



LXHIE Cable



Eland Product Group: MP40

APPLICATION

Portuguese reference Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages from 3.6/6kV 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)

3.6/6 (7.2)kV,
6/10 (12)kV,
8.7/15 (17.5)kV,
12/20 (24)kV,
18/30 (36)kV

Test Voltage

3.6/6 (7.2)kV: 12.6kV
6/10 (12)kV: 21kV
8.7/15 (17.5)kV: 30kV
12/20 (24)kV: 42kV
18/30 (36)kV: 63kV

Temperature Range

Fixed: -20°C to +90°C

Minimum Bending Radius

15 x Overall diameter

CONSTRUCTION

Conductor

Class 2 Aluminium, circular, stranded

Conductor Screen

Semi-conductive XLPE (Cross-Linked Polyethylene)

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive XLPE (Cross-Linked Polyethylene)

Metallic Screen

Copper tape screen

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 3.6/6 (7.2)kV

| 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 |
|----------------|--------------|---|--|--------------------------------|-------------------------|
| MP4006K01025 | 1 | 25 | 12.5 | 20.0 | 505 |
| MP4006K01035 | 1 | 35 | 13.5 | 21.0 | 560 |
| MP4006K01050 | 1 | 50 | 15.0 | 22.0 | 615 |
| MP4006K01070 | 1 | 70 | 16.5 | 24.0 | 705 |
| MP4006K01095 | 1 | 95 | 18.0 | 25.5 | 830 |
| MP4006K01120 | 1 | 120 | 20.0 | 27.5 | 950 |
| MP4006K01150 | 1 | 150 | 21.0 | 29.0 | 1055 |
| MP4006K01185 | 1 | 185 | 22.5 | 30.5 | 1205 |
| MP4006K01240 | 1 | 240 | 25.5 | 33.5 | 1425 |
| MP4006K01300 | 1 | 300 | 28.5 | 37.0 | 1695 |
| MP4006K01400 | 1 | 400 | 32.0 | 40.0 | 2055 |
| MP4006K01500 | 1 | 500 | 35.0 | 43.5 | 2450 |
| MP4006K01630 | 1 | 630 | 40.0 | 49.0 | 3040 |
| MP4006K03025 | 3 | 25 | 12.5 | 39.0 | 1935 |
| MP4006K03035 | 3 | 35 | 13.5 | 41.5 | 2140 |
| MP4006K03050 | 3 | 50 | 15.0 | 44.0 | 2395 |
| MP4006K03070 | 3 | 70 | 16.5 | 48.0 | 2785 |
| MP4006K03095 | 3 | 95 | 18.0 | 52.0 | 3270 |
| MP4006K03120 | 3 | 120 | 20.0 | 56.0 | 3725 |
| MP4006K03150 | 3 | 150 | 21.0 | 59.0 | 4170 |
| MP4006K03185 | 3 | 185 | 22.5 | 62.5 | 4725 |
| MP4006K03240 | 3 | 240 | 25.5 | 68.5 | 5750 |
| MP4006K03300 | 3 | 300 | 28.5 | 76.0 | 6860 |
| MP4006K03400 | 3 | 400 | 32.0 | 83.5 | 8390 |

