

شركة الخليج للكابلات والصناعات المتعددة - الأردن  
Gulf Cable & Multi Industries Co. Jordan



شركة الخليج للكابلات والصناعات الكهربائية ش.م.ك. - الكويت  
Gulf Cable & Electrical Industries Co. K.S.C.P. - Kuwait

We Build Cables For Life



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# LOW VOLTAGE CABLES

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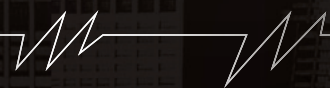
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PRODUCT DATA TABLES

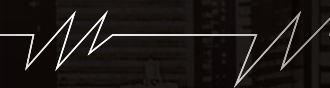


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# CONTENTS

|                      |   |
|----------------------|---|
| □ INTRODUCTION ..... | 1 |
|----------------------|---|

|                       |   |
|-----------------------|---|
| □ PRODUCT RANGE ..... | 2 |
|-----------------------|---|

## □ PRODUCT DATA TABLES

### PVC INSULATED LOW VOLTAGE CABLES

|                                                                                 |       |
|---------------------------------------------------------------------------------|-------|
| Single Core Cables Cu/PVC/PVC .....                                             | 3     |
| Single Core Cables Cu/PVC/PVC/AWA/PVC .....                                     | 4-5   |
| Single Core Cables AL/PVC/PVC/AWA/PVC .....                                     | 6     |
| Two Core Cables Cu/PVC/PVC .....                                                | 7-8   |
| Two Core Cables Cu/PVC/PVC/SWA/PVC .....                                        | 9-10  |
| Two Core Cables AL/PVC/PVC/SWA/PVC .....                                        | 11    |
| Three Core Cables Cu/PVC/PVC .....                                              | 12-13 |
| Three Core Cables Cu/PVC/PVC/SWA/PVC & Cu/PVC/SWA/PVC .....                     | 14-15 |
| Four Core Cables Cu/PVC/PVC .....                                               | 16-17 |
| Four Core Cables Cu/PVC/PVC/SWA/PVC & Cu/PVC/SWA/PVC .....                      | 18-19 |
| Four Core Cables AL/PVC/PVC/SWA/PVC & AL/PVC/SWA/PVC .....                      | 20    |
| Four Core Cables with reduced Neutral Cu/PVC/PVC .....                          | 21-22 |
| Four Core Cables with reduced Neutral Cu/PVC/PVC/SWA/PVC & Cu/PVC/SWA/PVC ..... | 23-24 |
| Multicore Cables for Street Lighting Cu/PVC/PVC .....                           | 25    |

### XLPE INSULATED LOW VOLTAGE CABLES

|                                                                                   |       |
|-----------------------------------------------------------------------------------|-------|
| Single Core Cables Cu/XLPE/PVC .....                                              | 26    |
| Single Core Cables Cu/XLPE/PVC/AWA/PVC .....                                      | 27-28 |
| Two Core Cables Cu/XLPE/PVC .....                                                 | 29-30 |
| Two Core Cables Cu/XLPE/PVC/SWA/PVC .....                                         | 31-32 |
| Three Core Cables Cu/XLPE/PVC .....                                               | 33-34 |
| Three Core Cables Cu/XLPE/PVC/SWA/PVC & Cu/XLPE/SWA/PVC .....                     | 35-36 |
| Four Core Cables Cu/XLPE/PVC .....                                                | 37-38 |
| Four Core Cables Cu/XLPE/PVC/SWA/PVC & Cu/XLPE/SWA/PVC .....                      | 39-40 |
| Four Core Cables Al/XLPE/PVC/SWA/PVC & Al/XLPE/SWA/PVC .....                      | 41    |
| Four Core Cables with reduced Neutral Cu/XLPE/PVC .....                           | 42-43 |
| Four Core Cables with reduced Neutral Cu/XLPE/PVC/SWA/PVC & Cu/XLPE/SWA/PVC ..... | 44-45 |
| Four Core Cables with reduced Neutral Al/XLPE/PVC/SWA/PVC & Al/XLPE/SWA/PVC ..... | 46    |
| Multicore Cables for Street Lighting Cu/XLPE/PVC .....                            | 47    |



# CONTENTS

## **PVC INSULATED AUXILIARY CABLES (CONTROL CABLES)**

|                                          |       |
|------------------------------------------|-------|
| 1.5 sqmm Cables Cu/PVC/PVC .....         | 48-49 |
| 1.5 sqmm Cables Cu/PVC/PVC/SWA/PVC ..... | 50-51 |
| 2.5 sqmm Cables Cu/PVC/PVC .....         | 52-53 |
| 2.5 sqmm Cables Cu/PVC/PVC/SWA/PVC ..... | 54-55 |
| 4 sqmm Cables Cu/PVC/PVC .....           | 56-57 |
| 4 sqmm Cables Cu/PVC/PVC/SWA/PVC .....   | 58-59 |

## **XLPE INSULATED AUXILIARY CABLES (CONTROL CABLES)**

|                                           |       |
|-------------------------------------------|-------|
| 1.5 sqmm Cables Cu/XLPE/PVC .....         | 60    |
| 1.5 sqmm Cables Cu/XLPE/PVC/SWA/PVC ..... | 61-62 |
| 2.5 sqmm Cables Cu/XLPE/PVC .....         | 63    |
| 2.5 sqmm Cables Cu/XLPE/PVC/SWA/PVC ..... | 64-65 |
| 4 sqmm Cables Cu/XLPE/PVC .....           | 66    |
| 4 sqmm Cables Cu/XLPE/PVC/SWA/PVC .....   | 67-68 |

## **□ TECHNICAL DATA TABLES**

### **AC RESISTANCE & REACTANCE VALUES**

|                                            |       |
|--------------------------------------------|-------|
| 0.6/1.0 KV XLPE/PVC Insulated Cables ..... | 69-70 |
|--------------------------------------------|-------|

## **□ CURRENT RATINGS & Voltage Drop**

|                                                                               |       |
|-------------------------------------------------------------------------------|-------|
| 1 KV Copper / Aluminium Conductor XLPE Insulated Single Core Cables .....     | 71-72 |
| 1 KV Copper / Aluminium Conductor XLPE Insulated Two Core Cables .....        | 73-74 |
| 1 KV Copper / Aluminium Conductor XLPE Insulated Three/Four Core Cables ..... | 75-76 |
| 1 KV Copper / Aluminium Conductor PVC Insulated Single Core Cables .....      | 77-78 |
| 1 KV Copper / Aluminium Conductor PVC Insulated Two Core Cables .....         | 79-80 |
| 1 KV Copper / Aluminium Conductor PVC Insulated Three/Four Core Cables .....  | 81-82 |
| Rating factors .....                                                          | 83-89 |

## **□ SHORT CIRCUIT CURVES**

|                                                 |       |
|-------------------------------------------------|-------|
| Copper Conductor PVC Insulated Cables .....     | 90-91 |
| Copper Conductor XLPE Insulated Cables .....    | 92    |
| Aluminium Conductor PVC Insulated Cables .....  | 93-94 |
| Aluminium Conductor XLPE Insulated Cables ..... | 95    |

## **□ DRUMS**

|                                 |    |
|---------------------------------|----|
| Drum Sizes and Dimensions ..... | 96 |
|---------------------------------|----|

## □ Introduction:

Gulf Cables and Electrical Industries Co. K.S.C.P. was established in 1975 with objective of meeting growing local and export markets requirements, it owns two factories one located in Kuwait the other in Jordan. Our Vision is to be the leader of Gulf and Middle East region in manufacturing and supplying Cables and Conductors. Through continuous improvements driven by the integrity, teamwork and innovation, we are committed to provide such a Quality that:

- Our customers will receive superior value
- Our shareholders will receive ever exceeding returns on their investments
- Our business partners will share our success
- Our employees will prosper

Our products are designed and manufactured to meet the needs of the Local, regional and International markets. All our products meet the respective world standards.

We handle all available means for exporting products - land, marine and air.

We are also equipped to meet all export requirements and formalities in the local Arab markets, including Saudi Arabia, United Arab Emirates, Oman, Bahrain, Jordan , Iraq and MENA. Opportunities to Export to Syria, Lebanon, Yemen and other countries worldwide will also be available soon.

We have developed and established communication channels with our customers through which, we constantly get updates and feedbacks on their stated / implied needs and problems. Based on this information, we have devised new modalities to provide better service to our valued customers. Thus, we not only provide Quality Products, but also offer a host of related services before and after the sale.

## □ Products:

Medium Voltage Power Cables up to 19/33(36) KV

Low Voltage Power Cables up to 600/1000V

Control Cables 600/1000V

Bare Conductors for Overhead Lines

Earthing Conductors

PVC or XLPE Insulated Conductors

Domestic Applications / Internal Wiring

LSF Cables & Wires

Lead Sheathed Cables

Enamelled Wires

Telephone, communication & Instrumentation Cables

## □ Quality:

Quality has always been our top priority and to meet customer's expectation has been our prime objective; the very basis on which we earned the confidence of our clientele. It is this concern and commitment, rather than just sell of product, has given us a distinct image and competitive advantage.

## □ Certificates:

|                                        |   |                       |
|----------------------------------------|---|-----------------------|
| ISO 9001: 2015                         | } | CERTIFIED BY TUV NORD |
| ISO 14001: 2015                        |   |                       |
| BS OHSAS 18001:2007                    |   |                       |
| BS EN ISO 9001:2015 CERTIFIED BY BASEC |   |                       |
| ISO 9001:2015 CERTIFIED BY SGS         |   |                       |



## □ PRODUCT RANGE

We at Gulf Cables always aim for the best. While most of the cable manufacturers in gulf and middle east region settled for iso 9002, we stand out with iso 9001 which recognizes our ability for design & development as well.

As a philosophy, our commitment to customers does not end with a sale. We also offer a host of related services before and after the sale. These include:

- Application engineering service for selection of appropriate product best suiting the end use.
- An extensive range of cables, single core wires, flexible cords bare & insulated conductors manufactured to stringent quality standards going beyond international specifications.
- Design and development of products tailored to meet specific requirements of the application.
- To help the customers understand the product intricacies and its performance levels.

## □ NOTE 1:

THE TABULATIONS ON SUBSEQUENT PAGES FURNISH OVERALL DIMENSIONS, NET & GROSS WEIGHTS AND DRUM DIMENSIONS. PLEASE NOTE THAT THESE ARE "APPROXIMATE" VALUES. THEY HAVE BEEN FURNISHED FOR GENERAL GUIDELINES AND INTENDED TO BE USED FOR THUMB RULE ESTIMATIONS / FREIGHT CALCULATIONS.

## □ NOTE 2:

THE FOLLOWING LIST TABULATES ONLY THE "STANDARD" PRODUCTS. FOR ANY PRODUCT NOT LISTED BELOW, PLEASE DO NOT HESITATE TO CONTACT OUR SALES & MARKETTING DIVISION. WE SHALL BE TOO PLEASSED TO MEET YOUR SPECIFIC REQUIREMENTS.

## □ PRODUCT

## □ STANDARD

### LOW VOLTAGE POWER CABLES 600/1000 V

- PVC insulated PVC sheathed armoured/unarmoured cables
- XLPE insulated PVC sheathed armoured/unarmoured cables
- PVC or XLPE Insulated PVC Sheathed Armoured/Unarmoured Cables.

BS 6346 / IEC 60502

BS 5467 / IEC 60502

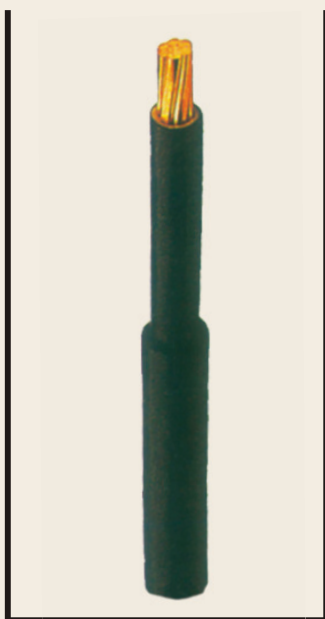
BS 6346 / BS 5467 / IEC 60502

### CONTROL CABLES 600/1000 V

- PVC or XLPE insulated PVC sheathed armoured/unarmoured Cables up to 61 cores.

BS 6346 / BS 5467 / IEC 60502





- 600 / 1000 V - SINGLE CORE  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size /Coil | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Yard/<br>Metre±10%      |                 | KG                   |
| 1.5*                      | 12.1                                 | 0.8                     | 1.4                       | 6.4                      | 58                   | 100Y                    | COIL            | 5.3                  |
| 1.5                       | 12.1                                 | 0.8                     | 1.4                       | 6.6                      | 62                   | 100Y                    | COIL            | 5.7                  |
| 2.5*                      | 7.41                                 | 0.8                     | 1.4                       | 6.8                      | 71                   | 100Y                    | COIL            | 6.5                  |
| 2.5                       | 7.41                                 | 0.8                     | 1.4                       | 7.0                      | 75                   | 100Y                    | COIL            | 6.9                  |
| 4                         | 4.61                                 | 1.0                     | 1.4                       | 7.9                      | 100                  | 100Y                    | COIL            | 9.1                  |
| 6                         | 3.08                                 | 1.0                     | 1.4                       | 8.5                      | 125                  | 100Y                    | COIL            | 11.4                 |
| 10                        | 1.83                                 | 1.0                     | 1.4                       | 9.2                      | 170                  | 100Y                    | COIL            | 15.5                 |
| 16                        | 1.15                                 | 1.0                     | 1.4                       | 10.3                     | 235                  | 100Y                    | COIL            | 21.0                 |
| 25                        | 0.727                                | 1.2                     | 1.4                       | 12.0                     | 345                  | 1000M                   | D-10            | 405                  |
| 35                        | 0.524                                | 1.2                     | 1.4                       | 13.1                     | 445                  | 1000M                   | D-10            | 505                  |
| 50                        | 0.387                                | 1.4                     | 1.4                       | 14.6                     | 585                  | 500M                    | D-8             | 340                  |
| 70                        | 0.268                                | 1.4                     | 1.4                       | 16.2                     | 795                  | 500M                    | D-9             | 460                  |
| 95                        | 0.193                                | 1.6                     | 1.5                       | 18.7                     | 1090                 | 500M                    | D-10            | 610                  |
| 120                       | 0.153                                | 1.6                     | 1.5                       | 20.2                     | 1330                 | 500M                    | D-10            | 730                  |
| 150                       | 0.124                                | 1.8                     | 1.6                       | 22.2                     | 1650                 | 500M                    | D-11            | 930                  |
| 185                       | 0.0991                               | 2.0                     | 1.7                       | 24.4                     | 2020                 | 500M                    | D-12            | 1120                 |
| 240                       | 0.0754                               | 2.2                     | 1.8                       | 27.5                     | 2600                 | 500M                    | D-12            | 1410                 |
| 300                       | 0.0601                               | 2.4                     | 1.9                       | 30.1                     | 3230                 | 500M                    | D-14            | 1770                 |
| 400                       | 0.0470                               | 2.6                     | 2.0                       | 33.6                     | 4140                 | 500M                    | D-16            | 2280                 |
| 500                       | 0.0366                               | 2.8                     | 2.1                       | 37.4                     | 5200                 | 500M                    | D-18            | 1790                 |
| 630                       | 0.0283                               | 2.8                     | 2.2                       | 43.2                     | 6660                 | 250M                    | D-14            | 1820                 |
| 800                       | 0.0221                               | 2.8                     | 2.3                       | 47.4                     | 8340                 | 250M                    | D-16            | 2340                 |
| 1000                      | 0.0176                               | 3.0                     | 2.5                       | 53.6                     | 10600                | 250M                    | D-18            | 2890                 |

\*Circular solid conductors (Class 1).

All other conductors circular stranded or circular stranded compacted (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

All Cables conform to IEC 60502 - 1 & generally to BS 6346.

Colour of insulation and sheath Black.



## 600 / 1000 V - SINGLE CORE

COPPER CONDUCTOR  
PVC INSULATED ALUMINIUM WIRE ARMoured  
PVC SHEATHED CABLES

(CU / PVC / PVC / AWA / PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Armour Wire Diameter | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|----------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                   | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 50*                       | 0.387                                | 1.4                     | 0.8                           | 1.6                  | 1.5                       | 19.6                     | 820                  | 500                     | D-10      | 470                  |
| 70*                       | 0.268                                | 1.4                     | 0.8                           | 1.6                  | 1.6                       | 21.4                     | 1060                 | 500                     | D-10      | 590                  |
| 95*                       | 0.193                                | 1.6                     | 0.8                           | 1.6                  | 1.6                       | 23.7                     | 1380                 | 500                     | D-11      | 790                  |
| 120                       | 0.153                                | 1.6                     | 1.0                           | 1.6                  | 1.7                       | 25.8                     | 1680                 | 500                     | D-12      | 950                  |
| 150                       | 0.124                                | 1.8                     | 1.0                           | 1.6                  | 1.7                       | 27.6                     | 2020                 | 500                     | D-12      | 1120                 |
| 185                       | 0.0991                               | 2.0                     | 1.0                           | 1.6                  | 1.8                       | 29.8                     | 2420                 | 500                     | D-12      | 1320                 |
| 240                       | 0.0754                               | 2.2                     | 1.0                           | 1.6                  | 1.9                       | 32.9                     | 3050                 | 500                     | D-16      | 1740                 |
| 300                       | 0.0601                               | 2.4                     | 1.0                           | 1.6                  | 1.9                       | 35.3                     | 3700                 | 500                     | D-16      | 2060                 |
| 400                       | 0.0470                               | 2.6                     | 1.2                           | 2.0                  | 2.1                       | 40.2                     | 4810                 | 500                     | D-18      | 2650                 |
| 500                       | 0.0366                               | 2.8                     | 1.2                           | 2.0                  | 2.1                       | 43.6                     | 5900                 | 500                     | D-18      | 3190                 |
| 630                       | 0.0283                               | 2.8                     | 1.2                           | 2.0                  | 2.2                       | 49.4                     | 7460                 | 250                     | D-16      | 2080                 |
| 800                       | 0.0221                               | 2.8                     | 1.4                           | 2.5                  | 2.4                       | 55.2                     | 9450                 | 250                     | D-18      | 2600                 |
| 1000                      | 0.0176                               | 3.0                     | 1.4                           | 2.5                  | 2.5                       | 61.2                     | 11820                | 250                     | D-18      | 3200                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.  
Colour of insulation and sheath black

\*Cables generally to BS 6346.

\*Wire diameter are larger than those specified in BS 6346.

All other Cables Conform to BS 6346.



## 600 / 1000 V - SINGLE CORE

COPPER CONDUCTOR  
PVC INSULATED ALUMINIUM WIRE ARMoured  
PVC SHEATHED CABLES  
(CU / PVC / PVC / AWA / PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Armour Wire Diameter | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|----------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                   | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 50                        | 0.387                                | 1.4                     | 1.0                           | 1.25                 | 1.8                       | 19.9                     | 820                  | 500                     | D-10      | 470                  |
| 70                        | 0.268                                | 1.4                     | 1.0                           | 1.25                 | 1.8                       | 21.5                     | 1060                 | 500                     | D-10      | 590                  |
| 95                        | 0.193                                | 1.6                     | 1.0                           | 1.25                 | 1.8                       | 23.8                     | 1380                 | 500                     | D-11      | 790                  |
| 120                       | 0.153                                | 1.6                     | 1.0                           | 1.6                  | 1.8                       | 26.0                     | 1690                 | 500                     | D-12      | 955                  |
| 150                       | 0.124                                | 1.8                     | 1.0                           | 1.6                  | 1.8                       | 27.8                     | 2030                 | 500                     | D-12      | 1125                 |
| 185                       | 0.0991                               | 2.0                     | 1.0                           | 1.6                  | 1.8                       | 29.8                     | 2420                 | 500                     | D-12      | 1320                 |
| 240                       | 0.0754                               | 2.2                     | 1.0                           | 1.6                  | 1.9                       | 32.9                     | 3050                 | 500                     | D-16      | 1740                 |
| 300                       | 0.0601                               | 2.4                     | 1.0                           | 2.0                  | 2.0                       | 36.3                     | 3800                 | 500                     | D-16      | 2110                 |
| 400                       | 0.0470                               | 2.6                     | 1.2                           | 2.0                  | 2.1                       | 40.2                     | 4810                 | 500                     | D-18      | 2650                 |
| 500                       | 0.0366                               | 2.8                     | 1.2                           | 2.0                  | 2.2                       | 43.8                     | 5920                 | 500                     | D-18      | 3200                 |
| 630                       | 0.0283                               | 2.8                     | 1.2                           | 2.0                  | 2.4                       | 49.8                     | 7420                 | 250                     | D-16      | 2065                 |
| 800                       | 0.0221                               | 2.8                     | 1.4                           | 2.5                  | 2.5                       | 55.4                     | 9500                 | 250                     | D-18      | 2610                 |
| 1000                      | 0.0176                               | 3.0                     | 1.4                           | 2.5                  | 2.7                       | 61.6                     | 11880                | 250                     | D-18      | 3215                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound. Colour of insulation and sheath black.  
All Cables conform to IEC 60502 - 1.



## 600 / 1000 V - SINGLE CORE

ALUMINIUM CONDUCTOR  
PVC INSULATED ALUMINIUM WIRE ARMoured  
PVC SHEATHED CABLES

(AL / PVC / PVC / AWA / PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Armour Wire Diameter | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|----------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                   | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 50*                       | 0.641                                | 1.4                     | 1.0                           | 1.6                  | 1.8                       | 20.6                     | 580                  | 500                     | D-10      | 350                  |
| 70*                       | 0.443                                | 1.4                     | 1.0                           | 1.6                  | 1.8                       | 22.4                     | 700                  | 500                     | D-11      | 450                  |
| 95*                       | 0.320                                | 1.6                     | 1.0                           | 1.6                  | 1.8                       | 24.6                     | 845                  | 500                     | D-12      | 535                  |
| 120                       | 0.253                                | 1.6                     | 1.0                           | 1.6                  | 1.8                       | 26.0                     | 955                  | 500                     | D-12      | 590                  |
| 150                       | 0.206                                | 1.8                     | 1.0                           | 1.6                  | 1.8                       | 27.8                     | 1100                 | 500                     | D-12      | 660                  |
| 185                       | 0.164                                | 2.0                     | 1.0                           | 1.6                  | 1.8                       | 29.9                     | 1280                 | 500                     | D-12      | 750                  |
| 240                       | 0.125                                | 2.2                     | 1.0                           | 1.6                  | 1.9                       | 33.0                     | 1560                 | 500                     | D-16      | 990                  |
| 300                       | 0.100                                | 2.4                     | 1.2                           | 2.0                  | 2.0                       | 36.7                     | 1970                 | 500                     | D-18      | 1230                 |
| 400                       | 0.0778                               | 2.6                     | 1.2                           | 2.0                  | 2.1                       | 40.4                     | 2370                 | 500                     | D-18      | 1430                 |
| 500                       | 0.0605                               | 2.8                     | 1.2                           | 2.0                  | 2.2                       | 43.9                     | 2830                 | 500                     | D-18      | 1660                 |
| 630                       | 0.0469                               | 2.8                     | 1.2                           | 2.0                  | 2.4                       | 50.4                     | 3570                 | 250                     | D-18      | 1130                 |
| 800                       | 0.0367                               | 2.8                     | 1.4                           | 2.5                  | 2.5                       | 56.3                     | 4480                 | 250                     | D-18      | 1360                 |
| 1000                      | 0.0291                               | 3.0                     | 1.4                           | 2.5                  | 2.7                       | 61.6                     | 5410                 | 250                     | D-18      | 1590                 |

All conductors circular stranded or circular stranded compacted (class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Colour of insulation and sheath black.

Cables conform to IEC 60502 - 1 and generally to BS 6346.

\* Wire diameter are larger than those specified in BS 6346.





■ 600 / 1000 V - TWO CORE  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 10.6                     | 150                  | 1000                    | D-8       | 200                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 11.0                     | 160                  | 1000                    | D-8       | 210                  |
| 2.5*                      | 7.41                                 | 0.8                     | 1.8                       | 11.8                     | 190                  | 1000                    | D-8       | 240                  |
| 2.5                       | 7.41                                 | 0.8                     | 1.8                       | 12.2                     | 200                  | 1000                    | D-9       | 260                  |
| 4                         | 4.61                                 | 0.8                     | 1.8                       | 13.2                     | 255                  | 1000                    | D-10      | 315                  |
| 6                         | 3.08                                 | 0.8                     | 1.8                       | 14.4                     | 320                  | 1000                    | D-10      | 380                  |
| 10                        | 1.83                                 | 1.0                     | 1.8                       | 16.6                     | 460                  | 1000                    | D-11      | 560                  |
| 16                        | 1.15                                 | 1.0                     | 1.8                       | 18.8                     | 620                  | 1000                    | D-12      | 730                  |
| 25**                      | 0.727                                | 1.2                     | 1.8                       | 22.2                     | 910                  | 500                     | D-11      | 555                  |
| 35**                      | 0.524                                | 1.2                     | 1.8                       | 24.4                     | 1160                 | 500                     | D-12      | 690                  |
| 50**                      | 0.387                                | 1.4                     | 1.8                       | 27.9                     | 1340                 | 500                     | D-12      | 780                  |
| 70**                      | 0.268                                | 1.4                     | 1.9                       | 31.3                     | 1810                 | 500                     | D-14      | 1060                 |
| 95**                      | 0.193                                | 1.6                     | 2.0                       | 36.1                     | 2450                 | 500                     | D-18      | 1470                 |
| 120**                     | 0.153                                | 1.6                     | 2.1                       | 39.3                     | 2990                 | 500                     | D-18      | 1740                 |
| 150**                     | 0.124                                | 1.8                     | 2.2                       | 43.1                     | 3680                 | 500                     | D-18      | 2080                 |
| 185**                     | 0.0991                               | 2.0                     | 2.4                       | 47.5                     | 4500                 | 500                     | D-19      | 2570                 |
| 240**                     | 0.0754                               | 2.2                     | 2.5                       | 53.5                     | 5770                 | 250                     | D-18      | 1650                 |
| 300**                     | 0.0601                               | 2.4                     | 2.7                       | 58.7                     | 7150                 | 250                     | D-18      | 2030                 |
| 400**                     | 0.0470                               | 2.6                     | 2.9                       | 65.7                     | 9140                 | 250                     | D-18      | 2530                 |

\* Circular solid conductors ( Class 1 ).

All conductors Circular stranded or circular stranded compacted ( Class 2 ).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Cables upto and including 6 sqmm generally to BS 6346 and IEC 60502 - 1.

All other Cables conform generally to BS 6346.

\*\* Cables with sector shaped conductors, having lesser overall dimensions , weight and cost are available on request.



We Build Cables For Life

# LOW VOLTAGE CABLES



- 600 / 1000 V - TWO CORE  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.8                     | 1.8                       | 11.0                     | 160                  | 1000                    | D-8       | 210                  |
| 1.5                       | 12.1                                 | 0.8                     | 1.8                       | 11.4                     | 170                  | 1000                    | D-8       | 220                  |
| 2.5*                      | 7.41                                 | 0.8                     | 1.8                       | 11.8                     | 190                  | 1000                    | D-8       | 240                  |
| 2.5                       | 7.41                                 | 0.8                     | 1.8                       | 12.2                     | 200                  | 1000                    | D-9       | 260                  |
| 4                         | 4.61                                 | 1.0                     | 1.8                       | 14.0                     | 280                  | 1000                    | D-10      | 340                  |
| 6                         | 3.08                                 | 1.0                     | 1.8                       | 15.2                     | 345                  | 1000                    | D-10      | 405                  |
| 10                        | 1.83                                 | 1.0                     | 1.8                       | 17.2                     | 470                  | 1000                    | D-11      | 570                  |
| 16                        | 1.15                                 | 1.0                     | 1.8                       | 19.2                     | 630                  | 1000                    | D-12      | 740                  |
| 25**                      | 0.727                                | 1.2                     | 1.8                       | 22.7                     | 930                  | 500                     | D-11      | 565                  |
| 35**                      | 0.524                                | 1.2                     | 1.8                       | 24.9                     | 1190                 | 500                     | D-12      | 705                  |
| 50**                      | 0.387                                | 1.4                     | 1.8                       | 27.9                     | 1340                 | 500                     | D-12      | 780                  |
| 70**                      | 0.268                                | 1.4                     | 1.9                       | 31.3                     | 1810                 | 500                     | D-14      | 1060                 |
| 95**                      | 0.193                                | 1.6                     | 2.0                       | 36.1                     | 2450                 | 500                     | D-18      | 1470                 |
| 120**                     | 0.153                                | 1.6                     | 2.1                       | 39.3                     | 2990                 | 500                     | D-18      | 1740                 |
| 150**                     | 0.124                                | 1.8                     | 2.2                       | 43.1                     | 3680                 | 500                     | D-18      | 2080                 |
| 185**                     | 0.0991                               | 2.0                     | 2.4                       | 47.5                     | 4500                 | 500                     | D-19      | 2570                 |
| 240**                     | 0.0754                               | 2.2                     | 2.6                       | 53.7                     | 5770                 | 250                     | D-18      | 1650                 |
| 300**                     | 0.0601                               | 2.4                     | 2.7                       | 58.7                     | 7150                 | 250                     | D-18      | 2030                 |
| 400**                     | 0.0470                               | 2.6                     | 3.0                       | 65.9                     | 9140                 | 250                     | D-18      | 2530                 |
| 500**                     | 0.0366                               | 2.8                     | 3.2                       | 73.1                     | 11370                | 250                     | D-21      | 3260                 |

\* Circular solid conductors (Class 1).

