

INTRODUCTION

This catalog contains information on National Cables Industry low voltage cables with PVC and XLPE insulation, Copper/Aluminium Conductors, Armoured and Un-armoured designs, single and multicore constructions along with a different range of sheathing options. Cables are categorized by insulation and armouring. Each section contains appropriate technical details and constructional data.

PRODUCT SPECIFICATION

All cable designs outlined in this catalog use constructions covered by IEC 60502, BS 6346, BS 5467 and BS 6724. National Cable Industry can also supply a range of alternative designs to meet more specialized customer needs including enhanced fire performance and added environmental protection. Cables can also be supplied with alternative sheathing materials and colors, or can be made to individual customer specifications or other recognized standards both National & International.

CABLE SELECTION

It is essential that the type of cable ordered is suitable for its intended use. Cable choice will be based on a whole range of factors including installation specifications, relevant local regulations and the performance of appropriate cable types. It is therefore impossible to provide a conclusive guide to cable selection and we would advice on suitable designs to meet your specific cable needs.

CONDUCTORS

Conductors shall be of Copper or Aluminium, circular stranded (Non-compacted or Compacted) or Shaped, Class 2 to IEC 60228, BS EN 60228. The number of wires for each conductor size mentioned in the tables is for standard construction. However, the minimum number of wires mentioned in IEC 60228/ BS EN 60228 shall hold precedence during manufacture. For smaller sizes, a solid circular conductor, Class 1 as per IEC 60228, BS EN 60228 can also be supplied upon request.

INSULATION

XLPE material and thickness shall be as per IEC 60502/BS 5467/BS 6724 rated for 90°C continues operation. PVC material and thickness shall be as per IEC 60502 or BS 6346. PVC insulation Material shall be Type A as per IEC 60502 or TI1 as per BS 7655.

ASSEMBLY

For multicore cables, two, three or four insulated conductors are laid-up together with non-hygroscopic fillers compatible with the insulation material and the assembly is bedded with an extruded layer of PVC. In case of non-armoured cables, this layer may be omitted if the outer shape of the cable remains practically circular.

Standard COLOR CODE

| | | |
|-------------------|---|--|
| Single Core | : | Red or Black |
| Two Cores | : | Red, Black |
| Three Cores | : | Red, Yellow, Blue |
| Four Cores | : | Red, Yellow, Blue, Black |
| Five Cores | : | Red, Yellow, Blue, Black, Green/ Yellow |
| Above Five Cores: | | White numerals printed on black core insulation. |

Cables with special colour code are also available based on special request.

| | | |
|-------------------|---|--|
| Single Core | : | Brown or Blue |
| Two Cores | : | Brown, Blue |
| Three Cores | : | Green/Yellow, Blue, Brown |
| Four Cores | : | Blue, Brown, Black, Grey |
| Five Cores | : | Green/Yellow, Blue, Brown, Black, Grey |
| Above Five Cores: | | Black Numerals printed on White core insulation. |



INTRODUCTION

ARMOUR

Galvanized Steel Wires applied helically over bedding as per IEC 60502, BS 5467, BS 6346, BS 6724. (Single core cables shall be with Aluminium wire armour). Cables with Double steel tapes applied helically over the bedding of multi-core cables as per IEC 60502 are also available on request.

OUTER SHEATH

PVC type ST2 as per IEC 60502, Type 9 as per BS 7655 or LSF Type ST1/LTS8 coloured Black. Low voltage cables can also be supplied with polyethylene outer sheath based on special request. Polyethylene offers the advantage of much greater impermeability to moisture compared to PVC and can also offer much greater abrasion resistance. These can be important factors when selecting cables for use in hostile environments.

All sheaths are designed with easy strip characteristics to reduce the time and cost of cable preparation during installation. In addition, finished cable are marked on the outer sheath to aid cable identification at site.

FIRE PERFORMANCE OF CABLE SHEATHS

Cables with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332-3-22, IEC 60332-3-23, IEC 60332-3-24 can also be supplied based on special request. Cables as per BS 6724 shall meet the requirements of low corrosive and low toxic gas emission as per BS 6724.

QUALITY ASSURED

Effective Quality Management System is maintained at NCI as a key to long term operational reliability. Stringent quality control measures are implemented during procurement, during all stages of production and during final testing. Under professional control, NCI has demonstrated competence by obtaining Quality Management System ISO-9000:2008 from BASEC and Conformity certificate from BASEC, the world's renowned leading cable approval authority for "Enhanced Quality Management System for Product Related Functions.

SERVICES

National Cables Industry offers technical support for cable installation projects. Please contact our Customer Service Department for details.



PVC INSULATION

STANDARD: BS 7655, IEC 60502-1

**PARTICULARS & GUARANTEES RELATING
TO PVC INSULATING COMPOUND (TYPE TI1)**

| SL NO. | DESCRIPTION | UNIT | GUARANTEED PARTICULARS |
|--------|---|--|--|
| 1 | Tensile Strength and Elongation at break: Min. tensile strength Min. elongation at break | N/mm ² % | 12.5 125 |
| 2 | Low temperature bend test: Temperature at which specimen shall not track | °C | -15 ± 2 |
| 3 | Low temperature elongation test: Test temperature Min. Elongation | °C % | -15 ± 2 30 |
| 4 | Low temperature impact test: Temperature at which specimen Shall not crack | °C | -15 ± 2 |
| 5 | Accelerated ageing for specified Period at specified temperature Followed by loss of mass test: Max. loss of mass, after ageing for 7 days at 80 ± 2 °C | Mg/cm ² | 2.0 |
| 6 | Accelerated ageing for specified period at specified temperature Followed by tensile strength & Elongation at break Number of days ageing Ageing temperature Tensile Strength after ageing: Min. value Max. variation Elongation at break after ageing: Min. value Max. variation from unaged value | Days °C N/mm ² % % % | 7 80 ± 2 12.5 20 125 20 |
| 7 | Pressure test at high temperature: Test temperature Max. indentation | °C % | 80 ± 2 50 |
| 8 | Resistance to cracking: Temperature at which specimen Shall not crack | °C | 150 ± 2 |
| 9 | Insulation resistance constant: Min. K. value at 70°C | M.Ω.km | 0.037 |

**PARTICULARS & GUARANTEES RELATING
TO PVC INSULATING COMPOUND (TYPE A)**

| SL NO. | DESCRIPTION | UNIT | GUARANTEED PARTICULARS |
|--------|---|--|---|
| 1 | Tensile Strength and Elongation at break: Min. tensile strength Min. elongation at break | N/mm ² % | 12.5 150 |
| 2 | Low temperature bend test: Temperature at which specimen shall not track | °C | -15 ± 2 |
| 3 | Low temperature elongation test: Test temperature Min. Elongation | °C % | -15 ± 2 20 |
| 4 | Low temperature impact test: Test temperature Min. Elongation | °C | - |
| 5 | Accelerated ageing for specified Period at specified temperature Followed by loss of mass test: Max. loss of mass, after ageing for 7 days at 80 ± 2 °C | Mg/cm ² | - |
| 6 | Accelerated ageing for specified period at specified temperature Followed by tensile strength & Elongation at break Number of days ageing Ageing temperature Tensile Strength after ageing: Min. value Max. variation Elongation at break after ageing: Min. value Max. variation from unaged value | Days °C N/mm ² % % % | 7 100 ± 2 12.5 25 150 25 |
| 7 | Pressure test at high temperature: Test temperature Max. indentation | °C % | 80 ± 2 50 |
| 8 | Resistance to cracking: Temperature at which specimen Shall not crack | °C | 150 ± 2 |
| 9 | Water Absorption Temperature Duration Max. variation of mass | °C Days mg/cm ² | 70 ± 2 10 1 |



PVC INSULATION

STANDARD: BS 7655, IEC 60502-1

PARTICULARS & GUARANTEES RELATING TO PVC INSULATING COMPOUND (TYPE 5)

| SL NO. | DESCRIPTION | UNIT | GUARANTEED PARTICULARS |
|--------|---|--------------------------------------|--|
| 1 | Tensile Strength and Elongation at break: Min. tensile strength Min. elongation at break | N/mm ² % | 12.5 125 |
| 2 | Low temperature bend test: Temperature at which specimen shall not track | °C | -15 ± 2 |
| 3 | Low temperature elongation test: Test temperature Min. Elongation | °C % | -15 ± 2 20 |
| 4 | Accelerated ageing for specified at specified temperature followed by loss of mass test: Max. loss of mass, after ageing 10 days at 115 ± 2 °C | Mg/cm ² | 1.5 |
| 5 | Accelerated ageing for specified period at specified temperature Followed by tensile strength & Elongation at break Number of days ageing Ageing temperature Tensile Strength after ageing: Min. value Max. variation Elongation at break after ageing: Min. value Max. variation from unaged value | Days °C N/mm ² % | 10 135 ± 2 12.5 25 125 25 |
| 6 | Pressure test at high temperature: Test temperature Max. indentation | °C % | 95 ± 2 50 |
| 7 | Resistance to cracking: Temperature at which specimen Shall not crack | °C | 150 ± 2 |
| 8 | Insulation resistance constant: Min. K. value at 70°C | M.Ω.km | 180 |

PARTICULARS & GUARANTEES RELATING TO XLPE INSULATION

| SL NO. | DESCRIPTION | UNIT | GUARANTEED PARTICULARS |
|--------|--|--|----------------------------------|
| 1 | Tensile Strength and Elongation at break: Min. tensile strength Min. elongation at break | N/mm ² % | 12.5 200 |
| 2 | Accelerated ageing for specified period at specified temperature Followed by tensile strength & Elongation at break Number of days ageing Ageing temperature Max. variation of textile strength From unaged specimen Max. variation of elongation from unaged specimen | Days °C % | 7 135 ± 2 ± 25 |
| 3 | Hot Set Test: Treatment: -Temperature -Time under load -Mechanical stress Max. elongation under load Max permanent elongation after Cooling | °C Minutes N/mm ² % % | 200 ± 3 15 20 175 15 |
| 4 | Water Absorption: Treatment: -Temperature -Duration Max. variation of mass | °C Days mg/cm ² | 85 ± 2 14 1.0 |
| 5 | Maximum permissible shrinkage: Treatment: -Temperature -Duration Maximum permissible shrinkage | °C Hours % | 130 ± 2 1 4 |
| 6 | Insulation Resistance constant (Ki) at maximum rated temperature (90 °C) | M.Ω.km | 3.67 |
| 7 | Volume Resistivity at maximum rated temperature (90 °C) | Ω.cm | 10 ¹² |



PVC OUTER SHEATH

STANDARD: IEC 60502-1, BS 7655

PARTICULARS & GUARANTEES RELATING TO PVC OUTER SHEATH TYPE ST2 (IEC 60502), TYPE 9 (BS 7655)

| SL NO. | DESCRIPTION | UNIT | GUARANTEED PARTICULARS |
|--------|--|--|---|
| 1 | Tensile Strength and Elongation at break: Min. tensile strength Min. elongation at break | N/mm ² % | 12.5 150 |
| 2 | Low temperature bend test: Temperature at which specimen shall not track | °C | -15 ± 2 |
| 3 | Low temperature elongation test: Test temperature Min. Elongation | °C % | -15 ± 2 20 |
| 4 | Low temperature impact test: Temperature at which specimen Shall not crack | °C | -15 ± 2 |
| 5 | Loss of mass: After ageing for 7 days at 100 ± 2 °C Max. loss of mass | mg/cm ² | 1.5 |
| 6 | Accelerated ageing for specified period at specified temperature Followed by tensile strength & Elongation at break test Number of days ageing Ageing temperature Tensile Strength after ageing: Min. value Max. variation Elongation at break after ageing: Min. value Max. variation from unaged value | Days °C N/mm ² % % % | 7 100 ± 2 12.5 25 150 25 |
| 7 | Pressure test at high temperature: Test temperature Max. indentation | °C % | 90 ± 2 50 |
| 8 | Heat Shock Test: Temperature at which specimen shall not crack | °C | 150 ± 2 |
| 9 | Insulation resistance constant: Min. K. value at 20°C | M.Ohm.km | 0.0035 |
| 10 | Flame Retardancy test (if required) | As per IEC 60332-1 (upon request) | |



LSF OUTER SHEATH

STANDARD: IEC 60502-1

600/1000 VOLTS

PARTICULARS & GUARANTEES RELATING TO LSF OUTER SHEATH TYPE ST8 (IEC 60502-1)

| SL NO. | DESCRIPTION | UNIT | GUARANTEED PARTICULARS |
|--------|---|--|--------------------------------------|
| 1 | Tensile Strength and Elongation at break: Minimum Tensile Strength Minimum Elongation at break | N/mm ² % | 9 125 |
| 2 | Properties after ageing for specified period at specified temperature followed by tensile strength and elongation at break test. Number of days ageing Ageing temperature Tensile Strength after ageing: Minimum value Maximum variation Elongation at break after ageing: Minimum value Maximum variation from un-aged value | Days °C N/mm ² % % % | 7 100 ± 2 9 40 100 40 |
| 3 | Low temperature bend test: Test temperature at which specimen shall not crack | °C | -15 ± 2 |
| 4 | Low temperature elongation test: Test temperature Minimum Elongation | °C % | -15 ± 2 20 |
| 5 | Low temperature impact test: Temperature at which specimen shall not crack | °C | -15 ± 2 |
| 6 | Pressure test at high temperature: Test temperature Maximum indentation | °C % | 80 ± 2 50 |
| 7 | Water Absorption: Ageing: Number of hours Ageing temperature Maximum increase in Mass | hours °C mg/cm ² | 24 70 ± 2 10 |
| 8 | Acidic emission and corrosive gases evolved Level of HCl Fluorine Content pH Minimum Conductivity | % % μS/mm | <0.5 <0.1 4.3 10 |



LSF OUTER SHEATH

STANDARD: BS 6724, BS 7655

600/1000 VOLTS

PARTICULARS & GUARANTEES RELATING TO LSF OUTER SHEATH TYPE LTS1 (BS 7655)

| SL NO. | DESCRIPTION | UNIT | GUARANTEED PARTICULARS |
|---------------|---|--|---------------------------------------|
| 1 | Tensile Strength and Elongation at break: Minimum Tensile Strength Minimum Elongation at break | N/mm ² % | 10 100 |
| 2 | Properties after ageing for specified period at specified temperature followed by tensile strength and elongation at break test. Number of days ageing Ageing temperature Tensile Strength after ageing: Minimum value Maximum variation Elongation at break after ageing: Minimum value Maximum variation from un-aged value | Days °C N/mm ² % % % | 7 100 ± 2 10 40 100 40 |
| 3 | Low temperature bend test: Test temperature at which specimen shall not crack | °C | -15 ± 2 |
| 4 | Low temperature elongation test: Test temperature Minimum Elongation | °C % | -15 ± 2 30 |
| 5 | Low temperature impact test: Temperature at which specimen shall not crack | °C | -15 ± 2 |
| 6 | Pressure test at high temperature: Test temperature Maximum indentation | °C % | 80 ± 2 50 |
| 7 | Tear Resistance Test as per BS 6469 (Sec. 99.1) Minimum value | N/mm | 5 |
| 8 | Water Immersion Test as per BS 6469 (Sec. 99.1) Ageing: Number of days Ageing temperature Maximum variation in tensile strength Maximum variation in elongation at break | Days °C % % | 7 70 ± 2 30 30 |
| 9 | Acidic emission and corrosive gases evolved Level of HCl | % | <0.5 |

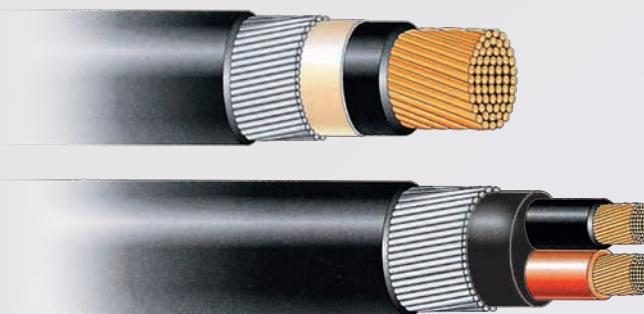


PVC INSULATED, PVC SHEATHED CABLES

COPPER CONDUCTOR

STANDARD: BS 6346

0.6/1 kV



ALUMINIUM WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Alum/Steel Wire Dia. | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | No. | mm | mm | mm | mm | mm | Kg/Km | meters |
| 1x50 rmc | 19 | 8.1 | 1.4 | 1.8 | 1.5 | 20 | 810 | 1000 |
| 1x70 rmc | 19 | 9.7 | 1.4 | 1.8 | 1.6 | 22 | 1050 | 1000 |
| 1x95 rmc | 19 | 11.4 | 1.6 | 1.8 | 1.6 | 24 | 1360 | 1000 |
| 1x120 rmc | 37 | 12.9 | 1.6 | 1.8 | 1.7 | 26 | 1660 | 1000 |
| 1x150 rmc | 37 | 14.3 | 1.8 | 1.8 | 1.7 | 28 | 1970 | 1000 |
| 1x185 rmc | 37 | 16.0 | 2.0 | 1.8 | 1.8 | 30 | 2400 | 500 |
| 1x240 rmc | 61 | 18.4 | 2.2 | 1.8 | 1.9 | 33 | 3030 | 500 |
| 1x300 rmc | 61 | 20.4 | 2.4 | 1.8 | 1.9 | 35 | 3680 | 500 |
| 1x400 rmc | 61 | 23.2 | 2.6 | 2.0 | 2.1 | 40 | 4680 | 500 |
| 1x500 rmc | 61 | 26.7 | 2.8 | 2.0 | 2.1 | 44 | 5830 | 500 |
| 1x630 rmc | 91 | 30.4 | 2.8 | 2.0 | 2.2 | 48 | 7280 | 500 |
| 1x800 rmc | 91 | 33.7 | 2.8 | 2.5 | 2.4 | 53 | 9260 | 500 |
| 1x1000 rm | 91 | 41.0 | 3.0 | 2.5 | 2.5 | 60 | 11800 | 250 |

STEEL WIRE ARMOURED CABLES

| | | | | | | | | |
|----------|----|------|-----|------|-----|------|------|------|
| 2x1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.4 | 12.5 | 325 | 1000 |
| 2x2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 14 | 400 | 1000 |
| 2x4 rm | 7 | 2.55 | 0.8 | 0.9 | 1.4 | 15 | 450 | 1000 |
| 2x6 rm | 7 | 3.1 | 0.8 | 0.9 | 1.5 | 17 | 540 | 1000 |
| 2x10 rm | 7 | 4.0 | 1.0 | 1.25 | 1.6 | 20 | 850 | 1000 |
| 2x16 rm | 7 | 5.0 | 1.0 | 1.25 | 1.6 | 22 | 1070 | 1000 |
| 2x25 sm | 7 | - | 1.2 | 1.6 | 1.7 | 23 | 1345 | 1000 |
| 2x35 sm | 7 | - | 1.2 | 1.6 | 1.8 | 25 | 1615 | 1000 |
| 2x50 sm | 19 | - | 1.4 | 1.6 | 1.9 | 28 | 2010 | 500 |
| 2x70 sm | 19 | - | 1.4 | 1.6 | 1.9 | 30 | 2510 | 500 |
| 2x95 sm | 19 | - | 1.6 | 2.0 | 2.1 | 35.5 | 3490 | 500 |
| 2x120 sm | 37 | - | 1.6 | 2.0 | 2.2 | 38 | 4100 | 500 |
| 2x150 sm | 37 | - | 1.8 | 2.0 | 2.3 | 41 | 4840 | 500 |
| 2x185 sm | 37 | - | 2.0 | 2.5 | 2.4 | 46 | 6230 | 250 |
| 2x240 sm | 61 | - | 2.2 | 2.5 | 2.5 | 50 | 7660 | 250 |
| 2x300 sm | 61 | - | 2.4 | 2.5 | 2.7 | 55 | 9250 | 250 |

rm : Round Stranded
rmc : Round Stranded Compacted
sm : Sectoral Stranded

Standard Colour Code:

1 Core : Black (Red on request)
 2 Cores : Red, Black

Color Code based on special request.