ELECTRICAL CHARACTERISTICS 3.6/6 (7.2)kV

| 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 μF/km | CURRENT CARRYING CAPACITY Amps | |
|--------------|---|--|---|---------------------|----------------------|-----------------------------------|--------|
| | | | | | | In Air | Buried |
| 1 | 25 | 2.4 | 1.2000 | 0.41 | 0.27 | 121 | 124 |
| 1 | 35 | 3.3 | 0.8680 | 0.39 | 0.30 | 147 | 148 |
| 1 | 50 | 4.7 | 0.6410 | 0.37 | 0.33 | 176 | 175 |
| 1 | 70 | 6.6 | 0.4430 | 0.35 | 0.38 | 221 | 215 |
| 1 | 95 | 9.0 | 0.3200 | 0.33 | 0.42 | 270 | 258 |
| 1 | 120 | 11.3 | 0.2530 | 0.32 | 0.47 | 315 | 295 |
| 1 | 150 | 14.2 | 0.2060 | 0.31 | 0.51 | 357 | 331 |
| 1 | 185 | 17.5 | 0.1640 | 0.30 | 0.55 | 411 | 375 |
| 1 | 240 | 22.7 | 0.1250 | 0.29 | 0.60 | 489 | 436 |
| 1 | 300 | 28.3 | 0.1000 | 0.28 | 0.63 | 571 | 495 |
| 1 | 400 | 37.8 | 0.0778 | 0.28 | 0.66 | 670 | 567 |
| 1 | 500 | 47.2 | 0.0605 | 0.27 | 0.69 | 782 | 649 |
| 1 | 630 | 59.5 | 0.0469 | 0.26 | 0.79 | 925 | 746 |
| 3 | 25 | 2.4 | 1.2000 | 0.38 | 0.27 | 142 | 115 |
| 3 | 35 | 3.3 | 0.8680 | 0.36 | 0.30 | 170 | 136 |
| 3 | 50 | 4.7 | 0.6410 | 0.35 | 0.33 | 204 | 162 |
| 3 | 70 | 6.6 | 0.4430 | 0.32 | 0.38 | 253 | 198 |

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 3.6/6 (7.2)kV

| 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 μF/km | CURRENT CARRYING CAPACITY Amps | |
|--------------|---|--|---|---------------------|----------------------|-----------------------------------|--------|
| | | | | | | In Air | Buried |
| 3 | 95 | 9.0 | 0.3200 | 0.30 | 0.42 | 304 | 235 |
| 3 | 120 | 11.3 | 0.2530 | 0.29 | 0.47 | 351 | 268 |
| 3 | 150 | 14.2 | 0.2060 | 0.29 | 0.51 | 398 | 303 |
| 3 | 185 | 17.5 | 0.1640 | 0.28 | 0.55 | 455 | 343 |
| 3 | 240 | 22.7 | 0.1250 | 0.27 | 0.60 | 531 | 397 |
| 3 | 300 | 28.3 | 0.1000 | 0.26 | 0.63 | 606 | 448 |
| 3 | 400 | 37.8 | 0.0778 | 0.26 | 0.66 | 696 | 511 |

DIMENSIONS 6/10 (12)kV

| 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 |
|----------------|--------------|---|--|--------------------------------|-------------------------|
| MP4010K01025 | 1 | 25 | 14.5 | 22.0 | 575 |
| MP4010K01035 | 1 | 35 | 15.5 | 23.0 | 630 |
| MP4010K01050 | 1 | 50 | 17.0 | 24.5 | 700 |
| MP4010K01070 | 1 | 70 | 18.5 | 26.0 | 795 |
| MP4010K01095 | 1 | 95 | 20.0 | 28.0 | 925 |
| MP4010K01120 | 1 | 120 | 22.0 | 29.5 | 1040 |
| MP4010K01150 | 1 | 150 | 23.0 | 31.0 | 1165 |
| MP4010K01185 | 1 | 185 | 24.5 | 32.5 | 1305 |
| MP4010K01240 | 1 | 240 | 27.0 | 35.0 | 1525 |
| MP4010K01300 | 1 | 300 | 30.0 | 38.0 | 1785 |
| MP4010K01400 | 1 | 400 | 32.5 | 41.0 | 2125 |
| MP4010K01500 | 1 | 500 | 35.5 | 44.5 | 2500 |
| MP4010K01630 | 1 | 630 | 40.5 | 49.0 | 3070 |
| MP4010K03025 | 3 | 25 | 14.5 | 43.5 | 2255 |
| MP4010K03035 | 3 | 35 | 15.5 | 46.0 | 2480 |
| MP4010K03050 | 3 | 50 | 17.0 | 49.0 | 2765 |
| MP4010K03070 | 3 | 70 | 18.5 | 52.5 | 3175 |
| MP4010K03095 | 3 | 95 | 20.0 | 56.5 | 3720 |
| MP4010K03120 | 3 | 120 | 22.0 | 60.5 | 4210 |
| MP4010K03150 | 3 | 150 | 23.0 | 63.5 | 4680 |
| MP4010K03185 | 3 | 185 | 24.5 | 67.0 | 5260 |
| MP4010K03240 | 3 | 240 | 27.0 | 72.0 | 6170 |
| MP4010K03300 | 3 | 300 | 30.0 | 79.0 | 7255 |
| MP4010K03400 | 3 | 400 | 32.5 | 85.5 | 8620 |



