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**ELAND[®]
CABLES**

XHIV Cable



Eland Product Group: MP01

APPLICATION

Portuguese MV 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 including directly buried.

CHARACTERISTICS

Voltage Rating U₀/U (U_m)

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

Test Voltage

3.6/6kV: 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

Stranded copper 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

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



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 3.6/6kV

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
MP0106K01035	1	25	13.0	20.0	655
MP0106K01050	1	35	14.0	21.0	770
MP0106K01070	1	50	15.0	22.5	905
MP0106K01095	1	70	16.5	24.0	1120
MP0106K01120	1	95	18.5	26.0	1400
MP0106K01150	1	120	20.0	28.0	1675
MP0106K01185	1	150	21.0	29.0	1930
MP0106K01240	1	185	22.5	30.5	2305
MP0106K01300	1	240	25.5	33.5	2885
MP0106K01500	1	300	28.5	37.0	3555
MP0106K01630	1	400	32.0	40.5	4505
MP0106K01500	1	500	35.5	44.0	5480
MP0106K01630	1	630	41.0	47.5	7110
MP0106K03035	3	25	13.0	39.5	2395
MP0106K03050	3	35	14.0	42.0	2770
MP0106K03070	3	50	15.0	44.5	3270
MP0106K03095	3	70	16.5	48.5	4085
MP0106K03120	3	95	18.5	52.5	5005
MP0106K03150	3	120	20.0	56.5	5910
MP0106K03185	3	150	21.0	59.0	6825
MP0106K03240	3	185	22.5	62.0	8055
MP0106K03300	3	240	25.5	69.0	10280
MP0106K03500	3	300	28.5	76.0	12490
MP0106K03630	3	400	32.0	84.0	15820

ELECTRICAL CHARACTERISTICS 3.6/6kV

NO. 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	3.6	0.7270	0.41	0.27	157	160
1	35	5.0	0.5240	0.39	0.30	190	191
1	50	7.5	0.3870	0.37	0.33	229	227
1	70	10.0	0.2680	0.35	0.38	286	278
1	95	13.6	0.1930	0.33	0.43	350	333
1	120	17.2	0.1530	0.32	0.48	406	380
1	150	21.5	0.1240	0.31	0.51	461	426
1	185	26.5	0.0991	0.30	0.54	526	481
1	240	34.3	0.0754	0.29	0.60	630	560
1	300	42.9	0.0601	0.28	0.63	731	634
1	400	57.2	0.0470	0.28	0.66	851	721
1	500	71.5	0.0366	0.27	0.69	986	816
1	630	90.1	0.0283	0.27	0.76	1135	921



ELECTRICAL CHARACTERISTICS 3.6/6kV

NO. 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	25	3.6	0.7270	0.38	0.27	142	148
3	35	5.0	0.5240	0.36	0.30	170	175
3	50	7.5	0.3870	0.34	0.33	204	209
3	70	10.0	0.2680	0.32	0.38	253	256
3	95	13.6	0.1930	0.30	0.43	304	303
3	120	17.2	0.1530	0.29	0.48	351	345
3	150	21.5	0.1240	0.28	0.51	398	390
3	185	26.5	0.0991	0.28	0.54	455	440
3	240	34.3	0.0754	0.27	0.60	531	507
3	300	42.9	0.0601	0.26	0.63	606	571
3	400	57.2	0.0470	0.26	0.66	696	645

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
MP0110K01025	1	25	15.0	22.0	730
MP0110K01035	1	35	16.0	23.0	835
MP0110K01050	1	50	17.0	24.5	985
MP0110K01070	1	70	18.5	26.0	1210
MP0110K01095	1	95	20.5	28.0	1500
MP0110K01120	1	120	22.0	30.0	1760
MP0110K01150	1	150	23.0	31.0	2040
MP0110K01185	1	185	24.5	32.5	2405
MP0110K01240	1	240	27.0	35.5	2990
MP0110K01300	1	300	30.0	38.0	3640
MP0110K01400	1	400	33.0	41.5	4580
MP0110K01500	1	500	36.0	44.5	5530
MP0110K01630	1	630	41.5	48.0	7140
MP0110K03035	3	25	15.0	44.0	2715
MP0110K03050	3	35	16.0	46.5	3115
MP0110K03070	3	50	17.0	49.0	3640
MP0110K03095	3	70	18.5	53.0	4480
MP0110K03120	3	95	20.5	57.0	5460
MP0110K03150	3	120	22.0	61.0	6395
MP0110K03185	3	150	23.0	63.5	7335
MP0110K03240	3	185	24.5	66.5	8590
MP0110K03300	3	240	27.0	72.5	10605
MP0110K03500	3	300	30.0	79.0	12880
MP0110K03630	3	400	33.0	85.5	16050



