434
1	300	28.3	0.1000	0.30	0.42	577	494
1	400	37.8	0.0778	0.29	0.46	675	566
1	500	47.2	0.0605	0.29	0.51	787	648
1	630	59.5	0.0469	0.27	0.58	929	745
3	25	2.4	1.2000	0.43	0.18	142	115
3	35	3.3	0.8680	0.41	0.19	170	136
3	50	4.7	0.6410	0.39	0.21	204	162
3	70	6.6	0.4430	0.36	0.24	253	198
3	95	9.0	0.3200	0.34	0.27	304	235
3	120	11.3	0.2530	0.33	0.29	351	268
3	150	14.2	0.2060	0.32	0.31	398	303
3	185	17.5	0.1640	0.31	0.34	455	343
3	240	22.7	0.1250	0.30	0.37	531	397
3	300	28.3	0.1000	0.29	0.42	606	448
3	400	37.8	0.0778	0.27	0.46	696	511

DIMENSIONS 12/20 (24)kV

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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



DIMENSIONS 12/20 (24)kV

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
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 12/20 (24)kV

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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
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



DIMENSIONS 18/30 (36)kV

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP4030K01050	1	50	26.0	34.0	1155
MP4030K01070	1	70	27.5	36.0	1275
MP4030K01095	1	95	29.5	37.5	1435
MP4030K01120	1	120	31.0	39.5	1575
MP4030K01150	1	150	32.5	41.0	1725
MP4030K01185	1	185	34.0	42.5	1890
MP4030K01240	1	240	36.0	45.0	2150
MP4030K01300	1	300	39.0	48.0	2460
MP4030K01400	1	400	42.0	51.0	2850
MP4030K01500	1	500	45.0	54.0	3275
MP4030K01630	1	630	49.5	59.0	3920
MP4030K03050	3	50	26.0	70.0	4915
MP4030K03070	3	70	27.5	74.0	5520
MP4030K03095	3	95	29.5	78.0	6170
MP4030K03120	3	120	31.0	82.0	6865
MP4030K03150	3	150	32.5	85.0	7375
MP4030K03185	3	185	34.0	88.5	8160
MP4030K03240	3	240	36.0	93.5	9190
MP4030K03300	3	300	39.0	100.0	10515
MP4030K03400	3	400	42.0	106.5	12115

ELECTRICAL CHARACTERISTICS 18/30 (36)kV

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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	50	4.7	0.6410	0.46	0.14	188	174
1	70	6.6	0.4430	0.43	0.16	234	214
1	95	9.0	0.3200	0.41	0.17	285	256
1	120	11.3	0.2530	0.39	0.19	330	293
1	150	14.2	0.2060	0.38	0.20	373	327
1	185	17.5	0.1640	0.37	0.21	427	371
1	240	22.7	0.1250	0.36	0.24	504	432
1	300	28.3	0.1000	0.34	0.26	584	491
1	400	37.8	0.0778	0.33	0.29	681	564
1	500	47.2	0.0605	0.32	0.31	792	646
1	630	59.5	0.0469	0.30	0.35	933	743
3	50	4.7	0.6410	0.45	0.14	204	162
3	70	6.6	0.4430	0.41	0.16	253	198
3	95	9.0	0.3200	0.39	0.17	304	235
3	120	11.3	0.2530	0.38	0.19	351	268
3	150	14.2	0.2060	0.37	0.20	398	303
3	185	17.5	0.1640	0.35	0.21	455	343
3	240	22.7	0.1250	0.34	0.24	531	397
3	300	28.3	0.1000	0.32	0.26	606	448
3	400	37.8	0.0778	0.31	0.29	696	511

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.