ELECTRICAL CHARACTERISTICS 6/10 (12)kV

| 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 μF/km | CURRENT CARRYING CAPACITY Amps | |
|--------------|---|--|---|---------------------|----------------------|-----------------------------------|--------|
| | | | | | | In Air | Buried |
| 1 | 25 | 2.4 | 1.2000 | 0.43 | 0.22 | 124 | 124 |
| 1 | 35 | 3.3 | 0.8680 | 0.41 | 0.24 | 150 | 148 |
| 1 | 50 | 4.7 | 0.6410 | 0.39 | 0.26 | 179 | 175 |
| 1 | 70 | 6.6 | 0.4430 | 0.37 | 0.30 | 225 | 215 |
| 1 | 95 | 9.0 | 0.3200 | 0.35 | 0.33 | 274 | 258 |
| 1 | 120 | 11.3 | 0.2530 | 0.33 | 0.37 | 319 | 295 |
| 1 | 150 | 14.2 | 0.2060 | 0.32 | 0.39 | 361 | 330 |
| 1 | 185 | 17.5 | 0.1640 | 0.31 | 0.43 | 415 | 374 |
| 1 | 240 | 22.7 | 0.1250 | 0.30 | 0.47 | 493 | 435 |
| 1 | 300 | 28.3 | 0.1000 | 0.29 | 0.53 | 573 | 495 |
| 1 | 400 | 37.8 | 0.0778 | 0.28 | 0.59 | 671 | 567 |
| 1 | 500 | 47.2 | 0.0605 | 0.28 | 0.65 | 783 | 649 |
| 1 | 630 | 59.5 | 0.0469 | 0.27 | 0.75 | 926 | 745 |
| 3 | 25 | 2.4 | 1.2000 | 0.40 | 0.22 | 142 | 115 |
| 3 | 35 | 3.3 | 0.8680 | 0.39 | 0.24 | 170 | 136 |
| 3 | 50 | 4.7 | 0.6410 | 0.37 | 0.26 | 204 | 162 |
| 3 | 70 | 6.6 | 0.4430 | 0.34 | 0.30 | 253 | 198 |
| 3 | 95 | 9.0 | 0.3200 | 0.32 | 0.33 | 304 | 235 |
| 3 | 120 | 11.3 | 0.2530 | 0.31 | 0.37 | 351 | 268 |
| 3 | 150 | 14.2 | 0.2060 | 0.30 | 0.39 | 398 | 303 |
| 3 | 185 | 17.5 | 0.1640 | 0.29 | 0.43 | 455 | 343 |
| 3 | 240 | 22.7 | 0.1250 | 0.28 | 0.47 | 531 | 397 |
| 3 | 300 | 28.3 | 0.1000 | 0.27 | 0.53 | 606 | 448 |
| 3 | 400 | 37.8 | 0.0778 | 0.26 | 0.59 | 696 | 511 |