All conductors Circular stranded or circular stranded compacted (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

All Cables conform IEC 60502 - 1.

\*\* Cables with sector shaped conductors, having lesser overall dimensions , weight and cost are available on request.



- ▣ 600 / 1000 V - TWO CORE
- COPPER CONDUCTOR
- PVC INSULATED STEEL WIRE ARMoured
- PVC SHEATHED CABLES
- (CU / PVC / PVC / SWA / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Armour Wire Diameter | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|----------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                   | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 0.8                           | 0.9                  | 1.3                       | 12.6                     | 305                  | 1000                    | D-9       | 365                  |
| 1.5                       | 12.1                                 | 0.7                     | 0.8                           | 0.9                  | 1.4                       | 13.2                     | 310                  | 1000                    | D-9       | 370                  |
| 2.5*                      | 7.41                                 | 0.8                     | 0.8                           | 0.9                  | 1.4                       | 14.0                     | 370                  | 1000                    | D-10      | 430                  |
| 2.5                       | 7.41                                 | 0.8                     | 0.8                           | 0.9                  | 1.4                       | 14.4                     | 390                  | 1000                    | D-10      | 450                  |
| 4                         | 4.61                                 | 0.8                     | 0.8                           | 0.9                  | 1.4                       | 15.4                     | 460                  | 1000                    | D-11      | 560                  |
| 6                         | 3.08                                 | 0.8                     | 0.8                           | 0.9                  | 1.5                       | 16.8                     | 550                  | 1000                    | D-11      | 650                  |
| 10                        | 1.83                                 | 1.0                     | 0.8                           | 1.25                 | 1.6                       | 19.9                     | 835                  | 1000                    | D-12      | 945                  |
| 16                        | 1.15                                 | 1.0                     | 0.8                           | 1.25                 | 1.6                       | 22.1                     | 1050                 | 1000                    | D-14      | 1200                 |
| 25**                      | 0.727                                | 1.2                     | 1.0                           | 1.6                  | 1.7                       | 26.8                     | 1610                 | 500                     | D-12      | 915                  |
| 35**                      | 0.524                                | 1.2                     | 1.0                           | 1.6                  | 1.8                       | 29.2                     | 1950                 | 500                     | D-12      | 1090                 |
| 50**                      | 0.387                                | 1.4                     | 1.0                           | 1.6                  | 1.9                       | 32.7                     | 2230                 | 500                     | D-16      | 1330                 |
| 70**                      | 0.268                                | 1.4                     | 1.0                           | 1.6                  | 1.9                       | 35.9                     | 2790                 | 500                     | D-18      | 1640                 |
| 95**                      | 0.193                                | 1.6                     | 1.2                           | 2.0                  | 2.1                       | 42.1                     | 3710                 | 500                     | D-18      | 2200                 |
| 120**                     | 0.153                                | 1.6                     | 1.2                           | 2.0                  | 2.2                       | 45.3                     | 4580                 | 500                     | D-18      | 2610                 |
| 150**                     | 0.124                                | 1.8                     | 1.2                           | 2.0                  | 2.3                       | 49.1                     | 5410                 | 500                     | D-19      | 3300                 |
| 185**                     | 0.0991                               | 2.0                     | 1.4                           | 2.5                  | 2.4                       | 54.4                     | 6890                 | 250                     | D-18      | 1960                 |
| 240**                     | 0.0754                               | 2.2                     | 1.4                           | 2.5                  | 2.5                       | 60.7                     | 8430                 | 250                     | D-18      | 2350                 |
| 300**                     | 0.0601                               | 2.4                     | 1.6                           | 2.5                  | 2.7                       | 66.3                     | 10140                | 250                     | D-18      | 2780                 |
| 400**                     | 0.0470                               | 2.6                     | 1.6                           | 3.15                 | 2.9                       | 73.3                     | 12500                | 250                     | D-19      | 3450                 |

\* Circular solid conductors (Class 1).

All other conductors Circular stranded or circular stranded compacted (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Cables conform to BS 6346.

\*\* Cables with sector shaped conductors having lesser overall dimensions, weight and cost are available on request.



■ 600 / 1000 V - TWO CORE  
 COPPER CONDUCTOR PVC  
 INSULATED STEEL WIRE ARMoured  
 PVC SHEATHED CABLES  
 (CU / PVC / PVC / SWA / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Armour Wire Diameter | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|----------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                   | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.8                     | 1.0                           | 0.9                  | 1.8                       | 14.4                     | 370                  | 1000                    | D-10      | 430                  |
| 1.5                       | 12.1                                 | 0.8                     | 1.0                           | 0.9                  | 1.8                       | 14.8                     | 380                  | 1000                    | D-10      | 440                  |
| 2.5*                      | 7.41                                 | 0.8                     | 1.0                           | 0.9                  | 1.8                       | 15.2                     | 420                  | 1000                    | D-10      | 480                  |
| 2.5                       | 7.41                                 | 0.8                     | 1.0                           | 0.9                  | 1.8                       | 15.6                     | 435                  | 1000                    | D-10      | 495                  |
| 4                         | 4.61                                 | 1.0                     | 1.0                           | 0.9                  | 1.8                       | 17.4                     | 540                  | 1000                    | D-11      | 640                  |
| 6                         | 3.08                                 | 1.0                     | 1.0                           | 1.25                 | 1.8                       | 19.3                     | 730                  | 1000                    | D-12      | 840                  |
| 10                        | 1.83                                 | 1.0                     | 1.0                           | 1.25                 | 1.8                       | 21.3                     | 900                  | 1000                    | D-14      | 1050                 |
| 16                        | 1.15                                 | 1.0                     | 1.0                           | 1.25                 | 1.8                       | 23.3                     | 1120                 | 1000                    | D-14      | 1270                 |
| 25**                      | 0.727                                | 1.2                     | 1.0                           | 1.6                  | 1.8                       | 27.5                     | 1660                 | 500                     | D-12      | 940                  |
| 35**                      | 0.524                                | 1.2                     | 1.0                           | 1.6                  | 1.8                       | 29.7                     | 1970                 | 500                     | D-14      | 1135                 |
| 50**                      | 0.387                                | 1.4                     | 1.0                           | 1.6                  | 1.9                       | 32.7                     | 2230                 | 500                     | D-16      | 1330                 |
| 70**                      | 0.268                                | 1.4                     | 1.0                           | 2.0                  | 2.0                       | 36.9                     | 3000                 | 500                     | D-18      | 1740                 |
| 95**                      | 0.193                                | 1.6                     | 1.2                           | 2.0                  | 2.2                       | 42.3                     | 3890                 | 500                     | D-18      | 2200                 |
| 120**                     | 0.153                                | 1.6                     | 1.2                           | 2.0                  | 2.3                       | 45.5                     | 4580                 | 500                     | D-18      | 2530                 |
| 150**                     | 0.124                                | 1.8                     | 1.2                           | 2.5                  | 2.4                       | 50.3                     | 5780                 | 500                     | D-19      | 3210                 |
| 185**                     | 0.0991                               | 2.0                     | 1.4                           | 2.5                  | 2.6                       | 55.1                     | 6890                 | 250                     | D-18      | 1960                 |
| 240**                     | 0.0754                               | 2.2                     | 1.4                           | 2.5                  | 2.8                       | 61.3                     | 8430                 | 250                     | D-18      | 2350                 |
| 300**                     | 0.0601                               | 2.4                     | 1.6                           | 2.5                  | 2.9                       | 66.7                     | 10140                | 250                     | D-19      | 2850                 |
| 400**                     | 0.0470                               | 2.6                     | 1.6                           | 2.5                  | 3.2                       | 73.9                     | 12500                | 250                     | D-21      | 3540                 |
| 500**                     | 0.0366                               | 2.8                     | 1.8                           | 3.15                 | 3.4                       | 82.8                     | 16120                | 250                     | D-22      | 4500                 |

\* Circular solid conductors (Class 1).

All other conductors Circular stranded or circular stranded compacted (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

All Cables conform to IEC 60502 - 1.

\*\* Cables with sector shaped conductors, having lesser overall dimensions, weight and cost are available on request.





- ▣ 600 / 1000 V - TWO CORE
- ALUMINIUM CONDUCTOR
- PVC INSULATED STEEL WIRE ARMoured
- PVC SHEATHED CABLES
- (AL / PVC / PVC / SWA / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Armour Wire Diameter | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|----------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                   | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 16                        | 1.91                                 | 1.0                     | 1.0                           | 1.25                 | 1.8                       | 22.9                     | 915                  | 1000                    | D-14      | 1070                 |
| 25                        | 1.20                                 | 1.2                     | 1.0                           | 1.6                  | 1.8                       | 27.0                     | 1330                 | 500                     | D-12      | 775                  |
| 35                        | 0.868                                | 1.2                     | 1.0                           | 1.6                  | 1.8                       | 29.2                     | 1540                 | 500                     | D-12      | 880                  |
| 50                        | 0.641                                | 1.4                     | 1.0                           | 1.6                  | 1.9                       | 32.9                     | 1680                 | 500                     | D-16      | 1050                 |
| 70                        | 0.443                                | 1.4                     | 1.2                           | 2.0                  | 2.0                       | 37.7                     | 2300                 | 500                     | D-18      | 1390                 |
| 95                        | 0.320                                | 1.6                     | 1.2                           | 2.0                  | 2.2                       | 42.5                     | 2790                 | 500                     | D-18      | 1640                 |
| 120                       | 0.253                                | 1.6                     | 1.2                           | 2.0                  | 2.3                       | 45.5                     | 3150                 | 500                     | D-19      | 1900                 |
| 150                       | 0.206                                | 1.8                     | 1.4                           | 2.5                  | 2.4                       | 50.7                     | 4060                 | 500                     | D-19      | 2350                 |
| 185                       | 0.164                                | 2.0                     | 1.4                           | 2.5                  | 2.6                       | 55.2                     | 4710                 | 250                     | D-18      | 1420                 |
| 240                       | 0.125                                | 2.2                     | 1.6                           | 2.5                  | 2.8                       | 61.9                     | 5700                 | 250                     | D-18      | 1670                 |
| 300                       | 0.100                                | 2.4                     | 1.6                           | 2.5                  | 2.9                       | 66.8                     | 6530                 | 250                     | D-19      | 1870                 |
| 400                       | 0.0778                               | 2.6                     | 1.6                           | 2.5                  | 3.2                       | 74.3                     | 7830                 | 250                     | D-21      | 2380                 |
| 500                       | 0.0605                               | 2.8                     | 1.8                           | 3.15                 | 3.4                       | 83.0                     | 10170                | 200                     | D-22      | 2500                 |

All conductors circular stranded or circular stranded compacted (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound. Cables conform to IEC 60502 - 1 and generally to BS 6346.



We Build Cables For Life

# LOW VOLTAGE CABLES



■ 600 / 1000 V - THREE CORE  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC )

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 11.1                     | 170                  | 1000                    | D-8       | 220                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 11.5                     | 180                  | 1000                    | D-9       | 240                  |
| 2.5*                      | 7.41                                 | 0.8                     | 1.8                       | 11.9                     | 225                  | 1000                    | D-9       | 285                  |
| 2.5                       | 7.41                                 | 0.8                     | 1.8                       | 12.4                     | 235                  | 1000                    | D-9       | 295                  |
| 4                         | 4.61                                 | 0.8                     | 1.8                       | 13.9                     | 300                  | 1000                    | D-10      | 360                  |
| 6                         | 3.08                                 | 0.8                     | 1.8                       | 16.2                     | 380                  | 1000                    | D-11      | 480                  |
| 10                        | 1.83                                 | 1.0                     | 1.8                       | 17.6                     | 560                  | 1000                    | D-12      | 670                  |
| 16                        | 1.15                                 | 1.0                     | 1.8                       | 19.9                     | 775                  | 1000                    | D-12      | 885                  |
| 25                        | 0.727                                | 1.2                     | 1.8                       | 21.2                     | 1050                 | 500                     | D-10      | 585                  |
| 35                        | 0.524                                | 1.2                     | 1.8                       | 23.5                     | 1360                 | 500                     | D-11      | 780                  |
| 50                        | 0.387                                | 1.4                     | 1.8                       | 27.1                     | 1760                 | 500                     | D-12      | 990                  |
| 70                        | 0.268                                | 1.4                     | 2.0                       | 29.7                     | 2390                 | 500                     | D-12      | 1310                 |
| 95                        | 0.193                                | 1.6                     | 2.1                       | 34.5                     | 3240                 | 500                     | D-16      | 1830                 |
| 120                       | 0.153                                | 1.6                     | 2.2                       | 37.7                     | 3990                 | 500                     | D-18      | 2240                 |
| 150                       | 0.124                                | 1.8                     | 2.3                       | 40.4                     | 4900                 | 500                     | D-18      | 2690                 |
| 185                       | 0.0991                               | 2.0                     | 2.5                       | 45.1                     | 6040                 | 250                     | D-16      | 1720                 |
| 240                       | 0.0754                               | 2.2                     | 2.6                       | 51.4                     | 7740                 | 250                     | D-18      | 2180                 |
| 300                       | 0.0601                               | 2.4                     | 2.8                       | 56.1                     | 9660                 | 250                     | D-18      | 2660                 |
| 400                       | 0.0470                               | 2.6                     | 3.1                       | 63.7                     | 12410                | 250                     | D-18      | 3340                 |
| 500                       | 0.0366                               | 2.8                     | 3.4                       | 69.1                     | 15480                | 250                     | D-18      | 4110                 |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm Circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Cables upto and including 6 sqmm generally to BS 6346 and IEC 60502 - 1.

Cables 10 sqmm to 400 sqmm conform generally to BS 6346.

500 Sqmm cable conforms to IEC 60502-1.



■ 600 / 1000 V - THREE CORE  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC )

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.8                     | 1.8                       | 11.5                     | 180                  | 1000                    | D-9       | 240                  |
| 1.5                       | 12.1                                 | 0.8                     | 1.8                       | 11.9                     | 190                  | 1000                    | D-9       | 250                  |
| 2.5*                      | 7.41                                 | 0.8                     | 1.8                       | 12.4                     | 225                  | 1000                    | D-9       | 285                  |
| 2.5                       | 7.41                                 | 0.8                     | 1.8                       | 12.8                     | 235                  | 1000                    | D-9       | 295                  |
| 4                         | 4.61                                 | 1.0                     | 1.8                       | 14.8                     | 330                  | 1000                    | D-10      | 390                  |
| 6                         | 3.08                                 | 1.0                     | 1.8                       | 16.0                     | 410                  | 1000                    | D-11      | 510                  |
| 10                        | 1.83                                 | 1.0                     | 1.8                       | 18.2                     | 560                  | 1000                    | D-12      | 670                  |
| 16                        | 1.15                                 | 1.0                     | 1.8                       | 20.4                     | 775                  | 1000                    | D-12      | 885                  |
| 25                        | 0.727                                | 1.2                     | 1.8                       | 21.2                     | 1050                 | 500                     | D-10      | 585                  |
| 35                        | 0.524                                | 1.2                     | 1.8                       | 23.5                     | 1360                 | 500                     | D-11      | 780                  |
| 50                        | 0.387                                | 1.4                     | 1.8                       | 27.1                     | 1760                 | 500                     | D-12      | 990                  |
| 70                        | 0.268                                | 1.4                     | 2.0                       | 29.7                     | 2390                 | 500                     | D-12      | 1310                 |
| 95                        | 0.193                                | 1.6                     | 2.1                       | 34.5                     | 3240                 | 500                     | D-16      | 1830                 |
| 120                       | 0.153                                | 1.6                     | 2.2                       | 37.7                     | 3990                 | 500                     | D-18      | 2240                 |
| 150                       | 0.124                                | 1.8                     | 2.3                       | 40.4                     | 4900                 | 500                     | D-18      | 2690                 |
| 185                       | 0.0991                               | 2.0                     | 2.5                       | 45.1                     | 6040                 | 250                     | D-16      | 1720                 |
| 240                       | 0.0754                               | 2.2                     | 2.7                       | 51.6                     | 7820                 | 250                     | D-18      | 2195                 |
| 300                       | 0.0601                               | 2.4                     | 2.9                       | 56.3                     | 9700                 | 250                     | D-18      | 2665                 |
| 400                       | 0.0470                               | 2.6                     | 3.1                       | 63.7                     | 12410                | 250                     | D-18      | 3340                 |
| 500                       | 0.0366                               | 2.8                     | 3.4                       | 69.1                     | 15480                | 250                     | D-18      | 4110                 |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm Circular stranded (Class 2).

25 Sqmm and above shaped stranded conductors (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC

Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Cables conform to IEC 60502 - 1.



We Build Cables For Life

# LOW VOLTAGE CABLES



## 600 / 1000 V - THREE CORE

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/PVC/PVC/SWA/PVC and CU/PVC/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 1.5*                      | 12.1                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 13.3                     | -              | 340                  | -              | 1000                    | D-10      | 400                  | -              |
| 1.5                       | 12.1                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 13.7                     | -              | 355                  | -              | 1000                    | D-10      | 415                  | -              |
| 2.5*                      | 7.41                                 | 0.8                     | 0.8                  | -              | 0.9                 | 1.4                       | 14.6                     | -              | 415                  | -              | 1000                    | D-10      | 475                  | -              |
| 2.5                       | 7.41                                 | 0.8                     | 0.8                  | -              | 0.9                 | 1.4                       | 15.0                     | -              | 435                  | -              | 1000                    | D-10      | 495                  | -              |
| 4                         | 4.61                                 | 0.8                     | 0.8                  | -              | 0.9                 | 1.4                       | 16.1                     | -              | 515                  | -              | 1000                    | D-11      | 615                  | -              |
| 6                         | 3.08                                 | 0.8                     | 0.8                  | -              | 1.25                | 1.5                       | 18.3                     | -              | 720                  | -              | 1000                    | D-12      | 830                  | -              |
| 10                        | 1.83                                 | 1.0                     | 0.8                  | -              | 1.25                | 1.6                       | 20.9                     | -              | 960                  | -              | 1000                    | D-12      | 1070                 | -              |
| 16                        | 1.15                                 | 1.0                     | 0.8                  | -              | 1.25                | 1.6                       | 23.2                     | -              | 1240                 | -              | 1000                    | D-14      | 1390                 | -              |
| 25                        | 0.727                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.7                       | 25.6                     | 24.5           | 1670                 | 1550           | 500                     | D-12      | 945                  | 858            |
| 35                        | 0.524                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 28.1                     | 27.0           | 2050                 | 1920           | 500                     | D-12      | 1140                 | 1070           |
| 50                        | 0.387                                | 1.4                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 31.9                     | 30.8           | 2610                 | 2460           | 500                     | D-14      | 1460                 | 1380           |
| 70                        | 0.268                                | 1.4                     | 1.2                  | 0.8            | 2.0                 | 2.0                       | 35.5                     | 34.0           | 3570                 | 3360           | 500                     | D-16      | 2030                 | 1890           |
| 95                        | 0.193                                | 1.6                     | 1.2                  | 0.8            | 2.0                 | 2.1                       | 40.3                     | 38.8           | 4590                 | 4360           | 500                     | D-18      | 2540                 | 2420           |
| 120                       | 0.153                                | 1.6                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 43.5                     | 42.0           | 5480                 | 5230           | 500                     | D-18      | 2980                 | 2860           |
| 150                       | 0.124                                | 1.8                     | 1.4                  | 0.8            | 2.5                 | 2.4                       | 47.8                     | 45.9           | 6940                 | 6600           | 500                     | D-19      | 3790                 | 3620           |
| 185                       | 0.0991                               | 2.0                     | 1.4                  | 0.8            | 2.5                 | 2.5                       | 52.3                     | 50.4           | 8270                 | 7900           | 250                     | D-18      | 2310                 | 2220           |
| 240                       | 0.0754                               | 2.2                     | 1.6                  | 0.8            | 2.5                 | 2.6                       | 59.0                     | 56.7           | 10330                | 9870           | 250                     | D-18      | 2820                 | 2710           |
| 300                       | 0.0601                               | 2.4                     | 1.6                  | 0.8            | 2.5                 | 2.8                       | 63.7                     | 61.4           | 12480                | 11950          | 250                     | D-18      | 3360                 | 3230           |
| 400                       | 0.0470                               | 2.6                     | 1.6                  | 0.8            | 2.5                 | 3.0                       | 71.1                     | 68.8           | 15560                | 14970          | 200                     | D-19      | 3430                 | 3310           |
| 500                       | 0.0366                               | 2.8                     | 1.8                  | 0.8            | 3.15                | 3.6                       | 78.8                     | 76.1           | 19910                | 19130          | 200                     | D-19      | 4300                 | 4150           |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm Circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC

Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Drum size given above are for cables with extruded bedding.

Cables upto 400 Sqmm conform to BS 6346.

500 Sqmm Cable Conforms to IEC 60502 - 1.



## 600 / 1000 V - THREE CORE

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/PVC/PVC/SWA/PVC and CU/PVC/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 1.5*                      | 12.1                                 | 0.8                     | 1.0                  | -              | 0.9                 | 1.8                       | 14.9                     | -              | 400                  | -              | 1000                    | D-10      | 460                  | -              |
| 1.5                       | 12.1                                 | 0.8                     | 1.0                  | -              | 0.9                 | 1.8                       | 15.3                     | -              | 420                  | -              | 1000                    | D-11      | 520                  | -              |
| 2.5*                      | 7.41                                 | 0.8                     | 1.0                  | -              | 0.9                 | 1.8                       | 15.8                     | -              | 460                  | -              | 1000                    | D-11      | 560                  | -              |
| 2.5                       | 7.41                                 | 0.8                     | 1.0                  | -              | 0.9                 | 1.8                       | 16.2                     | -              | 480                  | -              | 1000                    | D-11      | 580                  | -              |
| 4                         | 4.61                                 | 1.0                     | 1.0                  | -              | 1.25                | 1.8                       | 18.9                     | -              | 705                  | -              | 1000                    | D-12      | 815                  | -              |
| 6                         | 3.08                                 | 1.0                     | 1.0                  | -              | 1.25                | 1.8                       | 20.1                     | -              | 820                  | -              | 1000                    | D-12      | 930                  | -              |
| 10                        | 1.83                                 | 1.0                     | 1.0                  | -              | 1.25                | 1.8                       | 22.3                     | -              | 1030                 | -              | 1000                    | D-14      | 1180                 | -              |
| 16                        | 1.15                                 | 1.0                     | 1.0                  | -              | 1.25                | 1.8                       | 24.5                     | -              | 1300                 | -              | 1000                    | D-14      | 1450                 | -              |
| 25                        | 0.727                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 25.8                     | 24.7           | 1680                 | 1590           | 500                     | D-12      | 950                  | 905            |
| 35                        | 0.524                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 28.1                     | 27.0           | 2050                 | 1950           | 500                     | D-12      | 1140                 | 1085           |
| 50                        | 0.387                                | 1.4                     | 1.0                  | 0.8            | 1.6                 | 2.0                       | 32.1                     | 31.0           | 2630                 | 2485           | 500                     | D-14      | 1470                 | 1395           |
| 70                        | 0.268                                | 1.4                     | 1.2                  | 0.8            | 2.0                 | 2.1                       | 35.7                     | 34.2           | 3590                 | 3385           | 500                     | D-16      | 2005                 | 1905           |
| 95                        | 0.193                                | 1.6                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 40.5                     | 39.0           | 4610                 | 4380           | 500                     | D-18      | 2545                 | 2430           |
| 120                       | 0.153                                | 1.6                     | 1.2                  | 0.8            | 2.0                 | 2.3                       | 43.7                     | 42.2           | 5500                 | 5280           | 500                     | D-18      | 2990                 | 2880           |
| 150                       | 0.124                                | 1.8                     | 1.4                  | 0.8            | 2.5                 | 2.5                       | 48.0                     | 46.1           | 6900                 | 6625           | 500                     | D-19      | 3770                 | 3630           |
| 185                       | 0.0991                               | 2.0                     | 1.4                  | 0.8            | 2.5                 | 2.7                       | 52.7                     | 50.8           | 8300                 | 7960           | 250                     | D-18      | 2315                 | 2230           |
| 240                       | 0.0754                               | 2.2                     | 1.6                  | 0.8            | 2.5                 | 2.9                       | 59.6                     | 57.3           | 10380                | 9985           | 250                     | D-18      | 2835                 | 2735           |
| 300                       | 0.0601                               | 2.4                     | 1.6                  | 0.8            | 2.5                 | 3.1                       | 64.3                     | 62.0           | 12540                | 12025          | 250                     | D-19      | 3455                 | 3325           |
| 400                       | 0.0470                               | 2.6                     | 1.6                  | 0.8            | 3.15                | 3.4                       | 73.2                     | 70.9           | 16280                | 15805          | 200                     | D-19      | 3580                 | 3480           |
| 500                       | 0.0366                               | 2.8                     | 1.8                  | 0.8            | 3.15                | 3.6                       | 78.8                     | 76.1           | 19910                | 19065          | 200                     | D-19      | 4300                 | 4135           |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm Circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Drum size given above are for cables with extruded bedding.

Cables conform to IEC 60502- 1.





■ 600 / 1000 V - FOUR CORE  
 COPPER CONDUCTOR PVC INSULATED  
 PVC SHEATHED CABLES  
 (CU / PVC / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre ± 10%             |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 11.9                     | 200                  | 1000                    | D-9       | 260                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 12.3                     | 210                  | 1000                    | D-9       | 270                  |
| 2.5*                      | 7.41                                 | 0.8                     | 1.8                       | 13.3                     | 265                  | 1000                    | D-10      | 325                  |
| 2.5                       | 7.41                                 | 0.8                     | 1.8                       | 13.8                     | 280                  | 1000                    | D-10      | 340                  |
| 4                         | 4.61                                 | 0.8                     | 1.8                       | 15.0                     | 360                  | 1000                    | D-10      | 420                  |
| 6                         | 3.08                                 | 0.8                     | 1.8                       | 16.5                     | 465                  | 1000                    | D-11      | 565                  |
| 10                        | 1.83                                 | 1.0                     | 1.8                       | 19.1                     | 690                  | 1000                    | D-12      | 800                  |
| 16                        | 1.15                                 | 1.0                     | 1.8                       | 21.8                     | 970                  | 500                     | D-10      | 545                  |
| 25                        | 0.727                                | 1.2                     | 1.8                       | 23.3                     | 1290                 | 500                     | D-11      | 745                  |
| 35                        | 0.524                                | 1.2                     | 1.8                       | 26.7                     | 1700                 | 500                     | D-12      | 960                  |
| 50                        | 0.387                                | 1.4                     | 1.9                       | 30.3                     | 2310                 | 500                     | D-14      | 1310                 |
| 70                        | 0.268                                | 1.4                     | 2.0                       | 33.4                     | 3130                 | 500                     | D-16      | 1780                 |
| 95                        | 0.193                                | 1.6                     | 2.2                       | 38.8                     | 4260                 | 500                     | D-18      | 2370                 |
| 120                       | 0.153                                | 1.6                     | 2.3                       | 41.7                     | 5240                 | 500                     | D-18      | 2860                 |
| 150                       | 0.124                                | 1.8                     | 2.5                       | 46.3                     | 6490                 | 500                     | D-19      | 3570                 |
| 185                       | 0.0991                               | 2.0                     | 2.6                       | 51.0                     | 7980                 | 250                     | D-18      | 2240                 |
| 240                       | 0.0754                               | 2.2                     | 2.8                       | 56.6                     | 10230                | 250                     | D-18      | 2800                 |
| 300                       | 0.0601                               | 2.4                     | 3.1                       | 62.0                     | 12810                | 250                     | D-18      | 3440                 |
| 400                       | 0.0470                               | 2.6                     | 3.3                       | 69.8                     | 16390                | 200                     | D-19      | 3600                 |
| 500                       | 0.0366                               | 2.8                     | 3.6                       | 78.9                     | 20500                | 200                     | D-19      | 4420                 |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm Circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Cables up to and including 6 sqmm generally to BS 6346 and IEC 60502 - 1 .

Cables 10 sqmm upto and including 400 sqmm conform generally to BS 6346.

500 Sqmm Cable conforms to IEC 60502 - 1.



- ▣ 600 / 1000 V - FOUR CORE  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.8                     | 1.8                       | 12.3                     | 210                  | 1000                    | D-9       | 270                  |
| 1.5                       | 12.1                                 | 0.8                     | 1.8                       | 12.8                     | 225                  | 1000                    | D-9       | 285                  |
| 2.5*                      | 7.41                                 | 0.8                     | 1.8                       | 13.3                     | 265                  | 1000                    | D-10      | 325                  |
| 2.5                       | 7.41                                 | 0.8                     | 1.8                       | 13.8                     | 280                  | 1000                    | D-10      | 340                  |
| 4                         | 4.61                                 | 1.0                     | 1.8                       | 16.0                     | 390                  | 1000                    | D-11      | 490                  |
| 6                         | 3.08                                 | 1.0                     | 1.8                       | 17.4                     | 495                  | 1000                    | D-12      | 605                  |
| 10                        | 1.83                                 | 1.0                     | 1.8                       | 19.8                     | 705                  | 1000                    | D-12      | 815                  |
| 16                        | 1.15                                 | 1.0                     | 1.8                       | 22.3                     | 980                  | 500                     | D-10      | 555                  |
| 25                        | 0.727                                | 1.2                     | 1.8                       | 23.3                     | 1290                 | 500                     | D-11      | 745                  |
| 35                        | 0.524                                | 1.2                     | 1.8                       | 26.7                     | 1700                 | 500                     | D-12      | 960                  |
| 50                        | 0.387                                | 1.4                     | 1.9                       | 30.3                     | 2310                 | 500                     | D-14      | 1310                 |
| 70                        | 0.268                                | 1.4                     | 2.1                       | 33.6                     | 3150                 | 500                     | D-16      | 1790                 |
| 95                        | 0.193                                | 1.6                     | 2.2                       | 38.8                     | 4260                 | 500                     | D-18      | 2370                 |
| 120                       | 0.153                                | 1.6                     | 2.4                       | 41.9                     | 5270                 | 500                     | D-18      | 2875                 |
| 150                       | 0.124                                | 1.8                     | 2.5                       | 46.3                     | 6490                 | 500                     | D-19      | 3570                 |
| 185                       | 0.0991                               | 2.0                     | 2.7                       | 51.2                     | 8000                 | 250                     | D-18      | 2240                 |
| 240                       | 0.0754                               | 2.2                     | 2.9                       | 56.8                     | 10250                | 250                     | D-18      | 2800                 |
| 300                       | 0.0601                               | 2.4                     | 3.1                       | 62.6                     | 12810                | 250                     | D-18      | 3440                 |
| 400                       | 0.0470                               | 2.6                     | 3.4                       | 70.0                     | 16420                | 200                     | D-19      | 3610                 |
| 500                       | 0.0366                               | 2.8                     | 3.6                       | 78.9                     | 20500                | 200                     | D-19      | 4420                 |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm Circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound. Cables conform to IEC 60502 - 1.