1 Core : Brown or Blue
 2 Cores : Brown, Blue



PVC INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD: BS 6346** **0.6 / 1 kV**



STEEL WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Steel Wire Dia. | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|-------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | No. | mm | mm | mm | mm | mm | Kg/Km | meters |
| 3x1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.4 | 13 | 320 | 1000 |
| 3x2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 14 | 400 | 1000 |
| 3x4 rm | 7 | 2.55 | 0.8 | 0.9 | 1.4 | 16 | 500 | 1000 |
| 3x6 rm | 7 | 3.12 | 0.8 | 1.25 | 1.5 | 18 | 720 | 1000 |
| 3x10 rm | 7 | 4.01 | 1.0 | 1.25 | 1.6 | 21 | 960 | 1000 |
| 3x16 rm | 7 | 5.03 | 1.0 | 1.25 | 1.6 | 23 | 1220 | 1000 |
| 3x25 sm | 7 | - | 1.2 | 1.6 | 1.7 | 25 | 1720 | 1000 |
| 3x35 sm | 7 | - | 1.2 | 1.6 | 1.8 | 28 | 2100 | 1000 |
| 3x50 sm | 19 | - | 1.4 | 1.6 | 1.9 | 32 | 2665 | 1000 |
| 3x70 sm | 19 | - | 1.4 | 2.0 | 2.0 | 36 | 3690 | 500 |
| 3x95 sm | 19 | - | 1.6 | 2.0 | 2.1 | 40 | 4710 | 500 |
| 3x120 sm | 37 | - | 1.6 | 2.0 | 2.2 | 43 | 5570 | 500 |
| 3x150 sm | 37 | - | 1.8 | 2.5 | 2.4 | 49 | 7135 | 500 |
| 3x185 sm | 37 | - | 2.0 | 2.5 | 2.5 | 53 | 8500 | 250 |
| 3x240 sm | 61 | - | 2.2 | 2.5 | 2.6 | 58 | 10610 | 250 |
| 3x300 sm | 61 | - | 2.4 | 2.5 | 2.8 | 64 | 12810 | 250 |
| 3x400 sm | 61 | - | 2.6 | 2.5 | 3.0 | 71 | 15790 | 250 |

rm : Round Stranded
sm : Sectoral Stranded

Standard Colour Code:
3 core: Red, Yellow, Blue

*Color Code based on special request.
3 Cores: Green / Yellow, Blue, Brown*



PVC INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:BS 6346** **0.6/1 kV**



STEEL WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | No. | mm | mm | mm | mm | mm | Kg/Km | meters |
| 4x1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.4 | 13 | 360 | 1000 |
| 4x2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 14 | 460 | 1000 |
| 4x4 rm | 7 | 2.55 | 0.8 | 1.25 | 1.5 | 17 | 700 | 1000 |
| 4x6 rm | 7 | 3.12 | 0.8 | 1.25 | 1.5 | 19 | 830 | 1000 |
| 4x10 rm | 7 | 4.01 | 1.0 | 1.25 | 1.6 | 22 | 1120 | 1000 |
| 4x16 rm | 7 | 5.03 | 1.0 | 1.6 | 1.7 | 26 | 1700 | 1000 |
| 4x25 sm | 7 | - | 1.2 | 1.6 | 1.8 | 28 | 2110 | 1000 |
| 4x35 sm | 7 | - | 1.2 | 1.6 | 1.9 | 31 | 2590 | 1000 |
| 4x50 sm | 19 | - | 1.4 | 2.0 | 2.0 | 36 | 3600 | 500 |
| 4x70 sm | 19 | - | 1.4 | 2.0 | 2.1 | 40 | 4560 | 500 |
| 4X95 sm | 19 | - | 1.6 | 2.0 | 2.2 | 44 | 5900 | 500 |
| 4x120sm | 37 | - | 1.6 | 2.5 | 2.4 | 49 | 7500 | 500 |
| 4x150 sm | 37 | - | 1.8 | 2.5 | 2.5 | 54 | 8900 | 250 |
| 4x185 sm | 37 | - | 2.0 | 2.5 | 2.6 | 59 | 10770 | 250 |
| 4x240 sm | 61 | - | 2.2 | 2.5 | 2.8 | 65 | 13490 | 250 |
| 4x300 sm | 61 | - | 2.4 | 2.5 | 3.0 | 71 | 16320 | 250 |
| 4x400 sm | 61 | - | 2.6 | 3.15 | 3.3 | 82 | 21250 | 250 |

STEEL WIRE ARMOURED CABLES

| | | | | | | | | |
|----------|----|------|-----|------|-----|----|------|------|
| 5x1.5 rm | 7 | 1.56 | 0.9 | 0.9 | 1.4 | 14 | 400 | 1000 |
| 5x2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.5 | 16 | 540 | 1000 |
| 5x4 rm | 7 | 2.55 | 0.8 | 1.25 | 1.5 | 18 | 800 | 1000 |
| 5x6 rm | 7 | 3.12 | 0.8 | 1.25 | 1.6 | 20 | 970 | 1000 |
| 5x10 rm | 7 | 4.01 | 1.0 | 1.6 | 1.7 | 25 | 1510 | 1000 |
| 5x16 rm | 7 | 5.03 | 1.0 | 1.6 | 1.7 | 28 | 1940 | 1000 |
| 5x25 rm | 7 | 6.3 | 1.2 | 1.6 | 1.9 | 33 | 2690 | 500 |
| 5x35 rm | 7 | 7.44 | 1.2 | 1.6 | 1.9 | 36 | 3320 | 500 |
| 5x50 rmc | 19 | 8.10 | 1.4 | 2.0 | 2.1 | 41 | 4400 | 500 |
| 5x70 rmc | 19 | 9.70 | 1.4 | 2.0 | 2.2 | 45 | 5670 | 500 |

rm : Round Stranded
 rmc : Round Stranded Compacted
 sm : Sectoral Stranded

Standard Colour Code:
 4 cores: Red, Yellow, Blue, Black
 5 cores: Red, Yellow, Blue, Black, Green/Yellow

Color Code based on special request
 4 cores: Blue, Brown, Black, Grey
 5 cores: Green/Yellow, Blue, Brown, Black, Grey

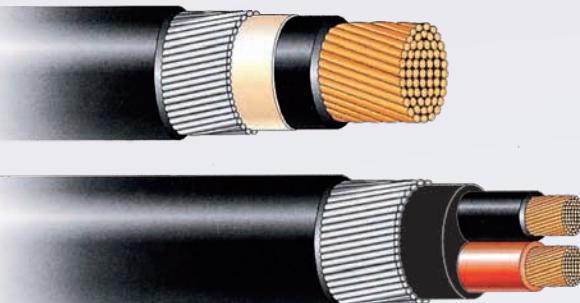


XLPE INSULATED, PVC SHEATHED CABLES

COPPER CONDUCTOR

STANDARD:BS 5467

0.6 / 1 kV



ALUMINIUM WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Alum/Steel Wire Dia. | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | No. | mm | mm | mm | mm | mm | Kg/Km | meters |
| 1x50 rmc | 19 | 8.1 | 1.0 | 1.8 | 1.5 | 19 | 760 | 1000 |
| 1x70 rmc | 19 | 9.7 | 1.1 | 1.8 | 1.5 | 21 | 1000 | 1000 |
| 1x95 rmc | 19 | 11.4 | 1.1 | 1.8 | 1.6 | 23 | 1290 | 1000 |
| 1x120 rmc | 37 | 12.9 | 1.2 | 1.8 | 1.6 | 25 | 1540 | 1000 |
| 1x150 rmc | 37 | 14.3 | 1.4 | 1.8 | 1.7 | 27 | 1890 | 1000 |
| 1x185 rmc | 37 | 16.0 | 1.6 | 1.8 | 1.8 | 29 | 2290 | 1000 |
| 1x240 rmc | 61 | 18.4 | 1.7 | 1.8 | 1.8 | 32 | 2880 | 500 |
| 1x300 rmc | 61 | 20.4 | 1.8 | 1.9 | 1.9 | 34 | 3510 | 500 |
| 1x400 rmc | 61 | 23.2 | 2.0 | 2.0 | 2.0 | 38 | 4470 | 500 |
| 1x500 rmc | 61 | 26.7 | 2.2 | 2.0 | 2.1 | 42 | 5600 | 500 |
| 1x630 rmc | 61 | 30.4 | 2.4 | 2.0 | 2.2 | 46 | 7050 | 500 |
| 1x800 rmc | 61 | 33.7 | 2.6 | 2.5 | 2.4 | 51 | 9050 | 500 |
| 1x1000 rm | 91 | 41.0 | 2.8 | 2.5 | 2.5 | 60 | 11480 | 250 |

STEEL WIRE ARMOURED CABLES

| | | | | | | | | |
|----------|---|------|-----|------|-----|----|------|------|
| 2x1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.3 | 12 | 280 | 1000 |
| 2x2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 14 | 350 | 1000 |
| 2x4 rm | 7 | 2.55 | 0.7 | 0.9 | 1.4 | 15 | 425 | 1000 |
| 2x6 rm | 7 | 3.12 | 0.7 | 0.9 | 1.4 | 16 | 500 | 1000 |
| 2x10 rm | 7 | 4.01 | 0.7 | 0.9 | 1.5 | 18 | 655 | 1000 |
| 2x16 rm | 7 | 5.03 | 0.7 | 1.25 | 1.5 | 20 | 970 | 1000 |
| 2x25 sm | 7 | - | 0.9 | 1.25 | 1.6 | 24 | 1350 | 1000 |
| 2x35 sm | 7 | - | 0.9 | 1.6 | 1.7 | 27 | 1850 | 1000 |

rm : Round Stranded
rmc : Round Stranded Compacted
sm : Sectoral Stranded

Standard Colour Code:

1 Core : Black (Red on request)
 2 Cores : Red, Black

Color Code based on special request

1 Core : Brown or Blue
 2 Cores : Brown, Blue



XLPE INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:BS 5467** **0.6/1 kV**



STEEL WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Steel Wire Dia. | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|-------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | No. | mm | mm | Mm | mm | mm | Kg/Km | meters |
| 3x1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.3 | 12 | 300 | 1000 |
| 3x2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 14 | 390 | 1000 |
| 3x4 rm | 7 | 2.55 | 0.7 | 0.9 | 1.4 | 15 | 475 | 1000 |
| 3x6 rm | 7 | 3.12 | 0.7 | 0.9 | 1.4 | 16 | 575 | 1000 |
| 3x10 rm | 7 | 4.01 | 0.7 | 1.25 | 1.5 | 19 | 850 | 1000 |
| 3x16 rm | 7 | 5.03 | 0.7 | 1.25 | 1.6 | 22 | 1110 | 1000 |
| 3x25 sm | 7 | - | 0.9 | 1.6 | 1.7 | 25 | 1590 | 1000 |
| 3x35 sm | 7 | - | 0.9 | 1.6 | 1.8 | 27 | 1965 | 1000 |
| 3x50 sm | 19 | - | 1.0 | 1.6 | 1.8 | 30 | 2440 | 500 |
| 3x70 sm | 19 | - | 1.1 | 1.6 | 1.9 | 33 | 3200 | 500 |
| 3X95 sm | 19 | - | 1.1 | 2.0 | 2.1 | 40 | 4390 | 500 |
| 3x120 sm | 37 | - | 1.2 | 2.0 | 2.2 | 41 | 5250 | 500 |
| 3x150 sm | 37 | - | 1.4 | 2.5 | 2.3 | 47 | 6740 | 250 |
| 3x185 sm | 37 | - | 1.6 | 2.5 | 2.4 | 51 | 8050 | 250 |
| 3x240 sm | 61 | - | 1.7 | 2.5 | 2.6 | 56 | 9990 | 250 |
| 3x300 sm | 61 | - | 1.8 | 2.5 | 2.7 | 61 | 12100 | 250 |
| 3x400 sm | 61 | - | 2.0 | 2.5 | 2.9 | 68 | 14970 | 250 |

rm : Round Stranded
sm : Sectoral Stranded

Standard Colour Code:
3 cores : Black, Yellow, Blue

Color Code based on special request
3 cores : Green / Yellow, Blue, Brown



XLPE INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD: BS 5467** **0.6/1 kV**



STEEL WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | No. | mm | mm | mm | mm | mm | Kg/Km | meters |
| 4x1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.3 | 13 | 350 | 1000 |
| 4x2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 15 | 450 | 1000 |
| 4x4 rm | 7 | 2.55 | 0.7 | 0.9 | 1.4 | 16 | 550 | 1000 |
| 4x6 rm | 7 | 3.12 | 0.7 | 1.25 | 1.5 | 18 | 775 | 1000 |
| 4x10 rm | 7 | 4.01 | 0.7 | 1.25 | 1.5 | 21 | 1000 | 1000 |
| 4x16 rm | 7 | 5.03 | 0.7 | 1.25 | 1.6 | 23 | 1325 | 1000 |
| 4x25 sm | 7 | - | 0.9 | 1.6 | 1.7 | 27 | 1925 | 1000 |
| 4x35 sm | 7 | - | 0.9 | 1.6 | 1.8 | 30 | 2390 | 1000 |
| 4x50 sm | 19 | - | 1.0 | 1.6 | 1.9 | 33 | 3015 | 500 |
| 4x70 sm | 19 | - | 1.1 | 2.0 | 2.1 | 38 | 4300 | 500 |
| 4X95 sm | 19 | - | 1.1 | 2.0 | 2.2 | 42 | 5500 | 500 |
| 4x120sm | 37 | - | 1.2 | 2.5 | 2.3 | 47 | 7035 | 500 |
| 4x150 sm | 37 | - | 1.4 | 2.5 | 2.4 | 52 | 8410 | 500 |
| 4x185 sm | 37 | - | 1.6 | 2.5 | 2.6 | 57 | 10150 | 250 |
| 4x240 sm | 61 | - | 1.7 | 2.5 | 2.7 | 63 | 12750 | 250 |
| 4x300 sm | 61 | - | 1.8 | 2.5 | 2.9 | 68 | 15440 | 250 |
| 4x400 sm | 61 | - | 2.0 | 3.15 | 3.2 | 78 | 20210 | 250 |

STEEL WIRE ARMOURED CABLES

| | | | | | | | | |
|----------|----|------|-----|------|-----|----|------|------|
| 5x1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.4 | 14 | 400 | 1000 |
| 5x2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 16 | 515 | 1000 |
| 5x4 rm | 7 | 2.55 | 0.7 | 0.9 | 1.5 | 18 | 650 | 1000 |
| 5x6 rm | 7 | 3.12 | 0.7 | 1.25 | 1.5 | 20 | 900 | 1000 |
| 5x10 rm | 7 | 4.01 | 0.7 | 1.25 | 1.6 | 23 | 1190 | 1000 |
| 5x16 rm | 7 | 5.03 | 0.7 | 1.6 | 1.7 | 27 | 1775 | 1000 |
| 5x25 rm | 7 | 6.3 | 0.9 | 1.6 | 1.8 | 31 | 2450 | 1000 |
| 5x35 rm | 7 | 7.44 | 0.9 | 1.6 | 1.9 | 35 | 3075 | 500 |
| 5x50 rmc | 19 | 8.1 | 1.0 | 2.0 | 2.0 | 38 | 4040 | 500 |
| 5x70 rmc | 19 | 9.7 | 1.1 | 2.0 | 2.2 | 44 | 5355 | 500 |

rm: Round Stranded

rmc: Round Stranded Compacted

sm: Sectoral Stranded

Standard Colour Code:

4 cores: Red, Yellow, Blue, Black

5 cores: Red, Yellow, Blue, Black, Green/Yellow

Color Code based on special request

4 Cores: Blue, Brown, Black, Grey

5 Cores: Green/Yellow, Blue, Brown, Black, Grey



PVC INSULATED, PVC SHEATHED CABLES

COPPER CONDUCTOR STANDARD:IEC 60502-1

0.6/1 kV



CABLE CORE(S)

| Nominal Area | No. of wires | Approx. conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 1 x 1.5 re | 1 | 1.38 | 0.8 |
| 1 x 1.5 rm | 7 | 1.56 | 0.8 |
| 1 x 2.5 re | 1 | 1.78 | 0.8 |
| 1 x 2.5 rm | 7 | 2.01 | 0.8 |
| 1 x 4 re | 1 | 2.25 | 1.0 |
| 1 x 4 rm | 7 | 2.55 | 1.0 |
| 1 x 6 re | 1 | 2.76 | 1.0 |
| 1 x 6 rm | 7 | 3.12 | 1.0 |
| 1 x 10 re | 7 | 3.57 | 1.0 |
| 1 x 10 rm | 7 | 4.01 | 1.0 |
| 1 x 16 rm | 7 | 5.03 | 1.0 |
| 1 x 25 rm | 7 | 6.3 | 1.2 |
| 1 x 35 rm | 7 | 7.44 | 1.2 |
| 1 x 50 rmc | 19 | 8.1 | 1.4 |
| 1 x 70 rmc | 19 | 9.7 | 1.4 |
| 1 x 95 rmc | 19 | 11.4 | 1.6 |
| 1 x 120 rmc | 37 | 12.9 | 1.6 |
| 1 x 150 rmc | 37 | 14.3 | 1.8 |
| 1 x 185 rmc | 37 | 16.0 | 2.0 |
| 1 x 240 rmc | 61 | 18.4 | 2.2 |
| 1 x 300 rmc | 61 | 20.4 | 2.4 |
| 1 x 400 rmc | 61 | 23.2 | 2.6 |
| 1 x 500 rmc | 61 | 26.7 | 2.8 |
| 1 x 630 rmc | 61 | 30.4 | 2.8 |
| 1 x 800 rmc | 61 | 33.7 | 2.8 |
| 1 x 1000 rm | 91 | 41.0 | 3.0 |

CABLE CORE(S)

| | | | |
|------------|----|------|-----|
| 2 x 1.5 re | 1 | 1.38 | 0.8 |
| 2 x 1.5 rm | 7 | 1.56 | 0.8 |
| 2 x 2.5 re | 1 | 1.78 | 0.8 |
| 2 x 2.5 rm | 7 | 2.01 | 0.8 |
| 2 x 4 re | 1 | 2.25 | 1.0 |
| 2 x 4 rm | 7 | 2.55 | 1.0 |
| 2 x 6 re | 1 | 2.76 | 1.0 |
| 2 x 6 rm | 7 | 3.12 | 1.0 |
| 2 x 10 re | 1 | 3.57 | 1.0 |
| 2 x 10 rm | 7 | 4.01 | 1.0 |
| 2 x 16 rm | 7 | 5.03 | 1.0 |
| 2 x 25 sm | 7 | - | 1.2 |
| 2 x 35 sm | 7 | - | 1.2 |
| 2 x 50 sm | 19 | - | 1.4 |
| 2 x 70 sm | 19 | - | 1.4 |
| 2 x 95 sm | 19 | - | 1.6 |
| 2 x 120 sm | 37 | - | 1.6 |
| 2 x 150 sm | 37 | - | 1.8 |
| 2 x 185 sm | 37 | - | 2.0 |
| 2 x 240 sm | 61 | - | 2.2 |
| 2 x 300 sm | 61 | - | 2.4 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall Diameter | Aprrox. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | no. | Kg/Km | meter |
| 1.4 | 6 | 55 | 1000 |
| 1.4 | 6 | 55 | 1000 |
| 1.4 | 7 | 65 | 1000 |
| 1.4 | 7 | 70 | 1000 |
| 1.4 | 7 | 90 | 1000 |
| 1.4 | 8 | 95 | 1000 |
| 1.4 | 8 | 110 | 1000 |
| 1.4 | 8 | 120 | 1000 |
| 1.4 | 9 | 155 | 1000 |
| 1.4 | 9 | 165 | 1000 |
| 1.4 | 10 | 230 | 1000 |
| 1.4 | 12 | 335 | 1000 |
| 1.4 | 13 | 440 | 1000 |
| 1.4 | 14 | 550 | 1000 |
| 1.4 | 15 | 760 | 1000 |
| 1.5 | 18 | 1040 | 1000 |
| 1.5 | 19 | 1275 | 1000 |
| 1.6 | 21 | 1565 | 1000 |
| 1.7 | 24 | 1950 | 1000 |
| 1.7 | 27 | 2540 | 1000 |
| 1.8 | 29 | 3160 | 1000 |
| 1.9 | 33 | 4000 | 500 |
| 2.1 | 37 | 5070 | 500 |
| 2.2 | 40 | 6470 | 500 |
| 2.3 | 44 | 8150 | 250 |
| 2.5 | 52 | 10530 | 250 |

UNARMOURED

| | | | |
|-----|----|------|------|
| 1.8 | 12 | 200 | 1000 |
| 1.8 | 12 | 200 | 1000 |
| 1.8 | 13 | 225 | 1000 |
| 1.8 | 13 | 250 | 1000 |
| 1.8 | 15 | 325 | 1000 |
| 1.8 | 15 | 325 | 1000 |
| 1.8 | 16 | 375 | 1000 |
| 1.8 | 16 | 400 | 1000 |
| 1.8 | 18 | 500 | 1000 |
| 1.8 | 18 | 525 | 1000 |
| 1.8 | 20 | 700 | 1000 |
| 1.8 | 21 | 790 | 1000 |
| 1.8 | 22 | 1000 | 1000 |
| 1.8 | 25 | 1300 | 1000 |
| 1.9 | 28 | 1735 | 1000 |
| 2.0 | 32 | 2350 | 500 |
| 2.1 | 34 | 2855 | 500 |
| 2.2 | 38 | 3480 | 500 |
| 2.4 | 41 | 4360 | 500 |
| 2.6 | 46 | 5600 | 250 |
| 2.7 | 57 | 6960 | 250 |

re : Round Solid
rm : Round Stranded
sm : Sectoral Stranded
rmc : Round Stranded Compacted