DIMENSIONS 8.7/15 (17.5)kV

| 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 |
|----------------|--------------|---|--|--------------------------------|-------------------------|
| MP4015K01025 | 1 | 25 | 17.0 | 24.5 | 665 |
| MP4015K01035 | 1 | 35 | 18.0 | 25.5 | 720 |
| MP4015K01050 | 1 | 50 | 19.0 | 26.5 | 785 |
| MP4015K01070 | 1 | 70 | 20.5 | 28.5 | 900 |
| MP4015K01095 | 1 | 95 | 22.5 | 30.0 | 1020 |
| MP4015K01120 | 1 | 120 | 24.0 | 32.0 | 1160 |
| MP4015K01150 | 1 | 150 | 25.5 | 33.5 | 1270 |
| MP4015K01185 | 1 | 185 | 27.0 | 35.0 | 1435 |
| MP4015K01240 | 1 | 240 | 29.0 | 37.5 | 1665 |
| MP4015K01300 | 1 | 300 | 32.0 | 40.5 | 1915 |
| MP4015K01400 | 1 | 400 | 35.0 | 43.5 | 2270 |
| MP4015K01500 | 1 | 500 | 38.0 | 46.5 | 2655 |
| MP4015K01630 | 1 | 630 | 42.5 | 51.5 | 3240 |
| MP4015K03025 | 3 | 25 | 17.0 | 49.0 | 2665 |
| MP4015K03035 | 3 | 35 | 18.0 | 51.5 | 2905 |
| MP4015K03050 | 3 | 50 | 19.0 | 54.0 | 3210 |
| MP4015K03070 | 3 | 70 | 20.5 | 58.0 | 3650 |
| MP4015K03095 | 3 | 95 | 22.5 | 61.5 | 4210 |



DIMENSIONS 8.7/15 (17.5)kV

| 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 |
|----------------|--------------|---|--|--------------------------------|-------------------------|
| MP4015K03120 | 3 | 120 | 24.0 | 65.5 | 4725 |
| MP4015K03150 | 3 | 150 | 25.5 | 68.5 | 5285 |
| MP4015K03185 | 3 | 185 | 27.0 | 72.0 | 5835 |
| MP4015K03240 | 3 | 240 | 29.0 | 77.5 | 6830 |
| MP4015K03300 | 3 | 300 | 32.0 | 84.0 | 7965 |
| MP4015K03400 | 3 | 400 | 35.0 | 90.5 | 9390 |

ELECTRICAL CHARACTERISTICS 8.7/15 (17.5)kV

| 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 μF/km | CURRENT CARRYING CAPACITY Amps | |
|--------------|---|--|---|---------------------|----------------------|-----------------------------------|--------|
| | | | | | | In Air | Buried |
| 1 | 25 | 2.4 | 1.2000 | 0.45 | 0.18 | 126 | 124 |
| 1 | 35 | 3.3 | 0.8680 | 0.43 | 0.19 | 152 | 148 |
| 1 | 50 | 4.7 | 0.6410 | 0.41 | 0.21 | 182 | 175 |
| 1 | 70 | 6.6 | 0.4430 | 0.38 | 0.24 | 228 | 215 |
| 1 | 95 | 9.0 | 0.3200 | 0.36 | 0.27 | 277 | 257 |
| 1 | 120 | 11.3 | 0.2530 | 0.35 | 0.29 | 322 | 294 |
| 1 | 150 | 14.2 | 0.2060 | 0.34 | 0.31 | 365 | 330 |
| 1 | 185 | 17.5 | 0.1640 | 0.33 | 0.34 | 419 | 373 |
| 1 | 240 | 22.7 | 0.1250 | 0.32 | 0.37 | 496 | 434 |
| 1 | 300 | 28.3 | 0.1000 | 0.30 | 0.42 | 577 | 494 |
| 1 | 400 | 37.8 | 0.0778 | 0.29 | 0.46 | 675 | 566 |
| 1 | 500 | 47.2 | 0.0605 | 0.29 | 0.51 | 787 | 648 |
| 1 | 630 | 59.5 | 0.0469 | 0.27 | 0.58 | 929 | 745 |
| 3 | 25 | 2.4 | 1.2000 | 0.43 | 0.18 | 142 | 115 |
| 3 | 35 | 3.3 | 0.8680 | 0.41 | 0.19 | 170 | 136 |
| 3 | 50 | 4.7 | 0.6410 | 0.39 | 0.21 | 204 | 162 |
| 3 | 70 | 6.6 | 0.4430 | 0.36 | 0.24 | 253 | 198 |
| 3 | 95 | 9.0 | 0.3200 | 0.34 | 0.27 | 304 | 235 |
| 3 | 120 | 11.3 | 0.2530 | 0.33 | 0.29 | 351 | 268 |
| 3 | 150 | 14.2 | 0.2060 | 0.32 | 0.31 | 398 | 303 |
| 3 | 185 | 17.5 | 0.1640 | 0.31 | 0.34 | 455 | 343 |
| 3 | 240 | 22.7 | 0.1250 | 0.30 | 0.37 | 531 | 397 |
| 3 | 300 | 28.3 | 0.1000 | 0.29 | 0.42 | 606 | 448 |
| 3 | 400 | 37.8 | 0.0778 | 0.27 | 0.46 | 696 | 511 |

