

# XHIOE(cbe) 18/30kV Cable



Eland Product Group: MP08

## APPLICATION

Portuguese referenced Medium Voltage cable with additional waterblocking 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**  $U_0/U$  (Um)  
18/30 (36)kV

**Test Voltage**  
63kV

**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**  
Waterblocking yarn

**Outer Sheath**  
PE (Polyethylene)

**Sheath Colour**  
● Black

## STANDARDS

IEC 60228, IEC 60502-2

## THE CABLE LAB®

AN ISO/IEC 17025 AND IECCE 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](http://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

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP0830K01050	1	50	26.0	34.5	1445
MP0830K01070	1	70	28.0	36.0	1695
MP0830K01095	1	95	29.5	38.0	2015
MP0830K01120	1	120	31.5	39.5	2300
MP0830K01150	1	150	32.5	41.0	2600
MP0830K01185	1	185	33.5	42.0	2985
MP0830K01240	1	240	36.5	45.0	3620
MP0830K01300	1	300	39.0	48.0	4315
MP0830K01400	1	400	42.0	51.0	5305
MP0830K01500	1	500	45.0	54.5	6310
MP0830K01630	1	630	51.0	58.0	8010
MP0830K03050	3	50	26.0	70.5	5800
MP0830K03070	3	70	28.0	74.5	6795
MP0830K03095	3	95	29.5	78.5	7985
MP0830K03120	3	120	31.5	82.5	9060
MP0830K03150	3	150	32.5	85.0	10030
MP0830K03185	3	185	33.5	88.0	11475
MP0830K03240	3	240	36.5	94.0	13630
MP0830K03300	3	300	39.0	100.0	16145
MP0830K03400	3	400	42.0	107.0	19650

## ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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	0.42	0.21	236	226
1	70	10.0	0.2680	0.40	0.24	295	277
1	95	13.6	0.1930	0.38	0.27	359	333
1	120	17.2	0.1530	0.36	0.29	416	379
1	150	21.5	0.1240	0.35	0.31	471	425
1	185	26.5	0.0991	0.34	0.33	537	479
1	240	34.3	0.0754	0.33	0.38	639	558
1	300	42.9	0.0601	0.32	0.42	738	632
1	400	57.2	0.0470	0.30	0.46	858	720
1	500	71.5	0.0366	0.29	0.51	993	817
1	630	90.1	0.0283	0.29	0.56	1 143	922
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	0.27	0.31	398	390
3	185	26.5	0.0991	0.28	0.33	455	440
3	240	34.3	0.0754	0.32	0.38	531	507
3	300	42.9	0.0601	0.35	0.42	606	571
3	400	57.2	0.0470	0.39	0.46	696	645

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.