Colour Code:
1 Core: Black (red on request)
2 Cores: Red, Black

Tolerance range:
Overall diameter ± 5%
Packing ± 5%

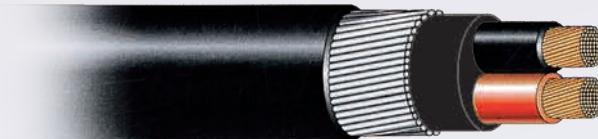


PVC INSULATED, PVC SHEATHED CABLES

COPPER CONDUCTOR

STANDARD: IEC 60502-1

0.6/1 kV



ALUMINIUM WIRE ARMOURED

| Nominal Alum./Steel Wire diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 1.8 | 1.8 | 13 | 225 | - |
| - | - | - | - | - |
| 1.8 | 1.8 | 14 | 250 | - |
| - | - | - | - | - |
| 1.8 | 1.8 | 14 | 300 | - |
| - | - | - | - | - |
| 1.8 | 1.8 | 15 | 325 | - |
| - | - | - | - | - |
| 1.8 | 1.8 | 16 | 400 | 1000 |
| 1.8 | 1.8 | 17 | 470 | 1000 |
| 1.8 | 1.8 | 18 | 610 | 1000 |
| 1.8 | 1.8 | 19 | 730 | 1000 |
| 1.8 | 1.8 | 20 | 870 | 1000 |
| 1.8 | 1.8 | 22 | 1110 | 1000 |
| 1.8 | 1.8 | 24 | 1420 | 1000 |
| 1.8 | 1.8 | 26 | 1675 | 1000 |
| 1.8 | 1.8 | 28 | 2000 | 1000 |
| 1.8 | 1.8 | 30 | 2400 | 500 |
| 1.8 | 1.9 | 33 | 3050 | 500 |
| 2.0 | 2.0 | 35 | 3750 | 500 |
| 2.0 | 2.1 | 39 | 4700 | 500 |
| 2.0 | 2.2 | 43 | 5875 | 500 |
| 2.0 | 2.4 | 47 | 7350 | 500 |
| 2.5 | 2.5 | 52 | 9325 | 250 |
| 2.5 | 2.7 | 60 | 11610 | 250 |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|------|------|
| - | - | - | - | - |
| - | 1.8 | 14 | 350 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | 400 | 1000 |
| 0.8 | 1.8 | 17 | 515 | 1000 |
| 0.8 | 1.8 | 17 | 525 | 1000 |
| 0.8 | 1.8 | 19 | 730 | 1000 |
| 1.25 | 1.8 | 19 | 750 | 1000 |
| 1.25 | 1.8 | 20 | 825 | 1000 |
| 1.25 | 1.8 | 21 | 900 | 1000 |
| 1.25 | 1.8 | 23 | 1120 | 1000 |
| 1.6 | 1.8 | 24 | 1360 | 1000 |
| 1.6 | 1.8 | 26 | 1620 | 1000 |
| 1.6 | 1.9 | 28 | 2010 | 500 |
| 2.0 | 2.0 | 32 | 2740 | 500 |
| 2.0 | 2.2 | 36 | 3510 | 500 |
| 2.0 | 2.3 | 38 | 4120 | 500 |
| 2.5 | 2.4 | 43 | 5230 | 500 |
| 2.5 | 2.6 | 47 | 6280 | 250 |
| 2.5 | 2.8 | 52 | 7740 | 250 |
| 2.5 | 2.9 | 56 | 9310 | 250 |

ALUMINIUM TAPE ARMOURED

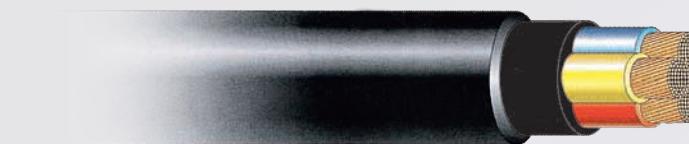
| Nominal Alum./Steel Wire diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| 0.5 | 1.8 | 14 | 300 | 1000 |
| 0.5 | 1.8 | 15 | 380 | 1000 |
| 0.5 | 1.8 | 17 | 500 | 1000 |
| 0.5 | 1.8 | 18 | 625 | 1000 |
| 0.5 | 1.8 | 19 | 775 | 1000 |
| 0.5 | 1.8 | 20 | 980 | 1000 |
| 0.5 | 1.8 | 22 | 1275 | 1000 |
| 0.5 | 1.8 | 23 | 1530 | 1000 |
| 0.5 | 1.8 | 26 | 1830 | 1000 |
| 0.5 | 1.8 | 28 | 2230 | 1000 |
| 0.5 | 1.9 | 30 | 2850 | 500 |
| 0.5 | 1.9 | 33 | 3480 | 500 |
| 0.5 | 2.1 | 37 | 4410 | 500 |
| 0.5 | 2.2 | 41 | 5550 | 500 |
| 0.5 | 2.3 | 45 | 6980 | 500 |
| - | - | - | - | - |
| - | - | - | - | - |

STEEL TAPE ARMOURED

| | | | | |
|-----|-----|----|------|------|
| - | - | - | - | - |
| 0.2 | 1.8 | 13 | 270 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 14 | 320 | 1000 |
| 0.2 | 1.8 | 15 | 400 | 1000 |
| 0.2 | 1.8 | 16 | 420 | 1000 |
| 0.2 | 1.8 | 17 | 460 | 1000 |
| 0.2 | 1.8 | 18 | 600 | 1000 |
| 0.2 | 1.8 | 19 | 640 | 1000 |
| 0.2 | 1.8 | 21 | 830 | 1000 |
| 0.2 | 1.8 | 22 | 910 | 1000 |
| 0.2 | 1.8 | 23 | 1130 | 1000 |
| 0.2 | 1.8 | 26 | 1440 | 1000 |
| 0.2 | 1.9 | 28 | 1900 | 1000 |
| 0.2 | 2.0 | 32 | 2540 | 500 |
| 0.5 | 2.2 | 36 | 3400 | 500 |
| 0.5 | 2.3 | 40 | 4080 | 500 |
| 0.5 | 2.4 | 43 | 4990 | 500 |
| 0.5 | 2.6 | 49 | 6310 | 250 |
| 0.5 | 2.8 | 53 | 7770 | 250 |



PVC INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:** **IEC 60502-1** **0.6/1 kV**



CABLE CORE(S)

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 3 x 1.5 re | 1 | 1.38 | 0.8 |
| 3 x 1.5 rm | 7 | 1.56 | 0.8 |
| 3 x 2.5 re | 1 | 1.78 | 0.8 |
| 3 x 2.5 rm | 7 | 2.01 | 0.8 |
| 3 x 4 re | 1 | 2.25 | 1.0 |
| 3 x 4 rm | 7 | 2.55 | 1.0 |
| 3 x 6 re | 1 | 2.76 | 1.0 |
| 3 x 6 rm | 7 | 3.12 | 1.0 |
| 3 x 10 re | 1 | 3.57 | 1.0 |
| 3 x 10 rm | 7 | 4.01 | 1.0 |
| 3 x 16 rm | 7 | 5.03 | 1.0 |
| 3 x 25 sm | 7 | - | 1.2 |
| 3 x 35 sm | 7 | - | 1.2 |
| 3 x 50 sm | 19 | - | 1.4 |
| 3 x 70 sm | 19 | - | 1.4 |
| 3 x 95 sm | 19 | - | 1.6 |
| 3 x 120 sm | 37 | - | 1.6 |
| 3 x 150 sm | 37 | - | 1.8 |
| 3 x 185 sm | 37 | - | 2.0 |
| 3 x 240 sm | 61 | - | 2.2 |
| 3 x 300 sm | 61 | - | 2.4 |
| 3 x 400 sm | 61 | - | 2.6 |
| 3 x 500 sm | 61 | - | 2.8 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 13 | 225 | 1000 |
| 1.8 | 13 | 240 | 1000 |
| 1.8 | 14 | 275 | 1000 |
| 1.8 | 14 | 300 | 1000 |
| 1.8 | 16 | 375 | 1000 |
| 1.8 | 16 | 400 | 1000 |
| 1.8 | 17 | 450 | 1000 |
| 1.8 | 17 | 485 | 1000 |
| 1.8 | 19 | 600 | 1000 |
| 1.8 | 19 | 590 | 1000 |
| 1.8 | 22 | 800 | 1000 |
| 1.8 | 23 | 1010 | 1000 |
| 1.8 | 25 | 1400 | 1000 |
| 1.8 | 28 | 1850 | 1000 |
| 2.0 | 32 | 2550 | 1000 |
| 2.1 | 36 | 3400 | 500 |
| 2.2 | 39 | 4160 | 500 |
| 2.3 | 43 | 5120 | 500 |
| 2.5 | 46 | 6340 | 500 |
| 2.7 | 53 | 8220 | 250 |
| 2.9 | 59 | 10170 | 250 |
| 3.1 | 67 | 12890 | 250 |
| 3.4 | 73 | 16290 | 250 |

re : Round Solid

rm : Round Stranded

sm : Sectoral Stranded

Colour Code:

3 cores: Red, Yellow, Blue

Tolerance range:

Overall diameter $\pm 5\%$

Packing $\pm 5\%$



PVC INSULATED, PVC SHEATHED CABLES

COPPER CONDUCTOR

STANDARD:IEC 60502-1

0.6/1 kV



STEEL WIRE ARMOURED

| Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|---------------------------|--------------------------------|--------------------------------|-------------------|---------------------|
| mm | mm | mm | Kg / Km | Meters |
| - | - | - | - | - |
| 0.8 | 1.8 | 14 | 400 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | 470 | 1000 |
| 1.25 | 1.8 | 18 | 685 | 1000 |
| 1.25 | 1.8 | 18 | 740 | 1000 |
| 1.25 | 1.8 | 19 | 800 | 1000 |
| 1.25 | 1.8 | 19 | 850 | 1000 |
| 1.25 | 1.8 | 21 | 1000 | 1000 |
| 1.25 | 1.8 | 22 | 1000 | 1000 |
| 1.25 | 1.8 | 24 | 1270 | 1000 |
| 1.6 | 1.8 | 26 | 1740 | 1000 |
| 1.6 | 1.8 | 28 | 2110 | 1000 |
| 1.6 | 2.0 | 32 | 2680 | 500 |
| 2.0 | 2.1 | 38 | 3710 | 500 |
| 2.0 | 2.2 | 40 | 4730 | 500 |
| 2.0 | 2.3 | 43 | 5590 | 500 |
| 2.5 | 2.5 | 47 | 7160 | 500 |
| 2.5 | 2.7 | 53 | 8560 | 250 |
| 2.5 | 2.9 | 59 | 10700 | 250 |
| 2.5 | 3.1 | 65 | 12900 | 250 |
| 3.15 | 3.4 | 74 | 16820 | 250 |
| 3.15 | 3.6 | 80 | 20600 | 250 |

STEEL TAPE ARMoured

| Steel Tape Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|------------------------|--------------------------------|--------------------------------|-------------------|---------------------|
| mm | mm | mm | Kg / Km | Meters |
| - | - | - | - | - |
| 0.2 | 1.8 | 14 | 300 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 15 | 360 | 1000 |
| 0.2 | 1.8 | 17 | 450 | 1000 |
| 0.2 | 1.8 | 17 | 480 | 1000 |
| 0.2 | 1.8 | 18 | 500 | 1000 |
| 0.2 | 1.8 | 18 | 580 | 1000 |
| 0.2 | 1.8 | 19 | 700 | 1000 |
| 0.2 | 1.8 | 20 | 770 | 1000 |
| 0.2 | 1.8 | 22 | 930 | 1000 |
| 0.2 | 1.8 | 24 | 1230 | 1000 |
| 0.2 | 1.8 | 26 | 1550 | 1000 |
| 0.2 | 1.9 | 29 | 2030 | 1000 |
| 0.2 | 2.0 | 33 | 2740 | 500 |
| 0.5 | 2.2 | 38 | 3980 | 500 |
| 0.5 | 2.3 | 41 | 4780 | 500 |
| 0.5 | 2.4 | 46 | 5810 | 500 |
| 0.5 | 2.6 | 50 | 7010 | 500 |
| 0.5 | 2.8 | 56 | 9080 | 500 |
| 0.5 | 2.9 | 61 | 11080 | 500 |
| 0.5 | 3.2 | 69 | 13960 | 500 |
| 0.5 | 3.4 | 75 | 17420 | 500 |

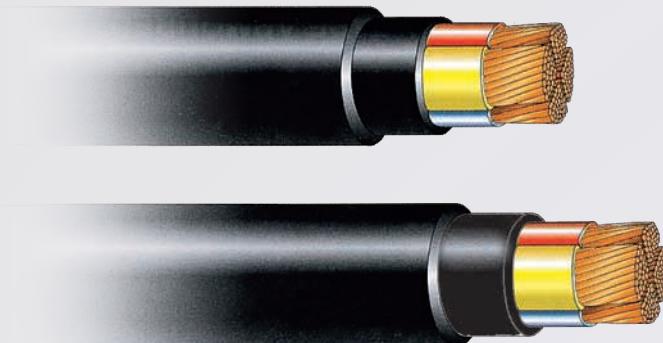


PVC INSULATED, PVC SHEATHED CABLES

COPPER CONDUCTOR

STANDARD:IEC 60502-1

0.6/1 kV



CABLE CORE (S)

| Nominal Area | No. of Wires | Approx. Conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 4 x 1.5 re | 1 | 1.38 | 0.8 |
| 4 x 1.5 rm | 7 | 1.56 | 0.8 |
| 4 x 2.5 re | 1 | 1.78 | 0.8 |
| 4 x 2.5 rm | 7 | 2.01 | 0.8 |
| 4 x 4 re | 1 | 2.25 | 1.0 |
| 4 x 4 rm | 7 | 2.55 | 1.0 |
| 4 x 6 re | 1 | 2.76 | 1.0 |
| 4 x 6 rm | 7 | 3.12 | 1.0 |
| 4 x 10 re | 1 | 3.57 | 1.0 |
| 4 x 10 rm | 7 | 4.01 | 1.0 |
| 4 x 16 rm | 7 | 5.03 | 1.0 |
| 4 x 25 sm | 7 | - | 1.2 |
| 4 x 35 sm | 7 | - | 1.2 |
| 4 x 50 sm | 19 | - | 1.4 |
| 4 x 70 sm | 19 | - | 1.4 |
| 4 x 95 sm | 19 | - | 1.6 |
| 4 x 120 sm | 37 | - | 1.6 |
| 4 x 150 sm | 37 | - | 1.8 |
| 4 x 185 sm | 37 | - | 2.0 |
| 4 x 240 sm | 61 | - | 2.2 |
| 4 x 300 sm | 61 | - | 2.4 |
| 4 x 400 sm | 61 | - | 2.6 |
| 4 x 500 sm | 61 | - | 2.8 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 14 | 250 | 1000 |
| 1.8 | 14 | 275 | 1000 |
| 1.8 | 15 | 325 | 1000 |
| 1.8 | 15 | 335 | 1000 |
| 1.8 | 17 | 450 | 1000 |
| 1.8 | 17 | 460 | 1000 |
| 1.8 | 18 | 550 | 1000 |
| 1.8 | 18 | 575 | 1000 |
| 1.8 | 20 | 750 | 1000 |
| 1.8 | 21 | 730 | 1000 |
| 1.8 | 24 | 1010 | 1000 |
| 1.8 | 25 | 1390 | 1000 |
| 1.8 | 28 | 1800 | 1000 |
| 1.9 | 32 | 2410 | 1000 |
| 2.1 | 36 | 3300 | 500 |
| 2.2 | 41 | 4425 | 500 |
| 2.4 | 45 | 5440 | 500 |
| 2.5 | 49 | 6700 | 500 |
| 2.7 | 55 | 8350 | 250 |
| 2.9 | 61 | 10765 | 250 |
| 3.1 | 67 | 13360 | 250 |
| 3.4 | 76 | 17000 | 250 |
| 3.7 | 83 | 21460 | 250 |

re: Round Solid

rm: Round Stranded

sm : Sectoral Stranded

Colour Code :

4 Cores : Red, Yellow, Blue, Black

Tolerance range:

Overall diameter ±5%

Packing ±5%

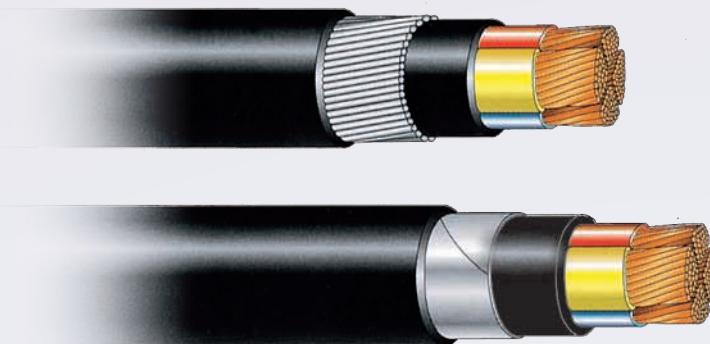


PVC INSULATED, PVC SHEATHED CABLES

COPPER CONDUCTOR

STANDARD:IEC 60502-1

0.6/1 kV



STEEL WIRE ARMOURED

| Steel Wire dia. | Nominal Sheath thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | 450 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 16 | 500 | - |
| 1.25 | 1.8 | 19 | 790 | 1000 |
| 1.25 | 1.8 | 20 | 825 | 1000 |
| 1.25 | 1.8 | 21 | 950 | 1000 |
| 1.25 | 1.8 | 21 | 975 | 1000 |
| 1.25 | 1.8 | 23 | 1175 | 1000 |
| 1.25 | 1.8 | 24 | 1175 | 1000 |
| 1.6 | 1.8 | 27 | 1675 | 1000 |
| 1.6 | 1.8 | 29 | 2110 | 1000 |
| 1.6 | 1.9 | 31 | 2590 | 1000 |
| 2.0 | 2.1 | 37 | 3615 | 500 |
| 2.0 | 2.2 | 40 | 4580 | 500 |
| 2.5 | 2.4 | 46 | 6340 | 500 |
| 2.5 | 2.5 | 50 | 7525 | 500 |
| 2.5 | 2.7 | 55 | 8950 | 500 |
| 2.5 | 2.9 | 60 | 10850 | 500 |
| 2.5 | 3.1 | 66 | 13580 | 250 |
| 3.15 | 3.3 | 73 | 17250 | 250 |
| 3.15 | 3.6 | 83 | 21375 | 250 |
| 3.15 | 3.9 | 90 | 26330 | 250 |

STEEL TAPE ARMoured

| Steel Tape Thickness | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|----------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 0.2 | 1.8 | 14 | 330 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 15 | 390 | 1000 |
| 0.2 | 1.8 | 18 | 525 | 1000 |
| 0.2 | 1.8 | 18 | 550 | 1000 |
| 0.2 | 1.8 | 19 | 640 | 1000 |
| 0.2 | 1.8 | 19 | 675 | 1000 |
| 0.2 | 1.8 | 21 | 850 | 1000 |
| 0.2 | 1.8 | 22 | 850 | 1000 |
| 0.2 | 1.8 | 24 | 1150 | 1000 |
| 0.2 | 1.8 | 26 | 1540 | 1000 |
| 0.2 | 1.8 | 29 | 1950 | 1000 |
| 0.2 | 2.0 | 33 | 2625 | 500 |
| 0.5 | 2.1 | 38 | 3850 | 500 |
| 0.5 | 2.3 | 43 | 5075 | 500 |
| 0.5 | 2.4 | 47 | 6150 | 500 |
| 0.5 | 2.6 | 52 | 7475 | 500 |
| 0.5 | 2.7 | 57 | 9200 | 500 |
| 0.5 | 3.0 | 63 | 11740 | 250 |
| 0.5 | 3.2 | 69 | 14425 | 250 |
| 0.5 | 3.5 | 78 | 18200 | 250 |
| 0.8 | 3.8 | 87 | 23590 | 250 |



PVC INSULATED, PVC SHEATHED CABLES

ALUMINIUM CONDUCTOR

STANDARD: IEC 60502-1

0.6/1 kV



CABLE CORE(S)

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | no. | mm | mm |
| 1 x 16 rm | 7 | 5.2 | 1.0 |
| 1 x 25 rm | 7 | 6.0 | 1.2 |
| 1 x 35 rm | 7 | 7.41 | 1.2 |
| 1 x 50 rmc | 7 | 8.30 | 1.4 |
| 1 x 70 rmc | 19 | 9.70 | 1.4 |
| 1 x 95 rmc | 19 | 11.55 | 1.6 |
| 1 x 120 rmc | 19 | 12.95 | 1.6 |
| 1 x 150 rmc | 19 | 14.30 | 1.8 |
| 1 x 185 rmc | 37 | 15.9 | 2.0 |
| 1 x 240 rmc | 37 | 18.4 | 2.2 |
| 1 x 300 rmc | 37 | 20.5 | 2.4 |
| 1 x 400 rmc | 61 | 24.0 | 2.6 |
| 1 x 500 rmc | 61 | 27.0 | 2.8 |
| 1 x 630 rmc | 61 | 30.4 | 2.8 |

CABLE CORE(S)

| | | | |
|-----------|---|------|-----|
| 2 x 16 rm | 7 | 5.2 | 1.0 |
| 2 x 25 rm | 7 | 6.30 | 1.2 |
| 2 x 35 rm | 7 | 7.41 | 1.2 |

CABLE CORE(S)

| | | | |
|-------------|----|-------|-----|
| 3 x 16 rm | 7 | 5.2 | 1.0 |
| 3 x 25 rm | 7 | 6.30 | 1.2 |
| 3 x 35 rm | 7 | 7.41 | 1.2 |
| 3 x 50 rmc | 7 | 8.30 | 1.4 |
| 3 x 70 rmc | 19 | 9.7 | 1.4 |
| 3 x 95 rmc | 19 | 11.5 | 1.6 |
| 3 x 120 rmc | 19 | 12.95 | 1.6 |
| 3 x 150 rmc | 19 | 14.30 | 1.8 |
| 3 x 185 rmc | 37 | 15.9 | 2.0 |
| 3 x 240 rmc | 37 | 18.4 | 2.2 |
| 3 x 300 rmc | 37 | 20.5 | 2.4 |
| 3 x 400 rmc | 61 | 24.0 | 2.6 |
| 3 x 500 rmc | 61 | 27.0 | 2.8 |

rm: Round Stranded

rmc: Round Stranded Compacted

Colour Code:

- 1 Core: Black (Red on request)
- 2 Cores: Red, Black
- 3 Cores: Red, Yellow, Blue

Tolerance range:

Overall diameter ± 5%
Packing ± 5%

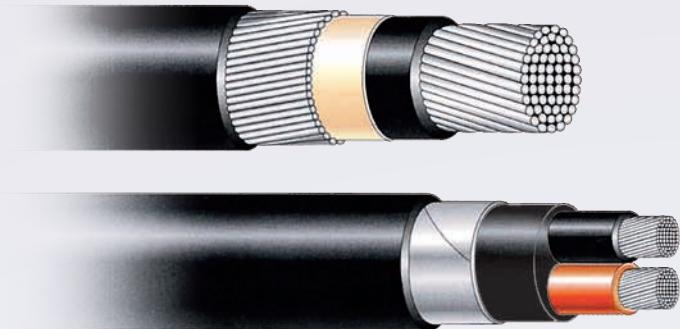


PVC INSULATED, PVC SHEATHED CABLES

ALUMINIUM CONDUCTOR

STANDARD:IEC 60502-1

0.6/1 kV



ALUMINIUM WIRE ARMOURED

| Nominal Alum / Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|------------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg / Km | Meters |
| 0.8 | 1.8 | 15 | 300 | 1000 |
| 0.8 | 1.8 | 16 | 350 | 1000 |
| 0.8 | 1.8 | 17 | 410 | 1000 |
| 1.25 | 1.8 | 20 | 525 | 1000 |
| 1.25 | 1.8 | 21 | 625 | 1000 |
| 1.25 | 1.8 | 23 | 775 | 1000 |
| 1.6 | 1.8 | 25 | 925 | 1000 |
| 1.6 | 1.8 | 27 | 1060 | 1000 |
| 1.6 | 1.8 | 29 | 1240 | 1000 |
| 1.6 | 1.9 | 32 | 1530 | 500 |
| 2.0 | 2.0 | 36 | 1900 | 500 |
| 2.0 | 2.1 | 40 | 2375 | 500 |
| 2.0 | 2.2 | 44 | 2850 | 500 |
| 2.0 | 2.4 | 48 | 3425 | 500 |

ALUMINIUM TAPE ARMOURED

| Nominal Alum / Steel tape thickness | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-------------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | Meters |
| 0.5 | 1.8 | 15 | 285 | 1000 |
| 0.5 | 1.8 | 17 | 360 | 1000 |
| 0.5 | 1.8 | 18 | 425 | 1000 |
| 0.5 | 1.8 | 20 | 480 | 1000 |
| 0.5 | 1.8 | 21 | 570 | 1000 |
| 0.5 | 1.8 | 24 | 710 | 1000 |
| 0.5 | 1.8 | 25 | 800 | 1000 |
| 0.5 | 1.8 | 27 | 950 | 1000 |
| 0.5 | 1.8 | 29 | 1100 | 1000 |
| 0.5 | 1.9 | 32 | 1380 | 500 |
| 0.5 | 1.9 | 35 | 1620 | 500 |
| 0.5 | 2.1 | 39 | 2070 | 500 |
| 0.5 | 2.2 | 43 | 2530 | 500 |
| 0.5 | 2.3 | 45 | 3050 | 500 |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|------|------|
| 1.25 | 1.8 | 24 | 980 | 1000 |
| 1.6 | 1.8 | 27 | 1400 | 1000 |
| 1.6 | 1.8 | 29 | 1610 | 1000 |

STEEL TAPE ARMOURED

| | | | | |
|-----|-----|----|------|------|
| 0.2 | 1.8 | 21 | 650 | 1000 |
| 0.2 | 1.8 | 24 | 860 | 1000 |
| 0.2 | 1.8 | 26 | 1030 | 1000 |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|-------|------|
| 1.25 | 1.8 | 25 | 1000 | 1000 |
| 1.6 | 1.8 | 28 | 1420 | 1000 |
| 1.6 | 1.8 | 31 | 1650 | 1000 |
| 1.6 | 2.0 | 34 | 1930 | 500 |
| 2.0 | 2.1 | 39 | 2590 | 500 |
| 2.0 | 2.2 | 44 | 3200 | 500 |
| 2.0 | 2.3 | 47 | 3625 | 500 |
| 2.5 | 2.5 | 52 | 4725 | 500 |
| 2.5 | 2.7 | 57 | 5500 | 250 |
| 2.5 | 2.9 | 64 | 6775 | 250 |
| 2.5 | 3.1 | 70 | 7875 | 250 |
| 3.15 | 3.4 | 81 | 10600 | 250 |
| 3.15 | 3.6 | 88 | 12550 | 250 |

STEEL TAPE ARMOURED

| | | | | |
|-----|-----|----|------|------|
| 0.2 | 1.8 | 23 | 660 | 1000 |
| 0.2 | 1.8 | 26 | 860 | 1000 |
| 0.2 | 1.8 | 28 | 1025 | 1000 |
| 0.2 | 1.9 | 32 | 1225 | 1000 |
| 0.2 | 2.0 | 35 | 1550 | 500 |
| 0.5 | 2.2 | 41 | 2400 | 500 |
| 0.5 | 2.3 | 45 | 2770 | 500 |
| 0.5 | 2.4 | 49 | 3300 | 500 |
| 0.5 | 2.6 | 54 | 3940 | 500 |
| 0.5 | 2.8 | 61 | 4980 | 500 |
| 0.5 | 3.0 | 66 | 5900 | 500 |
| 0.5 | 3.2 | 76 | 7450 | 250 |
| 0.5 | 3.4 | 83 | 9050 | 250 |



PVC INSULATED, PVC SHEATHED CABLES
ALUMINIUM CONDUCTOR **STANDARD: IEC 60502-1** **0.6 / 1 kV**



CABLE CORE(S)

| Nominal Area | No. of Wires | Approx. Conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 4 x 16 rm | 7 | 5.2 | 1.0 |
| 4 x 25 rm | 7 | 6.30 | 1.2 |
| 4 x 35 sm | 7 | - | 1.2 |
| 4 x 50 sm | 7 | - | 1.4 |
| 4 x 70 sm | 19 | - | 1.4 |
| 4 x 95 sm | 19 | - | 1.6 |
| 4 x 120 sm | 19 | - | 1.6 |
| 4 x 150 sm | 37 | - | 1.8 |
| 4 x 185 sm | 37 | - | 2.0 |
| 4 x 240 sm | 61 | - | 2.2 |
| 4 x 300 sm | 61 | - | 2.4 |
| 4 x 400 sm | 61 | - | 2.6 |
| 4 x 500 sm | 61 | - | 2.8 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 24 | 640 | 1000 |
| 1.8 | 27 | 875 | 1000 |
| 1.8 | 28 | 950 | 1000 |
| 1.9 | 32 | 1260 | 500 |
| 2.1 | 36 | 1630 | 500 |
| 2.2 | 41 | 2110 | 500 |
| 2.3 | 45 | 2525 | 500 |
| 2.5 | 49 | 3075 | 500 |
| 2.7 | 55 | 3800 | 500 |
| 2.9 | 61 | 4825 | 250 |
| 3.1 | 67 | 5890 | 250 |
| 3.4 | 76 | 7475 | 250 |
| 3.7 | 83 | 9250 | 250 |

rm: Round Stranded

sm: Sectoral Stranded

Colour Code :

3½ Cores : Red, Yellow, Blue, Black

4 Cores: Red, Yellow, Blue, Black

Tolerance Range:

Overall diameter ±5%

Packing ±5%

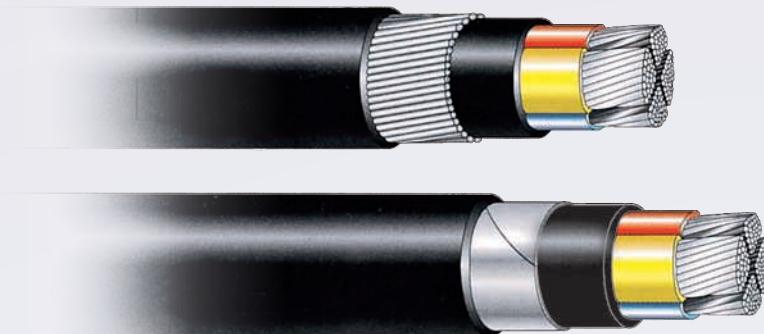


PVC INSULATED, PVC SHEATHED CABLES

ALUMINIUM CONDUCTOR

STANDARD:IE 60502-1

0.6/1 kV



STEEL WIRE ARMOURED

| Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|---------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg / Km | meters |
| 1.6 | 1.8 | 27 | 1310 | 1000 |
| 1.6 | 1.8 | 31 | 1640 | 1000 |
| 1.6 | 1.9 | 31 | 1750 | 500 |
| 2.0 | 2.1 | 37 | 2470 | 500 |
| 2.0 | 2.2 | 40 | 2930 | 500 |
| 2.5 | 2.4 | 46 | 4025 | 500 |
| 2.5 | 2.5 | 50 | 4600 | 500 |
| 2.5 | 2.7 | 55 | 5325 | 500 |
| 2.5 | 2.9 | 60 | 6320 | 250 |
| 2.5 | 3.1 | 66 | 7650 | 250 |
| 3.15 | 3.3 | 73 | 9790 | 250 |
| 3.15 | 3.6 | 83 | 11850 | 250 |
| 3.15 | 3.9 | 90 | 14100 | 250 |

STEEL TAPE ARMOURED

| Steel Tape Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|---------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| 0.2 | 1.8 | 25 | 775 | 1000 |
| 0.2 | 1.8 | 28 | 1030 | 1000 |
| 0.2 | 1.8 | 29 | 1110 | 1000 |
| 0.2 | 2.0 | 33 | 1475 | 500 |
| 0.5 | 2.1 | 38 | 2175 | 500 |
| 0.5 | 2.3 | 43 | 2760 | 500 |
| 0.5 | 2.4 | 47 | 3230 | 500 |
| 0.5 | 2.6 | 51 | 3850 | 500 |
| 0.5 | 2.7 | 57 | 4650 | 500 |
| 0.5 | 3.0 | 63 | 5800 | 250 |
| 0.5 | 3.2 | 69 | 6950 | 250 |
| 0.5 | 3.5 | 78 | 8675 | 250 |
| 0.8 | 3.8 | 87 | 11380 | 250 |



XLPE INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTORS **STANDARD: IEC 60502-1** **0.6/1 kV**



CABLE CORE(S)

| Nominal Area | No. of wires | Approx. conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 1 x 1.5 re | 1 | 1.38 | 0.7 |
| 1 x 1.5 rm | 7 | 1.56 | 0.7 |
| 1 x 2.5 re | 1 | 1.78 | 0.7 |
| 1 x 2.5 rm | 7 | 2.01 | 0.7 |
| 1 x 4 re | 1 | 2.25 | 0.7 |
| 1 x 4 rm | 7 | 2.55 | 0.7 |
| 1 x 6 re | 1 | 2.76 | 0.7 |
| 1 x 6 rm | 7 | 3.12 | 0.7 |
| 1 x 10 rm | 7 | 4.01 | 0.7 |
| 1 x 16 rm | 7 | 5.03 | 0.7 |
| 1 x 25 rm | 7 | 6.3 | 0.9 |
| 1 x 35 rm | 7 | 7.44 | 0.9 |
| 1 x 50 rmc | 19 | 8.1 | 1.0 |
| 1 x 70 rmc | 19 | 9.7 | 1.1 |
| 1 x 95 rmc | 19 | 11.4 | 1.1 |
| 1 x 120 rmc | 37 | 12.9 | 1.2 |
| 1 x 150 rmc | 37 | 14.3 | 1.4 |
| 1 x 185 rmc | 37 | 16.0 | 1.6 |
| 1 x 240 rmc | 61 | 18.4 | 1.7 |
| 1 x 300 rm | 61 | 20.4 | 1.8 |
| 1 x 400 rmc | 61 | 23.2 | 2.0 |
| 1 x 500 rmc | 61 | 26.7 | 2.2 |
| 1 x 630 rmc | 61 | 30.4 | 2.4 |
| 1 x 800 rmc | 61 | 33.7 | 2.6 |
| 1 x 1000 rm | 91 | 41.0 | 2.8 |

CABLE CORE(S)

| | | | |
|------------|---|------|-----|
| 2 x 1.5 re | 1 | 1.38 | 0.7 |
| 2 x 1.5 rm | 7 | 1.56 | 0.7 |
| 2 x 2.5 re | 1 | 1.78 | 0.7 |
| 2 x 2.5 rm | 7 | 2.01 | 0.7 |
| 2 x 4 re | 1 | 2.25 | 0.7 |
| 2 x 4 rm | 7 | 2.55 | 0.7 |
| 2 x 6 re | 1 | 2.76 | 0.7 |
| 2 x 6 rm | 7 | 3.12 | 0.7 |
| 2 x 10 rm | 7 | 4.01 | 0.7 |
| 2 x 16 rm | 7 | 5.03 | 0.7 |
| 2 x 25 sm | 7 | - | 0.9 |
| 2 x 35 sm | 7 | - | 0.9 |

re: Round Solid

rm: Round Stranded

rmc: Round Stranded Compacted

Colour Code:

1 Core: Black (red on request)

2 Cores: Red, Black

Tolerance range:

Overall diameter ± 5%

Packing ± 5%

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall Diameter | Aprrox. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meter |
| 1.4 | 6 | 45 | 1000 |
| 1.4 | 6 | 50 | 1000 |
| 1.4 | 6 | 60 | 1000 |
| 1.4 | 7 | 60 | 1000 |
| 1.4 | 7 | 75 | 1000 |
| 1.4 | 7 | 80 | 1000 |
| 1.4 | 7 | 95 | 1000 |
| 1.4 | 8 | 100 | 1000 |
| 1.4 | 9 | 145 | 1000 |
| 1.4 | 10 | 200 | 1000 |
| 1.4 | 11 | 300 | 1000 |
| 1.4 | 12 | 400 | 1000 |
| 1.4 | 13 | 515 | 1000 |
| 1.4 | 15 | 720 | 1000 |
| 1.5 | 17 | 975 | 1000 |
| 1.5 | 19 | 1210 | 1000 |
| 1.6 | 21 | 1490 | 1000 |
| 1.6 | 23 | 1850 | 1000 |
| 1.7 | 25 | 2400 | 1000 |
| 1.8 | 28 | 3000 | 1000 |
| 1.9 | 31 | 3800 | 500 |
| 2.0 | 35 | 4850 | 500 |
| 2.2 | 40 | 6250 | 500 |
| 2.3 | 44 | 7950 | 500 |
| 2.4 | 51 | 10180 | 250 |

UNARMOURED

| | | | |
|-----|----|-----|------|
| 1.8 | 12 | 175 | 1000 |
| 1.8 | 12 | 200 | 1000 |
| 1.8 | 13 | 225 | 1000 |
| 1.8 | 13 | 225 | 1000 |
| 1.8 | 14 | 275 | 1000 |
| 1.8 | 14 | 270 | 1000 |
| 1.8 | 15 | 325 | 1000 |
| 1.8 | 15 | 340 | 1000 |
| 1.8 | 17 | 455 | 1000 |
| 1.8 | 19 | 620 | 1000 |
| 1.8 | 19 | 715 | 1000 |
| 1.8 | 21 | 915 | 1000 |



XLPE INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



ALUMINIUM WIRE ARMOURED

| Nominal Alum./Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 0.8 | 1.8 | 10 | 150 | - |
| - | - | - | - | - |
| 0.8 | 1.8 | 11 | 150 | - |
| - | - | - | - | - |
| 0.8 | 1.8 | 11 | 175 | - |
| - | - | - | - | - |
| 0.8 | 1.8 | 12 | 225 | - |
| 0.8 | 1.8 | 13 | 275 | - |
| 0.8 | 1.8 | 16 | 435 | - |
| 0.8 | 1.8 | 17 | 570 | 1000 |
| 0.8 | 1.8 | 18 | 680 | 1000 |
| 1.25 | 1.8 | 19 | 820 | 1000 |
| 1.25 | 1.8 | 21 | 1055 | 1000 |
| 1.25 | 1.8 | 22 | 1330 | 1000 |
| 1.6 | 1.8 | 24 | 1600 | 1000 |
| 1.6 | 1.8 | 26 | 1900 | 1000 |
| 1.6 | 1.8 | 28 | 2300 | 1000 |
| 1.6 | 1.9 | 31 | 2900 | 500 |
| 1.6 | 2.0 | 33 | 3540 | 500 |
| 2.0 | 2.1 | 38 | 3540 | 500 |
| 2.0 | 2.2 | 42 | 5635 | 500 |
| 2.0 | 2.3 | 46 | 7100 | 500 |
| 2.5 | 2.5 | 52 | 9120 | 250 |
| 2.5 | 2.7 | 60 | 11290 | 250 |

ALUMINIUM TAPE ARMOURED

| Nominal Alum./Steel Tape Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| 0.5 | 1.8 | 16 | 460 | 1000 |
| 0.5 | 1.8 | 17 | 570 | 1000 |
| 0.5 | 1.8 | 18 | 700 | 1000 |
| 0.5 | 1.8 | 20 | 930 | 1000 |
| 0.5 | 1.8 | 21 | 1220 | 1000 |
| 0.5 | 1.8 | 23 | 1460 | 1000 |
| 0.5 | 1.8 | 25 | 1750 | 1000 |
| 0.5 | 1.8 | 27 | 2130 | 1000 |
| 0.5 | 1.8 | 29 | 2700 | 500 |
| 0.5 | 1.9 | 32 | 3320 | 500 |
| 0.5 | 2.0 | 36 | 4210 | 500 |
| 0.5 | 2.1 | 40 | 5310 | 500 |
| 0.5 | 2.3 | 44 | 6760 | 500 |
| - | - | - | - | - |
| - | - | - | - | - |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|------|------|
| - | - | - | - | - |
| 0.8 | 1.8 | 14 | 325 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | 380 | 1000 |
| 0.8 | 1.8 | 15 | 450 | 1000 |
| 0.8 | 1.8 | 16 | 450 | 1000 |
| 0.8 | 1.8 | 16 | 525 | 1000 |
| 0.8 | 1.8 | 17 | 530 | 1000 |
| 1.25 | 1.8 | 19 | 810 | 1000 |
| 1.25 | 1.8 | 21 | 1020 | 1000 |
| 1.6 | 1.8 | 25 | 1525 | 1000 |
| 1.6 | 1.8 | 28 | 1850 | 1000 |

STEEL TAPE ARMOURED

| | | | | |
|-----|-----|----|------|------|
| - | - | - | - | - |
| 0.2 | 1.8 | 13 | 250 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 13 | 300 | 1000 |
| 0.2 | 1.8 | 15 | 350 | 1000 |
| 0.2 | 1.8 | 15 | 350 | 1000 |
| 0.2 | 1.8 | 16 | 400 | 1000 |
| 0.2 | 1.8 | 16 | 440 | 1000 |
| 0.2 | 1.8 | 18 | 570 | 1000 |
| 0.2 | 1.8 | 20 | 750 | 1000 |
| 0.2 | 1.8 | 20 | 830 | 1000 |
| 0.2 | 1.8 | 22 | 1040 | 1000 |



XLPE INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



CABLE CORE(S)

| Nominal Area | No. of Wires | Approx. Conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 3 x 1.5 re | 1 | 1.38 | 0.7 |
| 3 x 1.5 rm | 7 | 1.56 | 0.7 |
| 3 x 2.5 re | 1 | 1.78 | 0.7 |
| 3 x 2.5 rm | 7 | 2.01 | 0.7 |
| 3 x 4 re | 1 | 2.25 | 0.7 |
| 3 x 4 rm | 7 | 2.55 | 0.7 |
| 3 x 6 re | 1 | 2.76 | 0.7 |
| 3 x 6 rm | 7 | 3.12 | 0.7 |
| 3 x 10 rm | 7 | 4.01 | 0.7 |
| 3 x 16 rm | 7 | 5.03 | 0.7 |
| 3 x 25 sm | 7 | - | 0.9 |
| 3 x 35 sm | 7 | - | 0.9 |
| 3 x 50 sm | 19 | - | 1.0 |
| 3 x 70 sm | 19 | - | 1.1 |
| 3 x 95 sm | 19 | - | 1.1 |
| 3 x 120 sm | 37 | - | 1.2 |
| 3 x 150 sm | 37 | - | 1.4 |
| 3 x 185 sm | 37 | - | 1.6 |
| 3 x 240 sm | 61 | - | 1.7 |
| 3 x 300 sm | 61 | - | 1.8 |
| 3 x 400 sm | 61 | - | 2.0 |
| 3 x 500 sm | 61 | - | 2.2 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Stranded Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 13 | 200 | 1000 |
| 1.8 | 12 | 210 | 1000 |
| 1.8 | 13 | 250 | 1000 |
| 1.8 | 13 | 260 | 1000 |
| 1.8 | 14 | 325 | 1000 |
| 1.8 | 15 | 335 | 1000 |
| 1.8 | 15 | 400 | 1000 |
| 1.8 | 16 | 410 | 1000 |
| 1.8 | 18 | 525 | 1000 |
| 1.8 | 20 | 725 | 1000 |
| 1.8 | 21 | 1000 | 1000 |
| 1.8 | 23 | 1300 | 1000 |
| 1.8 | 26 | 1690 | 1000 |
| 1.9 | 30 | 2370 | 500 |
| 2.0 | 34 | 3140 | 500 |
| 2.1 | 37 | 3900 | 500 |
| 2.3 | 42 | 4830 | 500 |
| 2.4 | 46 | 5970 | 500 |
| 2.6 | 51 | 7750 | 250 |
| 2.8 | 56 | 9580 | 250 |
| 3.1 | 64 | 12150 | 250 |
| 3.3 | 70 | 15470 | 250 |

re: Round Solid

rm: Round Stranded

sm: Sectoral Stranded

Colour Code :

