

# XHIE 12/20kV Cable



Eland Product Group: MP02

## APPLICATION

Portuguese MV Cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages to 12/20kV. Suitable for fixed installations, indoor or outdoor including directly buried.

## CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U (U<sub>m</sub>)  
12/20 (24)kV

**Test Voltage**  
42kV

### Temperature Range

Conductor maximum operating temperature: +90°C  
Maximum short-circuit temperature: 250°C

### Minimum Bending Radius

During installation: 20 x overall diameter  
After installation: 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

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 <sup>2</sup>	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP2120K01035	1	35	20.0	27.5	1025
MP0220K01050	1	50	21.0	29.0	1170
MP0220K01070	1	70	23.0	31.0	1425
MP0220K01095	1	95	24.5	32.5	1705
MP0220K01120	1	120	26.5	34.5	2000
MP0220K01150	1	150	27.5	35.5	2270
MP0220K01185	1	185	28.5	37.0	2660
MP0220K01240	1	240	31.5	39.5	3250
MP0220K01300	1	300	34.0	42.5	3920
MP0220K01400	1	400	37.0	45.5	4880
MP0220K01500	1	500	40.0	49.0	5855
MP0220K01630	1	630	46.0	52.5	7510
MP0220K03035	3	35	20.0	56.0	3950
MP0220K03050	3	50	21.0	59.0	4525
MP0220K03070	3	70	23.0	63.0	5470
MP0220K03095	3	95	24.5	67.0	6485
MP0220K03120	3	120	26.5	70.5	7480
MP0220K03150	3	150	27.5	73.5	8465
MP0220K03185	3	185	28.5	76.5	9775
MP0220K03240	3	240	31.5	82.5	11930
MP0220K03300	3	300	34.0	88.5	14270
MP0220K03400	3	400	37.0	95.5	17600

## 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	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

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.