DIMENSIONS 12/20 (24)kV

| 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 |
|----------------|--------------|---|--|--------------------------------|-------------------------|
| MP4020K01035 | 1 | 35 | 20.0 | 27.5 | 815 |
| MP4020K01050 | 1 | 50 | 21.0 | 28.5 | 880 |
| MP4020K01070 | 1 | 70 | 22.5 | 30.5 | 1005 |
| MP4020K01095 | 1 | 95 | 24.5 | 32.5 | 1130 |
| MP4020K01120 | 1 | 120 | 26.0 | 34.0 | 1275 |
| MP4020K01150 | 1 | 150 | 27.5 | 35.5 | 1395 |
| MP4020K01185 | 1 | 185 | 29.0 | 37.0 | 1565 |



DIMENSIONS 12/20 (24)kV

| 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 |
|----------------|--------------|---|--|--------------------------------|-------------------------|
| MP4020K01240 | 1 | 240 | 31.0 | 39.5 | 1785 |
| MP4020K01300 | 1 | 300 | 34.0 | 42.5 | 2065 |
| MP4020K01400 | 1 | 400 | 37.0 | 45.5 | 2425 |
| MP4020K01500 | 1 | 500 | 40.0 | 48.5 | 2825 |
| MP4020K01630 | 1 | 630 | 44.5 | 53.5 | 3425 |
| MP4020K03035 | 3 | 35 | 20.0 | 56.0 | 3315 |
| MP4020K03050 | 3 | 50 | 21.0 | 58.5 | 3645 |
| MP4020K03070 | 3 | 70 | 22.5 | 62.5 | 4145 |
| MP4020K03095 | 3 | 95 | 24.5 | 66.5 | 4740 |
| MP4020K03120 | 3 | 120 | 26.0 | 70.5 | 5285 |
| MP4020K03150 | 3 | 150 | 27.5 | 73.5 | 5810 |
| MP4020K03185 | 3 | 185 | 29.0 | 76.5 | 6450 |
| MP4020K03240 | 3 | 240 | 31.0 | 82.0 | 7495 |
| MP4020K03300 | 3 | 300 | 34.0 | 88.5 | 8640 |
| MP4020K03400 | 3 | 400 | 37.0 | 95.0 | 10165 |

ELECTRICAL CHARACTERISTICS 12/20 (24)kV

| 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 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 |
| 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 |