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 uF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
1	25	3.6	0.7270	0.43	0.22	160	160
1	35	5.0	0.5240	0.41	0.24	194	191
1	50	7.5	0.3870	0.39	0.27	233	226
1	70	10.0	0.2680	0.36	0.30	291	278
1	95	13.6	0.1930	0.35	0.34	355	333
1	120	17.2	0.1530	0.33	0.37	411	380
1	150	21.5	0.1240	0.32	0.39	466	426
1	185	26.5	0.0991	0.32	0.42	532	480
1	240	34.3	0.0754	0.30	0.48	634	559
1	300	42.9	0.0601	0.29	0.53	733	633
1	400	57.2	0.0470	0.28	0.59	853	720
1	500	71.5	0.0366	0.27	0.65	987	817
1	630	90.1	0.0283	0.27	0.72	1136	920
3	25	3.6	0.7270	0.40	0.22	142	148
3	35	5.0	0.5240	0.38	0.24	170	175
3	50	7.5	0.3870	0.37	0.27	204	209
3	70	10.0	0.2680	0.34	0.30	253	256
3	95	13.6	0.1930	0.32	0.34	304	303
3	120	17.2	0.1530	0.31	0.37	351	345
3	150	21.5	0.1240	0.30	0.39	398	390
3	185	26.5	0.0991	0.29	0.42	455	440
3	240	34.3	0.0754	0.28	0.48	531	507
3	300	42.9	0.0601	0.27	0.53	606	571
3	400	57.2	0.0470	0.26	0.59	696	645

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
MP0115K01025	1	25	17,0	24,4	820
MP0115K01035	1	35	18,0	25,5	930
MP0115K01050	1	50	19,0	26,5	1075
MP0115K01070	1	70	21,0	28,5	1320
MP0115K01095	1	95	22,5	30,5	1595
MP0115K01120	1	120	24,5	32,0	1880
MP0115K01150	1	150	25,5	33,5	2145
MP0115K01185	1	185	26,5	35,0	2535
MP0115K01240	1	240	29,5	37,5	3130
MP0115K01300	1	300	32,0	40,5	3775
MP0115K01400	1	400	35,0	43,5	4720
MP0115K01300	1	500	38,0	47,0	5685
MP0115K01400	1	630	44,0	50,5	7315
MP0115K03025	3	25	17,0	49,0	3125
MP0115K03035	3	35	18,0	51,5	3540
MP0115K03050	3	50	19,0	54,5	4135
MP0115K03070	3	70	21,0	58,0	4965



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
MP0115K03095	3	95	22.5	62.0	5950
MP0115K03120	3	120	24.5	66.0	6915
MP0115K03150	3	150	25.5	68.5	7940
MP0115K03185	3	185	26.5	71.5	9160
MP0115K03240	3	240	29.5	78.0	11265
MP0115K03300	3	300	32.0	84.0	13595
MP0115K03400	3	400	35.0	90.5	16825

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	3.6	0.7270	0.45	0.18	163	159
1	35	5.0	0.5240	0.43	0.20	197	191
1	50	7.5	0.3870	0.41	0.21	236	226
1	70	10.0	0.2680	0.38	0.24	295	277
1	95	13.6	0.1930	0.36	0.27	359	333
1	120	17.2	0.1530	0.35	0.29	416	379
1	150	21.5	0.1240	0.34	0.31	471	425
1	185	26.5	0.0991	0.33	0.33	537	479
1	240	34.3	0.0754	0.32	0.38	639	558
1	300	42.9	0.0601	0.30	0.42	738	632
1	400	57.2	0.0470	0.29	0.46	858	720
1	500	71.5	0.0366	0.28	0.51	993	817
1	630	90.1	0.0283	0.28	0.56	1143	922
3	25	3.6	0.7270	0.43	0.18	142	148
3	35	5.0	0.5240	0.41	0.20	170	175
3	50	7.5	0.3870	0.39	0.21	204	209
3	70	10.0	0.2680	0.36	0.24	253	256
3	95	13.6	0.1930	0.34	0.27	304	303
3	120	17.2	0.1530	0.33	0.29	351	345
3	150	21.5	0.1240	0.32	0.31	398	390
3	185	26.5	0.0991	0.31	0.33	455	440
3	240	34.3	0.0754	0.30	0.38	531	507
3	300	42.9	0.0601	0.29	0.42	606	571
3	400	57.2	0.0470	0.27	0.46	696	645