We Build Cables For Life

# LOW VOLTAGE CABLES



## 600 / 1000 V - FOUR CORE

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/PVC/PVC/SWA/PVC and CU/PVC/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 1.5*                      | 12.1                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 14.1                     | -              | 385                  | -              | 1000                    | D-10      | 445                  | -              |
| 1.5                       | 12.1                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 14.5                     | -              | 400                  | -              | 1000                    | D-10      | 460                  | -              |
| 2.5*                      | 7.41                                 | 0.8                     | 0.8                  | -              | 0.9                 | 1.4                       | 15.5                     | -              | 470                  | -              | 1000                    | D-11      | 570                  | -              |
| 2.5                       | 7.41                                 | 0.8                     | 0.8                  | -              | 0.9                 | 1.4                       | 16.0                     | -              | 495                  | -              | 1000                    | D-11      | 595                  | -              |
| 4                         | 4.61                                 | 0.8                     | 0.8                  | -              | 1.25                | 1.5                       | 18.1                     | -              | 700                  | -              | 1000                    | D-12      | 810                  | -              |
| 6                         | 3.08                                 | 0.8                     | 0.8                  | -              | 1.25                | 1.5                       | 19.6                     | -              | 830                  | -              | 1000                    | D-12      | 940                  | -              |
| 10                        | 1.83                                 | 1.0                     | 0.8                  | -              | 1.25                | 1.6                       | 22.4                     | -              | 1130                 | -              | 1000                    | D-14      | 1280                 | -              |
| 16                        | 1.15                                 | 1.0                     | 1.0                  | -              | 1.6                 | 1.7                       | 26.4                     | -              | 1650                 | -              | 500                     | D-12      | 935                  | -              |
| 25                        | 0.727                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 27.9                     | 26.8           | 2040                 | 1890           | 500                     | D-12      | 1130                 | 1060           |
| 35                        | 0.524                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 31.5                     | 30.4           | 2550                 | 2400           | 500                     | D-14      | 1430                 | 1350           |
| 50                        | 0.387                                | 1.4                     | 1.2                  | 0.8            | 2.0                 | 2.0                       | 36.3                     | 34.8           | 3510                 | 3300           | 500                     | D-16      | 1970                 | 1860           |
| 70                        | 0.268                                | 1.4                     | 1.2                  | 0.8            | 2.0                 | 2.1                       | 39.4                     | 37.9           | 4450                 | 4220           | 500                     | D-18      | 2470                 | 2350           |
| 95                        | 0.193                                | 1.6                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 44.6                     | 43.1           | 5770                 | 5510           | 500                     | D-18      | 3130                 | 3000           |
| 120                       | 0.153                                | 1.6                     | 1.4                  | 0.8            | 2.5                 | 2.4                       | 49.1                     | 47.2           | 7350                 | 6970           | 500                     | D-19      | 4000                 | 3810           |
| 150                       | 0.124                                | 1.8                     | 1.4                  | 0.8            | 2.5                 | 2.5                       | 53.5                     | 51.6           | 8760                 | 8390           | 250                     | D-18      | 2430                 | 2340           |
| 185                       | 0.0991                               | 2.0                     | 1.4                  | 0.8            | 2.5                 | 2.6                       | 58.6                     | 56.3           | 10530                | 10040          | 250                     | D-18      | 2870                 | 2750           |
| 240                       | 0.0754                               | 2.2                     | 1.6                  | 0.8            | 2.5                 | 2.8                       | 64.2                     | 61.9           | 13050                | 12520          | 250                     | D-18      | 3500                 | 3370           |
| 300                       | 0.0601                               | 2.4                     | 1.6                  | 0.8            | 2.5                 | 3.0                       | 70.0                     | 67.7           | 15880                | 15300          | 250                     | D-19      | 4290                 | 4150           |
| 400                       | 0.0470                               | 2.6                     | 1.8                  | 0.8            | 3.15                | 3.3                       | 79.1                     | 76.4           | 20710                | 20000          | 200                     | D-19      | 4460                 | 4320           |
| 500                       | 0.0366                               | 2.8                     | 1.8                  | 0.8            | 3.15                | 3.9                       | 88.8                     | 86.1           | 25400                | 24720          | 200                     | D-23      | 5580                 | 5440           |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm Circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Drum size given above are for cables with extruded bedding.

Cables upto and including 400 Sqmm conform to BS 6346.

500 Sqmm Cable conforms to IEC 60502 - 1.



## 600 / 1000 V - FOUR CORE

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/PVC/PVC/SWA/PVC and CU/PVC/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 1.5*                      | 12.1                                 | 0.8                     | 1.0                  | -              | 0.9                 | 1.8                       | 15.7                     | -              | 445                  | -              | 1000                    | D-11      | 545                  | -              |
| 1.5                       | 12.1                                 | 0.8                     | 1.0                  | -              | 0.9                 | 1.8                       | 16.2                     | -              | 470                  | -              | 1000                    | D-11      | 570                  | -              |
| 2.5*                      | 7.41                                 | 0.8                     | 1.0                  | -              | 0.9                 | 1.8                       | 16.7                     | -              | 510                  | -              | 1000                    | D-11      | 610                  | -              |
| 2.5                       | 7.41                                 | 0.8                     | 1.0                  | -              | 0.9                 | 1.8                       | 17.2                     | -              | 540                  | -              | 1000                    | D-12      | 650                  | -              |
| 4                         | 4.61                                 | 1.0                     | 1.0                  | -              | 1.25                | 1.8                       | 20.1                     | -              | 800                  | -              | 1000                    | D-12      | 910                  | -              |
| 6                         | 3.08                                 | 1.0                     | 1.0                  | -              | 1.25                | 1.8                       | 21.5                     | -              | 940                  | -              | 1000                    | D-14      | 1090                 | -              |
| 10                        | 1.83                                 | 1.0                     | 1.0                  | -              | 1.25                | 1.8                       | 23.9                     | -              | 1200                 | -              | 1000                    | D-14      | 1350                 | -              |
| 16                        | 1.15                                 | 1.0                     | 1.0                  | -              | 1.6                 | 1.8                       | 27.1                     | -              | 1680                 | -              | 500                     | D-14      | 990                  | -              |
| 25                        | 0.727                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 27.9                     | 26.8           | 2040                 | 1925           | 500                     | D-12      | 1130                 | 1075           |
| 35                        | 0.524                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 31.5                     | 30.4           | 2550                 | 2440           | 500                     | D-14      | 1430                 | 1370           |
| 50                        | 0.387                                | 1.4                     | 1.2                  | 0.8            | 2.0                 | 2.1                       | 36.5                     | 35.0           | 3530                 | 3330           | 500                     | D-16      | 1980                 | 1875           |
| 70                        | 0.268                                | 1.4                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 39.6                     | 38.1           | 4450                 | 4250           | 500                     | D-18      | 2470                 | 2365           |
| 95                        | 0.193                                | 1.6                     | 1.2                  | 0.8            | 2.5                 | 2.4                       | 46.0                     | 44.5           | 6100                 | 5900           | 500                     | D-18      | 3290                 | 3190           |
| 120                       | 0.153                                | 1.6                     | 1.4                  | 0.8            | 2.5                 | 2.5                       | 49.3                     | 47.4           | 7370                 | 7030           | 500                     | D-19      | 4010                 | 3835           |
| 150                       | 0.124                                | 1.8                     | 1.4                  | 0.8            | 2.5                 | 2.7                       | 53.5                     | 51.9           | 8760                 | 8380           | 250                     | D-18      | 2430                 | 2335           |
| 185                       | 0.0991                               | 2.0                     | 1.6                  | 0.8            | 2.5                 | 2.9                       | 59.2                     | 56.9           | 10600                | 10120          | 250                     | D-18      | 2890                 | 2770           |
| 240                       | 0.0754                               | 2.2                     | 1.6                  | 0.8            | 2.5                 | 3.1                       | 64.8                     | 62.5           | 13100                | 12645          | 250                     | D-18      | 3520                 | 3400           |
| 300                       | 0.0601                               | 2.4                     | 1.6                  | 0.8            | 2.5                 | 3.3                       | 70.6                     | 68.3           | 16000                | 15375          | 250                     | D-19      | 4320                 | 4165           |
| 400                       | 0.0470                               | 2.6                     | 1.8                  | 0.8            | 3.15                | 3.6                       | 79.7                     | 77.0           | 20800                | 20035          | 200                     | D-19      | 5520                 | 4325           |
| 500                       | 0.0366                               | 2.8                     | 1.8                  | 0.8            | 3.15                | 3.9                       | 88.8                     | 86.1           | 25400                | 24555          | 200                     | D-23      | 5580                 | 5410           |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm Circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC

Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Drum size given above are for cables with extruded bedding.

Cables conform to IEC 60502 -1.



## 600 / 1000 V - FOUR CORE

ALUMINIUM CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(AL/PVC/PVC/SWA/PVC and AL/PVC/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 25                        | 1.20                                 | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 27.9                     | 26.8           | 1420                 | 1310           | 500                     | D-12      | 820                  | 765            |
| 35                        | 0.868                                | 1.2                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 31.3                     | 30.8           | 1720                 | 1580           | 500                     | D-14      | 1010                 | 940            |
| 50                        | 0.641                                | 1.4                     | 1.2                  | 0.8            | 2.0                 | 2.1                       | 36.5                     | 35.0           | 2400                 | 2190           | 500                     | D-18      | 1440                 | 1335           |
| 70                        | 0.443                                | 1.4                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 39.6                     | 38.1           | 2840                 | 2620           | 500                     | D-18      | 1660                 | 1550           |
| 95                        | 0.320                                | 1.6                     | 1.2                  | 0.8            | 2.5                 | 2.4                       | 45.7                     | 44.2           | 3910                 | 3600           | 500                     | D-19      | 2200                 | 2040           |
| 120                       | 0.253                                | 1.6                     | 1.4                  | 0.8            | 2.5                 | 2.5                       | 49.3                     | 47.4           | 4470                 | 4110           | 500                     | D-19      | 2560                 | 2380           |
| 150                       | 0.206                                | 1.8                     | 1.4                  | 0.8            | 2.5                 | 2.7                       | 52.1                     | 50.2           | 5050                 | 4710           | 500                     | D-19      | 2850                 | 2680           |
| 185                       | 0.164                                | 2.0                     | 1.6                  | 0.8            | 2.5                 | 2.9                       | 59.0                     | 56.7           | 6080                 | 5650           | 500                     | D-22      | 3510                 | 3300           |
| 240                       | 0.125                                | 2.2                     | 1.6                  | 0.8            | 2.5                 | 3.1                       | 65.0                     | 62.7           | 7310                 | 6800           | 250                     | D-18      | 2070                 | 1940           |
| 300                       | 0.100                                | 2.4                     | 1.6                  | 0.8            | 2.5                 | 3.3                       | 70.6                     | 68.3           | 8590                 | 8050           | 250                     | D-21      | 2570                 | 2430           |
| 400                       | 0.0778                               | 2.6                     | 1.8                  | 0.8            | 3.15                | 3.6                       | 79.7                     | 77.0           | 11180                | 10810          | 200                     | D-19      | 2560                 | 2480           |
| 500                       | 0.0605                               | 2.8                     | 1.8                  | 0.8            | 3.15                | 3.9                       | 88.9                     | 86.1           | 13690                | 12690          | 200                     | D-21      | 3160                 | 2960           |

All the Conductors shaped stranded (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Drum size given above are for cables with extruded bedding.

Cables conform to IEC 60502 -1.





- 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral |                           |                          |                      |                         |           |                      |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 10*                       | 6       | 1.83                                 | 3.08    | 1.0                     | 1.0     | 1.8                       | 18.2                     | 540                  | 1000                    | D-12      | 650                  |
| 16*                       | 10      | 1.15                                 | 1.83    | 1.0                     | 1.0     | 1.8                       | 20.7                     | 760                  | 500                     | D-10      | 440                  |
| 25                        | 16      | 0.727                                | 1.15    | 1.2                     | 1.0     | 1.8                       | 23.3                     | 1140                 | 500                     | D-11      | 670                  |
| 35                        | 16      | 0.524                                | 1.15    | 1.2                     | 1.0     | 1.8                       | 26.7                     | 1450                 | 500                     | D-12      | 835                  |
| 50                        | 25      | 0.387                                | 0.727   | 1.4                     | 1.2     | 1.9                       | 30.3                     | 1970                 | 500                     | D-12      | 1100                 |
| 70                        | 35      | 0.268                                | 0.524   | 1.4                     | 1.2     | 2.0                       | 33.4                     | 2690                 | 500                     | D-16      | 1560                 |
| 95                        | 50      | 0.193                                | 0.387   | 1.6                     | 1.4     | 2.1                       | 38.6                     | 3650                 | 500                     | D-18      | 2070                 |
| 120                       | 70      | 0.153                                | 0.268   | 1.6                     | 1.4     | 2.2                       | 41.5                     | 4570                 | 500                     | D-18      | 2530                 |
| 150                       | 70      | 0.124                                | 0.268   | 1.8                     | 1.4     | 2.4                       | 46.6                     | 5560                 | 500                     | D-19      | 3100                 |
| 185                       | 95      | 0.0991                               | 0.193   | 2.0                     | 1.6     | 2.5                       | 51.3                     | 6900                 | 250                     | D-18      | 1970                 |
| 240                       | 120     | 0.0754                               | 0.153   | 2.2                     | 1.6     | 2.7                       | 56.9                     | 8820                 | 250                     | D-18      | 2450                 |
| 300                       | 150     | 0.0601                               | 0.124   | 2.4                     | 1.8     | 2.9                       | 63.1                     | 11050                | 250                     | D-18      | 3000                 |
| 300                       | 185     | 0.0601                               | 0.0991  | 2.4                     | 2.0     | 3.0                       | 63.3                     | 11370                | 250                     | D-18      | 3080                 |
| 400                       | 185     | 0.0470                               | 0.0991  | 2.6                     | 2.0     | 3.2                       | 70.5                     | 14110                | 200                     | D-19      | 3140                 |

\* Phase conductors upto 16 Sqmm circular stranded (Class 2).

Phase conductors 25 sqmm and above shaped stranded (Class 2).

All neutral conductors circular stranded (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

\* Cables conform to IEC 60502 - 1.

All other cables conform generally to BS 6346 and IEC 60502 - 1.



- 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral |                           |                          |                      |                         |           |                      |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 10*                       | 6       | 1.83                                 | 3.08    | 1.0                     | 1.0     | 1.8                       | 18.2                     | 540                  | 1000                    | D-12      | 650                  |
| 16*                       | 10      | 1.15                                 | 1.83    | 1.0                     | 1.0     | 1.8                       | 20.7                     | 760                  | 500                     | D-10      | 440                  |
| 25                        | 16      | 0.727                                | 1.15    | 1.2                     | 1.0     | 1.8                       | 23.3                     | 1140                 | 500                     | D-11      | 670                  |
| 35                        | 16      | 0.524                                | 1.15    | 1.2                     | 1.0     | 1.8                       | 26.7                     | 1450                 | 500                     | D-12      | 835                  |
| 50                        | 25      | 0.387                                | 0.727   | 1.4                     | 1.2     | 1.9                       | 30.3                     | 1970                 | 500                     | D-12      | 1100                 |
| 70                        | 35      | 0.268                                | 0.524   | 1.4                     | 1.2     | 2.0                       | 33.4                     | 2690                 | 500                     | D-16      | 1560                 |
| 95                        | 50      | 0.193                                | 0.387   | 1.6                     | 1.4     | 2.2                       | 38.8                     | 3670                 | 500                     | D-18      | 2080                 |
| 120                       | 70      | 0.153                                | 0.268   | 1.6                     | 1.4     | 2.3                       | 41.7                     | 4590                 | 500                     | D-18      | 2540                 |
| 150                       | 70      | 0.124                                | 0.268   | 1.8                     | 1.4     | 2.4                       | 46.6                     | 5560                 | 500                     | D-19      | 3100                 |
| 185                       | 95      | 0.0991                               | 0.193   | 2.0                     | 1.6     | 2.6                       | 51.5                     | 6940                 | 250                     | D-18      | 1980                 |
| 240                       | 120     | 0.0754                               | 0.153   | 2.2                     | 1.6     | 2.8                       | 57.1                     | 8860                 | 250                     | D-18      | 2460                 |
| 300                       | 150     | 0.0601                               | 0.124   | 2.4                     | 1.8     | 3.0                       | 63.3                     | 11080                | 250                     | D-18      | 2870                 |
| 300                       | 185     | 0.0601                               | 0.0991  | 2.4                     | 2.0     | 3.0                       | 63.3                     | 11370                | 250                     | D-18      | 3080                 |
| 400                       | 185     | 0.0470                               | 0.0991  | 2.6                     | 2.0     | 3.2                       | 70.5                     | 14110                | 200                     | D-19      | 3140                 |
| 500                       | 240     | 0.0366                               | 0.0754  | 2.8                     | 2.2     | 3.5                       | 78.7                     | 18300                | 200                     | D-21      | 4080                 |

\* Phase conductors upto 16 sqmm circular stranded (Class 2).

Phase conductors 25 sqmm and above shaped stranded (Class 2).

All neutral conductors circular stranded (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC

Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Cables conform to IEC 60502 - 1.



- ▣ 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/PVC/PVC/SWA/PVC and CU/PVC/SWA/PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Bedding |        | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Dia. |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|----------------------|--------|---------------------|---------------------------|----------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral | Extruded             | Lapped |                     |                           | Extruded Bedding     | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                   |        | mm                  | mm                        | mm                   |                | Kg/Km                |                | Metre ±10%              |           | KG                   |                |
| 10*                       | 6       | 1.83                                 | 3.08    | 1.0                     | 1.0     | 1.0                  | -      | 1.25                | 1.8                       | 22.7                 | -              | 1080                 | -              | 1000                    | D-14      | 1230                 | -              |
| 16*                       | 10      | 1.15                                 | 1.83    | 1.0                     | 1.0     | 1.0                  | -      | 1.6                 | 1.8                       | 25.9                 | -              | 1530                 | -              | 500                     | D-12      | 875                  | -              |
| 25                        | 16      | 0.727                                | 1.15    | 1.2                     | 1.0     | 1.0                  | 0.8    | 1.6                 | 1.8                       | 27.9                 | 26.8           | 1930                 | 1810           | 500                     | D-12      | 1080                 | 1020           |
| 35                        | 16      | 0.524                                | 1.15    | 1.2                     | 1.0     | 1.0                  | 0.8    | 1.6                 | 1.8                       | 31.3                 | 30.2           | 2360                 | 2230           | 500                     | D-14      | 1330                 | 1270           |
| 50                        | 25      | 0.387                                | 0.727   | 1.4                     | 1.2     | 1.0                  | 0.8    | 1.6                 | 1.9                       | 34.9                 | 33.8           | 3020                 | 2870           | 500                     | D-16      | 1720                 | 1650           |
| 70                        | 35      | 0.268                                | 0.524   | 1.4                     | 1.2     | 1.2                  | 0.8    | 2.0                 | 2.0                       | 39.2                 | 37.7           | 4130                 | 3920           | 500                     | D-18      | 2310                 | 2200           |
| 95                        | 50      | 0.193                                | 0.387   | 1.6                     | 1.4     | 1.2                  | 0.8    | 2.0                 | 2.2                       | 44.6                 | 43.1           | 5340                 | 5110           | 500                     | D-18      | 2910                 | 2800           |
| 120                       | 70      | 0.153                                | 0.268   | 1.6                     | 1.4     | 1.4                  | 0.8    | 2.5                 | 2.3                       | 48.9                 | 47.0           | 6860                 | 6500           | 500                     | D-19      | 3750                 | 3570           |
| 150                       | 70      | 0.124                                | 0.268   | 1.8                     | 1.4     | 1.4                  | 0.8    | 2.5                 | 2.4                       | 53.8                 | 51.9           | 8090                 | 7740           | 500                     | D-19      | 4370                 | 4190           |
| 185                       | 95      | 0.0991                               | 0.193   | 2.0                     | 1.6     | 1.4                  | 0.8    | 2.5                 | 2.5                       | 58.5                 | 56.6           | 9700                 | 9330           | 250                     | D-18      | 2670                 | 2570           |
| 240                       | 120     | 0.0754                               | 0.153   | 2.2                     | 1.6     | 1.6                  | 0.8    | 2.5                 | 2.7                       | 64.5                 | 62.2           | 11990                | 11540          | 250                     | D-18      | 3240                 | 3130           |
| 300                       | 150     | 0.0601                               | 0.124   | 2.4                     | 1.8     | 1.6                  | 0.8    | 2.5                 | 2.9                       | 70.7                 | 68.4           | 14620                | 14080          | 250                     | D-21      | 4080                 | 3940           |
| 300                       | 185     | 0.0601                               | 0.0991  | 2.4                     | 2.0     | 1.6                  | 0.8    | 2.5                 | 2.9                       | 70.7                 | 68.4           | 14930                | 14390          | 250                     | D-21      | 4150                 | 4020           |
| 400                       | 185     | 0.0470                               | 0.0991  | 2.6                     | 2.0     | 1.8                  | 0.8    | 3.15                | 3.1                       | 79.6                 | 76.9           | 18970                | 18310          | 200                     | D-19      | 4110                 | 3980           |

\*Phase conductors upto 16 sqmm circular stranded (Class 2).

Phase conductors 25 sqmm and above shaped stranded (Class 2).

All neutral conductors circular stranded (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Drum size given above are for cables with extruded bedding.

\*Cables conform to IEC 60502 - 1.

All other cables conform to BS 6346.



- 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/PVC/PVC/SWA/PVC and CU/PVC/SWA/PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Bedding |        | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Dia. |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|----------------------|--------|---------------------|---------------------------|----------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral | Extruded             | Lapped |                     |                           | Extruded Bedding     | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                   |        | mm                  | mm                        | mm                   |                | Kg/Km                |                | Metre ±10%              |           | KG                   |                |
| 10*                       | 6       | 1.83                                 | 3.08    | 1.0                     | 1.0     | 1.0                  | -      | 1.25                | 1.8                       | 22.7                 | -              | 1080                 | -              | 1000                    | D-14      | 1230                 | -              |
| 16*                       | 10      | 1.15                                 | 1.83    | 1.0                     | 1.0     | 1.0                  | -      | 1.6                 | 1.8                       | 25.9                 | -              | 1530                 | -              | 500                     | D-12      | 875                  | -              |
| 25                        | 16      | 0.727                                | 1.15    | 1.2                     | 1.0     | 1.0                  | 0.8    | 1.6                 | 1.8                       | 27.9                 | 26.8           | 1930                 | 1835           | 500                     | D-12      | 1080                 | 1025           |
| 35                        | 16      | 0.524                                | 1.15    | 1.2                     | 1.0     | 1.0                  | 0.8    | 1.6                 | 1.9                       | 31.5                 | 30.4           | 2380                 | 2270           | 500                     | D-14      | 1340                 | 1285           |
| 50                        | 25      | 0.387                                | 0.727   | 1.4                     | 1.2     | 1.0                  | 0.8    | 2.0                 | 2.0                       | 35.9                 | 34.8           | 3250                 | 3120           | 500                     | D-16      | 1835                 | 1770           |
| 70                        | 35      | 0.268                                | 0.524   | 1.4                     | 1.2     | 1.2                  | 0.8    | 2.0                 | 2.1                       | 39.4                 | 37.9           | 4150                 | 3945           | 500                     | D-18      | 2315                 | 2215           |
| 95                        | 50      | 0.193                                | 0.387   | 1.6                     | 1.4     | 1.2                  | 0.8    | 2.0                 | 2.3                       | 44.8                 | 43.3           | 5360                 | 5125           | 500                     | D-18      | 2920                 | 2800           |
| 120                       | 70      | 0.153                                | 0.268   | 1.6                     | 1.4     | 1.4                  | 0.8    | 2.5                 | 2.5                       | 49.3                 | 47.4           | 6890                 | 6575           | 500                     | D-19      | 3765                 | 3610           |
| 150                       | 70      | 0.124                                | 0.268   | 1.8                     | 1.4     | 1.4                  | 0.8    | 2.5                 | 2.6                       | 54.0                 | 51.2           | 8110                 | 7665           | 500                     | D-19      | 4380                 | 4150           |
| 185                       | 95      | 0.0991                               | 0.193   | 2.0                     | 1.6     | 1.4                  | 0.8    | 2.5                 | 2.7                       | 58.7                 | 56.5           | 9730                 | 9305           | 250                     | D-18      | 2675                 | 2565           |
| 240                       | 120     | 0.0754                               | 0.153   | 2.2                     | 1.6     | 1.6                  | 0.8    | 2.5                 | 2.9                       | 64.9                 | 62.1           | 12030                | 11535          | 250                     | D-18      | 3250                 | 3125           |
| 300                       | 150     | 0.0601                               | 0.124   | 2.4                     | 1.8     | 1.6                  | 0.8    | 2.5                 | 3.1                       | 70.2                 | 67.9           | 14660                | 13990          | 250                     | D-21      | 4090                 | 3915           |
| 300                       | 185     | 0.0601                               | 0.0991  | 2.4                     | 2.0     | 1.6                  | 0.8    | 2.5                 | 3.2                       | 70.4                 | 68.1           | 14870                | 14350          | 250                     | D-21      | 4135                 | 4000           |
| 400                       | 185     | 0.0470                               | 0.0991  | 2.6                     | 2.0     | 1.8                  | 0.8    | 3.15                | 3.4                       | 80.2                 | 76.6           | 19090                | 18125          | 200                     | D-19      | 4135                 | 3945           |
| 500                       | 240     | 0.0366                               | 0.0754  | 2.8                     | 2.2     | 1.8                  | 0.8    | 3.15                | 3.7                       | 88.4                 | 85.7           | 23300                | 22360          | 200                     | D-23      | 5170                 | 4970           |

\*Phase conductors upto 16 sqmm circular stranded (Class 2).

Phase conductors 25 sqmm and above shaped stranded (Class 2).

All Neutral conductors circular stranded (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Drum size given above are for cables with extruded bedding.

Cables conform to IEC 60502 - 1.



600 / 1000 V - MULTICORE CABLES  
FOR STREET LIGHTING

COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES

(CU / PVC / PVC )

| Cable Details | Nominal Area of conductor |                 | Max. Conductor Resistance at 20°C |                 | Thickness of Insulation |                 | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------|---------------------------|-----------------|-----------------------------------|-----------------|-------------------------|-----------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
|               | Phase                     | Neutral & Earth | Phase                             | Neutral & Earth | Phase                   | Neutral & Earth |                           |                          |                      |                         |           |                      |
|               | Sqmm                      |                 | Ohm/Km                            |                 | mm                      |                 | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2x16+1x10     | 16                        | 10              | 1.15                              | 1.83            | 1.0                     | 1.0             | 1.8                       | 19.9                     | 735                  | 1000                    | D-12      | 830                  |
| 3x25+2x16     | 25                        | 16              | 0.727                             | 1.15            | 1.2                     | 1.0             | 1.8                       | 28.3                     | 1620                 | 500                     | D-12      | 920                  |
| 3x35+2x16     | 35                        | 16              | 0.524                             | 1.15            | 1.2                     | 1.0             | 1.9                       | 32.0                     | 2070                 | 500                     | D-14      | 1190                 |

| Cable Details | Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
|               | Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 5X1.5*        | 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 12.7                     | 230                  | 1000                    | D-9       | 290                  |
| 5X1.5         | 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 13.2                     | 240                  | 1000                    | D-9       | 300                  |
| 5X2.5*        | 2.5                       | 7.41                                 | 0.8                     | 1.8                       | 13.8                     | 290                  | 1000                    | D-10      | 350                  |
| 5X2.5         | 2.5                       | 7.41                                 | 0.8                     | 1.8                       | 14.9                     | 325                  | 1000                    | D-10      | 385                  |
| 5X4           | 4                         | 4.61                                 | 0.8                     | 1.8                       | 16.2                     | 420                  | 1000                    | D-11      | 520                  |
| 5X6           | 6                         | 3.08                                 | 0.8                     | 1.8                       | 17.8                     | 545                  | 1000                    | D-12      | 655                  |
| 5X10          | 10                        | 1.83                                 | 1.0                     | 1.8                       | 20.8                     | 835                  | 500                     | D-10      | 480                  |
| 5X16          | 16                        | 1.15                                 | 1.0                     | 1.8                       | 23.8                     | 1170                 | 500                     | D-11      | 685                  |
| 5X25          | 25                        | 0.727                                | 1.2                     | 1.9                       | 26.2                     | 1630                 | 500                     | D-12      | 925                  |
| 5X35          | 35                        | 0.524                                | 1.2                     | 2.0                       | 31.5                     | 2310                 | 500                     | D-14      | 1310                 |

\* Circular solid conductors (Class 1).