3 Cores : Red, Yellow, Blue

Tolerance Range:

Overall diameter ±5%
Packing ±5%



XLPE INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



STEEL WIRE ARMOURED

| Steel Wire Diameter mm | Nominal Sheath Thickness mm | Approx. Overall diameter mm | Approx. Weight Kg/Km | Standard Packing meters |
|---------------------------|--------------------------------|--------------------------------|-------------------------|----------------------------|
| - | - | - | - | - |
| 0.8 | 1.8 | 14 | 370 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | 440 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 16 | 530 | 1000 |
| 0.8 | 1.8 | 17 | 575 | 1000 |
| 0.8 | 1.8 | 17 | 630 | 1000 |
| 1.25 | 1.8 | 20 | 900 | 1000 |
| 1.25 | 1.8 | 23 | 1160 | 1000 |
| 1.6 | 1.8 | 25 | 1600 | 1000 |
| 1.6 | 1.8 | 27 | 1970 | 1000 |
| 1.6 | 1.9 | 30 | 2460 | 1000 |
| 2.0 | 2.0 | 35 | 3480 | 500 |
| 2.0 | 2.2 | 41 | 4600 | 500 |
| 2.0 | 2.3 | 41 | 5270 | 500 |
| 2.5 | 2.5 | 47 | 6790 | 500 |
| 2.5 | 2.6 | 51 | 8100 | 250 |
| 2.5 | 2.8 | 57 | 10130 | 250 |
| 2.5 | 3.0 | 62 | 12190 | 250 |
| 2.5 | 3.2 | 69 | 15070 | 250 |
| 3.15 | 3.5 | 77 | 19580 | 250 |

STEEL TAPE ARMOURED

| Nominal Alum/ Steel Tape Thickness mm | Nominal Sheath Thickness mm | Approx. Overall diameter mm | Approx. Weight Kg/Km | Standard Packing meters |
|--|-----------------------------------|-----------------------------------|----------------------------|-------------------------------|
| - | - | - | - | - |
| 0.2 | 1.8 | 13 | 275 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 14 | 310 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 15 | 390 | 1000 |
| 0.2 | 1.8 | 16 | 475 | 1000 |
| 0.2 | 1.8 | 17 | 470 | 1000 |
| 0.2 | 1.8 | 19 | 630 | 1000 |
| 0.2 | 1.8 | 21 | 850 | 1000 |
| 0.2 | 1.8 | 22 | 1130 | 1000 |
| 0.2 | 1.8 | 24 | 1430 | 1000 |
| 0.2 | 1.8 | 27 | 1845 | 1000 |
| 0.2 | 1.9 | 31 | 2550 | 500 |
| 0.2 | 2.1 | 35 | 3360 | 500 |
| 0.5 | 2.2 | 40 | 4490 | 500 |
| 0.5 | 2.4 | 44 | 5490 | 500 |
| 0.5 | 2.5 | 48 | 6700 | 500 |
| 0.5 | 2.7 | 53 | 8560 | 250 |
| 0.5 | 2.9 | 58 | 10480 | 250 |
| 0.5 | 3.1 | 65 | 13130 | 250 |
| 0.5 | 3.3 | 73 | 16560 | 250 |



XLPE INSULATED, PVC SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



CABLE CORE(S)

| Nominal Area | No. of Wires | Approx. Conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 4 x 1.5 re | 1 | 1.38 | 0.7 |
| 4 x 1.5 rm | 7 | 1.56 | 0.7 |
| 4 x 2.5 re | 1 | 1.78 | 0.7 |
| 4 x 2.5 rm | 7 | 2.01 | 0.7 |
| 4 x 4 re | 1 | 2.25 | 0.7 |
| 4 x 4 rm | 7 | 2.55 | 0.7 |
| 4 x 6 re | 1 | 2.76 | 0.7 |
| 4 x 6 rm | 7 | 3.12 | 0.7 |
| 4 x 10 re | 1 | 3.57 | 0.7 |
| 4 x 10 rm | 7 | 4.01 | 0.7 |
| 4 x 16 rm | 7 | 5.03 | 0.7 |
| 4 x 25 sm | 7 | - | 0.9 |
| 4 x 35 sm | 7 | - | 0.9 |
| 4 x 50 sm | 19 | - | 1.0 |
| 4 x 70 sm | 19 | - | 1.1 |
| 4 x 95 sm | 19 | - | 1.1 |
| 4 x 120 sm | 37 | - | 1.2 |
| 4 x 150 sm | 37 | - | 1.4 |
| 4 x 185 sm | 37 | - | 1.6 |
| 4 x 240 sm | 61 | - | 1.7 |
| 4 x 300 sm | 61 | - | 1.8 |
| 4 x 400 sm | 61 | - | 2.0 |
| 4 x 500 sm | 61 | - | 2.2 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 14 | 250 | 1000 |
| 1.8 | 13 | 250 | 1000 |
| 1.8 | 15 | 300 | 1000 |
| 1.8 | 14 | 300 | 1000 |
| 1.8 | 16 | 400 | 1000 |
| 1.8 | 16 | 390 | 1000 |
| 1.8 | 18 | 500 | 1000 |
| 1.8 | 17 | 490 | 1000 |
| 1.8 | 20 | 650 | 1000 |
| 1.8 | 19 | 650 | 1000 |
| 1.8 | 22 | 900 | 1000 |
| 1.8 | 26 | 1350 | 1000 |
| 1.8 | 26 | 1650 | 1000 |
| 1.9 | 30 | 2180 | 1000 |
| 2.0 | 34 | 3050 | 500 |
| 2.1 | 38 | 4100 | 500 |
| 2.3 | 42 | 5125 | 500 |
| 2.4 | 47 | 6290 | 500 |
| 2.6 | 52 | 7815 | 500 |
| 2.8 | 58 | 10150 | 250 |
| 3.0 | 64 | 12590 | 250 |
| 3.3 | 73 | 16090 | 250 |
| 3.5 | 80 | 20380 | 250 |

re: Round Solid

rm: Round Stranded

sm : Sectoral Stranded

Colour Code :

4 Cores : Red, Yellow, Blue, Black

Tolerance range:

Overall diameter ±5%

Packing ±5%

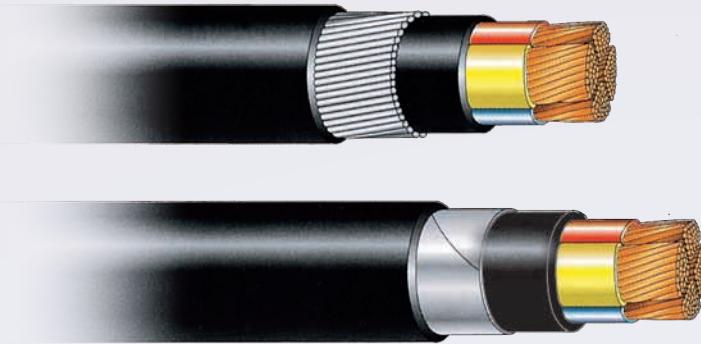


XLPE INSULATED, PVC SHEATHED CABLES

COPPER CONDUCTOR

STANDARD: IEC 60502-1

0.6/1 kV



STEEL WIRE ARMOURED

| Steel Wire dia. | Nominal Sheath thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| 0.8 | 1.8 | 15 | 410 | 1000 |
| 0.8 | 1.8 | 15 | 400 | 1000 |
| 0.8 | 1.8 | 16 | 490 | 1000 |
| 0.8 | 1.8 | 16 | 475 | 1000 |
| 0.8 | 1.8 | 17 | 550 | 1000 |
| 0.8 | 1.8 | 17 | 600 | 1000 |
| 1.25 | 1.8 | 19 | 775 | 1000 |
| 1.25 | 1.8 | 20 | 825 | 1000 |
| 1.25 | 1.8 | 22 | 1010 | 1000 |
| 1.25 | 1.8 | 22 | 1060 | 1000 |
| 1.6 | 1.8 | 25 | 1525 | 1000 |
| 1.6 | 1.8 | 29 | 2075 | 1000 |
| 1.6 | 1.9 | 29 | 2400 | 1000 |
| 1.6 | 2.0 | 33 | 3030 | 1000 |
| 2.0 | 2.2 | 38 | 4320 | 500 |
| 2.0 | 2.3 | 42 | 5500 | 500 |
| 2.5 | 2.5 | 48 | 7080 | 500 |
| 2.5 | 2.6 | 52 | 8460 | 500 |
| 2.5 | 2.8 | 57 | 10200 | 250 |
| 2.5 | 3.0 | 63 | 12850 | 250 |
| 2.5 | 3.2 | 69 | 15540 | 250 |
| 3.15 | 3.5 | 79 | 20325 | 250 |
| 3.15 | 3.8 | 87 | 25075 | 250 |

STEEL TAPE ARMOURED

| Steel Tape Thickness | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|----------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 0.2 | 1.8 | 14 | 300 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 15 | 360 | 1000 |
| 0.2 | 1.8 | 16 | 455 | 1000 |
| 0.2 | 1.8 | 16 | 450 | 1000 |
| 0.2 | 1.8 | 17 | 560 | 1000 |
| 0.2 | 1.8 | 18 | 555 | 1000 |
| 0.2 | 1.8 | 19 | 750 | 1000 |
| 0.2 | 1.8 | 20 | 760 | 1000 |
| 0.2 | 1.8 | 23 | 1030 | 1000 |
| 0.2 | 1.8 | 24 | 1400 | 1000 |
| 0.2 | 1.8 | 27 | 1800 | 1000 |
| 0.2 | 1.9 | 31 | 2360 | 500 |
| 0.2 | 2.0 | 35 | 3280 | 500 |
| 0.5 | 2.2 | 40 | 4700 | 500 |
| 0.5 | 2.4 | 45 | 5800 | 500 |
| 0.5 | 2.5 | 49 | 7040 | 500 |
| 0.5 | 2.7 | 54 | 8650 | 500 |
| 0.5 | 2.9 | 60 | 11080 | 500 |
| 0.5 | 3.1 | 66 | 13620 | 500 |
| 0.5 | 3.4 | 75 | 17250 | 500 |
| 0.8 | 3.7 | 84 | 22450 | 250 |



XLPE INSULATED, PVC SHEATHED CABLES
ALUMINIUM CONDUCTOR **STANDARD: IEC 60502-1** **0.6/1 kV**



CABLE CORE(S)

| Nominal Area | No. of wires | Approx. conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 1 x 16 rm | 7 | 5.20 | 0.7 |
| 1 x 25 rm | 7 | 6.30 | 0.9 |
| 1 x 35 rm | 7 | 7.41 | 0.9 |
| 1 x 50 rmc | 7 | 8.30 | 1.0 |
| 1 x 70 rmc | 19 | 9.70 | 1.1 |
| 1 x 95 rmc | 19 | 11.55 | 1.1 |
| 1 x 120 rmc | 37 | 12.95 | 1.2 |
| 1 x 150 rmc | 37 | 14.3 | 1.4 |
| 1 x 185 rmc | 37 | 15.9 | 1.6 |
| 1 x 240 rmc | 61 | 18.4 | 1.7 |
| 1 x 300 rmc | 61 | 20.5 | 1.8 |
| 1 x 400 rmc | 61 | 24.0 | 2.0 |
| 1 x 500 rmc | 61 | 27.0 | 2.2 |
| 1 x 630 rmc | 61 | 30.4 | 2.4 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meter |
| 1.4 | 10 | 110 | 1000 |
| 1.4 | 11 | 150 | 1000 |
| 1.4 | 12 | 200 | 1000 |
| 1.4 | 13 | 230 | 1000 |
| 1.4 | 15 | 300 | 1000 |
| 1.5 | 18 | 400 | 1000 |
| 1.5 | 19 | 490 | 1000 |
| 1.6 | 20 | 590 | 1000 |
| 1.6 | 23 | 720 | 1000 |
| 1.7 | 25 | 930 | 1000 |
| 1.8 | 28 | 1130 | 1000 |
| 1.9 | 32 | 1500 | 500 |
| 2.0 | 35 | 1820 | 500 |
| 2.2 | 40 | 2320 | 500 |

CABLE CORE(S)

| | | | |
|-----------|---|------|-----|
| 2 x 16 rm | 7 | 5.20 | 0.7 |
| 2 x 25 rm | 7 | 6.30 | 0.9 |
| 2 x 35 rm | 7 | 7.41 | 0.9 |

UNARMOURED

| | | | |
|-----|----|-----|------|
| 1.8 | 19 | 460 | 1000 |
| 1.8 | 22 | 630 | 1000 |
| 1.8 | 24 | 770 | 1000 |

CABLE CORE(S)

| | | | |
|-------------|----|-------|-----|
| 3 x 16 rm | 7 | 5.10 | 0.7 |
| 3 x 25 rm | 7 | 6.30 | 0.9 |
| 3 x 35 rm | 7 | 7.41 | 0.9 |
| 3 x 50 rmc | 19 | 8.30 | 1.0 |
| 3 x 70 rmc | 19 | 9.7 | 1.1 |
| 3 x 95 rmc | 19 | 11.55 | 1.1 |
| 3 x 120 rmc | 37 | 12.95 | 1.2 |
| 3 x 150 rmc | 37 | 14.3 | 1.4 |
| 3 x 185 rmc | 37 | 15.9 | 1.6 |
| 3 x 240 rmc | 61 | 18.4 | 1.7 |
| 3 x 300 rmc | 61 | 20.5 | 1.8 |
| 3 x 400 rmc | 61 | 24.0 | 2.0 |
| 3 x 500 rmc | 61 | 27.0 | 2.2 |

UNARMOURED

| | | | |
|-----|----|------|------|
| 1.8 | 21 | 450 | 1000 |
| 1.8 | 24 | 600 | 1000 |
| 1.8 | 26 | 750 | 1000 |
| 1.8 | 29 | 880 | 1000 |
| 1.9 | 34 | 1180 | 500 |
| 2.0 | 37 | 1530 | 500 |
| 2.1 | 40 | 1840 | 500 |
| 2.3 | 45 | 2290 | 500 |
| 2.4 | 49 | 2780 | 250 |
| 2.6 | 56 | 3600 | 250 |
| 2.8 | 61 | 4350 | 250 |
| 3.1 | 70 | 5570 | 250 |
| 3.3 | 79 | 7010 | 250 |

re: Round Solid
 rm: Round Stranded
 rmc: Round Stranded Compacted

Colour Code:
 1 Core: Black (Red on request)
 2 Cores: Red, Black
 3 Cores: Red, Yellow, Blue

Tolerance range:
 Overall diameter ± 5%
 Packing ± 5%



XLPE INSULATED, PVC SHEATHED CABLES

ALUMINIUM CONDUCTOR

STANDARD: IEC 60502-1

0.6/1 kV



ALUMINIUM WIRE ARMOURED

| Nominal Alum / Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|------------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| 0.8 | 1.8 | 14 | 255 | 1000 |
| 0.8 | 1.8 | 16 | 320 | 1000 |
| 0.8 | 1.8 | 17 | 370 | 1000 |
| 1.25 | 1.8 | 19 | 470 | 1000 |
| 1.25 | 1.8 | 20 | 570 | 1000 |
| 1.25 | 1.8 | 22 | 690 | 1000 |
| 1.6 | 1.8 | 24 | 840 | 1000 |
| 1.6 | 1.8 | 26 | 980 | 1000 |
| 1.6 | 1.8 | 28 | 1130 | 1000 |
| 1.6 | 1.9 | 30 | 1400 | 500 |
| 1.6 | 1.9 | 33 | 1620 | 500 |
| 2.0 | 2.1 | 39 | 2170 | 500 |
| 2.0 | 2.2 | 42 | 2610 | 250 |
| 2.0 | 2.3 | 46 | 3170 | 250 |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|------|------|
| 1.25 | 1.8 | 22 | 880 | 1000 |
| 1.6 | 1.8 | 25 | 1270 | 1000 |
| 1.6 | 1.8 | 28 | 1470 | 1000 |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|-------|------|
| 1.25 | 1.8 | 23 | 880 | 1000 |
| 1.6 | 1.8 | 27 | 1275 | 1000 |
| 1.6 | 1.8 | 29 | 1480 | 1000 |
| 1.6 | 1.9 | 32 | 1720 | 500 |
| 2.0 | 2.0 | 37 | 2370 | 500 |
| 2.0 | 2.2 | 41 | 2900 | 500 |
| 2.0 | 2.3 | 45 | 3350 | 500 |
| 2.5 | 2.5 | 50 | 4370 | 500 |
| 2.5 | 2.6 | 55 | 5080 | 250 |
| 2.5 | 2.8 | 62 | 6200 | 250 |
| 2.5 | 3.0 | 67 | 7200 | 250 |
| 2.5 | 3.2 | 76 | 8770 | 250 |
| 3.15 | 3.5 | 85 | 11580 | 250 |

STEEL TAPE ARMOURED

| Nominal Alum / Steel tape Thickness | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-------------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| 0.2 | 1.8 | 17 | 420 | 500 |
| 0.2 | 1.8 | 19 | 520 | 500 |
| 0.2 | 1.8 | 20 | 630 | 500 |
| 0.2 | 1.8 | 22 | 730 | 500 |
| 0.2 | 1.8 | 24 | 850 | 500 |
| 0.2 | 1.8 | 26 | 1000 | 500 |
| 0.2 | 1.8 | 28 | 1240 | 500 |
| 0.2 | 1.9 | 31 | 1470 | 500 |
| 0.2 | 2.0 | 35 | 1870 | 500 |
| 0.5 | 2.1 | 40 | 2650 | 250 |
| 0.5 | 2.3 | 44 | 3240 | 250 |

STEEL TAPE ARMOURED

| | | | | |
|-----|-----|----|-----|------|
| 0.2 | 1.8 | 20 | 570 | 1000 |
| 0.2 | 1.8 | 23 | 750 | 1000 |
| 0.2 | 1.8 | 25 | 900 | 500 |

STEEL TAPE ARMOURED

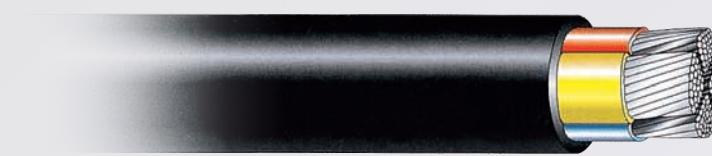
| | | | | |
|-----|-----|----|------|------|
| 0.2 | 1.8 | 21 | 570 | 1000 |
| 0.2 | 1.8 | 25 | 750 | 1000 |
| 0.2 | 1.8 | 27 | 900 | 500 |
| 0.2 | 1.8 | 30 | 1050 | 500 |
| 0.2 | 1.9 | 33 | 1380 | 500 |
| 0.5 | 2.1 | 38 | 1770 | 500 |
| 0.5 | 2.2 | 43 | 2490 | 500 |
| 0.5 | 2.4 | 47 | 3000 | 250 |
| 0.5 | 2.5 | 52 | 3570 | 250 |
| 0.5 | 2.7 | 58 | 4500 | 250 |
| 0.5 | 2.9 | 64 | 5330 | 250 |
| 0.5 | 3.1 | 72 | 6660 | 250 |
| 0.5 | 3.3 | 81 | 8240 | 250 |



XLPE INSULATED, PVC SHEATHED CABLES
ALUMINIUM CONDUCTOR

STANDARD:IEC 60502-1

0.6/1 kV



CABLE CORE(S)

| Nominal Area | No. of Wires | Approx. Conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 4 x 16 rm | 7 | 5.2 | 0.7 |
| 4 x 25 rm | 7 | 6.30 | 0.9 |
| 4 x 35 sm | 7 | - | 0.9 |
| 4 x 50 sm | 19 | - | 1.0 |
| 4 x 70 sm | 19 | - | 1.1 |
| 4 x 95 sm | 19 | - | 1.1 |
| 4 x 120 sm | 37 | - | 1.2 |
| 4 x 150 sm | 37 | - | 1.4 |
| 4 x 185 sm | 37 | - | 1.6 |
| 4 x 240 sm | 37 | - | 1.7 |
| 4 x 300 sm | 61 | - | 1.8 |
| 4 x 400 sm | 61 | - | 2.0 |
| 4 x 500 sm | 61 | - | 2.2 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 22 | 540 | 1000 |
| 1.8 | 26 | 740 | 1000 |
| 1.8 | 26 | 800 | 1000 |
| 1.9 | 30 | 1025 | 1000 |
| 2.0 | 34 | 1400 | 500 |
| 2.1 | 38 | 1780 | 500 |
| 2.3 | 42 | 2200 | 500 |
| 2.4 | 47 | 2670 | 500 |
| 2.6 | 52 | 3275 | 250 |
| 2.8 | 58 | 4225 | 250 |
| 3.0 | 64 | 5130 | 250 |
| 3.3 | 72 | 6550 | 250 |
| 3.5 | 80 | 8150 | 250 |

