

LXHIOV XLPE PVC - 8.7/15 (17.5)kV Cable



Eland Product Group: MP05

APPLICATION

Cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up 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 U₀/U (Um)
8.7/15 (17.5)kV

Test Voltage
30kV

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 wire screen

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.



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™.





DIMENSIONS

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
MP0515K01025	1	25	17.0	24.5	665
MP0515K01035	1	35	18.0	25.5	720
MP0515K01050	1	50	19.0	26.5	785
MP0515K01070	1	70	20.5	28.5	900
MP0515K01095	1	95	22.5	30.0	1020
MP0515K01120	1	120	24.0	32.0	1160
MP0515K01150	1	150	25.5	33.5	1270
MP0515K01185	1	185	27.0	35.0	1435
MP0515K01240	1	240	29.0	37.5	1665
MP0515K01300	1	300	32.0	40.5	1915
MP0515K01400	1	400	35.0	43.5	2270
MP0515K01500	1	500	38.0	46.5	2655
MP0515K01600	1	630	42.5	51.5	3240
MP0515K03025	3	25	17.0	49.0	2665
MP0515K03035	3	35	18.0	51.5	2905
MP0515K03050	3	50	19.0	54.0	3210
MP0515K03070	3	70	20.5	58.0	3650
MP0515K03095	3	95	22.5	61.5	4210
MP0515K03120	3	120	24.0	65.5	4725
MP0515K03150	3	150	25.5	68.5	5285
MP0515K03185	3	185	27.0	72.0	5835
MP0515K03240	3	240	29.0	77.5	6830
MP0515K03300	3	300	32.0	84.0	7965
MP0515K03400	3	400	35.0	90.5	9390

ELECTRICAL CHARACTERISTICS

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

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

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	0.34	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