All other Conductors Circular stranded (Class 2).

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Cables conform generally to IEC 60502 -1.





We Build Cables For Life

# LOW VOLTAGE CABLES



## 600 / 1000 V - SINGLE CORE

COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES

(CU / XLPE / PVC )

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size/ Coil | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Yard/ Metre±10%         |                 | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.4                       | 6.5                      | 57                   | 100Y                    | COIL            | 5.2                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.4                       | 6.7                      | 60                   | 100Y                    | COIL            | 5.6                  |
| 2.5*                      | 7.41                                 | 0.7                     | 1.4                       | 6.9                      | 69                   | 100Y                    | COIL            | 6.4                  |
| 2.5                       | 7.41                                 | 0.7                     | 1.4                       | 7.1                      | 72                   | 100Y                    | COIL            | 6.7                  |
| 4                         | 4.61                                 | 0.7                     | 1.4                       | 7.6                      | 90                   | 100Y                    | COIL            | 8.3                  |
| 6                         | 3.08                                 | 0.7                     | 1.4                       | 8.2                      | 115                  | 100Y                    | COIL            | 10.6                 |
| 10                        | 1.83                                 | 0.7                     | 1.4                       | 8.9                      | 160                  | 100Y                    | COIL            | 14.7                 |
| 16                        | 1.15                                 | 0.7                     | 1.4                       | 10.0                     | 220                  | 1000M                   | D-8             | 270                  |
| 25                        | 0.727                                | 0.9                     | 1.4                       | 11.6                     | 320                  | 1000M                   | D-9             | 380                  |
| 35                        | 0.524                                | 0.9                     | 1.4                       | 12.7                     | 420                  | 1000M                   | D-9             | 480                  |
| 50                        | 0.387                                | 1.0                     | 1.4                       | 14.0                     | 550                  | 1000M                   | D-10            | 610                  |
| 70                        | 0.268                                | 1.1                     | 1.4                       | 15.8                     | 760                  | 1000M                   | D-11            | 860                  |
| 95                        | 0.193                                | 1.1                     | 1.5                       | 17.9                     | 1030                 | 500M                    | D-9             | 575                  |
| 120                       | 0.153                                | 1.2                     | 1.5                       | 19.6                     | 1270                 | 500M                    | D-10            | 695                  |
| 150                       | 0.124                                | 1.4                     | 1.6                       | 21.6                     | 1580                 | 500M                    | D-10            | 850                  |
| 185                       | 0.0991                               | 1.6                     | 1.6                       | 23.6                     | 1920                 | 500M                    | D-11            | 1060                 |
| 240                       | 0.0754                               | 1.7                     | 1.7                       | 26.5                     | 2470                 | 500M                    | D-12            | 1350                 |
| 300                       | 0.0601                               | 1.8                     | 1.8                       | 28.9                     | 3080                 | 500M                    | D-12            | 1650                 |
| 400                       | 0.0470                               | 2.0                     | 1.9                       | 32.4                     | 3960                 | 500M                    | D-16            | 2190                 |
| 500                       | 0.0366                               | 2.2                     | 2.0                       | 36.0                     | 4970                 | 500M                    | D-18            | 2730                 |
| 630                       | 0.0283                               | 2.4                     | 2.2                       | 42.4                     | 6420                 | 500M                    | D-18            | 3450                 |
| 800                       | 0.0221                               | 2.6                     | 2.3                       | 47.0                     | 8090                 | 250M                    | D-16            | 2240                 |
| 1000                      | 0.0176                               | 2.8                     | 2.4                       | 53.0                     | 10280                | 250M                    | D-18            | 2810                 |

\* Circular solid conductor (Class 1).

All other conductors Circular stranded or Circular stranded compacted (Class 2).

Cables upto and including 35 Sqmm conform to IEC 60502 - 1.

All other cables conforms generally to BS 5467 and IEC 60502 - 1.

Colour of insulation is natural colour.



- ▣ 600 / 1000 V - SINGLE CORE  
COPPER CONDUCTOR XLPE INSULATED  
ALUMINIUM WIRE ARMoured  
PVC SHEATHED CABLES  
(CU / XLPE / PVC / AWA / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 50*                       | 0.387                                | 1.0                     | 0.8                           | 1.6                 | 1.5                       | 18.8                     | 765                  | 500                     | D-10      | 445                  |
| 70*                       | 0.268                                | 1.1                     | 0.8                           | 1.6                 | 1.5                       | 20.6                     | 1000                 | 500                     | D-10      | 560                  |
| 95*                       | 0.193                                | 1.1                     | 0.8                           | 1.6                 | 1.6                       | 22.7                     | 1300                 | 500                     | D-11      | 750                  |
| 120*                      | 0.153                                | 1.2                     | 0.8                           | 1.6                 | 1.6                       | 24.4                     | 1560                 | 500                     | D-12      | 890                  |
| 150                       | 0.124                                | 1.4                     | 1.0                           | 1.6                 | 1.7                       | 26.8                     | 1920                 | 500                     | D-12      | 1070                 |
| 185                       | 0.0991                               | 1.6                     | 1.0                           | 1.6                 | 1.8                       | 29.0                     | 2300                 | 500                     | D-12      | 1260                 |
| 240                       | 0.0754                               | 1.7                     | 1.0                           | 1.6                 | 1.8                       | 31.7                     | 2890                 | 500                     | D-14      | 1600                 |
| 300                       | 0.0601                               | 1.8                     | 1.0                           | 1.6                 | 1.9                       | 34.1                     | 3530                 | 500                     | D-16      | 1980                 |
| 400                       | 0.0470                               | 2.0                     | 1.2                           | 2.0                 | 2.0                       | 38.8                     | 4590                 | 500                     | D-18      | 2540                 |
| 500                       | 0.0366                               | 2.2                     | 1.2                           | 2.0                 | 2.1                       | 42.4                     | 5660                 | 500                     | D-18      | 3070                 |
| 630                       | 0.0283                               | 2.4                     | 1.2                           | 2.0                 | 2.2                       | 48.6                     | 7100                 | 250                     | D-16      | 1990                 |
| 800                       | 0.0221                               | 2.6                     | 1.4                           | 2.5                 | 2.4                       | 54.0                     | 9030                 | 250                     | D-18      | 2500                 |
| 1000                      | 0.0176                               | 2.8                     | 1.4                           | 2.5                 | 2.5                       | 60.8                     | 11500                | 250                     | D-18      | 3120                 |

Circular stranded or circular stranded compacted conductors (Class 2).

\* Cables upto and including 120 Sqmm conform to IEC 60502 - 1.

All Cables conform to BS 5467 and generally to IEC 60502 - 1.

\* Wire Diameters are larger than those specified in BS 5467.

Colour of insulation is natural colour.



- ▣ 600 / 1000 V - SINGLE CORE  
COPPER CONDUCTOR XLPE INSULATED  
ALUMINIUM WIRE ARMoured  
PVC SHEATHED CABLES  
(CU / XLPE / PVC / AWA / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 50                        | 0.387                                | 1.0                     | 1.0                           | 1.25                | 1.8                       | 19.1                     | 775                  | 500                     | D-10      | 445                  |
| 70                        | 0.268                                | 1.1                     | 1.0                           | 1.25                | 1.8                       | 20.9                     | 1000                 | 500                     | D-10      | 560                  |
| 95                        | 0.193                                | 1.1                     | 1.0                           | 1.25                | 1.8                       | 22.7                     | 1300                 | 500                     | D-11      | 750                  |
| 120                       | 0.153                                | 1.2                     | 1.0                           | 1.6                 | 1.8                       | 25.2                     | 1620                 | 500                     | D-12      | 890                  |
| 150                       | 0.124                                | 1.4                     | 1.0                           | 1.6                 | 1.8                       | 27.0                     | 1940                 | 500                     | D-12      | 1080                 |
| 185                       | 0.0991                               | 1.6                     | 1.0                           | 1.6                 | 1.8                       | 29.0                     | 2300                 | 500                     | D-12      | 1260                 |
| 240                       | 0.0754                               | 1.7                     | 1.0                           | 1.6                 | 1.9                       | 31.9                     | 2910                 | 500                     | D-14      | 1610                 |
| 300                       | 0.0601                               | 1.8                     | 1.0                           | 1.6                 | 1.9                       | 34.1                     | 3530                 | 500                     | D-16      | 1980                 |
| 400                       | 0.0470                               | 2.0                     | 1.2                           | 2.0                 | 2.1                       | 39.0                     | 4610                 | 500                     | D-18      | 2550                 |
| 500                       | 0.0366                               | 2.2                     | 1.2                           | 2.0                 | 2.2                       | 42.6                     | 5690                 | 500                     | D-18      | 3085                 |
| 630                       | 0.0283                               | 2.4                     | 1.2                           | 2.0                 | 2.3                       | 47.0                     | 7150                 | 250                     | D-16      | 2000                 |
| 800                       | 0.0221                               | 2.6                     | 1.4                           | 2.5                 | 2.5                       | 55.5                     | 9200                 | 250                     | D-18      | 2540                 |
| 1000                      | 0.0176                               | 2.8                     | 1.4                           | 2.5                 | 2.7                       | 61.2                     | 11580                | 250                     | D-18      | 3140                 |

Circular stranded or circular stranded compacted conductors (Class 2).  
All cables conform to IEC 60502 -1.  
Colour of insulation is natural colour.



- ▣ 600 / 1000 V - TWO CORE  
COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES  
(CU / XLPE / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 10.8                     | 150                  | 1000                    | D-8       | 200                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 11.2                     | 170                  | 1000                    | D-9       | 230                  |
| 2.5*                      | 7.41                                 | 0.7                     | 1.8                       | 11.6                     | 180                  | 1000                    | D-9       | 240                  |
| 2.5                       | 7.41                                 | 0.7                     | 1.8                       | 12.0                     | 190                  | 1000                    | D-9       | 250                  |
| 4                         | 4.61                                 | 0.7                     | 1.8                       | 13.0                     | 240                  | 1000                    | D-9       | 300                  |
| 6                         | 3.08                                 | 0.7                     | 1.8                       | 14.2                     | 300                  | 1000                    | D-10      | 360                  |
| 10                        | 1.83                                 | 0.7                     | 1.8                       | 15.6                     | 405                  | 1000                    | D-11      | 505                  |
| 16                        | 1.15                                 | 0.7                     | 1.8                       | 17.8                     | 565                  | 1000                    | D-12      | 675                  |
| 25                        | 0.727                                | 0.9                     | 1.8                       | 21.0                     | 825                  | 500                     | D-11      | 515                  |
| 35                        | 0.524                                | 0.9                     | 1.8                       | 23.2                     | 1070                 | 500                     | D-12      | 645                  |
| 50                        | 0.387                                | 1.0                     | 1.8                       | 26.3                     | 1240                 | 500                     | D-12      | 730                  |
| 70                        | 0.268                                | 1.1                     | 1.8                       | 29.9                     | 1700                 | 500                     | D-12      | 960                  |
| 95                        | 0.193                                | 1.1                     | 1.9                       | 33.9                     | 2280                 | 500                     | D-16      | 1350                 |
| 120                       | 0.153                                | 1.2                     | 2.0                       | 37.5                     | 2830                 | 500                     | D-18      | 1660                 |
| 150                       | 0.124                                | 1.4                     | 2.2                       | 41.5                     | 3510                 | 500                     | D-18      | 2000                 |
| 185                       | 0.0991                               | 1.6                     | 2.3                       | 45.7                     | 4280                 | 500                     | D-19      | 2460                 |
| 240                       | 0.0754                               | 1.7                     | 2.5                       | 51.5                     | 5520                 | 250                     | D-18      | 1620                 |
| 300                       | 0.0601                               | 1.8                     | 2.6                       | 56.1                     | 6810                 | 250                     | D-18      | 1940                 |
| 400                       | 0.0470                               | 2.0                     | 2.9                       | 63.3                     | 8770                 | 250                     | D-18      | 2430                 |

\* Circular solid conductors (Class 1)

All other conductors circular stranded or circular stranded compacted (Class 2).  
Cables conform generally to BS 5467 and IEC 60502-1.



We Build Cables For Life

# LOW VOLTAGE CABLES



## 600 / 1000 V - TWO CORE

COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES

(CU / XLPE / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 10.8                     | 150                  | 1000                    | D-8       | 200                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 11.2                     | 170                  | 1000                    | D-9       | 230                  |
| 2.5*                      | 7.41                                 | 0.7                     | 1.8                       | 11.6                     | 180                  | 1000                    | D-9       | 240                  |
| 2.5                       | 7.41                                 | 0.7                     | 1.8                       | 12.0                     | 190                  | 1000                    | D-9       | 250                  |
| 4                         | 4.61                                 | 0.7                     | 1.8                       | 13.0                     | 240                  | 1000                    | D-9       | 300                  |
| 6                         | 3.08                                 | 0.7                     | 1.8                       | 14.2                     | 300                  | 1000                    | D-10      | 360                  |
| 10                        | 1.83                                 | 0.7                     | 1.8                       | 16.2                     | 410                  | 1000                    | D-11      | 490                  |
| 16                        | 1.15                                 | 0.7                     | 1.8                       | 18.2                     | 570                  | 1000                    | D-12      | 680                  |
| 25                        | 0.727                                | 0.9                     | 1.8                       | 21.0                     | 825                  | 500                     | D-11      | 515                  |
| 35                        | 0.524                                | 0.9                     | 1.8                       | 23.2                     | 1070                 | 500                     | D-12      | 645                  |
| 50                        | 0.387                                | 1.0                     | 1.8                       | 26.3                     | 1240                 | 500                     | D-12      | 730                  |
| 70                        | 0.268                                | 1.1                     | 1.8                       | 29.9                     | 1700                 | 500                     | D-12      | 960                  |
| 95                        | 0.193                                | 1.1                     | 2.0                       | 34.1                     | 2300                 | 500                     | D-16      | 1360                 |
| 120                       | 0.153                                | 1.2                     | 2.1                       | 37.7                     | 2850                 | 500                     | D-18      | 1670                 |
| 150                       | 0.124                                | 1.4                     | 2.2                       | 41.5                     | 3510                 | 500                     | D-18      | 2000                 |
| 185                       | 0.0991                               | 1.6                     | 2.3                       | 45.7                     | 4280                 | 500                     | D-19      | 2460                 |
| 240                       | 0.0754                               | 1.7                     | 2.5                       | 51.5                     | 5520                 | 250                     | D-18      | 1620                 |
| 300                       | 0.0601                               | 1.8                     | 2.7                       | 56.3                     | 6850                 | 250                     | D-18      | 1950                 |
| 400                       | 0.0470                               | 2.0                     | 2.9                       | 63.3                     | 8770                 | 250                     | D-18      | 2430                 |
| 500                       | 0.0366                               | 2.2                     | 3.1                       | 70.5                     | 10900                | 250                     | D-21      | 3145                 |

\* Circular solid Conductors (Class 1)

All other conductors circular stranded or circular stranded compacted (Class 2).

Cables conform to IEC 60502-1.





## 600/1000 V - TWO CORE

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / XLPE / PVC / SWA / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 0.8                           | 0.9                 | 1.3                       | 12.8                     | 305                  | 1000                    | D-10      | 365                  |
| 1.5                       | 12.1                                 | 0.7                     | 0.8                           | 0.9                 | 1.3                       | 13.2                     | 325                  | 1000                    | D-10      | 385                  |
| 2.5*                      | 7.41                                 | 0.7                     | 0.8                           | 0.9                 | 1.4                       | 13.8                     | 360                  | 1000                    | D-10      | 420                  |
| 2.5                       | 7.41                                 | 0.7                     | 0.8                           | 0.9                 | 1.4                       | 14.2                     | 375                  | 1000                    | D-10      | 435                  |
| 4                         | 4.61                                 | 0.7                     | 0.8                           | 0.9                 | 1.4                       | 15.2                     | 440                  | 1000                    | D-11      | 540                  |
| 6                         | 3.08                                 | 0.7                     | 0.8                           | 0.9                 | 1.4                       | 16.4                     | 520                  | 1000                    | D-11      | 620                  |
| 10                        | 1.83                                 | 0.7                     | 0.8                           | 0.9                 | 1.5                       | 18.0                     | 670                  | 1000                    | D-12      | 780                  |
| 16                        | 1.15                                 | 0.7                     | 0.8                           | 1.25                | 1.5                       | 20.9                     | 965                  | 1000                    | D-12      | 1080                 |
| 25                        | 0.727                                | 0.9                     | 0.8                           | 1.25                | 1.6                       | 24.3                     | 1310                 | 1000                    | D-14      | 1460                 |
| 35                        | 0.524                                | 0.9                     | 1.0                           | 1.6                 | 1.7                       | 27.8                     | 1810                 | 1000                    | D-18      | 2050                 |
| 50                        | 0.387                                | 1.0                     | 1.0                           | 1.6                 | 1.8                       | 30.9                     | 2070                 | 500                     | D-14      | 1190                 |
| 70                        | 0.268                                | 1.1                     | 1.0                           | 1.6                 | 1.9                       | 34.7                     | 2650                 | 500                     | D-16      | 1540                 |
| 95                        | 0.193                                | 1.1                     | 1.2                           | 2.0                 | 2.0                       | 39.9                     | 3640                 | 500                     | D-18      | 2060                 |
| 120                       | 0.153                                | 1.2                     | 1.2                           | 2.0                 | 2.1                       | 43.5                     | 4330                 | 500                     | D-18      | 2410                 |
| 150                       | 0.124                                | 1.4                     | 1.2                           | 2.0                 | 2.2                       | 47.3                     | 5140                 | 500                     | D-19      | 2890                 |
| 185                       | 0.0991                               | 1.6                     | 1.4                           | 2.5                 | 2.4                       | 53.1                     | 6570                 | 250                     | D-18      | 1890                 |
| 240                       | 0.0754                               | 1.7                     | 1.4                           | 2.5                 | 2.5                       | 58.7                     | 8050                 | 250                     | D-18      | 2260                 |
| 300                       | 0.0601                               | 1.8                     | 1.6                           | 2.5                 | 2.6                       | 63.7                     | 9610                 | 250                     | D-18      | 2650                 |
| 400                       | 0.0470                               | 2.0                     | 1.6                           | 2.5                 | 2.8                       | 70.7                     | 11900                | 250                     | D-21      | 3400                 |

\* Circular solid conductors (Class 1).

All other conductors circular stranded or circular stranded compacted (Class 2).

Cables conform to BS 5467 and generally to IEC 60502 - 1.



## 600/1000 V - TWO CORE

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / XLPE / PVC / SWA / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 14.2                     | 355                  | 1000                    | D-10      | 415                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 14.6                     | 370                  | 1000                    | D-10      | 430                  |
| 2.5*                      | 7.41                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 15.0                     | 400                  | 1000                    | D-10      | 460                  |
| 2.5                       | 7.41                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 15.4                     | 415                  | 1000                    | D-10      | 475                  |
| 4                         | 4.61                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 16.4                     | 480                  | 1000                    | D-11      | 580                  |
| 6                         | 3.08                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 17.6                     | 570                  | 1000                    | D-11      | 670                  |
| 10                        | 1.83                                 | 0.7                     | 1.0                           | 1.25                | 1.8                       | 20.3                     | 820                  | 1000                    | D-12      | 930                  |
| 16                        | 1.15                                 | 0.7                     | 1.0                           | 1.25                | 1.8                       | 22.3                     | 1030                 | 1000                    | D-14      | 1180                 |
| 25                        | 0.727                                | 0.9                     | 1.0                           | 1.6                 | 1.8                       | 26.3                     | 1530                 | 1000                    | D-16      | 1740                 |
| 35                        | 0.524                                | 0.9                     | 1.0                           | 1.6                 | 1.8                       | 28.5                     | 1840                 | 1000                    | D-18      | 2080                 |
| 50                        | 0.387                                | 1.0                     | 1.0                           | 1.6                 | 1.8                       | 30.9                     | 2070                 | 500                     | D-14      | 1190                 |
| 70                        | 0.268                                | 1.1                     | 1.0                           | 1.6                 | 2.0                       | 34.9                     | 2670                 | 500                     | D-16      | 1545                 |
| 95                        | 0.193                                | 1.1                     | 1.2                           | 2.0                 | 2.1                       | 40.1                     | 3660                 | 500                     | D-18      | 2070                 |
| 120                       | 0.153                                | 1.2                     | 1.2                           | 2.0                 | 2.2                       | 43.7                     | 4350                 | 500                     | D-18      | 2420                 |
| 150                       | 0.124                                | 1.4                     | 1.2                           | 2.0                 | 2.3                       | 47.5                     | 5160                 | 500                     | D-19      | 2900                 |
| 185                       | 0.0991                               | 1.6                     | 1.4                           | 2.5                 | 2.5                       | 53.3                     | 6600                 | 250                     | D-18      | 1895                 |
| 240                       | 0.0754                               | 1.7                     | 1.4                           | 2.5                 | 2.7                       | 59.1                     | 8100                 | 250                     | D-18      | 2270                 |
| 300                       | 0.0601                               | 1.8                     | 1.6                           | 2.5                 | 2.8                       | 64.1                     | 9660                 | 250                     | D-18      | 2660                 |
| 400                       | 0.0470                               | 2.0                     | 1.6                           | 2.5                 | 3.1                       | 71.3                     | 12000                | 250                     | D-21      | 3425                 |
| 500                       | 0.0366                               | 2.2                     | 1.6                           | 3.15                | 3.3                       | 79.8                     | 15500                | 250                     | D-23      | 4375                 |

\* Circular solid conductors (Class 1).

All other conductors circular stranded or circular stranded compacted (Class 2).

Cables conform to IEC 60502 -1.



- 600 / 1000 V - THREE CORE  
COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES  
(CU / XLPE / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 11.3                     | 170                  | 1000                    | D-9       | 230                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 11.7                     | 175                  | 1000                    | D-9       | 235                  |
| 2.5*                      | 7.41                                 | 0.7                     | 1.8                       | 12.2                     | 210                  | 1000                    | D-9       | 270                  |
| 2.5                       | 7.41                                 | 0.7                     | 1.8                       | 12.6                     | 220                  | 1000                    | D-9       | 280                  |
| 4                         | 4.61                                 | 0.7                     | 1.8                       | 13.7                     | 280                  | 1000                    | D-10      | 340                  |
| 6                         | 3.08                                 | 0.7                     | 1.8                       | 15.0                     | 360                  | 1000                    | D-10      | 420                  |
| 10                        | 1.83                                 | 0.7                     | 1.8                       | 16.5                     | 500                  | 1000                    | D-11      | 600                  |
| 16                        | 1.15                                 | 0.7                     | 1.8                       | 18.9                     | 705                  | 1000                    | D-12      | 815                  |
| 25                        | 0.727                                | 0.9                     | 1.8                       | 19.9                     | 955                  | 500                     | D-10      | 540                  |
| 35                        | 0.524                                | 0.9                     | 1.8                       | 22.3                     | 1250                 | 500                     | D-11      | 725                  |
| 50                        | 0.387                                | 1.0                     | 1.8                       | 25.5                     | 1610                 | 500                     | D-12      | 915                  |
| 70                        | 0.268                                | 1.1                     | 1.9                       | 28.2                     | 2230                 | 500                     | D-12      | 1230                 |
| 95                        | 0.193                                | 1.1                     | 2.0                       | 32.2                     | 3000                 | 500                     | D-16      | 1710                 |
| 120                       | 0.153                                | 1.2                     | 2.1                       | 35.8                     | 3750                 | 500                     | D-18      | 2120                 |
| 150                       | 0.124                                | 1.4                     | 2.2                       | 39.0                     | 4640                 | 500                     | D-18      | 2560                 |
| 185                       | 0.0991                               | 1.6                     | 2.4                       | 43.6                     | 5730                 | 250                     | D-14      | 1580                 |
| 240                       | 0.0754                               | 1.7                     | 2.6                       | 49.6                     | 7360                 | 250                     | D-16      | 2050                 |
| 300                       | 0.0601                               | 1.8                     | 2.7                       | 54.2                     | 9190                 | 250                     | D-18      | 2540                 |
| 400                       | 0.0470                               | 2.0                     | 3.0                       | 61.8                     | 11850                | 250                     | D-18      | 3200                 |

\* Circular solid conductors (Class 1).  
Conductors including 16 sqmm circular stranded (Class 2).  
25 sqmm and above shaped stranded conductors (Class 2).  
Cables upto 10 Sqmm conform to IEC 60502 - 1.  
All other cables conform generally to BS 5467 and IEC 60502-1.



■ 600 / 1000 V - THREE CORE  
 COPPER CONDUCTOR XLPE INSULATED  
 PVC SHEATHED CABLES  
 (CU / XLPE / PVC )

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 11.3                     | 170                  | 1000                    | D-9       | 230                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 11.7                     | 175                  | 1000                    | D-9       | 235                  |
| 2.5*                      | 7.41                                 | 0.7                     | 1.8                       | 12.2                     | 210                  | 1000                    | D-9       | 270                  |
| 2.5                       | 7.41                                 | 0.7                     | 1.8                       | 12.6                     | 220                  | 1000                    | D-9       | 280                  |
| 4                         | 4.61                                 | 0.7                     | 1.8                       | 13.7                     | 280                  | 1000                    | D-10      | 340                  |
| 6                         | 3.08                                 | 0.7                     | 1.8                       | 15.0                     | 360                  | 1000                    | D-10      | 420                  |
| 10                        | 1.83                                 | 0.7                     | 1.8                       | 17.1                     | 500                  | 1000                    | D-11      | 600                  |
| 16                        | 1.15                                 | 0.7                     | 1.8                       | 19.3                     | 705                  | 1000                    | D-12      | 815                  |
| 25                        | 0.727                                | 0.9                     | 1.8                       | 19.9                     | 955                  | 500                     | D-10      | 540                  |
| 35                        | 0.524                                | 0.9                     | 1.8                       | 22.3                     | 1250                 | 500                     | D-11      | 725                  |
| 50                        | 0.387                                | 1.0                     | 1.8                       | 25.5                     | 1610                 | 500                     | D-12      | 915                  |
| 70                        | 0.268                                | 1.1                     | 1.9                       | 28.2                     | 2230                 | 500                     | D-12      | 1230                 |
| 95                        | 0.193                                | 1.1                     | 2.0                       | 32.2                     | 3000                 | 500                     | D-16      | 1710                 |
| 120                       | 0.153                                | 1.2                     | 2.1                       | 35.8                     | 3750                 | 500                     | D-18      | 2120                 |
| 150                       | 0.124                                | 1.4                     | 2.3                       | 39.2                     | 4660                 | 500                     | D-18      | 2570                 |
| 185                       | 0.0991                               | 1.6                     | 2.4                       | 43.6                     | 5730                 | 250                     | D-14      | 1580                 |
| 240                       | 0.0754                               | 1.7                     | 2.6                       | 49.6                     | 7360                 | 250                     | D-16      | 2050                 |
| 300                       | 0.0601                               | 1.8                     | 2.8                       | 54.4                     | 9210                 | 250                     | D-18      | 2550                 |
| 400                       | 0.0470                               | 2.0                     | 3.1                       | 62.0                     | 11890                | 250                     | D-18      | 3210                 |
| 500                       | 0.0366                               | 2.2                     | 3.3                       | 67.2                     | 14800                | 250                     | D-19      | 4020                 |

\* Circular solid conductors (Class 1).  
 Conductors including 16 Sqmm circular stranded (Class 2).  
 25 sqmm and above shaped stranded conductors (Class 2).  
 All cables conform to IEC 60502-1.