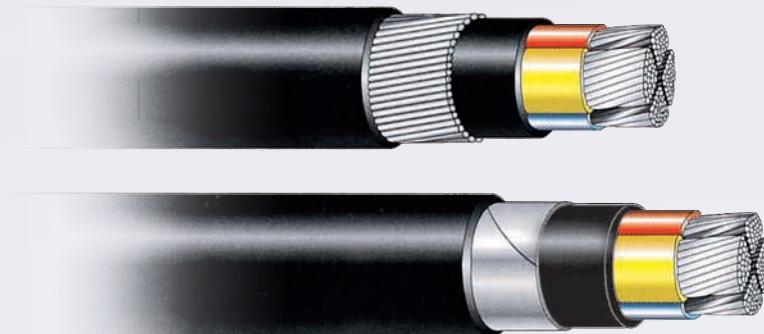
rm: Round Stranded
sm: Sectoral Stranded

Colour Code :
4 Cores: Red, Yellow, Blue, Black

Tolerance Range:
Overall diameter ±5%
Packing ±5%



XLPE INSULATED, PVC SHEATHED CABLES
ALUMINIUM CONDUCTOR **STANDARD: IEC 60502-1** **0.6/1 kV**



STEEL WIRE ARMOURED

| Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|---------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| 1.6 | 1.8 | 26 | 1160 | 1000 |
| 1.6 | 1.8 | 29 | 1475 | 1000 |
| 1.6 | 1.9 | 30 | 1550 | 500 |
| 1.6 | 2.0 | 33 | 1890 | 500 |
| 2.0 | 2.2 | 39 | 2670 | 500 |
| 2.0 | 2.3 | 43 | 3190 | 500 |
| 2.5 | 2.5 | 48 | 4170 | 500 |
| 2.5 | 2.6 | 52 | 4840 | 500 |
| 2.5 | 2.8 | 57 | 5670 | 250 |
| 2.5 | 3.0 | 63 | 6900 | 250 |
| 2.5 | 3.2 | 69 | 8070 | 250 |
| 3.15 | 3.5 | 79 | 10800 | 250 |
| 3.15 | 3.8 | 87 | 12840 | 250 |

STEEL TAPE ARMOURED

| Steel Tape Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|---------------------|--------------------------|--------------------------|----------------|------------------|
| Mm | mm | mm | Kg/Km | meters |
| 0.2 | 1.8 | 23 | 670 | 1000 |
| 0.2 | 1.8 | 27 | 890 | 1000 |
| 0.2 | 1.8 | 27 | 960 | 500 |
| 0.2 | 1.9 | 31 | 1200 | 500 |
| 0.2 | 2.0 | 35 | 1600 | 500 |
| 0.5 | 2.2 | 40 | 2390 | 500 |
| 0.5 | 2.4 | 45 | 2890 | 250 |
| 0.5 | 2.5 | 49 | 3420 | 250 |
| 0.5 | 2.7 | 54 | 4100 | 250 |
| 0.5 | 2.9 | 60 | 5150 | 250 |
| 0.5 | 3.1 | 66 | 6150 | 250 |
| 0.5 | 3.4 | 75 | 7725 | 250 |
| 0.8 | 3.7 | 84 | 10240 | 250 |



XLPE INSULATED, LSF SHEATHED CABLES

COPPER CONDUCTOR **STANDARD: IEC 60502-1**

0.6/1 kV



CABLE CORE(S)

| Nominal Area | No. of wires | Approx. conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 1 x 1.5 re | 1 | 1.38 | 0.7 |
| 1 x 1.5 rm | 7 | 1.56 | 0.7 |
| 1 x 2.5 re | 1 | 1.8 | 0.7 |
| 1 x 2.5 rm | 7 | 1.98 | 0.7 |
| 1 x 4 re | 1 | 2.25 | 0.7 |
| 1 x 4 rm | 7 | 2.52 | 0.7 |
| 1 x 6 re | 1 | 2.76 | 0.7 |
| 1 x 6 rm | 7 | 3.12 | 0.7 |
| 1 x 10 rm | 7 | 4.01 | 0.7 |
| 1 x 16 rm | 7 | 5.03 | 0.7 |
| 1 x 25 rm | 7 | 6.3 | 0.9 |
| 1 x 35 rm | 7 | 7.44 | 0.9 |
| 1 x 50 rmc | 19 | 8.1 | 1.0 |
| 1 x 70 rmc | 19 | 9.7 | 1.1 |
| 1 x 95 rmc | 19 | 11.4 | 1.1 |
| 1 x 120 rmc | 37 | 12.9 | 1.2 |
| 1 x 150 rmc | 37 | 14.3 | 1.4 |
| 1 x 185 rmc | 37 | 16.0 | 1.6 |
| 1 x 240 rmc | 61 | 18.4 | 1.7 |
| 1 x 300 rmc | 61 | 20.4 | 1.8 |
| 1 x 400 rmc | 61 | 23.2 | 2.0 |
| 1 x 500 rmc | 61 | 26.7 | 2.2 |
| 1 x 630 rmc | 61 | 30.4 | 2.4 |

CABLE CORE(S)

| | | | |
|------------|---|------|-----|
| 2 x 1.5 re | 1 | 1.38 | 0.7 |
| 2 x 1.5 rm | 7 | 1.56 | 0.7 |
| 2 x 2.5 re | 1 | 1.78 | 0.7 |
| 2 x 2.5 rm | 7 | 1.98 | 0.7 |
| 2 x 4 re | 1 | 2.25 | 0.7 |
| 2 x 4 rm | 7 | 2.52 | 0.7 |
| 2 x 6 re | 1 | 2.76 | 0.7 |
| 2 x 6 rm | 7 | 3.12 | 0.7 |
| 2 x 10 re | 1 | 4.01 | 0.7 |
| 2 x 16 rm | 7 | 5.03 | 0.7 |
| 2 x 25 rm | 7 | 6.3 | 0.9 |
| 2 x 35 rm | 7 | 7.44 | 0.9 |

re: Round Solid

rm: Round Stranded

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall Diameter | Aprox. Weight | Standard Packing |
|--------------------------|--------------------------|---------------|------------------|
| mm | no. | Kg/Km | meter |
| 1.4 | 6 | 45 | 1000 |
| 1.4 | 6 | 50 | 1000 |
| 1.4 | 6 | 60 | 1000 |
| 1.4 | 7 | 60 | 1000 |
| 1.4 | 7 | 75 | 1000 |
| 1.4 | 7 | 80 | 1000 |
| 1.4 | 7 | 95 | 1000 |
| 1.4 | 8 | 100 | 1000 |
| 1.4 | 9 | 145 | 1000 |
| 1.4 | 10 | 200 | 1000 |
| 1.4 | 11 | 300 | 1000 |
| 1.4 | 12 | 400 | 1000 |
| 1.4 | 13 | 520 | 1000 |
| 1.4 | 15 | 720 | 1000 |
| 1.5 | 17 | 990 | 1000 |
| 1.5 | 18 | 1210 | 1000 |
| 1.6 | 20 | 1490 | 1000 |
| 1.6 | 22 | 1860 | 1000 |
| 1.7 | 25 | 2420 | 1000 |
| 1.8 | 27 | 3020 | 1000 |
| 1.9 | 31 | 3850 | 1000 |
| 2.0 | 35 | 4900 | 500 |
| 2.2 | 40 | 6250 | 500 |

UNARMOURED

| | | | |
|-----|----|------|------|
| 1.8 | 12 | 175 | 1000 |
| 1.8 | 12 | 190 | 1000 |
| 1.8 | 13 | 225 | 1000 |
| 1.8 | 13 | 225 | 1000 |
| 1.8 | 14 | 275 | 1000 |
| 1.8 | 14 | 275 | 1000 |
| 1.8 | 15 | 325 | 1000 |
| 1.8 | 15 | 350 | 1000 |
| 1.8 | 17 | 470 | 1000 |
| 1.8 | 19 | 640 | 1000 |
| 1.8 | 22 | 925 | 1000 |
| 1.8 | 24 | 1185 | 1000 |

Colour Code:

1 Core: Black (red on request)

2 Cores: Red, Black

Tolerance range:

Overall diameter ± 5%

Packing ± 5%



XLPE INSULATED, LSF SHEATHED CABLES
COPPER CONDUCTOR **STANDARD: IEC 60502-1** **0.6/1 kV**



ALUMINIUM WIRE ARMOURED

| Nominal Alum./Steel Wire diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 0.8 | 1.8 | 11 | 150 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 11 | 150 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 12 | 200 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 12 | 210 | 1000 |
| 0.8 | 1.8 | 13 | 275 | 1000 |
| 0.8 | 1.8 | 14 | 340 | 1000 |
| 0.8 | 1.8 | 16 | 460 | 1000 |
| 0.8 | 1.8 | 17 | 575 | 1000 |
| 1.25 | 1.8 | 18 | 740 | 1000 |
| 1.25 | 1.8 | 20 | 980 | 1000 |
| 1.25 | 1.8 | 21 | 1260 | 1000 |
| 1.6 | 1.8 | 24 | 1560 | 1000 |
| 1.6 | 1.8 | 26 | 1880 | 1000 |
| 1.6 | 1.8 | 27 | 2270 | 1000 |
| 1.6 | 1.9 | 30 | 2870 | 500 |
| 1.6 | 1.9 | 33 | 3500 | 500 |
| 2.0 | 2.1 | 38 | 4550 | 500 |
| 2.0 | 2.2 | 42 | 5680 | 500 |
| 2.0 | 2.3 | 47 | 7075 | 500 |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|------|------|
| 0.8 | 1.8 | 14 | - | |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | - | - |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | 450 | 1000 |
| 0.8 | 1.8 | 16 | 460 | 1000 |
| 0.8 | 1.8 | 16 | 525 | 1000 |
| 0.8 | 1.8 | 17 | 550 | 1000 |
| 1.25 | 1.8 | 19 | 835 | 1000 |
| 1.25 | 1.8 | 21 | 1050 | 1000 |
| 1.6 | 1.8 | 25 | 1560 | 1000 |
| 1.6 | 1.8 | 28 | 1890 | 1000 |

ALUMINIUM TAPE ARMOURED

| Nominal Alum./Steel tape diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| 0.5 | 1.8 | 16 | 475 | 1000 |
| 0.5 | 1.8 | 17 | 580 | 1000 |
| 0.5 | 1.8 | 18 | 700 | 1000 |
| 0.5 | 1.8 | 19 | 930 | 1000 |
| 0.5 | 1.8 | 21 | 1210 | 1000 |
| 0.5 | 1.8 | 22 | 1460 | 1000 |
| 0.5 | 1.8 | 24 | 1760 | 1000 |
| 0.5 | 1.8 | 26 | 2130 | 1000 |
| 0.5 | 1.8 | 29 | 2710 | 500 |
| 0.5 | 1.9 | 31 | 3340 | 500 |
| 0.5 | 2.0 | 36 | 4250 | 500 |
| 0.5 | 2.1 | 40 | 5350 | 500 |
| 0.5 | 2.3 | 43 | 6950 | 500 |

STEEL TAPE ARMOURED

| | | | | |
|-----|-----|----|------|------|
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| 0.2 | 1.8 | 15 | 350 | 1000 |
| 0.2 | 1.8 | 15 | 360 | 1000 |
| 0.2 | 1.8 | 16 | 400 | 1000 |
| 0.2 | 1.8 | 16 | 430 | 1000 |
| 0.2 | 1.8 | 18 | 570 | 1000 |
| 0.2 | 1.8 | 20 | 750 | 1000 |
| 0.2 | 1.8 | 24 | 1050 | 1000 |
| 0.2 | 1.8 | 26 | 1330 | 1000 |



XLPE INSULATED, LSF SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



CABLE CORE(S)

| Nominal Area | No. of Wires | Approx. Conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 3 x 1.5 re | 1 | 1.38 | 0.7 |
| 3 x 1.5 rm | 7 | 1.56 | 0.7 |
| 3 x 2.5 re | 1 | 1.78 | 0.7 |
| 3 x 2.5 rm | 7 | 2.01 | 0.7 |
| 3 x 4 re | 1 | 2.25 | 0.7 |
| 3 x 4 rm | 7 | 2.55 | 0.7 |
| 3 x 6 re | 1 | 2.76 | 0.7 |
| 3 x 6 rm | 7 | 3.12 | 0.7 |
| 3 x 10 rm | 7 | 4.01 | 0.7 |
| 3 x 16 rm | 7 | 5.03 | 0.7 |
| 3 x 25 sm | 7 | - | 0.9 |
| 3 x 35 sm | 7 | - | 0.9 |
| 3 x 50 sm | 19 | - | 1.0 |
| 3 x 70 sm | 19 | - | 1.1 |
| 3 x 95 sm | 19 | - | 1.1 |
| 3 x 120 sm | 37 | - | 1.2 |
| 3 x 150 sm | 37 | - | 1.4 |
| 3 x 185 sm | 37 | - | 1.6 |
| 3 x 240 sm | 61 | - | 1.7 |
| 3 x 300 sm | 61 | - | 1.8 |
| 3 x 400 sm | 61 | - | 2.0 |
| 3 x 500 sm | 61 | - | 2.2 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 13 | 200 | 1000 |
| 1.8 | 12 | 200 | 1000 |
| 1.8 | 13 | 250 | 1000 |
| 1.8 | 13 | 250 | 1000 |
| 1.8 | 14 | 325 | 1000 |
| 1.8 | 14 | 325 | 1000 |
| 1.8 | 15 | 400 | 1000 |
| 1.8 | 15 | 400 | 1000 |
| 1.8 | 18 | 525 | 1000 |
| 1.8 | 20 | 725 | 1000 |
| 1.8 | 24 | 1050 | 1000 |
| 1.8 | 26 | 1375 | 1000 |
| 1.8 | 28 | 1725 | 1000 |
| 1.9 | 32 | 2425 | 500 |
| 2.0 | 36 | 3250 | 500 |
| 2.1 | 40 | 4025 | 500 |
| 2.3 | 45 | 5000 | 500 |
| 2.4 | 50 | 6150 | 500 |
| 2.6 | 56 | 8025 | 500 |
| 2.8 | 61 | 9925 | 500 |
| 3.1 | 69 | 12600 | 250 |
| 3.3 | 78 | 16100 | 250 |

re: Round Solid
 rm: Round Stranded
 sm: Sectoral Stranded

Colour Code :
 3 Cores : Red, Yellow, Blue

Tolerance Range:
 Overall diameter ±5%
 Packing ±5%



XLPE INSULATED, LSF SHEATHED CABLES

COPPER CONDUCTOR

STANDARD: IEC 60502-1

0.6/1 kV



STEEL WIRE ARMOURED

| Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|---------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 0.8 | 1.8 | 14 | 350 | - |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | 400 | - |
| - | - | - | - | - |
| 0.8 | 1.8 | 16 | 490 | 1000 |
| 0.8 | 1.8 | 17 | 575 | 1000 |
| 0.8 | 1.8 | 17 | 590 | 1000 |
| 1.25 | 1.8 | 20 | 900 | 1000 |
| 1.25 | 1.8 | 22 | 1150 | 1000 |
| 1.6 | 1.8 | 25 | 1600 | 1000 |
| 1.6 | 1.8 | 27 | 1960 | 1000 |
| 1.6 | 1.9 | 30 | 2450 | 1000 |
| 2.0 | 2.0 | 35 | 3470 | 500 |
| 2.0 | 2.2 | 38 | 4400 | 500 |
| 2.0 | 2.3 | 41 | 5260 | 500 |
| 2.5 | 2.5 | 47 | 6770 | 500 |
| 2.5 | 2.6 | 51 | 8090 | 500 |
| 2.5 | 2.8 | 56 | 10120 | 500 |
| 2.5 | 3.0 | 62 | 12170 | 250 |
| 2.5 | 3.2 | 74 | 15725 | 250 |
| 3.15 | 3.5 | 85 | 20650 | 250 |

STEEL TAPE ARMOURED

| Steel Tape Thickness | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|----------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 0.2 | 1.8 | 13 | 260 | - |
| - | - | - | - | - |
| 0.2 | 1.8 | 14 | 325 | - |
| - | - | - | - | - |
| 0.2 | 1.8 | 15 | 380 | 1000 |
| 0.2 | 1.8 | 16 | 475 | 1000 |
| 0.2 | 1.8 | 17 | 470 | 1000 |
| 0.2 | 1.8 | 19 | 625 | 1000 |
| 0.2 | 1.8 | 21 | 840 | 1000 |
| 0.2 | 1.8 | 25 | 1200 | 1000 |
| 0.2 | 1.8 | 24 | 1430 | 1000 |
| 0.2 | 1.8 | 27 | 1850 | 1000 |
| 0.2 | 2.0 | 31 | 2550 | 500 |
| 0.2 | 2.1 | 35 | 3360 | 500 |
| 0.5 | 2.2 | 39 | 4480 | 500 |
| 0.5 | 2.4 | 44 | 5480 | 500 |
| 0.5 | 2.5 | 49 | 6690 | 500 |
| 0.5 | 2.7 | 53 | 8550 | 500 |
| 0.5 | 2.9 | 56 | 10460 | 250 |
| 0.5 | 3.1 | 66 | 13120 | 250 |
| 0.5 | 3.3 | 73 | 16540 | 250 |



XLPE INSULATED, LSF SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



CABLE CORES

| Nominal Area | No. of Wires | Approx. Conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 4 x 1.5 re | 1 | 1.38 | 0.7 |
| 4 x 1.5 rm | 7 | 1.56 | 0.7 |
| 4 x 2.5 re | 1 | 1.78 | 0.7 |
| 4 x 2.5 rm | 7 | 1.98 | 0.7 |
| 4 x 4 re | 1 | 2.25 | 0.7 |
| 4 x 4 rm | 7 | 2.52 | 0.7 |
| 4 x 6 re | 1 | 2.76 | 0.7 |
| 4 x 6 rm | 7 | 3.12 | 0.7 |
| 4 x 10 rm | 7 | 4.01 | 0.7 |
| 4 x 16 rm | 7 | 5.03 | 0.7 |
| 4 x 25 sm | 7 | - | 0.9 |
| 4 x 35 sm | 7 | - | 0.9 |
| 4 x 50 sm | 19 | - | 1.0 |
| 4 x 70 sm | 19 | - | 1.1 |
| 4 x 95 sm | 19 | - | 1.1 |
| 4 x 120 sm | 37 | - | 1.2 |
| 4 x 150 sm | 37 | - | 1.4 |
| 4 x 185 sm | 37 | - | 1.6 |
| 4 x 240 sm | 37 | - | 1.7 |
| 4 x 300 sm | 61 | - | 1.8 |
| 4 x 400 sm | 61 | - | 2.0 |
| 4 x 500 sm | 61 | - | 2.2 |

re: Round Solid
 rm: Round Stranded
 sm : Sectoral Stranded

UNARMOURED

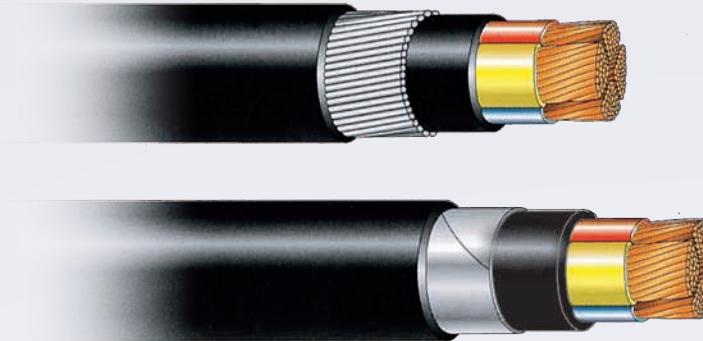
| Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 13 | 225 | 1000 |
| 1.8 | 13 | 225 | 1000 |
| 1.8 | 14 | 300 | 1000 |
| 1.8 | 14 | 280 | 1000 |
| 1.8 | 15 | 375 | 1000 |
| 1.8 | 15 | 360 | 1000 |
| 1.8 | 17 | 475 | 1000 |
| 1.8 | 17 | 450 | 1000 |
| 1.8 | 19 | 640 | 1000 |
| 1.8 | 22 | 900 | 1000 |
| 1.8 | 24 | 1260 | 1000 |
| 1.8 | 26 | 1650 | 1000 |
| 1.9 | 30 | 2175 | 1000 |
| 2.0 | 34 | 3070 | 500 |
| 2.1 | 38 | 4090 | 500 |
| 2.3 | 43 | 5120 | 500 |
| 2.4 | 47 | 6280 | 500 |
| 2.6 | 52 | 7810 | 500 |
| 2.8 | 58 | 10140 | 250 |
| 3.0 | 64 | 12590 | 250 |
| 3.3 | 73 | 16060 | 250 |
| 3.5 | 80 | 20340 | 250 |