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
MP0120K01035	1	35	20.0	27.5	1025
MP0120K01050	1	50	21.0	29.0	1170
MP0120K01070	1	70	23.0	31.0	1425
MP0120K01095	1	95	24.5	32.5	1705
MP0120K01120	1	120	26.5	34.5	2000
MP0120K01150	1	150	27.5	35.5	2270
MP0120K01185	1	185	28.5	37.0	2660
MP0120K01240	1	240	31.5	39.5	3250
MP0120K01300	1	300	34.0	42.5	3920
MP0120K01400	1	400	37.0	45.5	4880
MP0120K01500	1	500	40.0	49.0	5855
MP0120K01630	1	630	46.0	52.5	7510
MP0120K03035	3	35	20.0	56.0	3950
MP0120K03050	3	50	21.0	59.0	4525
MP0120K03070	3	70	23.0	63.0	5470
MP0120K03095	3	95	24.5	67.0	6485
MP0120K03120	3	120	26.5	70.5	7480
MP0120K03150	3	150	27.5	73.5	8465
MP0120K03185	3	185	28.5	76.5	9775
MP0120K03240	3	240	31.5	82.5	11930
MP0120K03300	3	300	34.0	88.5	14270
MP0120K03400	3	400	37.0	95.5	17600

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	5.0	0.5240	0.44	0.17	199	191
1	50	7.5	0.3870	0.42	0.19	239	226
1	70	10.0	0.2680	0.40	0.21	298	277
1	95	13.6	0.1930	0.38	0.23	362	332
1	120	17.2	0.1530	0.36	0.25	419	379
1	150	21.5	0.1240	0.35	0.27	474	424
1	185	26.5	0.0991	0.34	0.28	541	479
1	240	34.3	0.0754	0.33	0.32	643	557
1	300	42.9	0.0601	0.32	0.35	742	631
1	400	57.2	0.0470	0.30	0.39	862	720
1	500	71.5	0.0366	0.29	0.43	997	817
1	630	90.1	0.0283	0.29	0.47	1153	928
3	35	5.0	0.5240	0.43	0.17	170	175
3	50	7.5	0.3870	0.41	0.19	204	209
3	70	10.0	0.2680	0.37	0.21	253	256
3	95	13.6	0.1930	0.36	0.23	304	303
3	120	17.2	0.1530	0.34	0.25	351	345
3	150	21.5	0.1240	0.33	0.27	398	390
3	185	26.5	0.0991	0.32	0.28	455	440
3	240	34.3	0.0754	0.31	0.32	531	507
3	300	42.9	0.0601	0.30	0.35	606	571
3	400	57.2	0.0470	0.29	0.39	696	645



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
MP0130K01050	1	50	26.0	34.5	1445
MP0130K01070	1	70	28.0	36.0	1695
MP0130K01095	1	95	29.5	38.0	2105
MP0130K01120	1	120	31.5	39.5	2300
MP0130K01150	1	150	32.5	41.0	2600
MP0130K01185	1	185	33.5	42.0	2985
MP0130K01240	1	240	36.5	45.0	3620
MP0130K01300	1	300	39.0	48.0	4315
MP0130K01400	1	400	42.0	51.0	5305
MP0130K01500	1	500	39.0	54.5	6310
MP0130K01630	1	630	42.0	58.0	8010
MP0130K03050	3	50	26.0	70.5	5800
MP0130K03070	3	70	28.0	74.5	6795
MP0130K03095	3	95	29.5	78.5	7985
MP0130K03120	3	120	31.5	82.5	9060
MP0130K03150	3	150	32.5	85.0	10030
MP0130K03185	3	185	33.5	88.0	11475
MP0130K03240	3	240	36.5	94.0	13630
MP0130K03300	3	300	39.0	100.0	16145
MP0130K03400	3	400	42.0	107.0	19650

ELECTRICAL CHARACTERISTICS 18/30 (36)kV

NO. 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	7.5	0.3870	0.46	0.14	244	225
1	70	10.0	0.2680	0.43	0.16	303	276
1	95	13.6	0.1930	0.41	0.18	368	331
1	120	17.2	0.1530	0.39	0.19	425	377
1	150	21.5	0.1240	0.38	0.20	481	422
1	185	26.5	0.0991	0.37	0.21	547	474
1	240	34.3	0.0754	0.35	0.24	649	556
1	300	42.9	0.0601	0.34	0.26	748	630
1	400	57.2	0.0470	0.33	0.29	868	718
1	500	71.5	0.0366	0.32	0.31	1003	816
1	630	90.1	0.0283	0.31	0.34	1154	923
3	50	7.5	0.3870	0.45	0.14	204	162
3	70	10.0	0.2680	0.41	0.16	253	198
3	95	13.6	0.1930	0.39	0.18	304	235
3	120	17.2	0.1530	0.38	0.19	351	268
3	150	21.5	0.1240	0.36	0.20	398	303
3	185	26.5	0.0991	0.35	0.21	455	343
3	240	34.3	0.0754	0.34	0.24	531	397
3	300	42.9	0.0601	0.32	0.26	606	448
3	400	57.2	0.0470	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.