## 600 / 1000 V - THREE CORE

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/XLPE/PVC/SWA/PVC and CU/XLPE/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 1.5*                      | 12.1                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.3                       | 13.3                     | -              | 330                  | -              | 1000                    | D-10      | 390                  | -              |
| 1.5                       | 12.1                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.3                       | 13.7                     | -              | 350                  | -              | 1000                    | D-10      | 410                  | -              |
| 2.5*                      | 7.41                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 14.4                     | -              | 390                  | -              | 1000                    | D-10      | 450                  | -              |
| 2.5                       | 7.41                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 14.8                     | -              | 415                  | -              | 1000                    | D-10      | 475                  | -              |
| 4                         | 4.61                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 15.9                     | -              | 490                  | -              | 1000                    | D-11      | 590                  | -              |
| 6                         | 3.08                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 17.2                     | -              | 580                  | -              | 1000                    | D-12      | 690                  | -              |
| 10                        | 1.83                                 | 0.7                     | 0.8                  | -              | 1.25                | 1.5                       | 19.6                     | -              | 850                  | -              | 1000                    | D-12      | 960                  | -              |
| 16                        | 1.15                                 | 0.7                     | 0.8                  | -              | 1.25                | 1.6                       | 22.2                     | -              | 1110                 | -              | 1000                    | D-14      | 1260                 | -              |
| 25                        | 0.727                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.7                       | 24.3                     | 23.2           | 1520                 | 1420           | 500                     | D-11      | 870                  | 810            |
| 35                        | 0.524                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 26.9                     | 25.8           | 1910                 | 1790           | 500                     | D-12      | 1065                 | 1010           |
| 50                        | 0.387                                | 1.0                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 30.1                     | 29.0           | 2400                 | 2250           | 500                     | D-12      | 1350                 | 1230           |
| 70                        | 0.268                                | 1.1                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 32.8                     | 31.7           | 3100                 | 2950           | 500                     | D-14      | 1700                 | 1630           |
| 95                        | 0.193                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.1                       | 38.2                     | 36.7           | 4310                 | 4060           | 500                     | D-16      | 2400                 | 2270           |
| 120                       | 0.153                                | 1.2                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 41.8                     | 40.3           | 5170                 | 4920           | 500                     | D-18      | 2830                 | 2700           |
| 150                       | 0.124                                | 1.4                     | 1.4                  | 0.8            | 2.5                 | 2.3                       | 46.4                     | 44.5           | 6620                 | 6290           | 500                     | D-18      | 3550                 | 3390           |
| 185                       | 0.0991                               | 1.6                     | 1.4                  | 0.8            | 2.5                 | 2.4                       | 50.8                     | 48.9           | 7860                 | 7510           | 250                     | D-18      | 2210                 | 2090           |
| 240                       | 0.0754                               | 1.7                     | 1.4                  | 0.8            | 2.5                 | 2.6                       | 56.9                     | 55.0           | 9810                 | 9410           | 250                     | D-18      | 2690                 | 2590           |
| 300                       | 0.0601                               | 1.8                     | 1.6                  | 0.8            | 2.5                 | 2.7                       | 61.8                     | 59.5           | 11910                | 11430          | 250                     | D-18      | 3220                 | 3100           |
| 400                       | 0.0470                               | 2.0                     | 1.6                  | 0.8            | 2.5                 | 2.9                       | 69.2                     | 66.9           | 14910                | 14330          | 200                     | D-19      | 3300                 | 3110           |

\* Circular solid conductors (Class 1).  
Conductors including 16 sqmm circular stranded (Class 2)  
25 sqmm and above shaped stranded conductors (Class 2).  
Cables conform to BS 5467 and generally to IEC 60502 - 1.  
Drum size given above are for cables with extruded bedding.



We Build Cables For Life

# LOW VOLTAGE CABLES



## 600/1000 V - THREE CORE

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/XLPE/PVC/SWA/PVC and CU/XLPE/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 1.5*                      | 12.1                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 14.7                     | -              | 380                  | -              | 1000                    | D-10      | 440                  | -              |
| 1.5                       | 12.1                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 15.1                     | -              | 400                  | -              | 1000                    | D-10      | 460                  | -              |
| 2.5*                      | 7.41                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 15.6                     | -              | 440                  | -              | 1000                    | D-10      | 500                  | -              |
| 2.5                       | 7.41                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 16.0                     | -              | 460                  | -              | 1000                    | D-11      | 560                  | -              |
| 4                         | 4.61                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 17.1                     | -              | 540                  | -              | 1000                    | D-11      | 640                  | -              |
| 6                         | 3.08                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 18.4                     | -              | 640                  | -              | 1000                    | D-12      | 750                  | -              |
| 10                        | 1.83                                 | 0.7                     | 1.0                  | -              | 1.25                | 1.8                       | 21.2                     | -              | 940                  | -              | 1000                    | D-14      | 1090                 | -              |
| 16                        | 1.15                                 | 0.7                     | 1.0                  | -              | 1.25                | 1.8                       | 23.4                     | -              | 1200                 | -              | 1000                    | D-14      | 1350                 | -              |
| 25                        | 0.727                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 24.5                     | 23.4           | 1520                 | 1445           | 500                     | D-11      | 875                  | 825            |
| 35                        | 0.524                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 26.9                     | 25.8           | 1910                 | 1815           | 500                     | D-12      | 1065                 | 1020           |
| 50                        | 0.387                                | 1.0                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 30.3                     | 29.2           | 2420                 | 2275           | 500                     | D-12      | 1360                 | 1245           |
| 70                        | 0.268                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.0                       | 34.2                     | 32.7           | 3300                 | 3165           | 500                     | D-16      | 1860                 | 1795           |
| 95                        | 0.193                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 38.4                     | 36.9           | 4330                 | 4075           | 500                     | D-16      | 2410                 | 2250           |
| 120                       | 0.153                                | 1.2                     | 1.2                  | 0.8            | 2.0                 | 2.3                       | 42.0                     | 40.5           | 5190                 | 4965           | 500                     | D-18      | 2840                 | 2725           |
| 150                       | 0.124                                | 1.4                     | 1.4                  | 0.8            | 2.5                 | 2.5                       | 46.8                     | 44.9           | 6660                 | 6330           | 500                     | D-18      | 3560                 | 3405           |
| 185                       | 0.0991                               | 1.6                     | 1.4                  | 0.8            | 2.5                 | 2.6                       | 51.2                     | 49.3           | 7900                 | 7550           | 250                     | D-18      | 2220                 | 2130           |
| 240                       | 0.0754                               | 1.7                     | 1.6                  | 0.8            | 2.5                 | 2.8                       | 57.7                     | 55.4           | 9950                 | 9490           | 250                     | D-18      | 2730                 | 2615           |
| 300                       | 0.0601                               | 1.8                     | 1.6                  | 0.8            | 2.5                 | 3.0                       | 62.4                     | 60.1           | 12000                | 11495          | 250                     | D-18      | 3240                 | 3115           |
| 400                       | 0.0470                               | 2.0                     | 1.6                  | 0.8            | 2.5                 | 3.2                       | 69.8                     | 67.5           | 15020                | 14345          | 200                     | D-19      | 3325                 | 3190           |
| 500                       | 0.0366                               | 2.2                     | 1.8                  | 0.8            | 3.15                | 3.5                       | 76.9                     | 76.1           | 18900                | 18320          | 200                     | D-19      | 4100                 | 3985           |

\*Circular solid conductors (Class 1).

Conductors including 16 sqmm circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

Cables conform to IEC 60502-1.

Drum size given above are for cables with extruded bedding.





- ▣ 600 / 1000 V - FOUR CORE  
COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES  
(CU / XLPE / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 12.1                     | 195                  | 1000                    | D-9       | 255                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 12.6                     | 205                  | 1000                    | D-9       | 265                  |
| 2.5*                      | 7.41                                 | 0.7                     | 1.8                       | 13.1                     | 245                  | 1000                    | D-10      | 305                  |
| 2.5                       | 7.41                                 | 0.7                     | 1.8                       | 13.6                     | 260                  | 1000                    | D-10      | 320                  |
| 4                         | 4.61                                 | 0.7                     | 1.8                       | 14.8                     | 335                  | 1000                    | D-10      | 395                  |
| 6                         | 3.08                                 | 0.7                     | 1.8                       | 16.2                     | 435                  | 1000                    | D-11      | 535                  |
| 10                        | 1.83                                 | 0.7                     | 1.8                       | 17.9                     | 615                  | 1000                    | D-12      | 725                  |
| 16                        | 1.15                                 | 0.7                     | 1.8                       | 20.6                     | 880                  | 1000                    | D-12      | 990                  |
| 25                        | 0.727                                | 0.9                     | 1.8                       | 22.0                     | 1220                 | 500                     | D-10      | 670                  |
| 35                        | 0.524                                | 0.9                     | 1.8                       | 25.4                     | 1620                 | 500                     | D-12      | 920                  |
| 50                        | 0.387                                | 1.0                     | 1.8                       | 28.3                     | 2100                 | 500                     | D-12      | 1160                 |
| 70                        | 0.268                                | 1.1                     | 2.0                       | 32.1                     | 2930                 | 500                     | D-16      | 1680                 |
| 95                        | 0.193                                | 1.1                     | 2.1                       | 36.3                     | 3950                 | 500                     | D-18      | 2220                 |
| 120                       | 0.153                                | 1.2                     | 2.2                       | 39.7                     | 4920                 | 500                     | D-18      | 2700                 |
| 150                       | 0.124                                | 1.4                     | 2.4                       | 44.8                     | 6150                 | 500                     | D-18      | 3320                 |
| 185                       | 0.0991                               | 1.6                     | 2.6                       | 49.7                     | 7600                 | 250                     | D-16      | 2110                 |
| 240                       | 0.0754                               | 1.7                     | 2.8                       | 54.8                     | 9730                 | 250                     | D-18      | 2670                 |
| 300                       | 0.0601                               | 1.8                     | 3.0                       | 60.6                     | 12190                | 250                     | D-18      | 3290                 |
| 400                       | 0.0470                               | 2.0                     | 3.2                       | 67.8                     | 15650                | 200                     | D-18      | 3370                 |
| 500                       | 0.0366                               | 2.2                     | 3.5                       | 76.9                     | 19600                | 200                     | D-19      | 4240                 |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

Cables upto and including 16 Sqmm conform to IEC 60502 - 1.

From 16 Sqmm upto and including 400 Sqmm conform generally to BS 5467.

500 Sqmm Cable conforms to IEC 60502 - 1.



■ 600 / 1000 V - FOUR CORE  
 COPPER CONDUCTOR XLPE INSULATED  
 PVC SHEATHED CABLES  
 (CU / XLPE / PVC)

| Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 1.5*                      | 12.1                                 | 0.7                     | 1.8                       | 12.1                     | 195                  | 1000                    | D-9       | 255                  |
| 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 12.6                     | 205                  | 1000                    | D-9       | 265                  |
| 2.5*                      | 7.41                                 | 0.7                     | 1.8                       | 13.1                     | 245                  | 1000                    | D-10      | 305                  |
| 2.5                       | 7.41                                 | 0.7                     | 1.8                       | 13.6                     | 260                  | 1000                    | D-10      | 320                  |
| 4                         | 4.61                                 | 0.7                     | 1.8                       | 14.8                     | 335                  | 1000                    | D-10      | 395                  |
| 6                         | 3.08                                 | 0.7                     | 1.8                       | 16.2                     | 435                  | 1000                    | D-11      | 535                  |
| 10                        | 1.83                                 | 0.7                     | 1.8                       | 18.6                     | 615                  | 1000                    | D-12      | 725                  |
| 16                        | 1.15                                 | 0.7                     | 1.8                       | 21.1                     | 880                  | 1000                    | D-12      | 990                  |
| 25                        | 0.727                                | 0.9                     | 1.8                       | 22.0                     | 1220                 | 500                     | D-10      | 670                  |
| 35                        | 0.524                                | 0.9                     | 1.8                       | 25.4                     | 1620                 | 500                     | D-12      | 920                  |
| 50                        | 0.387                                | 1.0                     | 1.8                       | 28.3                     | 2100                 | 500                     | D-12      | 1160                 |
| 70                        | 0.268                                | 1.1                     | 2.0                       | 32.1                     | 2930                 | 500                     | D-16      | 1680                 |
| 95                        | 0.193                                | 1.1                     | 2.1                       | 36.3                     | 3950                 | 500                     | D-18      | 2220                 |
| 120                       | 0.153                                | 1.2                     | 2.3                       | 39.9                     | 4940                 | 500                     | D-18      | 2710                 |
| 150                       | 0.124                                | 1.4                     | 2.4                       | 44.8                     | 6150                 | 500                     | D-18      | 3320                 |
| 185                       | 0.0991                               | 1.6                     | 2.6                       | 49.7                     | 7600                 | 250                     | D-16      | 2110                 |
| 240                       | 0.0754                               | 1.7                     | 2.8                       | 54.8                     | 9730                 | 250                     | D-18      | 2670                 |
| 300                       | 0.0601                               | 1.8                     | 3.0                       | 60.6                     | 12190                | 250                     | D-18      | 3290                 |
| 400                       | 0.0470                               | 2.0                     | 3.3                       | 68.0                     | 15690                | 200                     | D-18      | 3380                 |
| 500                       | 0.0366                               | 2.2                     | 3.5                       | 76.9                     | 19600                | 200                     | D-19      | 4240                 |

\* Circular solid Conductors (Class 1).  
 Conductors including 16 sqmm circular stranded (Class 2).  
 25 sqmm and above shaped stranded conductors (Class 2).  
 Cables conform to IEC 60502-1.



■ 600 / 1000 V - FOUR CORE

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/XLPE/PVC/SWA/PVC and CU/XLPE/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 1.5*                      | 12.1                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 13.5                     | -              | 380                  | -              | 1000                    | D-10      | 440                  | -              |
| 1.5                       | 12.1                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 14.8                     | -              | 400                  | -              | 1000                    | D-10      | 460                  | -              |
| 2.5*                      | 7.41                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 14.5                     | -              | 450                  | -              | 1000                    | D-11      | 550                  | -              |
| 2.5                       | 7.41                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 15.8                     | -              | 470                  | -              | 1000                    | D-11      | 570                  | -              |
| 4                         | 4.61                                 | 0.7                     | 0.8                  | -              | 0.9                 | 1.4                       | 17.0                     | -              | 570                  | -              | 1000                    | D-11      | 670                  | -              |
| 6                         | 3.08                                 | 0.7                     | 0.8                  | -              | 1.25                | 1.5                       | 18.3                     | -              | 790                  | -              | 1000                    | D-12      | 900                  | -              |
| 10                        | 1.83                                 | 0.7                     | 0.8                  | -              | 1.25                | 1.5                       | 21.0                     | -              | 1020                 | -              | 1000                    | D-12      | 1130                 | -              |
| 16                        | 1.15                                 | 0.7                     | 0.8                  | -              | 1.25                | 1.6                       | 23.9                     | -              | 1350                 | -              | 1000                    | D-14      | 1500                 | -              |
| 25                        | 0.727                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.7                       | 26.4                     | 25.7           | 1850                 | 1730           | 500                     | D-12      | 1040                 | 975            |
| 35                        | 0.524                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 30.0                     | 28.4           | 2360                 | 2220           | 500                     | D-12      | 1290                 | 1220           |
| 50                        | 0.387                                | 1.0                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 33.1                     | 31.6           | 2970                 | 2820           | 500                     | D-16      | 1700                 | 1560           |
| 70                        | 0.268                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.1                       | 38.1                     | 36.9           | 4190                 | 3980           | 500                     | D-18      | 2340                 | 2230           |
| 95                        | 0.193                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 42.3                     | 40.9           | 5370                 | 5150           | 500                     | D-18      | 2930                 | 2820           |
| 120                       | 0.153                                | 1.2                     | 1.4                  | 0.8            | 2.5                 | 2.3                       | 47.1                     | 45.9           | 6910                 | 6560           | 500                     | D-19      | 3780                 | 3600           |
| 150                       | 0.124                                | 1.4                     | 1.4                  | 0.8            | 2.5                 | 2.4                       | 52.0                     | 50.2           | 8340                 | 8000           | 500                     | D-19      | 4490                 | 4320           |
| 185                       | 0.0991                               | 1.6                     | 1.4                  | 0.8            | 2.5                 | 2.6                       | 56.9                     | 55.4           | 9980                 | 9610           | 250                     | D-18      | 2740                 | 2640           |
| 240                       | 0.0754                               | 1.7                     | 1.6                  | 0.8            | 2.5                 | 2.7                       | 62.2                     | 61.4           | 12400                | 11910          | 250                     | D-18      | 3340                 | 3220           |
| 300                       | 0.0601                               | 1.8                     | 1.6                  | 0.8            | 2.5                 | 2.9                       | 68.0                     | 67.2           | 15130                | 14600          | 250                     | D-18      | 4020                 | 3890           |
| 400                       | 0.0470                               | 2.0                     | 1.8                  | 0.8            | 3.15                | 3.2                       | 77.1                     | 76.1           | 19850                | 19140          | 200                     | D-19      | 4290                 | 4150           |
| 500                       | 0.0366                               | 2.2                     | 1.8                  | 0.8            | 3.15                | 3.8                       | 86.8                     | 85.5           | 24460                | 23920          | 200                     | D-21      | 5310                 | 5200           |

\*Circular solid conductors (Class 1).

Conductors including 16 sqmm circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

Cables upto and including 400 Sqmm conform to BS 5467.

500 Sqmm Cable conforms to IEC 60502 - 1.

Drum size given above are for cables with extruded bedding.



We Build Cables For Life

# LOW VOLTAGE CABLES



## 600 / 1000 V - FOUR CORE

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU/XLPE/PVC/SWA/PVC and CU/XLPE/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 1.5*                      | 12.1                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 15.5                     | -              | 430                  | -              | 1000                    | D-10      | 490                  | -              |
| 1.5                       | 12.1                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 16.0                     | -              | 440                  | -              | 1000                    | D-11      | 540                  | -              |
| 2.5*                      | 7.41                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 16.5                     | -              | 490                  | -              | 1000                    | D-11      | 590                  | -              |
| 2.5                       | 7.41                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 17.0                     | -              | 510                  | -              | 1000                    | D-11      | 610                  | -              |
| 4                         | 4.61                                 | 0.7                     | 1.0                  | -              | 0.9                 | 1.8                       | 18.2                     | -              | 610                  | -              | 1000                    | D-12      | 720                  | -              |
| 6                         | 3.08                                 | 0.7                     | 1.0                  | -              | 1.25                | 1.8                       | 20.3                     | -              | 840                  | -              | 1000                    | D-12      | 950                  | -              |
| 10                        | 1.83                                 | 0.7                     | 1.0                  | -              | 1.25                | 1.8                       | 22.7                     | -              | 1090                 | -              | 1000                    | D-14      | 1240                 | -              |
| 16                        | 1.15                                 | 0.7                     | 1.0                  | -              | 1.6                 | 1.8                       | 25.9                     | -              | 1560                 | -              | 1000                    | D-16      | 1770                 | -              |
| 25                        | 0.727                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 26.6                     | 25.5           | 1870                 | 1775           | 500                     | D-12      | 1045                 | 995            |
| 35                        | 0.524                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 30.2                     | 29.1           | 2380                 | 2270           | 500                     | D-12      | 1300                 | 1245           |
| 50                        | 0.387                                | 1.0                     | 1.0                  | 0.8            | 1.6                 | 2.0                       | 33.3                     | 32.2           | 2990                 | 2840           | 500                     | D-16      | 1705                 | 1630           |
| 70                        | 0.268                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.3                       | 38.3                     | 36.8           | 4210                 | 3995           | 500                     | D-18      | 2345                 | 2240           |
| 95                        | 0.193                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.3                       | 42.5                     | 41.0           | 5390                 | 5155           | 500                     | D-18      | 2935                 | 2820           |
| 120                       | 0.153                                | 1.2                     | 1.4                  | 0.8            | 2.5                 | 2.5                       | 47.5                     | 45.6           | 6950                 | 6640           | 500                     | D-19      | 3795                 | 3640           |
| 150                       | 0.124                                | 1.4                     | 1.4                  | 0.8            | 2.5                 | 2.6                       | 52.4                     | 49.8           | 8380                 | 7985           | 500                     | D-19      | 4510                 | 4310           |
| 185                       | 0.0991                               | 1.6                     | 1.4                  | 0.8            | 2.5                 | 2.8                       | 57.3                     | 55.4           | 10030                | 9650           | 250                     | D-18      | 2745                 | 2655           |
| 240                       | 0.0754                               | 1.7                     | 1.6                  | 0.8            | 2.5                 | 3.0                       | 62.8                     | 60.5           | 12500                | 12025          | 250                     | D-18      | 3365                 | 3245           |
| 300                       | 0.0601                               | 1.8                     | 1.6                  | 0.8            | 2.5                 | 3.2                       | 68.6                     | 66.3           | 15200                | 14655          | 250                     | D-21      | 4220                 | 4085           |
| 400                       | 0.0470                               | 2.0                     | 1.8                  | 0.8            | 3.15                | 3.5                       | 77.7                     | 75.0           | 19950                | 19145          | 200                     | D-22      | 4460                 | 4300           |
| 500                       | 0.0366                               | 2.2                     | 1.8                  | 0.8            | 3.15                | 3.8                       | 86.8                     | 86.1           | 24460                | 23590          | 200                     | D-21      | 5310                 | 5140           |

\* Circular solid conductors (Class 1).

Conductors including 16 sqmm circular stranded (Class 2).

25 sqmm and above shaped stranded conductors (Class 2).

Cables conform to IEC 60502 -1.

Drum size given above are for cables with extruded bedding.



## 600 / 1000 V - FOUR CORE

ALUMINIUM CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(AL/XLPE/PVC/SWA/PVC and AL/XLPE/SWA/PVC)

| Nominal Area of Conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Bedding |                | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|--------------------------------------|-------------------------|----------------------|----------------|---------------------|---------------------------|--------------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
|                           |                                      |                         | Extruded Bedding     | Lapped Bedding |                     |                           | Extruded Bedding         | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      | Ohm/Km                               | mm                      | mm                   |                | mm                  | mm                        | mm                       |                | Kg/Km                |                | Metre ± 10%             |           | KG                   |                |
| 25                        | 1.20                                 | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.8                       | 26.6                     | 25.5           | 1270                 | 1170           | 500                     | D-12      | 745                  | 695            |
| 35                        | 0.868                                | 0.9                     | 1.0                  | 0.8            | 1.6                 | 1.9                       | 29.9                     | 28.8           | 1540                 | 1410           | 500                     | D-12      | 880                  | 815            |
| 50                        | 0.641                                | 1.0                     | 1.0                  | 0.8            | 1.6                 | 2.0                       | 33.3                     | 32.2           | 1840                 | 1720           | 500                     | D-16      | 1130                 | 1070           |
| 70                        | 0.443                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.2                       | 38.3                     | 36.8           | 2570                 | 2390           | 500                     | D-18      | 1530                 | 1440           |
| 95                        | 0.320                                | 1.1                     | 1.2                  | 0.8            | 2.0                 | 2.3                       | 42.3                     | 40.8           | 3090                 | 2860           | 500                     | D-18      | 1790                 | 1670           |
| 120                       | 0.253                                | 1.2                     | 1.4                  | 0.8            | 2.5                 | 2.5                       | 47.5                     | 45.6           | 4060                 | 3750           | 500                     | D-19      | 2350                 | 2200           |
| 150                       | 0.206                                | 1.4                     | 1.4                  | 0.8            | 2.5                 | 2.6                       | 50.6                     | 48.7           | 4630                 | 4300           | 500                     | D-19      | 2640                 | 2470           |
| 185                       | 0.164                                | 1.6                     | 1.4                  | 0.8            | 2.5                 | 2.8                       | 56.6                     | 55.2           | 5490                 | 5170           | 250                     | D-18      | 1610                 | 1530           |
| 240                       | 0.125                                | 1.7                     | 1.6                  | 0.8            | 2.5                 | 3.0                       | 63.0                     | 60.7           | 6650                 | 6200           | 250                     | D-18      | 1900                 | 1790           |
| 300                       | 0.100                                | 1.8                     | 1.6                  | 0.8            | 2.5                 | 3.2                       | 68.6                     | 66.3           | 7830                 | 7300           | 250                     | D-19      | 2280                 | 2150           |
| 400                       | 0.0778                               | 2.0                     | 1.8                  | 0.8            | 3.15                | 3.5                       | 77.7                     | 75.0           | 10310                | 9660           | 200                     | D-19      | 2380                 | 2250           |
| 500                       | 0.0605                               | 2.2                     | 1.8                  | 0.8            | 3.15                | 3.8                       | 86.8                     | 84.1           | 12650                | 11620          | 200                     | D-21      | 2890                 | 2740           |

All conductors shaped stranded (Class 2).

Cables conform to IEC 60502 -1.

Drum size given above are for cables with extruded bedding.



- 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES  
(CU / XLPE / PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral |                           |                          |                      |                         |           |                      |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 25                        | 16      | 0.727                                | 1.15    | 0.9                     | 0.7     | 1.8                       | 22.0                     | 1090                 | 500                     | D-10      | 605                  |
| 35                        | 16      | 0.524                                | 1.15    | 0.9                     | 0.7     | 1.8                       | 25.4                     | 1410                 | 500                     | D-12      | 815                  |
| 50                        | 25      | 0.387                                | 0.727   | 1.0                     | 0.9     | 1.8                       | 28.3                     | 1890                 | 500                     | D-12      | 1060                 |
| 70                        | 35      | 0.268                                | 0.524   | 1.1                     | 0.9     | 1.9                       | 31.8                     | 2610                 | 500                     | D-14      | 1460                 |
| 95                        | 50      | 0.193                                | 0.387   | 1.1                     | 1.0     | 2.0                       | 36.1                     | 3520                 | 500                     | D-18      | 2000                 |
| 120                       | 70      | 0.153                                | 0.268   | 1.2                     | 1.1     | 2.2                       | 39.7                     | 4480                 | 500                     | D-18      | 2480                 |
| 150                       | 70      | 0.124                                | 0.268   | 1.4                     | 1.1     | 2.3                       | 44.6                     | 5440                 | 500                     | D-18      | 2960                 |
| 185                       | 95      | 0.0991                               | 0.193   | 1.6                     | 1.1     | 2.4                       | 49.3                     | 6760                 | 250                     | D-16      | 1900                 |
| 240                       | 120     | 0.0754                               | 0.153   | 1.7                     | 1.2     | 2.6                       | 54.4                     | 8631                 | 250                     | D-18      | 2400                 |
| 300                       | 150     | 0.0601                               | 0.124   | 1.8                     | 1.4     | 2.8                       | 60.2                     | 10810                | 250                     | D-18      | 2940                 |
| 300                       | 185     | 0.0601                               | 0.0991  | 1.8                     | 1.6     | 2.9                       | 60.4                     | 11120                | 250                     | D-18      | 3020                 |
| 400                       | 185     | 0.0470                               | 0.0991  | 2.0                     | 1.6     | 3.1                       | 67.6                     | 13840                | 200                     | D-18      | 3010                 |

All Phase conductors 25 sqmm and above shaped stranded (Class 2).  
All neutral conductors circular stranded (Class 2).  
Cables conform generally to BS 5467.





- 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES  
(CU / XLPE / PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral |                           |                          |                      |                         |           |                      |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 25                        | 16      | 0.727                                | 1.15    | 0.9                     | 0.7     | 1.8                       | 22.0                     | 1090                 | 500                     | D-10      | 605                  |
| 35                        | 16      | 0.524                                | 1.15    | 0.9                     | 0.7     | 1.8                       | 25.4                     | 1410                 | 500                     | D-12      | 815                  |
| 50                        | 25      | 0.387                                | 0.727   | 1.0                     | 0.9     | 1.8                       | 28.3                     | 1890                 | 500                     | D-12      | 1060                 |
| 70                        | 35      | 0.268                                | 0.524   | 1.1                     | 0.9     | 1.9                       | 31.8                     | 2610                 | 500                     | D-14      | 1460                 |
| 95                        | 50      | 0.193                                | 0.387   | 1.1                     | 1.0     | 2.1                       | 36.3                     | 3540                 | 500                     | D-18      | 2010                 |
| 120                       | 70      | 0.153                                | 0.268   | 1.2                     | 1.1     | 2.2                       | 39.7                     | 4480                 | 500                     | D-18      | 2480                 |
| 150                       | 70      | 0.124                                | 0.268   | 1.4                     | 1.1     | 2.3                       | 44.6                     | 5440                 | 500                     | D-18      | 2960                 |
| 185                       | 95      | 0.0991                               | 0.193   | 1.6                     | 1.1     | 2.5                       | 49.5                     | 6780                 | 250                     | D-16      | 1910                 |
| 240                       | 120     | 0.0754                               | 0.153   | 1.7                     | 1.2     | 2.7                       | 54.6                     | 8660                 | 250                     | D-18      | 2405                 |
| 300                       | 150     | 0.0601                               | 0.124   | 1.8                     | 1.4     | 2.9                       | 60.4                     | 10850                | 250                     | D-18      | 2950                 |
| 400                       | 185     | 0.0470                               | 0.0991  | 2.0                     | 1.6     | 3.1                       | 67.6                     | 13900                | 200                     | D-18      | 3020                 |
| 500                       | 240     | 0.0366                               | 0.0754  | 2.2                     | 1.7     | 3.4                       | 76.7                     | 17400                | 200                     | D-22      | 3950                 |

All Phase conductors 25 sqmm and above shaped stranded (Class 2).  
All neutral conductors circular stranded (Class 2).  
Cables conform to IEC 60502-1.



