

XHIOV 12/20kV Cable



Eland Product Group: MP03

APPLICATION

Portuguese referenced 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 U₀/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
Stranded copper conductor

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

Outer 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
MP0320K01035	1	35	20.0	27.5	1025
MP0320K01050	1	50	21.0	29.0	1170
MP0320K01070	1	70	23.0	31.0	1425
MP0320K01095	1	95	24.5	32.5	1705
MP0320K01120	1	120	26.5	34.5	2000
MP0320K01150	1	150	27.5	35.5	2270
MP0320K01185	1	185	28.5	37.0	2660
MP0320K01240	1	240	31.5	39.5	3250
MP0320K01300	1	300	34.0	42.5	3920
MP0320K01400	1	400	37.0	45.5	4880
MP0320K01500	1	500	40.0	49.0	5855
MP0320K01630	1	630	46.0	52.5	7510
MP0320K03035	3	35	20.0	56.0	3950
MP0320K03050	3	50	21.0	59.0	4525
MP0320K03070	3	70	23.0	63.0	5470
MP0320K03095	3	95	24.5	67.0	6485
MP0320K03120	3	120	26.5	70.5	7480
MP0320K03150	3	150	27.5	73.5	8465
MP0320K03185	3	185	28.5	76.5	9775
MP0320K03240	3	240	31.5	82.5	11930
MP0320K03300	3	300	34.0	88.5	14270
MP0320K03400	3	400	37.0	95.5	17600

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	35	5.0	0.5240	0.44	0.20	197	191
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	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

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	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