Colour Code :
 4 Cores : Red, Yellow, Blue, Black

Tolerance range:
 Overall diameter ±5%
 Packing ±5%



XLPE INSULATED, LSF SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



STEEL WIRE ARMOURED

| Steel Wire dia. | Nominal Sheath thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-----------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg / Km | meters |
| - | - | - | - | - |
| 0.8 | 1.8 | 15 | 400 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 16 | 460 | 1000 |
| - | - | - | - | - |
| 0.8 | 1.8 | 17 | 560 | 1000 |
| 1.25 | 1.8 | 19 | 800 | 1000 |
| 1.25 | 1.8 | 19 | 810 | 1000 |
| 1.25 | 1.8 | 22 | 1050 | 1000 |
| 1.6 | 1.8 | 25 | 1525 | 1000 |
| 1.6 | 1.8 | 27 | 1930 | 1000 |
| 1.6 | 1.9 | 30 | 2400 | 1000 |
| 1.6 | 2.0 | 33 | 3030 | 1000 |
| 2.0 | 2.2 | 38 | 4330 | 500 |
| 2.0 | 2.3 | 42 | 5490 | 500 |
| 2.5 | 2.5 | 48 | 7075 | 500 |
| 2.5 | 2.6 | 52 | 8450 | 500 |
| 2.5 | 2.8 | 57 | 10200 | 250 |
| 2.5 | 3.0 | 63 | 12825 | 250 |
| 2.5 | 3.2 | 69 | 15530 | 250 |
| 3.15 | 3.5 | 79 | 20300 | 250 |
| 3.15 | 3.8 | 87 | 25025 | 250 |

STEEL TAPE ARMOURED

| Steel Tape Thickness | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|----------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| 0.2 | 1.8 | 14 | 300 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 15 | 360 | 1000 |
| - | - | - | - | - |
| 0.2 | 1.8 | 16 | 440 | 1000 |
| 0.2 | 1.8 | 17 | 550 | 1000 |
| 0.2 | 1.8 | 18 | 550 | 1000 |
| 0.2 | 1.8 | 20 | 750 | 1000 |
| 0.2 | 1.8 | 23 | 1025 | 1000 |
| 0.2 | 1.8 | 24 | 1400 | 1000 |
| 0.2 | 1.8 | 27 | 1800 | 1000 |
| 0.2 | 1.9 | 31 | 2360 | 1000 |
| 0.2 | 2.0 | 35 | 3270 | 500 |
| 0.5 | 2.2 | 40 | 4700 | 500 |
| 0.5 | 2.4 | 44 | 5790 | 500 |
| 0.5 | 2.5 | 49 | 7030 | 500 |
| 0.5 | 2.7 | 54 | 8040 | 500 |
| 0.5 | 2.9 | 60 | 11065 | 500 |
| 0.5 | 3.1 | 66 | 13600 | 250 |
| 0.5 | 3.4 | 75 | 17220 | 250 |
| 0.8 | 3.7 | 83 | 22420 | 250 |



XLPE INSULATED, LSF SHEATHED CABLES
ALUMINIUM CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



CABLE CORE(S)

| Nominal Area | No. of wires | Approx. conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 1 x 16 rm | 7 | 5.2 | 0.7 |
| 1 x 25 rm | 7 | 6.30 | 0.9 |
| 1 x 35 rm | 7 | 7.41 | 0.9 |
| 1 x 50 rmc | 7 | 8.30 | 1.0 |
| 1 x 70 rmc | 19 | 9.7 | 1.1 |
| 1 x 95 rmc | 19 | 11.5 | 1.1 |
| 1 x 120 rmc | 19 | 12.95 | 1.2 |
| 1 x 150 rmc | 19 | 14.3 | 1.4 |
| 1 x 185 rmc | 37 | 15.9 | 1.6 |
| 1 x 240 rmc | 37 | 18.4 | 1.7 |
| 1 x 300 rmc | 37 | 20.5 | 1.8 |
| 1 x 400 rmc | 37 | 24.0 | 2.0 |
| 1 x 500 rmc | 37 | 27.0 | 2.2 |
| 1 x 630 rmc | 61 | 30.4 | 2.4 |

CABLE CORE(S)

| | | | |
|-----------|---|------|-----|
| 2 x 16 rm | 7 | 5.2 | 0.7 |
| 2 x 25 rm | 7 | 6.30 | 0.9 |
| 2 x 35 rm | 7 | 7.41 | 0.9 |

CABLE CORE(S)

| | | | |
|-------------|----|-------|-----|
| 3 x 16 rm | 7 | 5.2 | 0.7 |
| 3 x 25 rm | 7 | 6.30 | 0.9 |
| 3 x 35 rm | 7 | 7.41 | 0.9 |
| 3 x 50 rmc | 7 | 8.30 | 1.0 |
| 3 x 70 rmc | 19 | 9.7 | 1.1 |
| 3 x 95 rmc | 19 | 11.5 | 1.1 |
| 3 x 120 rmc | 19 | 12.95 | 1.2 |
| 3 x 150 rmc | 19 | 14.3 | 1.4 |
| 3 x 185 rmc | 37 | 15.9 | 1.6 |
| 3 x 240 rmc | 37 | 18.4 | 1.7 |
| 3 x 300 rmc | 37 | 20.5 | 1.8 |
| 3 x 400 rmc | 61 | 24.0 | 2.0 |
| 3 x 500 rmc | 61 | 27.0 | 2.2 |

re: Round Solid

rm: Round Stranded

rmc: Round Stranded Compacted

Colour Code:

1 Core: Black (Red on request)

2 Cores: Red, Black

3 Cores: Red, Yellow, Blue

Tolerance range:

Overall diameter ± 5%

Packing ± 5%



XLPE INSULATED, LSF SHEATHED CABLES
ALUMINUM CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



ALUMINIUM WIRE ARMOURED

| Nominal Alum / Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|------------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| 0.8 | 1.8 | 14 | 250 | 1000 |
| 0.8 | 1.8 | 16 | 315 | 1000 |
| 0.8 | 1.8 | 17 | 370 | 1000 |
| 1.25 | 1.8 | 19 | 475 | 1000 |
| 1.25 | 1.8 | 21 | 560 | 500 |
| 1.25 | 1.8 | 22 | 680 | 500 |
| 1.6 | 1.8 | 24 | 835 | 500 |
| 1.6 | 1.8 | 26 | 970 | 500 |
| 1.6 | 1.8 | 28 | 1130 | 500 |
| 1.6 | 1.9 | 31 | 1390 | 500 |
| 1.6 | 1.9 | 33 | 1615 | 500 |
| 2.0 | 2.1 | 39 | 2150 | 500 |
| 2.0 | 2.2 | 42 | 2600 | 500 |
| 2.0 | 2.3 | 46 | 3160 | 500 |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|------|------|
| 1.25 | 1.8 | 22 | 870 | 1000 |
| 1.6 | 1.8 | 26 | 1260 | 1000 |
| 1.6 | 1.8 | 28 | 1470 | 1000 |

STEEL WIRE ARMOURED

| | | | | |
|------|-----|----|-------|------|
| 1.25 | 1.8 | 23 | 880 | 1000 |
| 1.6 | 1.8 | 27 | 1275 | 1000 |
| 1.6 | 1.8 | 30 | 1475 | 500 |
| 1.6 | 1.9 | - | 1715 | 500 |
| 2.0 | 2.0 | 37 | 2360 | 500 |
| 2.0 | 2.2 | - | 3080 | 500 |
| 2.0 | 2.3 | 45 | 3340 | 500 |
| 2.5 | 2.5 | 50 | 4360 | 500 |
| 2.5 | 2.6 | 55 | 5060 | 250 |
| 2.5 | 2.8 | 61 | 6180 | 250 |
| 2.5 | 3.0 | 67 | 7180 | 250 |
| 2.5 | 3.2 | 76 | 8750 | 250 |
| 3.15 | 3.5 | 85 | 11550 | 250 |

ALUMINIUM TAPE ARMOURED

| Nominal Alum / Steel tape thickness | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|-------------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| 0.5 | 1.8 | 18 | 420 | 500 |
| 0.5 | 1.8 | 20 | 510 | 500 |
| 0.5 | 1.8 | 21 | 625 | 500 |
| 0.5 | 1.8 | 23 | 725 | 500 |
| 0.5 | 1.8 | 25 | 850 | 500 |
| 0.5 | 1.8 | 27 | 1000 | 500 |
| 0.5 | 1.8 | 29 | 1230 | 500 |
| 0.5 | 1.9 | 32 | 1460 | 500 |
| 0.5 | 2.0 | 37 | 1850 | 500 |
| 0.5 | 2.1 | 40 | 2270 | 500 |
| 0.5 | 2.3 | 44 | 2810 | 500 |

STEEL TAPE ARMOUR

| | | | | |
|-----|-----|----|-----|------|
| 0.2 | 1.8 | 20 | 570 | 1000 |
| 0.2 | 1.8 | 24 | 750 | 1000 |
| 0.2 | 1.8 | 26 | 910 | 500 |

STEEL TAPE ARMOUR

| | | | | |
|-----|-----|----|------|------|
| 0.2 | 1.8 | 21 | 560 | 1000 |
| 0.2 | 1.8 | 25 | 745 | 1000 |
| 0.2 | 1.8 | 27 | 900 | 500 |
| 0.2 | 1.8 | 28 | 1050 | 500 |
| 0.2 | 1.9 | 33 | 1370 | 500 |
| 0.2 | 2.1 | 35 | 1625 | 500 |
| 0.5 | 2.3 | 43 | 2480 | 500 |
| 0.5 | 2.5 | 47 | 2995 | 500 |
| 0.5 | 2.6 | 51 | 3560 | 500 |
| 0.5 | 2.8 | 58 | 4490 | 250 |
| 0.5 | 3.0 | 64 | 5320 | 250 |
| 0.5 | 3.3 | 72 | 6650 | 250 |
| 0.5 | 3.5 | 80 | 8200 | 250 |



XLPE INSULATED, LSF SHEATHED CABLES

ALUMINIUM CONDUCTOR

STANDARD:IEC 60502-1

0.6/1 kV



CABLE CORE(S)

| Nominal Area | No. of Wires | Approx. Conductor diameter | Nominal Insulation Thickness |
|-----------------|--------------|----------------------------|------------------------------|
| mm ² | No. | mm | mm |
| 4 x 16 rm | 7 | 5.2 | 0.7 |
| 4 x 25 rm | 7 | 6.3 | 0.9 |
| 4 x 35 sm | 7 | - | 0.9 |
| 4 x 50 sm | 7 | - | 1.0 |
| 4 x 70 sm | 19 | - | 1.1 |
| 4 x 95 sm | 19 | - | 1.1 |
| 4 x 120 sm | 37 | - | 1.2 |
| 4 x 150 sm | 37 | - | 1.4 |
| 4 x 185 sm | 37 | - | 1.6 |
| 4 x 240 sm | 61 | - | 1.7 |
| 4 x 300 sm | 61 | - | 1.8 |
| 4 x 400 sm | 61 | - | 2.0 |
| 4 x 500 sm | 61 | - | 2.2 |

UNARMOURED

| Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|--------------------------|--------------------------|----------------|------------------|
| mm | mm | Kg/Km | meters |
| 1.8 | 22 | 530 | 1000 |
| 1.8 | 26 | 725 | 1000 |
| 1.8 | 26 | 800 | 1000 |
| 1.9 | 30 | 1025 | 1000 |
| 2.0 | 34 | 1400 | 500 |
| 2.1 | 38 | 1775 | 500 |
| 2.3 | 42 | 2200 | 500 |
| 2.4 | 47 | 2650 | 500 |
| 2.6 | 52 | 3270 | 250 |
| 2.8 | 58 | 4200 | 250 |
| 3.0 | 63 | 5110 | 250 |
| 3.3 | 72 | 6535 | 250 |
| 3.5 | 80 | 8130 | 250 |

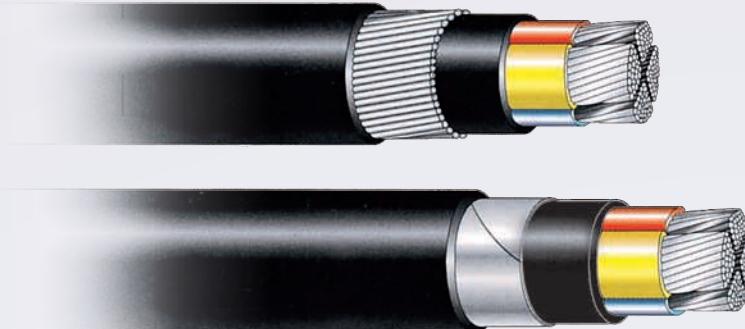
rm: Round Stranded
sm: Sectoral Stranded

Colour Code :
3½ Cores : Red, Yellow, Blue, Black
4 Cores: Red, Yellow, Blue, Black

Tolerance Range:
Overall diameter ±5%
Packing ±5%



XLPE INSULATED, LSF SHEATHED CABLES
ALUMINIUM CONDUCTOR **STANDARD:IEC 60502-1** **0.6/1 kV**



STEEL WIRE ARMOURED

| Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|---------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| 1.6 | 1.8 | 26 | 1150 | 1000 |
| 1.6 | 1.8 | 29 | 1475 | 500 |
| 1.6 | 1.9 | 30 | 1550 | 500 |
| 1.6 | 2.0 | 33 | 1875 | 500 |
| 2.0 | 2.2 | 38 | 2650 | 500 |
| 2.0 | 2.3 | 42 | 3175 | 500 |
| 2.5 | 2.5 | 48 | 4150 | 500 |
| 2.5 | 2.6 | 52 | 4825 | 500 |
| 2.5 | 2.8 | 57 | 5650 | 250 |
| 2.5 | 3.0 | 63 | 6890 | 250 |
| 2.5 | 3.2 | 69 | 8050 | 250 |
| 3.15 | 3.5 | 79 | 10775 | 250 |
| 3.15 | 3.8 | 87 | 12810 | 250 |

STEEL TAPE ARMoured

| Steel Tape Diameter | Nominal Sheath Thickness | Approx. Overall diameter | Approx. Weight | Standard Packing |
|---------------------|--------------------------|--------------------------|----------------|------------------|
| mm | mm | mm | Kg/Km | meters |
| 0.2 | 1.8 | 23 | 660 | 1000 |
| 0.2 | 1.8 | 27 | 880 | 500 |
| 0.2 | 1.8 | 27 | 960 | 500 |
| 0.2 | 1.9 | 30 | 1020 | 500 |
| 0.2 | 2.0 | 35 | 1600 | 500 |
| 0.5 | 2.2 | 40 | 2380 | 500 |
| 0.5 | 2.4 | 44 | 2880 | 250 |
| 0.5 | 2.5 | 49 | 3400 | 250 |
| 0.5 | 2.7 | 53 | 4100 | 250 |
| 0.5 | 2.9 | 60 | 5130 | 250 |
| 0.5 | 3.1 | 66 | 6130 | 250 |
| 0.5 | 3.4 | 75 | 7700 | 250 |
| 0.8 | 3.7 | 84 | 10210 | 250 |

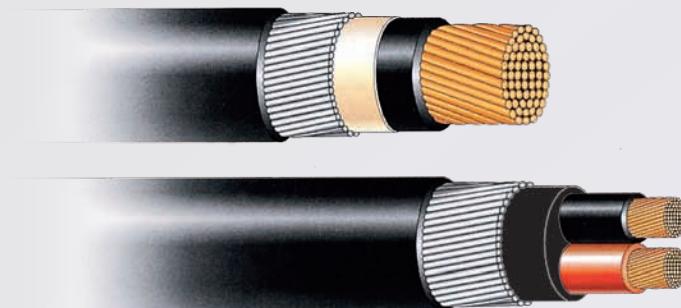


XLPE INSULATED, LSF SHEATHED CABLES

COPPER CONDUCTOR

STANDARD:BS 6724

0.6/1 kV



ALUMINIUM WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Alum / Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|------------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | no. | mm | mm | mm | mm | mm | Kg/Km | mm |
| 1 x 50 rmc | 19 | 8.1 | 1.0 | 0.9 | 1.5 | 17 | 675 | 1000 |
| 1 x 70 rmc | 19 | 9.7 | 1.1 | 1.25 | 1.5 | 19 | 925 | 1000 |
| 1 x 95 rmc | 19 | 11.4 | 1.1 | 1.25 | 1.6 | 22 | 1200 | 1000 |
| 1 x 120 rmc | 37 | 12.9 | 1.2 | 1.25 | 1.6 | 24 | 1450 | 1000 |
| 1 x 150 rmc | 37 | 14.3 | 1.4 | 1.6 | 1.7 | 27 | 1850 | 1000 |
| 1 x 185 rmc | 37 | 16.0 | 1.6 | 1.6 | 1.8 | 30 | 2250 | 1000 |
| 1 x 240 rmc | 61 | 18.4 | 1.7 | 1.6 | 1.8 | 32 | 2850 | 1000 |
| 1 x 300 rmc | 61 | 20.4 | 1.8 | 1.6 | 1.9 | 35 | 3475 | 500 |
| 1 x 400 rmc | 61 | 23.2 | 2.0 | 2.0 | 2.0 | 40 | 4450 | 500 |
| 1 x 500 rmc | 61 | 26.7 | 2.2 | 2.0 | 2.1 | 44 | 5575 | 500 |
| 1 x 630 rmc | 61 | 30.4 | 2.4 | 2.0 | 2.2 | 48 | 7050 | 500 |
| 1 x 800 rmc | 61 | 33.7 | 2.6 | 2.5 | 2.4 | 55 | 9050 | 500 |
| 1 x 1000 rm | 91 | 38.1 | 2.8 | 2.5 | 2.5 | 59 | 11500 | 500 |

STEEL WIRE ARMOURED CABLES

| | | | | | | | | |
|------------|---|------|-----|------|-----|----|------|------|
| 2 x 1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.3 | 12 | 275 | 1000 |
| 2 x 2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 14 | 350 | 1000 |
| 2 x 4 rm | 7 | 2.55 | 0.7 | 0.9 | 1.4 | 15 | 425 | 1000 |
| 2 x 6 rm | 7 | 3.12 | 0.7 | 0.9 | 1.4 | 16 | 500 | 1000 |
| 2 x 10 rm | 7 | 4.01 | 0.7 | 0.9 | 1.5 | 18 | 650 | 1000 |
| 2 x 16 rm | 7 | 5.03 | 0.7 | 1.25 | 1.5 | 20 | 975 | 1000 |
| 2 x 25 sm | 7 | - | 0.9 | 1.25 | 1.6 | 24 | 1350 | 1000 |
| 2 x 35 sm | 7 | - | 0.9 | 1.6 | 1.7 | 27 | 1850 | 1000 |

rm: Round Stranded

rmc: Round Stranded Compacted

sm: Sectoral Stranded

Standard Colour Code:

1 Core : Black (Red on request)
2 Cores : Red, Black

Color code based on special request:

1 Core: Brown or Blue

2 Cores: Brown, Blue



XLPE INSULATED, LSF SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:BS 6724** **0.6/1 kV**



STEEL WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Alum / Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|------------------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | No. | mm | mm | mm | mm | mm | Kg/Km | mm |
| 3 x 1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.3 | 12 | 300 | 1000 |
| 3 x 2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 14 | 400 | 1000 |
| 3 x 4 rm | 7 | 2.55 | 0.7 | 0.9 | 1.4 | 15 | 475 | 1000 |
| 3 x 6 rm | 7 | 3.12 | 0.7 | 0.9 | 1.4 | 16 | 575 | 1000 |
| 3 x 10 rm | 7 | 4.02 | 0.7 | 1.25 | 1.5 | 19 | 850 | 1000 |
| 3 x 16 rm | 7 | 5.03 | 0.7 | 1.25 | 1.6 | 22 | 1100 | 1000 |
| 3 x 25 sm | 7 | - | 0.9 | 1.6 | 1.7 | 27 | 1590 | 1000 |
| 3 x 35 sm | 7 | - | 0.9 | 1.6 | 1.8 | 29 | 1965 | 1000 |
| 3 x 50 sm | 19 | - | 1.0 | 1.6 | 1.8 | 31 | 2440 | 1000 |
| 3 x 70 sm | 19 | - | 1.1 | 1.6 | 1.9 | 33 | 3200 | 500 |
| 3 x 95 sm | 19 | - | 1.1 | 2.0 | 2.1 | 40 | 4390 | 500 |
| 3 x 120 sm | 37 | - | 1.2 | 2.0 | 2.2 | 44 | 5250 | 500 |
| 3 x 150 sm | 37 | - | 1.4 | 2.5 | 2.3 | 50 | 6740 | 500 |
| 3 x 185 sm | 37 | - | 1.6 | 2.5 | 2.4 | 55 | 8050 | 250 |
| 3 x 240 sm | 61 | - | 1.7 | 2.5 | 2.6 | 61 | 9990 | 250 |
| 3 x 300 sm | 61 | - | 1.8 | 2.5 | 2.7 | 66 | 12100 | 250 |
| 3 x 400 sm | 61 | - | 2.0 | 2.5 | 2.9 | 73 | 14970 | 250 |

rm: Round Stranded
sm: Sectoral Stranded

Standard Colour Code:
3 Core : Red, Yellow, Blue

Color code based on special request:
3 Cores: Brown, Black, Grey



XLPE INSULATED, LSF SHEATHED CABLES
COPPER CONDUCTOR **STANDARD:BS 6724** **0.6/1 kV**



STEEL WIRE ARMOURED CABLES

| Nominal Area | No. of Wires | Approx. Conductor Diameter | Nominal Insulation Thickness | Nominal Steel Wire Diameter | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight | Standard Packing |
|-----------------|--------------|----------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|----------------|------------------|
| mm ² | No. | mm | mm | mm | mm | mm | Kg / Km | mm |
| 4 x 1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.3 | 13 | 350 | 1000 |
| 4 x 2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 15 | 450 | 1000 |
| 4 x 4 rm | 7 | 2.55 | 0.7 | 0.9 | 1.4 | 16 | 550 | 1000 |
| 4 x 6 rm | 7 | 3.12 | 0.7 | 1.25 | 1.5 | 18 | 750 | 1000 |
| 4 x 10 rm | 7 | 4.01 | 0.7 | 1.25 | 1.5 | 21 | 1000 | 1000 |
| 4 x 16 rm | 7 | 5.03 | 0.7 | 1.25 | 1.6 | 23 | 1325 | 1000 |
| 4 x 25 sm | 7 | - | 0.9 | 1.6 | 1.7 | 27 | 1925 | 1000 |
| 4 x 35 sm | 7 | - | 0.9 | 1.6 | 1.8 | 30 | 2390 | 1000 |
| 4 x 50 sm | 19 | - | 1.0 | 1.6 | 1.9 | 33 | 3015 | 1000 |
| 4 x 70 sm | 19 | - | 1.1 | 2.0 | 2.1 | 38 | 4300 | 500 |
| 4 x 95 sm | 19 | - | 1.1 | 2.0 | 2.2 | 42 | 5480 | 500 |
| 4 x 120 sm | 37 | - | 1.2 | 2.5 | 2.3 | 47 | 7035 | 500 |
| 4 x 150 sm | 37 | - | 1.4 | 2.5 | 2.4 | 52 | 8410 | 500 |
| 4 x 185 sm | 37 | - | 1.6 | 2.5 | 2.6 | 57 | 10125 | 250 |
| 4 x 240 sm | 37 | - | 1.7 | 2.5 | 2.7 | 63 | 12725 | 250 |
| 4 x 300 sm | 61 | - | 1.8 | 2.5 | 2.9 | 68 | 15400 | 250 |
| 4 x 400 sm | 61 | - | 2.0 | 3.15 | 3.2 | 78 | 20175 | 250 |