- 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/XLPE/PVC/SWA/PVC and CU/XLPE/SWA/PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Bedding |        | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Dia. |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|----------------------|--------|---------------------|---------------------------|----------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral | Extruded             | Lapped |                     |                           | Extruded Bedding     | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                   | mm     | mm                  | mm                        | mm                   | mm             | Kg/Km                |                | Metre ±10%              |           | KG                   |                |
| 10                        | 6       | 1.83                                 | 3.08    | 0.7                     | 0.7     | 1.0                  | -      | 1.25                | 1.8                       | 22.0                 | -              | 1043                 | -              | 1000                    | D-14      | 1190                 | -              |
| 16                        | 10      | 1.15                                 | 1.83    | 0.7                     | 0.7     | 1.0                  | -      | 1.25                | 1.8                       | 24.7                 | -              | 1360                 | -              | 1000                    | D-14      | 1510                 | -              |
| 25                        | 16      | 0.727                                | 1.15    | 0.9                     | 0.7     | 1.0                  | 0.8    | 1.6                 | 1.8                       | 26.6                 | 25.3           | 1780                 | 1650           | 500                     | D-12      | 1000                 | 935            |
| 35                        | 16      | 0.524                                | 1.15    | 0.9                     | 0.7     | 1.0                  | 0.8    | 1.6                 | 1.8                       | 30.0                 | 28.9           | 2200                 | 2070           | 500                     | D-12      | 1210                 | 1150           |
| 50                        | 25      | 0.387                                | 0.727   | 1.0                     | 0.9     | 1.0                  | 0.8    | 1.6                 | 1.9                       | 33.1                 | 32.0           | 2780                 | 2640           | 500                     | D-16      | 1600                 | 1530           |
| 70                        | 35      | 0.268                                | 0.524   | 1.1                     | 0.9     | 1.2                  | 0.8    | 2.0                 | 2.0                       | 37.8                 | 36.3           | 3890                 | 3680           | 500                     | D-18      | 2190                 | 2080           |
| 95                        | 50      | 0.193                                | 0.387   | 1.1                     | 1.0     | 1.2                  | 0.8    | 2.0                 | 2.1                       | 42.1                 | 40.6           | 4970                 | 4740           | 500                     | D-18      | 2730                 | 2610           |
| 120                       | 70      | 0.153                                | 0.268   | 1.2                     | 1.1     | 1.2                  | 0.8    | 2.0                 | 2.2                       | 45.5                 | 44.0           | 6020                 | 5780           | 500                     | D-19      | 3330                 | 3210           |
| 150                       | 70      | 0.124                                | 0.268   | 1.4                     | 1.1     | 1.4                  | 0.8    | 2.5                 | 2.4                       | 52.0                 | 50.1           | 7680                 | 7340           | 500                     | D-19      | 4160                 | 3990           |
| 185                       | 95      | 0.0991                               | 0.193   | 1.6                     | 1.1     | 1.4                  | 0.8    | 2.5                 | 2.5                       | 56.7                 | 54.8           | 9220                 | 8860           | 250                     | D-18      | 2550                 | 2460           |
| 240                       | 120     | 0.0754                               | 0.153   | 1.7                     | 1.2     | 1.6                  | 0.8    | 2.5                 | 2.6                       | 62.0                 | 59.7           | 11390                | 10900          | 250                     | D-18      | 3090                 | 2970           |
| 300                       | 150     | 0.0601                               | 0.124   | 1.8                     | 1.4     | 1.6                  | 0.8    | 2.5                 | 2.8                       | 67.8                 | 65.5           | 13840                | 13310          | 250                     | D-18      | 3700                 | 3570           |
| 300*                      | 185     | 0.0601                               | 0.0991  | 1.8                     | 1.6     | -                    | 0.8    | 2.5                 | 2.8                       | -                    | 65.9           | -                    | 13600          | 250                     | D-18      | -                    | 3660           |
| 300                       | 185     | 0.0601                               | 0.0991  | 1.8                     | 1.6     | 1.6                  | 0.8    | 2.5                 | 2.8                       | 67.8                 | 65.5           | 14120                | 13600          | 250                     | D-18      | 3770                 | 3640           |
| 400                       | 185     | 0.0470                               | 0.0991  | 2.0                     | 1.6     | 1.6                  | 0.8    | 2.5                 | 3.0                       | 75.0                 | 72.7           | 17150                | 16620          | 200                     | D-19      | 3750                 | 3640           |

All Phase conductors upto 16 Sqmm circular stranded (Class 2).

All Phase conductors 25 sqmm and above shaped stranded (Class 2).

All neutral conductors circular stranded (Class 2).

10 Sqmm and 16 Sqmm cables conform to IEC 60502 - 1, \*Cable as per MEW, Kuwait specification.

All other cables conform to BS 5467.

Drum size given above are for cables with extruded bedding.



- ▣ 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES  
(CU/XLPE/PVC/SWA/PVC and CU/XLPE/SWA/PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Bedding |        | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Dia. |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|----------------------|--------|---------------------|---------------------------|----------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral | Extruded             | Lapped |                     |                           | Extruded Bedding     | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                   |        | mm                  | mm                        | mm                   |                | Kg/Km                |                | Metre ±10%              |           | KG                   |                |
| 10                        | 6       | 1.83                                 | 3.08    | 0.7                     | 0.7     | 1.0                  | -      | 1.25                | 1.8                       | 22.0                 | -              | 1043                 | -              | 1000                    | D-14      | 1190                 | -              |
| 16                        | 10      | 1.15                                 | 1.83    | 0.7                     | 0.7     | 1.0                  | -      | 1.25                | 1.8                       | 24.7                 | -              | 1360                 | -              | 1000                    | D-14      | 1510                 | -              |
| 25                        | 16      | 0.727                                | 1.15    | 0.9                     | 0.7     | 1.0                  | 0.8    | 1.6                 | 1.8                       | 26.6                 | 25.5           | 1780                 | 1690           | 500                     | D-12      | 1000                 | 955            |
| 35                        | 16      | 0.524                                | 1.15    | 0.9                     | 0.7     | 1.0                  | 0.8    | 1.6                 | 1.8                       | 30.0                 | 28.9           | 2200                 | 2100           | 500                     | D-12      | 1210                 | 1160           |
| 50                        | 25      | 0.387                                | 0.727   | 1.0                     | 0.9     | 1.0                  | 0.8    | 1.6                 | 1.9                       | 33.1                 | 32.0           | 2780                 | 2650           | 500                     | D-16      | 1600                 | 1535           |
| 70                        | 35      | 0.268                                | 0.524   | 1.1                     | 0.9     | 1.2                  | 0.8    | 2.0                 | 2.1                       | 38.1                 | 36.6           | 3910                 | 3715           | 500                     | D-18      | 2200                 | 2095           |
| 95                        | 50      | 0.193                                | 0.387   | 1.1                     | 1.0     | 1.2                  | 0.8    | 2.0                 | 2.2                       | 42.3                 | 40.8           | 4990                 | 4760           | 500                     | D-18      | 2740                 | 2620           |
| 120                       | 70      | 0.153                                | 0.268   | 1.2                     | 1.1     | 1.2                  | 0.8    | 2.0                 | 2.4                       | 45.9                 | 44.4           | 6060                 | 5835           | 500                     | D-19      | 3350                 | 3240           |
| 150                       | 70      | 0.124                                | 0.268   | 1.4                     | 1.1     | 1.4                  | 0.8    | 2.5                 | 2.5                       | 52.2                 | 49.6           | 7700                 | 7305           | 500                     | D-19      | 4170                 | 3975           |
| 185                       | 95      | 0.0991                               | 0.193   | 1.6                     | 1.1     | 1.4                  | 0.8    | 2.5                 | 2.7                       | 57.1                 | 55.2           | 9260                 | 8895           | 250                     | D-18      | 2560                 | 2465           |
| 240                       | 120     | 0.0754                               | 0.153   | 1.7                     | 1.2     | 1.6                  | 0.8    | 2.5                 | 2.9                       | 62.6                 | 60.3           | 11450                | 11000          | 250                     | D-18      | 3100                 | 2990           |
| 300                       | 150     | 0.0601                               | 0.124   | 1.8                     | 1.4     | 1.6                  | 0.8    | 2.5                 | 3.0                       | 68.2                 | 65.9           | 13880                | 13340          | 250                     | D-18      | 3710                 | 3575           |
| 300                       | 185     | 0.0601                               | 0.0991  | 1.8                     | 1.6     | 1.6                  | 0.8    | 2.5                 | 3.1                       | 68.4                 | 66.1           | 14190                | 13685          | 250                     | D-18      | 3790                 | 3660           |
| 400                       | 185     | 0.0470                               | 0.0991  | 2.0                     | 1.6     | 1.6                  | 0.8    | 3.15                | 3.3                       | 76.9                 | 74.6           | 18050                | 17410          | 250                     | D-22      | 4980                 | 4825           |
| 500                       | 240     | 0.0366                               | 0.0754  | 2.2                     | 1.7     | 1.8                  | 0.8    | 3.15                | 3.6                       | 86.4                 | 83.7           | 22300                | 21485          | 200                     | D-23      | 4960                 | 7495           |

All Phase conductors upto 16 sqmm circular stranded (Class 2).  
All Phase conductors 25 sqmm and above shaped stranded (Class 2).  
All Neutral conductors circular stranded (Class 2).  
All cables conform to IEC 60502.  
Drum size given above are for cables with extruded bedding.



- 600 / 1000 V - FOUR CORE WITH REDUCED NEUTRAL  
 ALUMINIUM CONDUCTOR  
 XLPE INSULATED STEEL WIRE ARMoured  
 PVC SHEATHED CABLES  
 (AL/XLPE/PVC/SWA/PVC and AL/XLPE/SWA/PVC)

| Nominal Area of conductor |         | Maximum Conductor Resistance at 20°C |         | Thickness of Insulation |         | Thickness of Bedding |        | Dia. of Armour Wire | Thickness of Outer Sheath | Approx. Overall Dia. |                | Approx. Cable Weight |                | Standard Packing Length | Drum Size | Approx. Gross Weight |                |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|----------------------|--------|---------------------|---------------------------|----------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
| Phase                     | Neutral | Phase                                | Neutral | Phase                   | Neutral | Extruded             | Lapped |                     |                           | Extruded Bedding     | Lapped Bedding | Extruded Bedding     | Lapped Bedding |                         |           | Extruded Bedding     | Lapped Bedding |
| Sqmm                      |         | Ohm/Km                               |         | mm                      |         | mm                   |        | mm                  | mm                        | mm                   |                | Kg/Km                |                | Metre ±10%              |           | KG                   |                |
| 35                        | 16      | 0.868                                | 1.91    | 0.9                     | 0.7     | 1.0                  | 0.8    | 1.6                 | 1.8                       | 29.7                 | 28.6           | 1480                 | 1350           | 500                     | D-12      | 850                  | 785            |
| 50                        | 25      | 0.641                                | 1.20    | 1.0                     | 0.9     | 1.0                  | 0.8    | 1.6                 | 1.9                       | 33.1                 | 32.0           | 1780                 | 1640           | 500                     | D-16      | 1100                 | 1030           |
| 70                        | 35      | 0.443                                | 0.868   | 1.1                     | 0.9     | 1.2                  | 0.8    | 2.0                 | 2.1                       | 38.0                 | 36.5           | 2480                 | 2270           | 500                     | D-18      | 1480                 | 1380           |
| 95                        | 50      | 0.320                                | 0.641   | 1.1                     | 1.0     | 1.2                  | 0.8    | 2.0                 | 2.2                       | 42.1                 | 40.6           | 2980                 | 2750           | 500                     | D-18      | 1730                 | 1620           |
| 120                       | 70      | 0.253                                | 0.443   | 1.2                     | 1.1     | 1.2                  | 0.8    | 2.0                 | 2.3                       | 45.7                 | 44.2           | 3460                 | 3220           | 500                     | D-19      | 2050                 | 1930           |
| 150                       | 70      | 0.206                                | 0.443   | 1.4                     | 1.1     | 1.4                  | 0.8    | 2.5                 | 2.5                       | 50.4                 | 48.5           | 4440                 | 4100           | 500                     | D-19      | 2540                 | 2370           |
| 185                       | 95      | 0.164                                | 0.320   | 1.6                     | 1.1     | 1.4                  | 0.8    | 2.5                 | 2.7                       | 56.4                 | 54.5           | 5270                 | 4910           | 500                     | D-21      | 3060                 | 2880           |
| 240                       | 120     | 0.125                                | 0.253   | 1.7                     | 1.2     | 1.6                  | 0.8    | 2.5                 | 2.9                       | 62.8                 | 60.5           | 6370                 | 5880           | 500                     | D-22      | 3660                 | 3410           |
| 300                       | 150     | 0.100                                | 0.206   | 1.8                     | 1.4     | 1.6                  | 0.8    | 2.5                 | 3.0                       | 68.2                 | 65.9           | 7450                 | 6920           | 300                     | D-20      | 2660                 | 2430           |
| 300*                      | 185     | 0.100                                | 0.164   | 1.8                     | 1.6     | -                    | 0.8    | 2.5                 | 2.7                       | -                    | 65.7           | -                    | 6970           | 300                     | D-19      | -                    | 2410           |
| 300                       | 185     | 0.100                                | 0.164   | 1.8                     | 1.6     | 1.6                  | 0.8    | 2.5                 | 3.1                       | 68.4                 | 66.1           | 7560                 | 7030           | 250                     | D-18      | 2130                 | 2000           |
| 400                       | 185     | 0.0778                               | 0.164   | 2.0                     | 1.6     | 1.6                  | 0.8    | 3.15                | 3.3                       | 76.9                 | 74.6           | 9750                 | 9110           | 250                     | D-19      | 2760                 | 2600           |

All Phase conductors shaped stranded (Class 2).

All Neutral conductors circular stranded (Class 2).

Cables conform to IEC 60502-1, \*Cable as per MEW, Kuwait Specification.

Drum size given above are for cables with extruded bedding.



■ 600 / 1000 V-MULTICORE CABLES  
FOR STREET LIGHTING

COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES

(CU / XLPE / PVC)

| Cable Details | Nominal Area of conductor |                 | Max. Conductor Resistance at 20°C |                 | Thickness of Insulation |                 | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------|---------------------------|-----------------|-----------------------------------|-----------------|-------------------------|-----------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
|               | Phase                     | Neutral & Earth | Phase                             | Neutral & Earth | Phase                   | Neutral & Earth |                           |                          |                      |                         |           |                      |
|               | Sqmm                      |                 | Ohm/Km                            |                 | mm                      |                 | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2x16+1x10     | 16                        | 10              | 1.15                              | 1.83            | 0.7                     | 0.7             | 1.8                       | 18.9                     | 660                  | 1000                    | D-12      | 770                  |
| 3x25+2x16     | 25                        | 16              | 0.727                             | 1.15            | 0.9                     | 0.7             | 1.8                       | 27.2                     | 1510                 | 1000                    | D-16      | 1720                 |
| 3x35+2x16     | 35                        | 16              | 0.524                             | 1.15            | 0.9                     | 0.7             | 1.8                       | 30.2                     | 1850                 | 500                     | D-14      | 1080                 |

| Cable Details | Nominal Area of conductor | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|---------------|---------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
|               | Sqmm                      | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 5X1.5*        | 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 13.0                     | 225                  | 1000                    | D-10      | 285                  |
| 5X1.5         | 1.5                       | 12.1                                 | 0.7                     | 1.8                       | 13.5                     | 235                  | 1000                    | D-10      | 295                  |
| 5X2.5*        | 2.5                       | 7.41                                 | 0.7                     | 1.8                       | 14.1                     | 280                  | 1000                    | D-10      | 340                  |
| 5X2.5         | 2.5                       | 7.41                                 | 0.7                     | 1.8                       | 14.6                     | 295                  | 1000                    | D-10      | 355                  |
| 5X4           | 4                         | 4.61                                 | 0.7                     | 1.8                       | 15.9                     | 390                  | 1000                    | D-11      | 490                  |
| 5X6           | 6                         | 3.08                                 | 0.7                     | 1.8                       | 17.6                     | 505                  | 1000                    | D-12      | 615                  |
| 5X10          | 10                        | 1.83                                 | 0.7                     | 1.8                       | 19.5                     | 740                  | 1000                    | D-12      | 850                  |
| 5X16          | 16                        | 1.15                                 | 0.7                     | 1.8                       | 22.4                     | 1060                 | 500                     | D-11      | 630                  |
| 5X25          | 25                        | 0.727                                | 0.9                     | 1.8                       | 27.2                     | 1650                 | 500                     | D-12      | 925                  |
| 5X35          | 35                        | 0.524                                | 0.9                     | 1.8                       | 30.2                     | 2170                 | 500                     | D-14      | 1235                 |

\* Circular solid conductors (Class 1).  
All other conductors circular stranded (Class 2).  
Cables conform to IEC 60502-1.



We Build Cables For Life

# LOW VOLTAGE CABLES



- 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC) SIZE: 1.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 12.1                                 | 0.6                     | 1.8                       | 10.6                     | 150                  | 1000                    | D-8       | 200                  |
| 3               | 12.1                                 | 0.6                     | 1.8                       | 11.0                     | 170                  | 1000                    | D-8       | 220                  |
| 4               | 12.1                                 | 0.6                     | 1.8                       | 11.7                     | 195                  | 1000                    | D-9       | 255                  |
| 5               | 12.1                                 | 0.6                     | 1.8                       | 12.7                     | 235                  | 1000                    | D-9       | 295                  |
| 7               | 12.1                                 | 0.6                     | 1.8                       | 13.6                     | 280                  | 1000                    | D-10      | 340                  |
| 8               | 12.1                                 | 0.6                     | 1.8                       | 14.5                     | 320                  | 1000                    | D-10      | 380                  |
| 12              | 12.1                                 | 0.6                     | 1.8                       | 17.1                     | 430                  | 1000                    | D-12      | 540                  |
| 19              | 12.1                                 | 0.6                     | 1.8                       | 19.6                     | 600                  | 500                     | D-10      | 360                  |
| 27              | 12.1                                 | 0.6                     | 1.8                       | 23.1                     | 810                  | 500                     | D-11      | 505                  |
| 37              | 12.1                                 | 0.6                     | 1.8                       | 25.6                     | 1040                 | 500                     | D-12      | 630                  |
| 48              | 12.1                                 | 0.6                     | 1.9                       | 29.3                     | 1320                 | 500                     | D-12      | 770                  |
| 61              | 12.1                                 | 0.6                     | 2.0                       | 32.0                     | 1630                 | 500                     | D-14      | 965                  |
| 91              | 12.1                                 | 0.6                     | 2.2                       | 38.4                     | 2360                 | 500                     | D-18      | 1420                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound. Cables conform generally to BS 6346 & IEC 60502-1.

All conductors circular stranded, cables with solid or flexible conductor available on request.

Core identification by number printing on white cores.





- 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC) SIZE: 1.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 12.1                                 | 0.8                     | 1.8                       | 11.4                     | 170                  | 1000                    | D-8       | 220                  |
| 3               | 12.1                                 | 0.8                     | 1.8                       | 11.9                     | 190                  | 1000                    | D-8       | 240                  |
| 4               | 12.1                                 | 0.8                     | 1.8                       | 12.8                     | 225                  | 1000                    | D-9       | 285                  |
| 5               | 12.1                                 | 0.8                     | 1.8                       | 13.8                     | 265                  | 1000                    | D-9       | 325                  |
| 7               | 12.1                                 | 0.8                     | 1.8                       | 15.1                     | 320                  | 1000                    | D-10      | 380                  |
| 8               | 12.1                                 | 0.8                     | 1.8                       | 16.1                     | 370                  | 1000                    | D-11      | 470                  |
| 12              | 12.1                                 | 0.8                     | 1.8                       | 19.0                     | 490                  | 1000                    | D-12      | 600                  |
| 19              | 12.1                                 | 0.8                     | 1.8                       | 21.9                     | 690                  | 500                     | D-10      | 405                  |
| 27              | 12.1                                 | 0.8                     | 1.8                       | 25.8                     | 930                  | 500                     | D-12      | 575                  |
| 37              | 12.1                                 | 0.8                     | 1.8                       | 28.7                     | 1190                 | 500                     | D-12      | 705                  |
| 48              | 12.1                                 | 0.8                     | 1.9                       | 32.8                     | 1515                 | 500                     | D-14      | 910                  |
| 61              | 12.1                                 | 0.8                     | 2.0                       | 35.9                     | 1870                 | 500                     | D-16      | 1145                 |
| 91              | 12.1                                 | 0.8                     | 2.2                       | 43.1                     | 2695                 | 500                     | D-18      | 1585                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound. Cables conform to IEC 60502-1.

All conductors circular stranded, cables with solid or flexible conductor available on request.

Core identification by number printing on white cores.



## 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / PVC / PVC / SWA / PVC) SIZE: 1.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia.of Armour Wire | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|--------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                            | mm                 | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2**             | 12.1                                 | 0.6                     | 0.8                           | 0.9                | 1.4                       | 12.8                     | 310                  | 1000                    | D-9       | 370                  |
| 3**             | 12.1                                 | 0.6                     | 0.8                           | 0.9                | 1.4                       | 13.3                     | 340                  | 1000                    | D-10      | 400                  |
| 4**             | 12.1                                 | 0.6                     | 0.8                           | 0.9                | 1.4                       | 14.1                     | 385                  | 1000                    | D-10      | 445                  |
| 5**             | 12.1                                 | 0.6                     | 0.8                           | 0.9                | 1.4                       | 14.9                     | 430                  | 1000                    | D-10      | 490                  |
| 7               | 12.1                                 | 0.6                     | 0.8                           | 0.9                | 1.4                       | 15.8                     | 490                  | 1000                    | D-11      | 590                  |
| 8**             | 12.1                                 | 0.6                     | 0.8                           | 0.9                | 1.5                       | 16.9                     | 560                  | 1000                    | D-11      | 660                  |
| 12              | 12.1                                 | 0.6                     | 0.8                           | 1.25               | 1.5                       | 20.2                     | 710                  | 500                     | D-10      | 465                  |
| 19              | 12.1                                 | 0.6                     | 0.8                           | 1.25               | 1.6                       | 22.9                     | 1050                 | 500                     | D-11      | 625                  |
| 27              | 12.1                                 | 0.6                     | 1.0                           | 1.6                | 1.7                       | 27.7                     | 1530                 | 500                     | D-12      | 875                  |
| 37              | 12.1                                 | 0.6                     | 1.0                           | 1.6                | 1.8                       | 30.4                     | 1860                 | 500                     | D-14      | 1080                 |
| 48              | 12.1                                 | 0.6                     | 1.0                           | 1.6                | 1.9                       | 34.1                     | 2260                 | 500                     | D-16      | 1340                 |
| 61**            | 12.1                                 | 0.6                     | 1.2                           | 2.0                | 2.0                       | 38.0                     | 2940                 | 500                     | D-18      | 1710                 |
| 91**            | 12.1                                 | 0.6                     | 1.2                           | 2.0                | 2.2                       | 44.4                     | 3890                 | 500                     | D-18      | 2185                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

\*\*Cables conform generally to BS 6346 & IEC 60502-1.

All others cables conform to BS 6346.

All conductors circular stranded, cables with solid or flexible conductor available on request.

Core identification by number printing on white cores.



▣ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / PVC / PVC / SWA / PVC) SIZE: 1.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia.of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|--------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                            | mm                 | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2               | 12.1                                 | 0.8                     | 1.0                           | 0.9                | 1.8                       | 14.8                     | 380                  | 1000                    | D-10      | 440                  |
| 3               | 12.1                                 | 0.8                     | 1.0                           | 0.9                | 1.8                       | 15.3                     | 420                  | 1000                    | D-10      | 480                  |
| 4               | 12.1                                 | 0.8                     | 1.0                           | 0.9                | 1.8                       | 16.2                     | 470                  | 1000                    | D-11      | 570                  |
| 5               | 12.1                                 | 0.8                     | 1.0                           | 0.9                | 1.8                       | 17.2                     | 530                  | 1000                    | D-11      | 630                  |
| 7               | 12.1                                 | 0.8                     | 1.0                           | 0.9                | 1.8                       | 18.5                     | 620                  | 1000                    | D-12      | 730                  |
| 8               | 12.1                                 | 0.8                     | 1.0                           | 1.25               | 1.8                       | 20.2                     | 790                  | 1000                    | D-12      | 900                  |
| 12              | 12.1                                 | 0.8                     | 1.0                           | 1.25               | 1.8                       | 23.1                     | 980                  | 500                     | D-11      | 590                  |
| 19              | 12.1                                 | 0.8                     | 1.0                           | 1.6                | 1.8                       | 26.7                     | 1400                 | 500                     | D-12      | 810                  |
| 27              | 12.1                                 | 0.8                     | 1.0                           | 1.6                | 1.8                       | 30.6                     | 1760                 | 500                     | D-14      | 1030                 |
| 37              | 12.1                                 | 0.8                     | 1.0                           | 1.6                | 1.9                       | 33.7                     | 2130                 | 500                     | D-14      | 1215                 |
| 48              | 12.1                                 | 0.8                     | 1.0                           | 2.0                | 2.0                       | 38.6                     | 2820                 | 500                     | D-18      | 1650                 |
| 61              | 12.1                                 | 0.8                     | 1.2                           | 2.0                | 2.1                       | 42.1                     | 3450                 | 500                     | D-18      | 1965                 |
| 91              | 12.1                                 | 0.8                     | 1.2                           | 2.0                | 2.3                       | 49.3                     | 4430                 | 500                     | D-19      | 2535                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

All cables conform to IEC 60502-1.

All conductors circular stranded, cables with solid or flexible conductor available on request.

Core identification by number printing on white cores.



- 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC) SIZE: 2.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 7.41                                 | 0.7                     | 1.8                       | 11.8                     | 190                  | 1000                    | D-9       | 250                  |
| 3               | 7.41                                 | 0.7                     | 1.8                       | 12.3                     | 225                  | 1000                    | D-9       | 285                  |
| 4               | 7.41                                 | 0.7                     | 1.8                       | 13.3                     | 265                  | 1000                    | D-10      | 325                  |
| 5               | 7.41                                 | 0.7                     | 1.8                       | 14.3                     | 315                  | 1000                    | D-10      | 375                  |
| 7               | 7.41                                 | 0.7                     | 1.8                       | 15.4                     | 380                  | 500                     | D-8       | 240                  |
| 8               | 7.41                                 | 0.7                     | 1.8                       | 16.5                     | 445                  | 500                     | D-9       | 285                  |
| 12              | 7.41                                 | 0.7                     | 1.8                       | 19.6                     | 595                  | 500                     | D-10      | 360                  |
| 19              | 7.41                                 | 0.7                     | 1.8                       | 22.6                     | 845                  | 500                     | D-11      | 525                  |
| 27              | 7.41                                 | 0.7                     | 1.8                       | 26.8                     | 1150                 | 500                     | D-12      | 685                  |
| 37              | 7.41                                 | 0.7                     | 1.9                       | 30.0                     | 1510                 | 500                     | D-12      | 865                  |
| 48              | 7.41                                 | 0.7                     | 2.0                       | 34.4                     | 1920                 | 500                     | D-16      | 1170                 |
| 61              | 7.41                                 | 0.7                     | 2.1                       | 37.6                     | 2380                 | 500                     | D-18      | 1430                 |
| 91              | 7.41                                 | 0.7                     | 2.3                       | 45.2                     | 3460                 | 500                     | D-19      | 2050                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound. Cables generally conform to BS 6346 & IEC 60502-1. All conductors circular stranded, cables with solid or flexible conductor available on request. Core identification by number printing on white cores.



- ▣ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC) SIZE: 2.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 7.41                                 | 0.8                     | 1.8                       | 12.2                     | 200                  | 1000                    | D-9       | 260                  |
| 3               | 7.41                                 | 0.8                     | 1.8                       | 12.8                     | 235                  | 1000                    | D-9       | 295                  |
| 4               | 7.41                                 | 0.8                     | 1.8                       | 13.8                     | 280                  | 1000                    | D-10      | 340                  |
| 5               | 7.41                                 | 0.8                     | 1.8                       | 14.9                     | 330                  | 1000                    | D-10      | 390                  |
| 7               | 7.41                                 | 0.8                     | 1.8                       | 16.3                     | 410                  | 500                     | D-9       | 265                  |
| 8               | 7.41                                 | 0.8                     | 1.8                       | 17.4                     | 465                  | 500                     | D-9       | 295                  |
| 12              | 7.41                                 | 0.8                     | 1.8                       | 20.7                     | 630                  | 500                     | D-10      | 375                  |
| 19              | 7.41                                 | 0.8                     | 1.8                       | 23.9                     | 900                  | 500                     | D-11      | 550                  |
| 27              | 7.41                                 | 0.8                     | 1.8                       | 28.3                     | 1220                 | 500                     | D-12      | 720                  |
| 37              | 7.41                                 | 0.8                     | 1.9                       | 31.7                     | 1600                 | 500                     | D-14      | 950                  |
| 48              | 7.41                                 | 0.8                     | 2.0                       | 36.3                     | 2035                 | 500                     | D-16      | 1230                 |
| 61              | 7.41                                 | 0.8                     | 2.1                       | 39.7                     | 2520                 | 500                     | D-18      | 1500                 |
| 91              | 7.41                                 | 0.8                     | 2.3                       | 47.7                     | 3650                 | 500                     | D-19      | 2145                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound. Cables Conform to IEC 60502-1.

All conductors circular stranded, cables with solid or flexible conductor available on request.

Core identification by number printing on white cores.



We Build Cables For Life

# LOW VOLTAGE CABLES



## 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / PVC / PVC / SWA / PVC) SIZE: 2.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia.of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|--------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                            | mm                 | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2**             | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 14.0                     | 370                  | 1000                    | D-10      | 430                  |
| 3**             | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 14.6                     | 415                  | 1000                    | D-10      | 475                  |
| 4**             | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 15.5                     | 470                  | 1000                    | D-11      | 570                  |
| 5**             | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.5                       | 16.7                     | 545                  | 1000                    | D-11      | 645                  |
| 7               | 7.41                                 | 0.7                     | 0.8                           | 1.25               | 1.5                       | 18.5                     | 720                  | 1000                    | D-12      | 830                  |
| 8**             | 7.41                                 | 0.7                     | 0.8                           | 1.25               | 1.5                       | 19.6                     | 815                  | 1000                    | D-12      | 925                  |
| 12              | 7.41                                 | 0.7                     | 0.8                           | 1.25               | 1.6                       | 22.9                     | 1050                 | 500                     | D-11      | 625                  |
| 19              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.7                       | 27.2                     | 1550                 | 500                     | D-12      | 885                  |
| 27              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.8                       | 31.6                     | 2010                 | 500                     | D-14      | 1160                 |
| 37              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.9                       | 34.8                     | 2460                 | 500                     | D-16      | 1440                 |
| 48              | 7.41                                 | 0.7                     | 1.2                           | 2.0                | 2.1                       | 40.6                     | 3330                 | 500                     | D-18      | 1910                 |
| 61**            | 7.41                                 | 0.7                     | 1.2                           | 2.0                | 2.2                       | 43.8                     | 3910                 | 500                     | D-18      | 2200                 |
| 91**            | 7.41                                 | 0.7                     | 1.4                           | 2.5                | 2.5                       | 53.0                     | 5790                 | 500                     | D-19      | 3220                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

\*\*Cables conform generally to BS 6346 and IEC 60502-1.

