

XHIOE(cbe) 8.7/15kV Cable



Eland Product Group: MP08

APPLICATION

Portuguese referenced Medium Voltage cable with additional waterblocking properties for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 8.7/15kV. Suitable for fixed installations, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

CHARACTERISTICS

Voltage Rating U_o/U (U_m)
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
Stranded copper conductor

Tape 1
Waterblocking tape

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

Insulation
XLPE (Cross-Linked Polyethylene)

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

Metallic Screen
Copper wires

Tape 2
Waterblocking yarn

Outer 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.



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
MP0815K01025	1	25	17.0	24.5	820
MP0815K01035	1	35	18.0	25.5	930
MP0815K01050	1	50	19.0	26.5	1 075
MP0815K01070	1	70	21.0	28.5	1 320
MP0815K01095	1	95	22.5	30.5	1 595
MP0815K01120	1	120	24.5	32.0	1 880
MP0815K01150	1	150	25.5	33.5	2 145
MP0815K01185	1	185	26.5	35.0	2 535
MP0815K01240	1	240	29.5	37.5	3 130
MP0815K01300	1	300	32.0	40.5	3 775
MP0815K01400	1	400	35.0	43.5	4 720
MP0815K01500	1	500	38.0	47.0	5 685
MP0815K01600	1	630	44.0	50.5	7 315
MP0815K03025	3	25	17.0	49.0	3 125
MP0815K03035	3	35	18.0	51.5	3 540
MP0815K03050	3	50	19.0	54.5	4 135
MP0815K03070	3	70	21.0	58.0	4 965
MP0815K03095	3	95	22.5	62.0	5 950
MP0815K03120	3	120	24.5	66.0	6 915
MP0815K03150	3	150	25.5	68.5	7 940
MP0815K03185	3	185	26.5	71.5	9 160
MP0815K03240	3	240	29.5	78.0	11 265
MP0815K03300	3	300	32.0	84.0	13 595
MP0815K03400	3	400	35.0	90.5	16 825

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 uF/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	1 143	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

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 uF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
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