STEEL WIRE ARMOURED CABLES

| | | | | | | | | |
|------------|----|------|-----|------|-----|----|------|------|
| 5 x 1.5 rm | 7 | 1.56 | 0.6 | 0.9 | 1.4 | 14 | 400 | 1000 |
| 5 x 2.5 rm | 7 | 2.01 | 0.7 | 0.9 | 1.4 | 16 | 515 | 1000 |
| 5 x 4 rm | 7 | 2.55 | 0.7 | 0.9 | 1.5 | 18 | 650 | 1000 |
| 5 x 6 rm | 7 | 3.12 | 0.7 | 1.25 | 1.5 | 20 | 900 | 1000 |
| 5 x 10 rm | 7 | 4.01 | 0.7 | 1.25 | 1.6 | 23 | 1190 | 1000 |
| 5 x 16 rm | 7 | 5.03 | 0.7 | 1.6 | 1.7 | 27 | 1750 | 1000 |
| 5 x 25 rm | 7 | 6.3 | 0.9 | 1.6 | 1.8 | 31 | 2450 | 1000 |
| 5 x 35 rm | 7 | 7.44 | 0.9 | 1.6 | 1.9 | 34 | 3075 | 500 |
| 5 x 50 rmc | 19 | 8.1 | 1.0 | 2.0 | 2.0 | 38 | 4040 | 500 |
| 5 x 70 rmc | 19 | 9.7 | 1.1 | 2.0 | 2.2 | 43 | 5350 | 500 |

rm: Round Stranded

rmc: Round Stranded Compacted

sm: Sectoral Stranded

Standard Colour Code:

4 Cores: Red, Yellow, Blue, Black

5 Cores: Red, Yellow, Blue, Black, Green/Yellow

Color code based on special request:

4 Cores: Blue, Brown, Black, Grey

5 Cores: Green/Yellow, Blue, Brown, Black, Grey



ELECTRICAL PARAMETERS 0.6/1 kV

Low Voltage Single Core Cable (In Trefoil Formation)

Linear Resistance, Reactance and Voltage Drop of PVC Insulated (70°C) Copper Conductor at 50 Hertz

| SIZE MM ² | R (DC) 20°C | R (DC) 70°C | R (AC) 70°C | X | Z | VD |
|-------------------------|----------------|----------------|----------------|-------|-------|-------|
| 1.5 | 12.1 | 14.477 | 14.477 | 0.197 | 14.47 | 20.25 |
| 2.5 | 7.41 | 8.866 | 8.866 | 0.186 | 8.86 | 12.47 |
| 4 | 4.61 | 4.61 | 4.61 | 0.171 | 5.51 | 7.81 |
| 6 | 3.08 | 3.08 | 3.08 | 0.162 | 3.68 | 5.27 |
| 10 | 1.83 | 2.19 | 2.19 | 0.151 | 2.19 | 3.19 |
| 16 | 1.15 | 1.376 | 1.376 | 0.140 | 1.38 | 2.04 |
| 25 | 0.727 | 0.87 | 0.87 | 0.130 | 0.86 | 1.34 |
| 35 | 0.524 | 0.627 | 0.627 | 0.123 | 0.64 | 1.00 |
| 50 | 0.387 | 0.463 | 0.463 | 0.118 | 0.47 | 0.76 |
| 70 | 0.268 | 0.321 | 0.321 | 0.112 | 0.34 | 0.56 |
| 95 | 0.193 | 0.231 | 0.231 | 0.108 | 0.25 | 0.43 |
| 120 | 0.153 | 0.183 | 0.184 | 0.104 | 0.21 | 0.36 |
| 150 | 0.124 | 0.148 | 0.150 | 0.102 | 0.18 | 0.31 |
| 185 | 0.0991 | 0.118 | 0.120 | 0.100 | 0.16 | 0.27 |
| 240 | 0.0754 | 0.0902 | 0.092 | 0.096 | 0.13 | 0.23 |
| 300 | 0.0601 | 0.0719 | 0.075 | 0.094 | 0.12 | 0.20 |
| 400 | 0.0470 | 0.0562 | 0.060 | 0.092 | 0.11 | 0.18 |
| 500 | 0.0366 | 0.0438 | 0.0503 | 0.090 | 0.10 | 0.16 |
| 630 | 0.0283 | 0.0339 | 0.041 | 0.087 | 0.10 | 0.14 |

R (DC) 20°C : DIRECT CURRENT RESISTANCE AT 20°C, Ohm / Km

R (DC) 70°C : DIRECT CURRENT RESISTANCE AT 70°C, Ohm / Km

R (AC) 70°C : ALTERNATING CURRENT RESISTANCE AT 70°C, Ohm / Km

X : REACTANCE, Ohm / Km

Z : IMPEDANCE, Ohm / Km

VD : VOLTAGE DROP, V / Amp. Km (Phase to Phase)



ELECTRICAL PARAMETERS 0.6/1 kV

Low Voltage Cable (MULTI CORE)

***Linear Resistance, Reactance and Voltage Drop of
PVC Insulated (70°C) Copper Conductor at 50 Hertz***

| SIZE MM ² | R (DC) 20°C | R (DC) 70°C | R (AC) 70°C | X | Z | VD |
|-------------------------|----------------|----------------|----------------|-------|-------|-------|
| 1.5 | 12.1 | 14.47 | 14.47 | 0.110 | 14.47 | 20.16 |
| 2.5 | 7.41 | 8.86 | 8.86 | 0.103 | 8.86 | 12.38 |
| 4 | 4.61 | 5.51 | 5.51 | 0.102 | 5.51 | 7.74 |
| 6 | 3.08 | 3.68 | 3.68 | 0.097 | 3.68 | 5.20 |
| 10 | 1.83 | 2.18 | 2.18 | 0.091 | 2.18 | 3.13 |
| 16 | 1.15 | 1.37 | 1.37 | 0.086 | 1.37 | 1.99 |
| 25 | 0.727 | 0.869 | 0.870 | 0.086 | 0.87 | 1.29 |
| 35 | 0.524 | 0.627 | 0.627 | 0.083 | 0.63 | 0.95 |
| 50 | 0.387 | 0.463 | 0.463 | 0.081 | 0.47 | 0.73 |
| 70 | 0.268 | 0.320 | 0.321 | 0.078 | 0.33 | 0.53 |
| 95 | 0.193 | 0.230 | 0.232 | 0.078 | 0.24 | 0.40 |
| 120 | 0.153 | 0.183 | 0.184 | 0.076 | 0.20 | 0.33 |
| 150 | 0.124 | 0.148 | 0.150 | 0.076 | 0.17 | 0.29 |
| 185 | 0.0991 | 0.115 | 0.121 | 0.076 | 0.14 | 0.25 |
| 240 | 0.0754 | 0.090 | 0.094 | 0.074 | 0.12 | 0.21 |
| 300 | 0.0601 | 0.071 | 0.076 | 0.074 | 0.11 | 0.18 |
| 400 | 0.0470 | 0.056 | 0.062 | 0.074 | 0.10 | 0.16 |
| 500 | 0.0366 | 0.044 | 0.051 | 0.073 | 0.09 | 0.15 |
| 630 | 0.0283 | 0.033 | 0.042 | 0.072 | 0.08 | 0.13 |

- R (DC) 20°C :** DIRECT CURRENT RESISTANCE AT 20°C, Ohm / Km
R (DC) 70°C : DIRECT CURRENT RESISTANCE AT 70°C, Ohm / Km
R (AC) 70°C : ALTERNATING CURRENT RESISTANCE AT 70°C, Ohm / Km
X : REACTANCE, Ohm / Km
Z : IMPEDANCE, Ohm / Km
VD : VOLTAGE DROP, V / Amp. Km (Phase to Phase)



ELECTRICAL PARAMETERS

Low Voltage Single Core Cable (In Trefoil Formation)

0.6/1 kV

**Linear Resistance, Reactance and Voltage Drop of
XLPE Insulated (90°C) Copper Conductor at 50 Hertz**

| SIZE MM ² | R (DC) 20°C | R (DC) 90°C | R (AC) 90°C | X | Z | VD |
|-------------------------|----------------|----------------|----------------|-------|-------|-------|
| 1.5 | 12.1 | 15.42 | 15.42 | 0.181 | 15.42 | 21.55 |
| 2.5 | 7.41 | 9.44 | 9.44 | 0.171 | 9.44 | 13.26 |
| 4 | 4.61 | 5.8 | 5.8 | 0.156 | 5.87 | 8.30 |
| 6 | 3.08 | 3.92 | 3.92 | 0.148 | 3.92 | 5.59 |
| 10 | 1.83 | 2.333 | 2.333 | 0.138 | 2.336 | 3.37 |
| 16 | 1.15 | 1.466 | 1.466 | 0.136 | 1.470 | 2.17 |
| 25 | 0.727 | 0.927 | 0.927 | 0.126 | 0.94 | 1.42 |
| 35 | 0.524 | 0.668 | 0.668 | 0.119 | 0.68 | 1.05 |
| 50 | 0.387 | 0.493 | 0.493 | 0.115 | 0.51 | 0.80 |
| 70 | 0.268 | 0.342 | 0.342 | 0.110 | 0.36 | 0.59 |
| 95 | 0.193 | 0.246 | 0.246 | 0.102 | 0.27 | 0.45 |
| 120 | 0.153 | 0.195 | 0.196 | 0.099 | 0.22 | 0.37 |
| 150 | 0.124 | 0.158 | 0.159 | 0.098 | 0.19 | 0.32 |
| 185 | 0.0991 | 0.126 | 0.128 | 0.095 | 0.16 | 0.28 |
| 240 | 0.0754 | 0.096 | 0.098 | 0.093 | 0.13 | 0.23 |
| 300 | 0.0601 | 0.0766 | 0.079 | 0.090 | 0.12 | 0.20 |
| 400 | 0.0470 | 0.060 | 0.063 | 0.091 | 0.11 | 0.18 |
| 500 | 0.0366 | 0.0467 | 0.051 | 0.088 | 0.10 | 0.16 |
| 630 | 0.0283 | 0.0361 | 0.042 | 0.086 | 0.10 | 0.15 |

R (DC) 20°C : DIRECT CURRENT RESISTANCE AT 20°C, Ohm / Km

R (DC) 90°C : DIRECT CURRENT RESISTANCE AT 90°C, Ohm / Km

R (AC) 90°C : ALTERNATING CURRENT RESISTANCE AT 90°C, Ohm / Km

X : REACTANCE, Ohm / Km

Z : IMPEDANCE, Ohm / Km

VD : VOLTAGE DROP, V / Amp. Km (Phase to Phase)



ELECTRICAL PARAMETERS 0.6/1 kV

Low Voltage Cable (Multi Core)

***Linear Resistance, Reactance and Voltage Drop of
XLPE Insulated (90°C) Copper Conductor at 50 Hertz***

| SIZE MM ² | R (DC) 20°C | R (DC) 90°C | R (AC) 90°C | X | Z | VD |
|-------------------------|----------------|----------------|----------------|-------|-------|-------|
| 1.5 | 12.1 | 15.42 | 15.42 | 0.106 | 15.42 | 21.48 |
| 2.5 | 7.41 | 9.44 | 9.44 | 0.099 | 9.4 | 13.18 |
| 4 | 4.61 | 5.88 | 5.88 | 0.093 | 5.88 | 8.23 |
| 6 | 3.08 | 3.93 | 3.93 | 0.089 | 3.93 | 5.52 |
| 10 | 1.83 | 2.333 | 2.333 | 0.084 | 2.33 | 3.32 |
| 16 | 1.15 | 1.466 | 1.466 | 0.081 | 1.47 | 2.12 |
| 25 | 0.727 | 0.927 | 0.927 | 0.081 | 0.93 | 1.37 |
| 35 | 0.524 | 0.668 | 0.668 | 0.079 | 0.67 | 1.011 |
| 50 | 0.387 | 0.493 | 0.493 | 0.076 | 0.500 | 0.768 |
| 70 | 0.268 | 0.341 | 0.342 | 0.075 | 0.35 | 0.556 |
| 95 | 0.193 | 0.246 | 0.247 | 0.074 | 0.26 | 0.423 |
| 120 | 0.153 | 0.195 | 0.196 | 0.072 | 0.210 | 0.351 |
| 150 | 0.124 | 0.158 | 0.160 | 0.073 | 0.18 | 0.30 |
| 185 | 0.0991 | 0.126 | 0.13 | 0.073 | 0.18 | 0.255 |
| 240 | 0.0754 | 0.0961 | 0.099 | 0.072 | 0.12 | 0.213 |
| 300 | 0.0601 | 0.0766 | 0.081 | 0.071 | 0.11 | 0.19 |
| 400 | 0.0470 | 0.060 | 0.065 | 0.071 | 0.10 | 0.16 |
| 500 | 0.0366 | 0.0467 | 0.053 | 0.071 | 0.09 | 0.15 |
| 630 | 0.0283 | 0.0361 | 0.044 | 0.070 | 0.08 | 0.13 |

- R (DC) 20°C :** DIRECT CURRENT RESISTANCE AT 20°C, Ohm / Km
R (DC) 90°C : DIRECT CURRENT RESISTANCE AT 90°C, Ohm / Km
R (AC) 90°C : ALTERNATING CURRENT RESISTANCE AT 90°C, Ohm / Km
X : REACTANCE, Ohm / Km
Z : IMPEDANCE, Ohm / Km
VD : VOLTAGE DROP, V / Amp. Km (Phase to Phase)



ELECTRICAL PARAMETERS

Low Voltage Single Core Cable (In Trefoil Formation)

0.6/1 kV

**Linear Resistance, Reactance and Voltage Drop of
XLPE Insulated (90°C) Aluminium Conductor at 50 Hertz**

| SIZE MM ² | R (DC) 20°C | R (DC) 90°C | R (AC) 90°C | X | Z | VD |
|-------------------------|----------------|----------------|----------------|--------|-------|-------|
| 16 | 1.91 | 2.45 | 2.45 | 0.1048 | 2.45 | 3.48 |
| 25 | 1.20 | 1.539 | 1.539 | 0.0987 | 1.53 | 2.22 |
| 35 | 0.868 | 1.106 | 1.106 | 0.094 | 1.11 | 1.63 |
| 50 | 0.641 | 0.817 | 0.817 | 0.092 | 0.82 | 1.23 |
| 70 | 0.443 | 0.564 | 0.565 | 0.088 | 0.574 | 0.877 |
| 95 | 0.320 | 0.408 | 0.408 | 0.088 | 0.42 | 0.66 |
| 120 | 0.253 | 0.323 | 0.323 | 0.084 | 0.335 | 0.536 |
| 150 | 0.206 | 0.262 | 0.263 | 0.0812 | 0.28 | 0.45 |
| 185 | 0.164 | 0.209 | 0.210 | 0.083 | 0.23 | 0.38 |
| 240 | 0.125 | 0.159 | 0.161 | 0.079 | 0.179 | 0.306 |
| 300 | 0.100 | 0.127 | 0.129 | 0.079 | 0.152 | 0.262 |
| 400 | 0.0778 | 0.0992 | 0.102 | 0.078 | 0.128 | 0.221 |
| 500 | 0.0605 | 0.078 | 0.080 | 0.076 | 0.111 | 0.191 |
| 630 | 0.0468 | 0.060 | 0.0646 | 0.076 | 0.10 | 0.17 |

Low Voltage Cable (Multi Core)
**Linear Resistance, Reactance and Voltage Drop of
XLPE Insulated (90°C) Aluminium Conductor at 50 Hertz**

| SIZE MM ² | R (DC) 20°C | R (DC) 90°C | R (AC) 90°C | X | Z | VD |
|-------------------------|----------------|----------------|----------------|-------|-------|-------|
| 16 | 1.91 | 2.44 | 2.44 | 0.079 | 2.44 | 3.46 |
| 25 | 1.20 | 1.539 | 1.539 | 0.081 | 1.53 | 2.20 |
| 35 | 0.868 | 1.166 | 1.16 | 0.079 | 1.25 | 1.81 |
| 50 | 0.641 | 0.817 | 0.817 | 0.076 | 0.82 | 1.21 |
| 70 | 0.443 | 0.564 | 0.564 | 0.075 | 0.57 | 0.86 |
| 95 | 0.320 | 0.408 | 0.408 | 0.073 | 0.418 | 0.64 |
| 120 | 0.253 | 0.323 | 0.323 | 0.072 | 0.334 | 0.52 |
| 150 | 0.206 | 0.262 | 0.263 | 0.072 | 0.276 | 0.446 |
| 185 | 0.164 | 0.209 | 0.211 | 0.073 | 0.224 | 0.371 |
| 240 | 0.125 | 0.159 | 0.161 | 0.072 | 0.18 | 0.301 |
| 300 | 0.100 | 0.127 | 0.129 | 0.071 | 0.15 | 0.257 |
| 400 | 0.0778 | 0.099 | 0.102 | 0.070 | 0.12 | 0.217 |
| 500 | 0.0605 | 0.078 | 0.080 | 0.071 | 0.11 | 0.19 |
| 630 | 0.0469 | 0.059 | 0.062 | 0.070 | 0.10 | 0.16 |

R (DC) 20: Direct Current Resistance at 20°C, Ohm / Km

X : Reactance, Ohm / Km

R (DC) 90: Direct Current Resistance at 90°C, Ohm / Km

Z : Impedance, Ohm / Km

R (AC) 90: Alternating Current Resistance at 90°C, Ohm / Km

VD : Voltage Drop (Phase to Phase), V / A / Km



GUIDELINES FOR THE SELECTION OF THE REQUIRED SIZE OF CABLE

The required sizes of cable shall be selected based on the following steps:

Ampacity: Based on the required ampacity and the installation condition, a suitable size of cable can be selected.

Voltage Drop: The suitability of the above selected size shall be cross checked with the voltage drop. If it is within the limit, the selection is ok. Otherwise, the higher size (whose voltage drop suits the requirement) shall be selected. Following is an example for the above:

Example:

150 meters of three core cable, XLPE insulated, PVC sheathed, copper cable installed under ground to carry 100 amperes load, supply voltage 380 V.three phase system 50Hz, Ground temperature 40°C, soil thermal resistivity 2.5 k.m. / W and load factor 1.

Derating Factors:

| | |
|-----------------------------------|-----------|
| *35mm ² cable ampacity | =176 amps |
| *Soil thermal resistivity | = 0.71 |
| *Ground temperature | = 0.85 |

$$\text{Therefore derated current} = 106 \text{ Amps } (176 \times 0.71 \times 0.85)$$

$$\text{Voltage drop(Vap)} = \frac{V_p \times 1000 \times V}{I \times L \times 100} \text{ V/A/KM}$$

$$\begin{aligned} VP &= \text{maximum permissible voltage drop (say2.5\%)} \\ V &= \text{System voltage (Here 380V)} \\ L &= \text{Length in meters (Here 150 meter)} \\ \text{Therefore, Vap} &= \frac{2.5 \times 1000 \times 380}{100 \times 150 \times 100} \text{ V/A/KM} \\ &= 0.633 \text{V/A/KM} \end{aligned}$$

From table on page 52 of this catalogue, the voltage drop of 35 mm² XLPE insulated multi core cable is 1.011 V/A/km, which is much higher than the requirement of 0.633 V/A/km. The voltage drop of 70 mm² cable is 0.556 V/A/km which is with in the limit. Therefore, the suitable size is 70 mm².

Note:

* Please refer to the Low Voltage Electrical Guide N.C.I Brochure for finding the Ampacity, Soil Thermal Resistivity and Ground Temperature.