All other cables conform to BS 6346.

All conductors circular stranded, cables with solid or flexible conductor available on request.

Core identification by number printing on white cores.





■ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / PVC / PVC / SWA / PVC) SIZE: 2.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2               | 7.41                                 | 0.8                     | 1.0                           | 0.9                 | 1.8                       | 15.6                     | 440                  | 1000                    | D-10      | 500                  |
| 3               | 7.41                                 | 0.8                     | 1.0                           | 0.9                 | 1.8                       | 16.2                     | 485                  | 1000                    | D-11      | 585                  |
| 4               | 7.41                                 | 0.8                     | 1.0                           | 0.9                 | 1.8                       | 17.2                     | 550                  | 1000                    | D-11      | 650                  |
| 5               | 7.41                                 | 0.8                     | 1.0                           | 0.9                 | 1.8                       | 18.3                     | 620                  | 1000                    | D-12      | 730                  |
| 7               | 7.41                                 | 0.8                     | 1.0                           | 1.25                | 1.8                       | 20.4                     | 830                  | 1000                    | D-12      | 940                  |
| 8               | 7.41                                 | 0.8                     | 1.0                           | 1.25                | 1.8                       | 21.5                     | 920                  | 1000                    | D-14      | 1070                 |
| 12              | 7.41                                 | 0.8                     | 1.0                           | 1.25                | 1.8                       | 24.8                     | 1160                 | 500                     | D-11      | 680                  |
| 19              | 7.41                                 | 0.8                     | 1.0                           | 1.6                 | 1.8                       | 28.7                     | 1670                 | 500                     | D-12      | 945                  |
| 27              | 7.41                                 | 0.8                     | 1.0                           | 1.6                 | 1.9                       | 33.3                     | 2140                 | 500                     | D-14      | 1220                 |
| 37              | 7.41                                 | 0.8                     | 1.0                           | 1.6                 | 2.0                       | 36.7                     | 2630                 | 500                     | D-16      | 1525                 |
| 48              | 7.41                                 | 0.8                     | 1.2                           | 2.0                 | 2.1                       | 42.5                     | 3515                 | 500                     | D-18      | 2000                 |
| 61              | 7.41                                 | 0.8                     | 1.2                           | 2.0                 | 2.2                       | 45.9                     | 4140                 | 500                     | D-18      | 2310                 |
| 91              | 7.41                                 | 0.8                     | 1.4                           | 2.5                 | 2.5                       | 55.5                     | 6090                 | 500                     | D-21      | 3465                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

All cables conform to IEC 60502-1.

All conductors circular stranded, cables with solid or flexible conductor available on request.

Core identification by number printing on white cores.



- 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC) SIZE: 4 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 4.61                                 | 0.8                     | 1.8                       | 13.2                     | 255                  | 1000                    | D-10      | 315                  |
| 3               | 4.61                                 | 0.8                     | 1.8                       | 13.9                     | 300                  | 1000                    | D-10      | 360                  |
| 4               | 4.61                                 | 0.8                     | 1.8                       | 15.0                     | 360                  | 1000                    | D-10      | 420                  |
| 5               | 4.61                                 | 0.8                     | 1.8                       | 16.2                     | 435                  | 500                     | D-9       | 280                  |
| 7               | 4.61                                 | 0.8                     | 1.8                       | 17.5                     | 535                  | 500                     | D-9       | 330                  |
| 8               | 4.61                                 | 0.8                     | 1.8                       | 18.8                     | 625                  | 500                     | D-10      | 375                  |
| 12              | 4.61                                 | 0.8                     | 1.8                       | 22.5                     | 845                  | 500                     | D-11      | 520                  |
| 19              | 4.61                                 | 0.8                     | 1.8                       | 26.1                     | 1220                 | 500                     | D-12      | 720                  |
| 27              | 4.61                                 | 0.8                     | 2.0                       | 31.5                     | 1710                 | 500                     | D-14      | 1010                 |
| 37              | 4.61                                 | 0.8                     | 2.1                       | 35.3                     | 2250                 | 500                     | D-18      | 1370                 |
| 48              | 4.61                                 | 0.8                     | 2.3                       | 40.7                     | 2890                 | 500                     | D-18      | 1690                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound. All conductors circular stranded.

Cables generally conform to BS 6346 and IEC 60502 -1.

Core identification by number printing on white cores.



- ▣ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR PVC INSULATED  
PVC SHEATHED CABLES  
(CU / PVC / PVC) SIZE: 4 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 4.61                                 | 1.0                     | 1.8                       | 14.0                     | 280                  | 1000                    | D-10      | 340                  |
| 3               | 4.61                                 | 1.0                     | 1.8                       | 14.8                     | 330                  | 1000                    | D-10      | 390                  |
| 4               | 4.61                                 | 1.0                     | 1.8                       | 16.0                     | 390                  | 1000                    | D-11      | 490                  |
| 5               | 4.61                                 | 1.0                     | 1.8                       | 17.3                     | 470                  | 500                     | D-9       | 295                  |
| 7               | 4.61                                 | 1.0                     | 1.8                       | 19.0                     | 590                  | 500                     | D-10      | 355                  |
| 8               | 4.61                                 | 1.0                     | 1.8                       | 20.4                     | 670                  | 500                     | D-10      | 395                  |
| 12              | 4.61                                 | 1.0                     | 1.8                       | 24.5                     | 930                  | 500                     | D-11      | 565                  |
| 19              | 4.61                                 | 1.0                     | 1.8                       | 28.4                     | 1340                 | 500                     | D-12      | 780                  |
| 27              | 4.61                                 | 1.0                     | 2.0                       | 34.3                     | 1870                 | 500                     | D-16      | 1145                 |
| 37              | 4.61                                 | 1.0                     | 2.1                       | 38.4                     | 2450                 | 500                     | D-18      | 1465                 |
| 48              | 4.61                                 | 1.0                     | 2.3                       | 44.3                     | 3155                 | 500                     | D-18      | 1815                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.  
All conductors circular stranded.  
Cables conform to IEC 60502-1.  
Core identification by number printing on white cores.



We Build Cables For Life

# LOW VOLTAGE CABLES



## 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / PVC / PVC / SWA / PVC) SIZE: 4 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2**             | 4.61                                 | 0.8                     | 0.8                           | 0.9                 | 1.4                       | 15.4                     | 460                  | 1000                    | D-11      | 560                  |
| 3**             | 4.61                                 | 0.8                     | 0.8                           | 0.9                 | 1.4                       | 16.1                     | 515                  | 1000                    | D-11      | 615                  |
| 4**             | 4.61                                 | 0.8                     | 0.8                           | 1.25                | 1.5                       | 18.1                     | 700                  | 1000                    | D-12      | 810                  |
| 5**             | 4.61                                 | 0.8                     | 0.8                           | 1.25                | 1.5                       | 19.3                     | 790                  | 500                     | D-10      | 455                  |
| 7               | 4.61                                 | 0.8                     | 0.8                           | 1.25                | 1.6                       | 20.8                     | 935                  | 500                     | D-10      | 530                  |
| 8**             | 4.61                                 | 0.8                     | 0.8                           | 1.25                | 1.6                       | 22.1                     | 1060                 | 500                     | D-11      | 630                  |
| 12              | 4.61                                 | 0.8                     | 1.0                           | 1.6                 | 1.7                       | 27.1                     | 1550                 | 500                     | D-12      | 885                  |
| 19              | 4.61                                 | 0.8                     | 1.0                           | 1.6                 | 1.8                       | 30.9                     | 2060                 | 500                     | D-14      | 1180                 |
| 27              | 4.61                                 | 0.8                     | 1.2                           | 2.0                 | 2.0                       | 37.5                     | 2990                 | 500                     | D-18      | 1740                 |
| 37              | 4.61                                 | 0.8                     | 1.2                           | 2.0                 | 2.1                       | 41.3                     | 3670                 | 500                     | D-18      | 2080                 |
| 48              | 4.61                                 | 0.8                     | 1.2                           | 2.0                 | 2.2                       | 46.5                     | 4490                 | 500                     | D-19      | 2570                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.  
All conductors circular stranded.

\*\*Cables generally conform to BS 6346.

All other cables conform to BS 6346.

Core identification by number printing on white cores.



■ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
PVC INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / PVC / PVC / SWA / PVC) SIZE: 4 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2               | 4.61                                 | 1.0                     | 1.0                           | 0.9                 | 1.8                       | 17.4                     | 550                  | 1000                    | D-11      | 650                  |
| 3               | 4.61                                 | 1.0                     | 1.0                           | 1.25                | 1.8                       | 18.9                     | 710                  | 1000                    | D-12      | 820                  |
| 4               | 4.61                                 | 1.0                     | 1.0                           | 1.25                | 1.8                       | 20.1                     | 810                  | 1000                    | D-12      | 920                  |
| 5               | 4.61                                 | 1.0                     | 1.0                           | 1.25                | 1.8                       | 21.4                     | 920                  | 500                     | D-10      | 520                  |
| 7               | 4.61                                 | 1.0                     | 1.0                           | 1.25                | 1.8                       | 23.1                     | 1075                 | 500                     | D-10      | 640                  |
| 8               | 4.61                                 | 1.0                     | 1.0                           | 1.6                 | 1.8                       | 25.2                     | 1340                 | 500                     | D-12      | 780                  |
| 12              | 4.61                                 | 1.0                     | 1.0                           | 1.6                 | 1.8                       | 29.3                     | 1720                 | 500                     | D-14      | 1010                 |
| 19              | 4.61                                 | 1.0                     | 1.0                           | 1.6                 | 1.9                       | 33.4                     | 2270                 | 500                     | D-14      | 1285                 |
| 27              | 4.61                                 | 1.0                     | 1.2                           | 2.0                 | 2.1                       | 40.5                     | 3290                 | 500                     | D-18      | 1885                 |
| 37              | 4.61                                 | 1.0                     | 1.2                           | 2.0                 | 2.2                       | 44.6                     | 4010                 | 500                     | D-18      | 2245                 |
| 48              | 4.61                                 | 1.0                     | 1.2                           | 2.5                 | 2.4                       | 51.5                     | 5355                 | 500                     | D-21      | 3095                 |

All the cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9 / ST2 compound OR PVC Type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.  
All conductors circular stranded.

All Cables conform to IEC 60502-1.

Core identification by number printing on white cores.



- 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES  
(CU / XLPE / PVC) SIZE: 1.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 12.1                                 | 0.7                     | 1.8                       | 11.2                     | 160                  | 1000                    | D-9       | 220                  |
| 3               | 12.1                                 | 0.7                     | 1.8                       | 11.6                     | 175                  | 1000                    | D-9       | 235                  |
| 4               | 12.1                                 | 0.7                     | 1.8                       | 12.5                     | 205                  | 1000                    | D-9       | 265                  |
| 5               | 12.1                                 | 0.7                     | 1.8                       | 13.5                     | 240                  | 1000                    | D-10      | 300                  |
| 7               | 12.1                                 | 0.7                     | 1.8                       | 14.5                     | 285                  | 1000                    | D-10      | 345                  |
| 8               | 12.1                                 | 0.7                     | 1.8                       | 15.5                     | 325                  | 1000                    | D-11      | 425                  |
| 12              | 12.1                                 | 0.7                     | 1.8                       | 18.3                     | 430                  | 500                     | D-10      | 275                  |
| 19              | 12.1                                 | 0.7                     | 1.8                       | 21.1                     | 595                  | 500                     | D-10      | 360                  |
| 27              | 12.1                                 | 0.7                     | 1.8                       | 24.9                     | 800                  | 500                     | D-12      | 510                  |
| 37              | 12.1                                 | 0.7                     | 1.8                       | 27.7                     | 1020                 | 500                     | D-12      | 620                  |
| 48              | 12.1                                 | 0.7                     | 1.8                       | 31.5                     | 1280                 | 500                     | D-14      | 790                  |
| 61              | 12.1                                 | 0.7                     | 1.9                       | 34.5                     | 1580                 | 500                     | D-16      | 1000                 |
| 91              | 12.1                                 | 0.7                     | 2.1                       | 41.5                     | 2280                 | 500                     | D-18      | 1380                 |

Cables conform to IEC 60502-1 & Generally to BS 5467.

All conductors circular stranded, cables with solid conductor available on request.

Core identification by number printing on white cores.





■ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / XLPE / PVC / SWA / PVC) SIZE: 1.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia.of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|--------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No              | Ohm/Km                               | mm                      | mm                            | mm                 | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2*              | 12.1                                 | 0.7                     | 0.8                           | 0.9                | 1.3                       | 13.2                     | 325                  | 1000                    | D-10      | 385                  |
| 3*              | 12.1                                 | 0.7                     | 0.8                           | 0.9                | 1.3                       | 13.7                     | 350                  | 1000                    | D-10      | 410                  |
| 4*              | 12.1                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 14.8                     | 400                  | 1000                    | D-10      | 460                  |
| 5*              | 12.1                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 15.7                     | 450                  | 1000                    | D-11      | 550                  |
| 7               | 12.1                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 16.7                     | 510                  | 1000                    | D-11      | 610                  |
| 8*              | 12.1                                 | 0.7                     | 0.8                           | 1.25               | 1.5                       | 18.6                     | 675                  | 1000                    | D-12      | 785                  |
| 12              | 12.1                                 | 0.7                     | 0.8                           | 1.25               | 1.5                       | 21.4                     | 845                  | 500                     | D-10      | 485                  |
| 19              | 12.1                                 | 0.7                     | 0.8                           | 1.25               | 1.6                       | 24.4                     | 1080                 | 500                     | D-12      | 650                  |
| 27              | 12.1                                 | 0.7                     | 1.0                           | 1.6                | 1.7                       | 29.5                     | 1590                 | 500                     | D-12      | 905                  |
| 37              | 12.1                                 | 0.7                     | 1.0                           | 1.6                | 1.8                       | 32.5                     | 1900                 | 500                     | D-16      | 1160                 |
| 48*             | 12.1                                 | 0.7                     | 1.0                           | 1.6                | 1.9                       | 36.5                     | 2300                 | 500                     | D-18      | 1390                 |
| 61*             | 12.1                                 | 0.7                     | 1.2                           | 2.0                | 2.1                       | 40.9                     | 3010                 | 500                     | D-18      | 1750                 |
| 91*             | 12.1                                 | 0.7                     | 1.2                           | 2.0                | 2.2                       | 47.7                     | 3970                 | 500                     | D-19      | 2310                 |

\*Cables conform generally to BS 5467 and IEC 60502-1.

All other cables conform to BS 5467.

All conductors circular stranded, cables with solid conductor available on request.

Core identification by number printing on white cores.



## 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / XLPE / PVC / SWA / PVC) SIZE: 1.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No              | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2               | 12.1                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 14.6                     | 375                  | 1000                    | D-10      | 435                  |
| 3               | 12.1                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 15.1                     | 400                  | 1000                    | D-10      | 460                  |
| 4               | 12.1                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 16.0                     | 450                  | 1000                    | D-10      | 550                  |
| 5               | 12.1                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 16.9                     | 500                  | 1000                    | D-11      | 600                  |
| 7               | 12.1                                 | 0.7                     | 1.0                           | 0.9                 | 1.8                       | 18.2                     | 575                  | 1000                    | D-12      | 685                  |
| 8               | 12.1                                 | 0.7                     | 1.0                           | 1.25                | 1.8                       | 19.9                     | 730                  | 1000                    | D-12      | 840                  |
| 12              | 12.1                                 | 0.7                     | 1.0                           | 1.25                | 1.8                       | 22.7                     | 910                  | 500                     | D-11      | 555                  |
| 19              | 12.1                                 | 0.7                     | 1.0                           | 1.25                | 1.8                       | 25.5                     | 1150                 | 500                     | D-12      | 685                  |
| 27              | 12.1                                 | 0.7                     | 1.0                           | 1.6                 | 1.8                       | 30.0                     | 1610                 | 500                     | D-12      | 915                  |
| 37              | 12.1                                 | 0.7                     | 1.0                           | 1.6                 | 1.8                       | 32.5                     | 1900                 | 500                     | D-16      | 1160                 |
| 48              | 12.1                                 | 0.7                     | 1.0                           | 1.6                 | 1.9                       | 36.8                     | 2330                 | 500                     | D-16      | 1375                 |
| 61              | 12.1                                 | 0.7                     | 1.2                           | 2.0                 | 2.1                       | 41.2                     | 3045                 | 500                     | D-18      | 1760                 |
| 91              | 12.1                                 | 0.7                     | 1.2                           | 2.0                 | 2.2                       | 48.0                     | 3975                 | 500                     | D-19      | 2310                 |

All cables conform to IEC 60502-1.

All conductors circular stranded, cables with solid conductor available on request.

Core identification by number printing on white cores.



- ▣ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES  
(CU / XLPE / PVC) SIZE: 2.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 7.41                                 | 0.7                     | 1.8                       | 12.0                     | 190                  | 1000                    | D-9       | 250                  |
| 3               | 7.41                                 | 0.7                     | 1.8                       | 12.5                     | 220                  | 1000                    | D-9       | 280                  |
| 4               | 7.41                                 | 0.7                     | 1.8                       | 13.5                     | 255                  | 1000                    | D-10      | 315                  |
| 5               | 7.41                                 | 0.7                     | 1.8                       | 14.6                     | 305                  | 1000                    | D-10      | 365                  |
| 7               | 7.41                                 | 0.7                     | 1.8                       | 15.7                     | 365                  | 500                     | D-8       | 235                  |
| 8               | 7.41                                 | 0.7                     | 1.8                       | 16.8                     | 420                  | 500                     | D-9       | 270                  |
| 12              | 7.41                                 | 0.7                     | 1.8                       | 20.0                     | 565                  | 500                     | D-10      | 345                  |
| 19              | 7.41                                 | 0.7                     | 1.8                       | 23.1                     | 795                  | 500                     | D-11      | 500                  |
| 27              | 7.41                                 | 0.7                     | 1.8                       | 27.4                     | 1080                 | 500                     | D-12      | 650                  |
| 37              | 7.41                                 | 0.7                     | 1.8                       | 30.5                     | 1390                 | 500                     | D-14      | 845                  |
| 48              | 7.41                                 | 0.7                     | 1.9                       | 35.0                     | 1770                 | 500                     | D-16      | 1100                 |
| 61              | 7.41                                 | 0.7                     | 2.0                       | 38.3                     | 2190                 | 500                     | D-18      | 1340                 |
| 91              | 7.41                                 | 0.7                     | 2.3                       | 46.3                     | 3190                 | 500                     | D-19      | 1920                 |

All cables conform to IEC 60502-1 & Generally to BS 5467.  
All conductors circular stranded, cables with solid conductor available on request.  
Core identification by number printing on white cores.



## 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / XLPE / PVC / SWA / PVC) SIZE: 2.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia.of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|--------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No              | Ohm/Km                               | mm                      | mm                            | mm                 | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2*              | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 14.2                     | 375                  | 1000                    | D-10      | 435                  |
| 3*              | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 14.8                     | 415                  | 1000                    | D-10      | 475                  |
| 4*              | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 15.8                     | 465                  | 1000                    | D-11      | 565                  |
| 5*              | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 16.8                     | 530                  | 1000                    | D-11      | 630                  |
| 7               | 7.41                                 | 0.7                     | 0.8                           | 0.9                | 1.4                       | 17.9                     | 615                  | 1000                    | D-12      | 725                  |
| 8*              | 7.41                                 | 0.7                     | 0.8                           | 1.25               | 1.6                       | 20.1                     | 810                  | 1000                    | D-12      | 920                  |
| 12              | 7.41                                 | 0.7                     | 0.8                           | 1.25               | 1.6                       | 23.3                     | 1030                 | 500                     | D-11      | 615                  |
| 19              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.7                       | 27.7                     | 1520                 | 500                     | D-12      | 870                  |
| 27              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.8                       | 32.2                     | 1950                 | 500                     | D-16      | 1190                 |
| 37              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.8                       | 35.3                     | 2360                 | 500                     | D-18      | 1420                 |
| 48*             | 7.41                                 | 0.7                     | 1.2                           | 2.0                | 2.1                       | 41.4                     | 3230                 | 500                     | D-18      | 1860                 |
| 61*             | 7.41                                 | 0.7                     | 1.2                           | 2.0                | 2.2                       | 44.7                     | 3760                 | 500                     | D-18      | 2120                 |
| 91*             | 7.41                                 | 0.7                     | 1.4                           | 2.5                | 2.4                       | 53.9                     | 5540                 | 500                     | D-21      | 3190                 |

\*Cables conform generally to BS 5467 and IEC 60502-1.

All other cables conform to BS 5467.

All conductors circular stranded, cables with solid conductor available on request.

Core identification by number printing on white core.



■ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / XLPE / PVC / SWA / PVC ) SIZE: 2.5 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia.of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|--------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No              | Ohm/Km                               | mm                      | mm                            | mm                 | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2               | 7.41                                 | 0.7                     | 1.0                           | 0.9                | 1.8                       | 15.4                     | 420                  | 1000                    | D-10      | 480                  |
| 3               | 7.41                                 | 0.7                     | 1.0                           | 0.9                | 1.8                       | 16.0                     | 460                  | 1000                    | D-11      | 560                  |
| 4               | 7.41                                 | 0.7                     | 1.0                           | 0.9                | 1.8                       | 17.0                     | 515                  | 1000                    | D-11      | 615                  |
| 5               | 7.41                                 | 0.7                     | 1.0                           | 0.9                | 1.8                       | 18.0                     | 580                  | 1000                    | D-12      | 690                  |
| 7               | 7.41                                 | 0.7                     | 1.0                           | 1.25               | 1.8                       | 20.1                     | 790                  | 1000                    | D-12      | 900                  |
| 8               | 7.41                                 | 0.7                     | 1.0                           | 1.25               | 1.8                       | 21.2                     | 860                  | 1000                    | D-14      | 1010                 |
| 12              | 7.41                                 | 0.7                     | 1.0                           | 1.25               | 1.8                       | 24.4                     | 1090                 | 500                     | D-11      | 645                  |
| 19              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.8                       | 28.2                     | 1540                 | 500                     | D-12      | 880                  |
| 27              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.8                       | 32.2                     | 1950                 | 500                     | D-16      | 1190                 |
| 37              | 7.41                                 | 0.7                     | 1.0                           | 1.6                | 1.9                       | 35.5                     | 2380                 | 500                     | D-18      | 1430                 |
| 48              | 7.41                                 | 0.7                     | 1.2                           | 2.0                | 2.1                       | 41.7                     | 3235                 | 500                     | D-18      | 1860                 |
| 61              | 7.41                                 | 0.7                     | 1.2                           | 2.0                | 2.2                       | 45.0                     | 3795                 | 500                     | D-18      | 2135                 |
| 91              | 7.41                                 | 0.7                     | 1.4                           | 2.5                | 2.4                       | 54.2                     | 5550                 | 500                     | D-21      | 3195                 |

All cables conform to IEC 60502-1.

All conductors circular stranded, cables with solid conductor available on request.

Core identification by number printing on white cores.



- 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)  
COPPER CONDUCTOR XLPE INSULATED  
PVC SHEATHED CABLES  
(CU / XLPE / PVC) SIZE: 4 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No.             | Ohm/Km                               | mm                      | mm                        | mm                       | Kg/Km                | Metre±10%               |           | KG                   |
| 2               | 4.61                                 | 0.7                     | 1.8                       | 13.0                     | 240                  | 1000                    | D-9       | 300                  |
| 3               | 4.61                                 | 0.7                     | 1.8                       | 13.7                     | 280                  | 1000                    | D-10      | 340                  |
| 4               | 4.61                                 | 0.7                     | 1.8                       | 14.8                     | 335                  | 1000                    | D-10      | 395                  |
| 5               | 4.61                                 | 0.7                     | 1.8                       | 15.9                     | 400                  | 1000                    | D-11      | 500                  |
| 7               | 4.61                                 | 0.7                     | 1.8                       | 17.2                     | 490                  | 1000                    | D-11      | 590                  |
| 8               | 4.61                                 | 0.7                     | 1.8                       | 18.5                     | 565                  | 500                     | D-10      | 340                  |
| 12              | 4.61                                 | 0.7                     | 1.8                       | 22.1                     | 770                  | 500                     | D-11      | 485                  |
| 19              | 4.61                                 | 0.7                     | 1.8                       | 25.6                     | 1110                 | 500                     | D-12      | 665                  |
| 27              | 4.61                                 | 0.7                     | 1.8                       | 30.5                     | 1520                 | 500                     | D-14      | 910                  |
| 37              | 4.61                                 | 0.7                     | 1.9                       | 34.2                     | 2000                 | 500                     | D-16      | 1210                 |
| 48              | 4.61                                 | 0.7                     | 2.1                       | 39.5                     | 2500                 | 500                     | D-18      | 1490                 |

Cables conform to IEC 60502-1 & generally to BS 5467.  
All conductors circular stranded.  
Core identification by number printing on white cores.





■ 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR

XLPE INSULATED STEEL WIRE ARMoured

PVC SHEATHED CABLES

(CU / XLPE / PVC / SWA / PVC) SIZE: 4 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia. of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No              | Ohm/Km                               | mm                      | mm                            | mm                  | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2*              | 4.61                                 | 0.7                     | 0.8                           | 0.9                 | 1.4                       | 15.2                     | 440                  | 1000                    | D-11      | 540                  |
| 3*              | 4.61                                 | 0.7                     | 0.8                           | 0.9                 | 1.4                       | 15.9                     | 490                  | 1000                    | D-11      | 590                  |
| 4*              | 4.61                                 | 0.7                     | 0.8                           | 0.9                 | 1.4                       | 17.0                     | 570                  | 1000                    | D-11      | 670                  |
| 5*              | 4.61                                 | 0.7                     | 0.8                           | 1.25                | 1.5                       | 19.0                     | 755                  | 500                     | D-10      | 440                  |
| 7               | 4.61                                 | 0.7                     | 0.8                           | 1.25                | 1.5                       | 20.3                     | 880                  | 500                     | D-10      | 500                  |
| 8*              | 4.61                                 | 0.7                     | 0.8                           | 1.25                | 1.5                       | 22.9                     | 1130                 | 500                     | D-11      | 665                  |
| 12              | 4.61                                 | 0.7                     | 1.0                           | 1.6                 | 1.6                       | 26.5                     | 1460                 | 500                     | D-12      | 840                  |
| 19              | 4.61                                 | 0.7                     | 1.0                           | 1.6                 | 1.7                       | 30.2                     | 1920                 | 500                     | D-12      | 1070                 |
| 27              | 4.61                                 | 0.7                     | 1.0                           | 1.6                 | 1.9                       | 35.5                     | 2500                 | 500                     | D-16      | 1460                 |
| 37              | 4.61                                 | 0.7                     | 1.2                           | 2.0                 | 2.0                       | 40.4                     | 3400                 | 500                     | D-18      | 1940                 |
| 48*             | 4.61                                 | 0.7                     | 1.2                           | 2.0                 | 2.2                       | 45.7                     | 4180                 | 500                     | D-19      | 2410                 |

\*Cables conform generally to BS 5467 and IEC 60502-1.

All other cables conform to BS 5467.

All conductors circular stranded.

Core identification by number printing on white cores.



## 600 / 1000 V-AUXILIARY CABLES (CONTROL CABLES)

COPPER CONDUCTOR  
XLPE INSULATED STEEL WIRE ARMoured  
PVC SHEATHED CABLES

(CU / XLPE / PVC / SWA / PVC) SIZE: 4 SQMM

| Number of cores | Maximum Conductor Resistance at 20°C | Thickness of Insulation | Thickness of Extruded Bedding | Dia.of Armour Wire | Thickness of outer Sheath | Approx. Overall Diameter | Approx. Cable Weight | Standard Packing Length | Drum Size | Approx. Gross Weight |
|-----------------|--------------------------------------|-------------------------|-------------------------------|--------------------|---------------------------|--------------------------|----------------------|-------------------------|-----------|----------------------|
| No              | Ohm/Km                               | mm                      | mm                            | mm                 | mm                        | mm                       | Kg/Km                | Metre ±10%              |           | KG                   |
| 2               | 4.61                                 | 0.7                     | 1.0                           | 0.9                | 1.8                       | 16.4                     | 490                  | 1000                    | D-11      | 590                  |
| 3               | 4.61                                 | 0.7                     | 1.0                           | 0.9                | 1.8                       | 17.1                     | 550                  | 1000                    | D-11      | 650                  |
| 4               | 4.61                                 | 0.7                     | 1.0                           | 0.9                | 1.8                       | 18.2                     | 620                  | 1000                    | D-12      | 730                  |
| 5               | 4.61                                 | 0.7                     | 1.0                           | 1.25               | 1.8                       | 20.0                     | 800                  | 500                     | D-10      | 460                  |
| 7               | 4.61                                 | 0.7                     | 1.0                           | 1.25               | 1.8                       | 21.6                     | 940                  | 500                     | D-10      | 530                  |
| 8               | 4.61                                 | 0.7                     | 1.0                           | 1.25               | 1.8                       | 23.9                     | 1160                 | 500                     | D-11      | 680                  |
| 12              | 4.61                                 | 0.7                     | 1.0                           | 1.6                | 1.8                       | 26.9                     | 1500                 | 500                     | D-12      | 860                  |
| 19              | 4.61                                 | 0.7                     | 1.0                           | 1.6                | 1.8                       | 30.4                     | 1940                 | 500                     | D-12      | 1080                 |
| 27              | 4.61                                 | 0.7                     | 1.0                           | 1.6                | 1.9                       | 35.5                     | 2500                 | 500                     | D-16      | 1460                 |
| 37              | 4.61                                 | 0.7                     | 1.2                           | 2.0                | 2.1                       | 40.6                     | 3420                 | 500                     | D-18      | 1950                 |
| 48              | 4.61                                 | 0.7                     | 1.2                           | 2.0                | 2.2                       | 46.0                     | 4185                 | 500                     | D-18      | 2335                 |

All cables conform to IEC 60502-1.