DIMENSIONS 18/30 (36)kV

| 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 |
|----------------|--------------|---|--|--------------------------------|-------------------------|
| MP4030K01050 | 1 | 50 | 26.0 | 34.0 | 1155 |
| MP4030K01070 | 1 | 70 | 27.5 | 36.0 | 1275 |
| MP4030K01095 | 1 | 95 | 29.5 | 37.5 | 1435 |
| MP4030K01120 | 1 | 120 | 31.0 | 39.5 | 1575 |
| MP4030K01150 | 1 | 150 | 32.5 | 41.0 | 1725 |
| MP4030K01185 | 1 | 185 | 34.0 | 42.5 | 1890 |
| MP4030K01240 | 1 | 240 | 36.0 | 45.0 | 2150 |
| MP4030K01300 | 1 | 300 | 39.0 | 48.0 | 2460 |
| MP4030K01400 | 1 | 400 | 42.0 | 51.0 | 2850 |
| MP4030K01500 | 1 | 500 | 45.0 | 54.0 | 3275 |
| MP4030K01630 | 1 | 630 | 49.5 | 59.0 | 3920 |
| MP4030K03050 | 3 | 50 | 26.0 | 70.0 | 4915 |
| MP4030K03070 | 3 | 70 | 27.5 | 74.0 | 5520 |
| MP4030K03095 | 3 | 95 | 29.5 | 78.0 | 6170 |
| MP4030K03120 | 3 | 120 | 31.0 | 82.0 | 6865 |
| MP4030K03150 | 3 | 150 | 32.5 | 85.0 | 7375 |
| MP4030K03185 | 3 | 185 | 34.0 | 88.5 | 8160 |
| MP4030K03240 | 3 | 240 | 36.0 | 93.5 | 9190 |
| MP4030K03300 | 3 | 300 | 39.0 | 100.0 | 10515 |
| MP4030K03400 | 3 | 400 | 42.0 | 106.5 | 12115 |

ELECTRICAL CHARACTERISTICS 18/30 (36)kV

| 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 μF/km | CURRENT CARRYING CAPACITY Amps | |
|--------------|---|--|---|---------------------|----------------------|-----------------------------------|--------|
| | | | | | | In Air | Buried |
| 1 | 50 | 4.7 | 0.6410 | 0.46 | 0.14 | 188 | 174 |
| 1 | 70 | 6.6 | 0.4430 | 0.43 | 0.16 | 234 | 214 |
| 1 | 95 | 9.0 | 0.3200 | 0.41 | 0.17 | 285 | 256 |
| 1 | 120 | 11.3 | 0.2530 | 0.39 | 0.19 | 330 | 293 |
| 1 | 150 | 14.2 | 0.2060 | 0.38 | 0.20 | 373 | 327 |
| 1 | 185 | 17.5 | 0.1640 | 0.37 | 0.21 | 427 | 371 |
| 1 | 240 | 22.7 | 0.1250 | 0.36 | 0.24 | 504 | 432 |
| 1 | 300 | 28.3 | 0.1000 | 0.34 | 0.26 | 584 | 491 |
| 1 | 400 | 37.8 | 0.0778 | 0.33 | 0.29 | 681 | 564 |
| 1 | 500 | 47.2 | 0.0605 | 0.32 | 0.31 | 792 | 646 |
| 1 | 630 | 59.5 | 0.0469 | 0.30 | 0.35 | 933 | 743 |
| 3 | 50 | 4.7 | 0.6410 | 0.45 | 0.14 | 204 | 162 |
| 3 | 70 | 6.6 | 0.4430 | 0.41 | 0.16 | 253 | 198 |
| 3 | 95 | 9.0 | 0.3200 | 0.39 | 0.17 | 304 | 235 |
| 3 | 120 | 11.3 | 0.2530 | 0.38 | 0.19 | 351 | 268 |
| 3 | 150 | 14.2 | 0.2060 | 0.37 | 0.20 | 398 | 303 |
| 3 | 185 | 17.5 | 0.1640 | 0.35 | 0.21 | 455 | 343 |
| 3 | 240 | 22.7 | 0.1250 | 0.34 | 0.24 | 531 | 397 |
| 3 | 300 | 28.3 | 0.1000 | 0.32 | 0.26 | 606 | 448 |
| 3 | 400 | 37.8 | 0.0778 | 0.31 | 0.29 | 696 | 511 |

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.