

# LXHIOE(cbe) 12/20kV Cable



Eland Product Group: MP10

## APPLICATION

Portuguese reference Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 12/20kV. Suitable for fixed installations, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

## CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U (Um)  
12/20 (24)kV

**Test Voltage**  
42kV

**Temperature Range**  
Fixed: -20°C to +90°C

**Minimum Bending Radius**  
15 x overall diameter

## CONSTRUCTION

**Conductor**  
Class 2 Aluminium, circular, stranded

**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)

**Metallic Screen**  
Copper wire screen

**Tape 2**  
Waterblocking yarns

**Sheath**  
PE (polyethylene)

**Sheath Colour**  
●Black

## STANDARDS

IEC 60228, IEC 60502-2

## THE CABLE LAB<sup>®</sup>

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](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<sup>®</sup>.





## 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
MP1020K01035	1	35	20,0	27,5	815
MP1020K01050	1	50	21,0	28,5	880
MP1020K01070	1	70	22,5	30,5	1005
MP1020K01095	1	95	24,5	32,5	1130
MP1020K01120	1	120	26,0	34,0	1275
MP1020K01150	1	150	27,5	35,5	1395
MP1020K01185	1	185	29,0	37,0	1565
MP1020K01240	1	240	31,0	39,5	1785
MP1020K01300	1	300	34,0	42,5	2065
MP1020K01400	1	400	37,0	45,5	2425
MP1020K01500	1	500	40,0	48,5	2825
MP1020K01630	1	630	44,5	53,5	3425
MP1020K03035	3	35	20,0	56,0	3315
MP1020K03050	3	50	21,0	58,5	3645
MP1020K03070	3	70	22,5	62,5	4145
MP1020K03095	3	95	24,5	66,5	4740
MP1020K03120	3	120	26,0	70,5	5285
MP1020K03150	3	150	27,5	73,5	5810
MP1020K03185	3	185	29,0	76,5	6450
MP1020K03240	3	240	31,0	82,0	7495
MP1020K03300	3	300	34,0	88,5	8640
MP1020K03400	3	400	37,0	95,0	10165

## 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	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

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 <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
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