All conductors circular stranded.

Core identification by number printing on white cores.

## ■ A.C. Resistance & Reactance values.

XLPE Insulated cables

| Nominal<br>Area<br>of<br>Conductor | AC Resistance      |           |                    |           | AC Reactance       |       |                    |
|------------------------------------|--------------------|-----------|--------------------|-----------|--------------------|-------|--------------------|
|                                    | Single core        |           | Multi core         |           | Single core        |       | Multi core         |
|                                    | Copper             | Aluminium | Copper             | Aluminium | Trefoil            | Flat  |                    |
| Sqmm                               | $\Omega/\text{km}$ |           | $\Omega/\text{km}$ |           | $\Omega/\text{km}$ |       | $\Omega/\text{km}$ |
| 1.5                                | 15.43              | -         | 15.43              | -         | -                  | -     | 0.115              |
| 2.5                                | 9.45               | -         | 9.45               | -         | -                  | -     | 0.107              |
| 4                                  | 5.88               | -         | 5.88               | -         | -                  | -     | 0.093              |
| 6                                  | 3.93               | -         | 3.93               | -         | -                  | -     | 0.089              |
| 10                                 | 2.33               | -         | 2.33               | -         | -                  | -     | 0.084              |
| 16                                 | 1.47               | 2.42      | 1.47               | 2.42      | 0.114              | 0.172 | 0.081              |
| 25                                 | 0.927              | 1.54      | 0.927              | 1.54      | 0.113              | 0.172 | 0.081              |
| 35                                 | 0.668              | 1.11      | 0.668              | 1.11      | 0.110              | 0.167 | 0.079              |
| 50                                 | 0.494              | 0.822     | 0.494              | 0.822     | 0.106              | 0.161 | 0.075              |
| 70                                 | 0.342              | 0.568     | 0.342              | 0.568     | 0.103              | 0.160 | 0.074              |
| 95                                 | 0.247              | 0.411     | 0.247              | 0.411     | 0.098              | 0.155 | 0.073              |
| 120                                | 0.197              | 0.325     | 0.197              | 0.325     | 0.097              | 0.153 | 0.072              |
| 150                                | 0.160              | 0.265     | 0.160              | 0.265     | 0.097              | 0.153 | 0.072              |
| 185                                | 0.128              | 0.211     | 0.128              | 0.211     | 0.096              | 0.153 | 0.072              |
| 240                                | 0.0986             | 0.162     | 0.0989             | 0.162     | 0.092              | 0.147 | 0.071              |
| 300                                | 0.0800             | 0.130     | 0.0802             | 0.130     | 0.090              | 0.147 | 0.070              |
| 400                                | 0.0640             | 0.102     | 0.0645             | 0.102     | 0.090              | 0.146 | 0.070              |
| 500                                | 0.0525             | 0.0810    | 0.0530             | 0.081     | 0.089              | 0.146 | 0.070              |
| 630                                | 0.0428             | 0.0658    | -                  | -         | 0.086              | 0.144 | -                  |
| 800                                | 0.0380             | 0.0541    | -                  | -         | 0.084              | 0.143 | -                  |
| 1000                               | 0.0334             | 0.0457    | -                  | -         | 0.081              | 0.140 | -                  |

Note: Maximum Conductor Operating Temperature = 90°C



## ■ A.C. Resistance & Reactance values.

PVC Insulated cables

| Nominal<br>Area<br>of<br>Conductor | AC Resistance |         |           |         |            |         |           |         | Reactance   |       |           |
|------------------------------------|---------------|---------|-----------|---------|------------|---------|-----------|---------|-------------|-------|-----------|
|                                    | Single core   |         |           |         | Multi core |         |           |         | Single Core |       | Multicore |
|                                    | Copper        |         | Aluminium |         | Copper     |         | Aluminium |         | Trefoil     | Flat  |           |
|                                    | at 70°C       | at 85°C | at 70°C   | at 85°C | at 70°C    | at 85°C | at 70°C   | at 85°C |             |       |           |
| Sqmm                               | Ω/km          |         | Ω/km      |         | Ω/km       |         | Ω/km      |         | Ω/km        | Ω/km  | Ω/km      |
| 1.5                                | 15.19         | 15.19   | -         | -       | 15.19      | 15.19   | -         | -       | -           | -     | 0.115     |
| 2.5                                | 9.30          | 9.30    | -         | -       | 9.30       | 9.30    | -         | -       | -           | -     | 0.111     |
| 4                                  | 5.79          | 5.79    | -         | -       | 5.79       | 5.79    | -         | -       | -           | -     | 0.096     |
| 6                                  | 3.87          | 3.87    | -         | -       | 3.87       | 3.87    | -         | -       | -           | -     | 0.092     |
| 10                                 | 2.30          | 2.30    | -         | -       | 2.30       | 2.30    | -         | -       | -           | -     | 0.091     |
| 16                                 | 1.38          | 1.44    | 2.29      | 2.41    | 1.38       | 1.44    | 2.29      | 2.41    | 0.121       | 0.210 | 0.086     |
| 25                                 | 0.870         | 0.913   | 1.44      | 1.51    | 0.870      | 0.913   | 1.44      | 1.51    | 0.116       | 0.202 | 0.085     |
| 35                                 | 0.627         | 0.658   | 1.04      | 1.10    | 0.627      | 0.658   | 1.04      | 1.10    | 0.115       | 0.201 | 0.083     |
| 50                                 | 0.464         | 0.486   | 0.771     | 0.809   | 0.464      | 0.486   | 0.77      | 0.809   | 0.112       | 0.195 | 0.080     |
| 70                                 | 0.321         | 0.337   | 0.533     | 0.559   | 0.321      | 0.337   | 0.533     | 0.559   | 0.107       | 0.188 | 0.077     |
| 95                                 | 0.232         | 0.243   | 0.385     | 0.405   | 0.232      | 0.243   | 0.385     | 0.405   | 0.103       | 0.186 | 0.077     |
| 120                                | 0.185         | 0.193   | 0.305     | 0.320   | 0.184      | 0.193   | 0.305     | 0.320   | 0.103       | 0.185 | 0.075     |
| 150                                | 0.150         | 0.159   | 0.248     | 0.261   | 0.150      | 0.159   | 0.248     | 0.261   | 0.101       | 0.185 | 0.075     |
| 185                                | 0.120         | 0.126   | 0.198     | 0.208   | 0.121      | 0.126   | 0.198     | 0.208   | 0.099       | 0.184 | 0.074     |
| 240                                | 0.0926        | 0.0970  | 0.152     | 0.160   | 0.0929     | 0.0972  | 0.152     | 0.160   | 0.096       | 0.181 | 0.074     |
| 300                                | 0.0750        | 0.0785  | 0.122     | 0.129   | 0.0752     | 0.0786  | 0.122     | 0.129   | 0.094       | 0.180 | 0.073     |
| 400                                | 0.0600        | 0.0628  | 0.096     | 0.100   | 0.0604     | 0.0630  | 0.096     | 0.101   | 0.091       | 0.178 | 0.073     |
| 500                                | 0.0484        | 0.0515  | 0.0757    | 0.0793  | 0.0491     | 0.0518  | 0.0757    | 0.0795  | 0.089       | 0.176 | 0.072     |
| 630                                | 0.0398        | 0.0426  | 0.0605    | 0.0648  | -          | -       | -         | -       | 0.086       | 0.173 | -         |
| 800                                | 0.0334        | 0.0357  | 0.0500    | 0.0533  | -          | -       | -         | -       | 0.086       | 0.171 | -         |
| 1000                               | 0.0290        | 0.0310  | 0.0415    | 0.0451  | -          | -       | -         | -       | 0.084       | 0.168 | -         |

Note:

Maximum Conductor Temperature for PVC Type 5 Insulation  
Maximum Conductor Temperature for PVC T11/Type A Insulation

85°C  
70°C

## Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V

### Current Ratings of Cables:

Current ratings of cable given in tables below are based on the ERA (Electrical Research Association) report 69-30, Part V (for XLPE Cables) and Part III (for PVC Cables) which is accepted world wide.

Single core Copper, XLPE Insulated Armoured /Unarmoured Cables:

| Nominal Area of Conductor | In Air                 |          | In Ground              | In Duct                | Voltage drop of 3 single core cables Trefoil |
|---------------------------|------------------------|----------|------------------------|------------------------|----------------------------------------------|
|                           | Single core in Trefoil |          | Single core in Trefoil | Single core in Trefoil |                                              |
|                           | Unarmoured             | Armoured | Armoured               | Armoured               |                                              |
| Sqmm                      | A                      |          | A                      | A                      | V/A/km                                       |
| 1.5                       | 27                     | 27       | 32                     | 29                     | 26.7                                         |
| 2.5                       | 37                     | 37       | 43                     | 40                     | 16.4                                         |
| 4                         | 48                     | 48       | 55                     | 52                     | 10.2                                         |
| 6                         | 60                     | 60       | 70                     | 67                     | 6.8                                          |
| 10                        | 82                     | 82       | 93                     | 88                     | 4.0                                          |
| 16                        | 112                    | 112      | 122                    | 114                    | 2.5                                          |
| 25                        | 150                    | 150      | 157                    | 151                    | 1.62                                         |
| 35                        | 178                    | 178      | 186                    | 174                    | 1.17                                         |
| 50                        | 212                    | 220      | 225                    | 225                    | 0.88                                         |
| 70                        | 271                    | 281      | 276                    | 270                    | 0.62                                         |
| 95                        | 336                    | 344      | 330                    | 318                    | 0.46                                         |
| 120                       | 392                    | 400      | 375                    | 356                    | 0.38                                         |
| 150                       | 453                    | 460      | 419                    | 385                    | 0.32                                         |
| 185                       | 525                    | 528      | 471                    | 425                    | 0.28                                         |
| 240                       | 626                    | 622      | 542                    | 476                    | 0.23                                         |
| 300                       | 725                    | 709      | 606                    | 519                    | 0.21                                         |
| 400                       | 844                    | 810      | 671                    | 551                    | 0.20                                         |
| 500                       | 977                    | 916      | 744                    | 598                    | 0.18                                         |
| 630                       | 1129                   | 1032     | 817                    | 645                    | 0.17                                         |
| 800                       | 1282                   | 1121     | 864                    | 672                    | 0.16                                         |
| 1000                      | 1430                   | 1216     | 915                    | 714                    | 0.15                                         |

### Operating conditions:

Ambient air temperature: 30 °C  
 Ground temperature: 20 °C  
 Depth of laying: 0.5 m  
 Thermal resistivity of soil: 1.2 K.m/W



- ▣ Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
Single core Aluminium, XLPE Insulated Armoured /Unarmoured Cables:

| Nominal<br>Area<br>of<br>Conductor | In Air                 |          | In Ground              | In Duct                | Voltage drop of 3<br>single core cables<br>Trefoil |
|------------------------------------|------------------------|----------|------------------------|------------------------|----------------------------------------------------|
|                                    | Single core in Trefoil |          | Single core in Trefoil | Single core in Trefoil |                                                    |
|                                    | Unarmoured             | Armoured | Armoured               | Armoured               |                                                    |
| Sqmm                               | A                      |          | A                      | A                      | V/A/km                                             |
| 4                                  | 37                     | 37       | 44                     | 42                     | 16.5                                               |
| 6                                  | 48                     | 48       | 55                     | 51                     | 10.2                                               |
| 10                                 | 65                     | 65       | 73                     | 70                     | 6.8                                                |
| 16                                 | 88                     | 88       | 95                     | 89                     | 4.2                                                |
| 25                                 | 115                    | 115      | 123                    | 116                    | 2.70                                               |
| 35                                 | 144                    | 144      | 144                    | 139                    | 1.93                                               |
| 50                                 | 157                    | 165      | 172                    | 173                    | 1.44                                               |
| 70                                 | 201                    | 210      | 211                    | 210                    | 1.0                                                |
| 95                                 | 249                    | 257      | 253                    | 247                    | 0.73                                               |
| 120                                | 289                    | 299      | 288                    | 280                    | 0.59                                               |
| 150                                | 334                    | 344      | 322                    | 306                    | 0.49                                               |
| 185                                | 389                    | 397      | 364                    | 340                    | 0.40                                               |
| 240                                | 465                    | 470      | 420                    | 385                    | 0.32                                               |
| 300                                | 539                    | 538      | 472                    | 426                    | 0.27                                               |
| 400                                | 594                    | 594      | 534                    | 481                    | 0.25                                               |
| 500                                | 656                    | 656      | 606                    | 546                    | 0.21                                               |
| 630                                | 744                    | 744      | 688                    | 620                    | 0.19                                               |
| 800                                | 842                    | 842      | 779                    | 703                    | 0.18                                               |
| 1000                               | 946                    | 946      | 872                    | 788                    | 0.17                                               |

Operating conditions:

Ambient air temperature: 30 °C  
 Ground temperature: 20 °C  
 Depth of laying: 0.5 m  
 Thermal resistivity of soil: 1.2 K.m/W



- Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
Two core Copper, XLPE Insulated Armoured /Unarmoured Cables:

| Nominal<br>Area<br>of<br>Conductor | In Air     |          | In Ground | In Duct  | Voltage drop |
|------------------------------------|------------|----------|-----------|----------|--------------|
|                                    | Unarmoured | Armoured | Armoured  | Armoured |              |
| Sqmm                               | A          |          | A         | A        | V/A/km       |
| 1.5                                | 27         | 29       | 37        | 31       | 30.9         |
| 2.5                                | 37         | 39       | 47        | 40       | 18.9         |
| 4                                  | 48         | 52       | 63        | 52       | 11.8         |
| 6                                  | 61         | 67       | 79        | 66       | 7.9          |
| 10                                 | 82         | 90       | 106       | 87       | 4.7          |
| 16                                 | 118        | 120      | 137       | 112      | 2.9          |
| 25                                 | 149        | 156      | 177       | 144      | 1.90         |
| 35                                 | 184        | 193      | 212       | 173      | 1.35         |
| 50                                 | 223        | 232      | 252       | 205      | 1.00         |
| 70                                 | 283        | 292      | 308       | 253      | 0.70         |
| 95                                 | 350        | 360      | 371       | 304      | 0.52         |
| 120                                | 409        | 416      | 420       | 347      | 0.42         |
| 150                                | 467        | 472      | 471       | 390      | 0.35         |
| 185                                | 542        | 548      | 531       | 442      | 0.29         |
| 240                                | 658        | 647      | 615       | 512      | 0.24         |
| 300                                | 745        | 738      | 688       | 575      | 0.21         |
| 400                                | 867        | 849      | 776       | 650      | 0.20         |

Operating conditions:

Ambient air temperature: 30 °C  
Ground temperature: 20 °C  
Depth of laying: 0.5 m  
Thermal resistivity of soil: 1.2 K.m/W



- Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
Two core Aluminium, XLPE Insulated Armoured /Unarmoured Cables:

| Nominal<br>Area<br>of<br>Conductor | In Air     |          | In Ground | In Duct  | Voltage drop |
|------------------------------------|------------|----------|-----------|----------|--------------|
|                                    | Unarmoured | Armoured | Armoured  | Armoured |              |
| Sqmm                               | A          |          | A         | A        | V/A/km       |
| 1.5                                | 22         | 22       | 25        | 21       | -            |
| 2.5                                | 29         | 29       | 35        | 28       | -            |
| 4                                  | 37         | 37       | 44        | 63       | 19.0         |
| 6                                  | 48         | 48       | 55        | 46       | 11.8         |
| 10                                 | 65         | 65       | 76        | 61       | 7.9          |
| 16                                 | 98         | 89       | 105       | 86       | 4.8          |
| 25                                 | 110        | 110      | 134       | 108      | 3.10         |
| 35                                 | 135        | 135      | 160       | 131      | 2.23         |
| 50                                 | 163        | 163      | 191       | 156      | 1.65         |
| 70                                 | 209        | 209      | 234       | 191      | 1.15         |
| 95                                 | 257        | 257      | 280       | 231      | 0.84         |
| 120                                | 287        | 287      | 301       | 262      | 0.67         |
| 150                                | 328        | 328      | 344       | 289      | 0.55         |
| 185                                | 376        | 376      | 394       | 331      | 0.45         |
| 240                                | 444        | 444      | 459       | 380      | 0.35         |
| 300                                | 499        | 499      | 509       | 420      | 0.30         |
| 400                                | 573        | 573      | 556       | 480      | 0.25         |

Operating conditions:

Ambient air temperature: 30 °C  
Ground temperature: 20 °C  
Depth of laying: 0.5 m  
Thermal resistivity of soil: 1.2 K.m/W

- ▣ Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
3 & 4 core Copper, XLPE Insulated Armoured /Unarmoured Cables:

| Nominal<br>Area<br>of<br>Conductor | In Air     |          | In Ground | In Duct  | Voltage drop |
|------------------------------------|------------|----------|-----------|----------|--------------|
|                                    | Unarmoured | Armoured | Armoured  | Armoured |              |
| Sqmm                               | A          |          | A         | A        | V/A/km       |
| 1.5                                | 23         | 24       | 32        | 25       | 26.7         |
| 2.5                                | 33         | 33       | 41        | 33       | 16.4         |
| 4                                  | 41         | 45       | 53        | 44       | 10.2         |
| 6                                  | 54         | 56       | 67        | 54       | 6.8          |
| 10                                 | 71         | 78       | 89        | 73       | 4.0          |
| 16                                 | 101        | 101      | 115       | 94       | 2.5          |
| 25                                 | 128        | 133      | 148       | 121      | 1.65         |
| 35                                 | 157        | 163      | 177       | 145      | 1.15         |
| 50                                 | 192        | 199      | 211       | 172      | 0.87         |
| 70                                 | 244        | 250      | 259       | 211      | 0.60         |
| 95                                 | 300        | 309      | 310       | 255      | 0.45         |
| 120                                | 351        | 357      | 353       | 292      | 0.37         |
| 150                                | 403        | 409      | 394       | 329      | 0.30         |
| 185                                | 465        | 471      | 445       | 372      | 0.26         |
| 240                                | 554        | 556      | 514       | 429      | 0.21         |
| 300                                | 639        | 633      | 575       | 483      | 0.19         |
| 400                                | 742        | 728      | 649       | 554      | 0.17         |

Operating conditions:

Ambient air temperature: 30°C  
Ground temperature: 20°C  
Depth of laying: 0.5 m  
Thermal resistivity of soil: 1.2 K.m/W



- ▣ Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
3 & 4 core Aluminum, XLPE Insulated Armoured /Unarmoured Cables:

| Nominal<br>Area<br>of<br>Conductor | In Air     |          | In Ground | In Duct  | Voltage drop |
|------------------------------------|------------|----------|-----------|----------|--------------|
|                                    | Unarmoured | Armoured | Armoured  | Armoured |              |
| Sqmm                               | A          |          | A         | A        | V/A/km       |
| 1.5                                | 18         | 18       | 23        | 19       | -            |
| 2.5                                | 24         | 24       | 29        | 25       | -            |
| 4                                  | 32         | 32       | 38        | 32       | 16.5         |
| 6                                  | 41         | 41       | 49        | 41       | 10.2         |
| 10                                 | 55         | 55       | 64        | 53       | 6.8          |
| 16                                 | 77         | 77       | 88        | 72       | 4.2          |
| 25                                 | 96         | 101      | 113       | 93       | 1.93         |
| 35                                 | 118        | 123      | 136       | 110      | 2.70         |
| 50                                 | 144        | 149      | 160       | 131      | 1.45         |
| 70                                 | 183        | 188      | 198       | 163      | 0.97         |
| 95                                 | 226        | 232      | 237       | 195      | 0.72         |
| 120                                | 264        | 270      | 270       | 224      | 0.58         |
| 150                                | 301        | 309      | 302       | 252      | 0.47         |
| 185                                | 350        | 357      | 344       | 286      | 0.39         |
| 240                                | 417        | 422      | 398       | 332      | 0.32         |
| 300                                | 482        | 483      | 447       | 375      | 0.26         |
| 400                                | 562        | 570      | 499       | 412      | 0.21         |

Operating conditions:

Ambient air temperature: 30°C  
 Ground temperature: 20°C  
 Depth of laying: 0.5 m  
 Thermal resistivity of soil: 1.2 K.m/W

- Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V Single Core Copper, PVC insulated, Armoured/Unarmoured cables;

Three Single Cores in Trefoil touching:

| Nominal<br>Area<br>of<br>Conductor | In Air     |         |          |         | In Ground |         | In Duct  |         | Voltage drop of 3<br>single core cables |         |
|------------------------------------|------------|---------|----------|---------|-----------|---------|----------|---------|-----------------------------------------|---------|
|                                    | Unarmoured |         | Armoured |         | Armoured  |         | Armoured |         |                                         |         |
|                                    | at 70°C    | at 85°C | at 70°C  | at 85°C | at 70°C   | at 85°C | at 70°C  | at 85°C | at 70°C                                 | at 85°C |
| Sqmm                               | A          |         |          |         | A         |         | A        |         | V/A/km                                  | V/A/km  |
| 1.5                                | 22         | 26      | 22       | 26      | 27        | 31      | 25       | 29      | 26.3                                    | 26.3    |
| 2.5                                | 31         | 36      | 31       | 36      | 37        | 42      | 35       | 40      | 16.1                                    | 16.1    |
| 4                                  | 41         | 48      | 41       | 48      | 49        | 56      | 45       | 51      | 10.0                                    | 10.0    |
| 6                                  | 50         | 59      | 50       | 59      | 61        | 70      | 57       | 65      | 6.7                                     | 6.7     |
| 10                                 | 69         | 81      | 69       | 81      | 61        | 92      | 76       | 86      | 4.0                                     | 4.0     |
| 16                                 | 94         | 108     | 94       | 108     | 106       | 118     | 100      | 111     | 2.4                                     | 2.5     |
| 25                                 | 126        | 144     | 126      | 144     | 137       | 152     | 132      | 146     | 1.52                                    | 1.59    |
| 35                                 | 150        | 172     | 150      | 172     | 162       | 180     | 151      | 168     | 1.10                                    | 1.16    |
| 50                                 | 172        | 197     | 181      | 207     | 193       | 215     | 189      | 211     | 0.83                                    | 0.86    |
| 70                                 | 218        | 249     | 228      | 261     | 236       | 263     | 230      | 255     | 0.59                                    | 0.61    |
| 95                                 | 272        | 312     | 280      | 321     | 283       | 315     | 269      | 300     | 0.44                                    | 0.46    |
| 120                                | 316        | 363     | 325      | 373     | 321       | 358     | 296      | 331     | 0.37                                    | 0.38    |
| 150                                | 364        | 415     | 371      | 423     | 358       | 396     | 326      | 360     | 0.31                                    | 0.33    |
| 185                                | 423        | 484     | 424      | 485     | 402       | 447     | 357      | 396     | 0.27                                    | 0.28    |
| 240                                | 504        | 577     | 498      | 571     | 462       | 515     | 399      | 444     | 0.23                                    | 0.24    |
| 300                                | 581        | 666     | 570      | 653     | 516       | 575     | 437      | 487     | 0.21                                    | 0.21    |
| 400                                | 678        | 777     | 647      | 742     | 571       | 636     | 465      | 517     | 0.19                                    | 0.19    |
| 500                                | 780        | 887     | 728      | 828     | 628       | 694     | 497      | 551     | 0.18                                    | 0.18    |
| 630                                | 897        | 1017    | 815      | 924     | 687       | 757     | 536      | 591     | 0.16                                    | 0.17    |
| 800                                | 1016       | 1152    | 879      | 997     | 720       | 794     | 559      | 616     | 0.16                                    | 0.16    |
| 1000                               | 1131       | 1283    | 948      | 1075    | 759       | 837     | 591      | 654     | 0.15                                    | 0.16    |

Installation conditions for above Rating:

|                                                       |           |
|-------------------------------------------------------|-----------|
| Maximum Conductor Temp. for PVC Type 5 Insulation     | 85°C      |
| Maximum Conductor Temp. for PVC TI1/Type A Insulation | 70°C      |
| Ambient Air Temperature                               | 30°C      |
| Ground Temperature                                    | 20°C      |
| Depth of Laying                                       | 0.5 m     |
| Thermal Resistivity of soil                           | 1.2 K.m/w |



- ▣ Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V Single Core Aluminium, PVC insulated, Armoured/Unarmoured cables;

Three Single Cores in Trefoil touching:

| Nominal<br>Area<br>of<br>Conductor | In Air     |         |          |         | In Ground |         | In Duct  |         | Voltage drop of 3<br>single core cables |         |
|------------------------------------|------------|---------|----------|---------|-----------|---------|----------|---------|-----------------------------------------|---------|
|                                    | Unarmoured |         | Armoured |         | Armoured  |         | Armoured |         |                                         |         |
|                                    | at 70°C    | at 85°C | at 70°C  | at 85°C | at 70°C   | at 85°C | at 70°C  | at 85°C | at 70°C                                 | at 85°C |
| Sqmm                               | A          |         |          |         | A         |         | A        |         | V/A/km                                  | V/A/km  |
| 16                                 | 73         | 83      | 73       | 83      | 82        | 91      | 77       | 86      | 3.97                                    | 4.18    |
| 25                                 | 97         | 111     | 97       | 111     | 107       | 119     | 101      | 112     | 2.50                                    | 2.62    |
| 35                                 | 120        | 137     | 120      | 137     | 125       | 139     | 121      | 135     | 1.81                                    | 1.92    |
| 50                                 | 129        | 148     | 132      | 151     | 146       | 163     | 146      | 163     | 1.35                                    | 1.41    |
| 70                                 | 164        | 188     | 167      | 191     | 179       | 199     | 179      | 199     | 0.94                                    | 0.99    |
| 95                                 | 202        | 231     | 204      | 233     | 215       | 239     | 212      | 237     | 0.69                                    | 0.72    |
| 120                                | 235        | 269     | 238      | 272     | 245       | 273     | 240      | 268     | 0.56                                    | 0.58    |
| 150                                | 270        | 309     | 272      | 311     | 274       | 305     | 267      | 296     | 0.46                                    | 0.48    |
| 185                                | 314        | 359     | 316      | 362     | 311       | 346     | 292      | 323     | 0.38                                    | 0.40    |
| 240                                | 375        | 429     | 374      | 427     | 333       | 370     | 306      | 339     | 0.31                                    | 0.32    |
| 300                                | 435        | 496     | 430      | 490     | 367       | 407     | 334      | 370     | 0.27                                    | 0.28    |
| 400                                | 500        | 574     | 500      | 574     | 405       | 452     | 365      | 407     | 0.23                                    | 0.23    |
| 500                                | 552        | 632     | 552      | 632     | 430       | 479     | 387      | 432     | 0.20                                    | 0.21    |
| 630                                | 626        | 709     | 626      | 709     | 488       | 538     | 440      | 485     | 0.18                                    | 0.19    |
| 800                                | 707        | 803     | 707      | 803     | 551       | 608     | 496      | 548     | 0.17                                    | 0.18    |
| 1000                               | 795        | 894     | 795      | 894     | 619       | 677     | 558      | 610     | 0.16                                    | 0.17    |

Installation conditions for above Rating:

|                                                       |           |
|-------------------------------------------------------|-----------|
| Maximum Conductor Temp. for PVC Type 5 Insulation     | 85 °C     |
| Maximum Conductor Temp. for PVC TI1/Type A Insulation | 70 °C     |
| Ambient Air Temperature                               | 30 °C     |
| Ground Temperature                                    | 20 °C     |
| Depth of Laying                                       | 0.5 m     |
| Thermal Resistivity of soil                           | 1.2 K.m/w |



- ▣ Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
Two Core Copper, PVC insulated, Armoured/Unarmoured cables;

| Nominal<br>Area<br>of<br>Conductor | In Air     |         |          |         | In Ground |         | In Duct  |         | Voltage drop |         |
|------------------------------------|------------|---------|----------|---------|-----------|---------|----------|---------|--------------|---------|
|                                    | Unarmoured |         | Armoured |         | Armoured  |         | Armoured |         |              |         |
|                                    | at 70°C    | at 85°C | at 70°C  | at 85°C | at 70°C   | at 85°C | at 70°C  | at 85°C | at 70°C      | at 85°C |
| Sqmm                               | A          |         |          |         | A         |         | A        |         | V/A/km       | V/A/km  |
| 1.5                                | 22         | 26      | 22       | 26      | 31        | 35      | 25       | 28      | 30.4         | 30.4    |
| 2.5                                | 31         | 36      | 31       | 36      | 39        | 44      | 32       | 36      | 18.6         | 18.6    |
| 4                                  | 41         | 48      | 41       | 48      | 52        | 59      | 43       | 49      | 11.6         | 11.6    |
| 6                                  | 52         | 61      | 53       | 62      | 65        | 74      | 55       | 63      | 7.7          | 7.7     |
| 10                                 | 67         | 79      | 73       | 86      | 88        | 100     | 73       | 83      | 4.6          | 4.6     |
| 16                                 | 91         | 104     | 95       | 109     | 113       | 126     | 93       | 103     | 2.8          | 2.9     |
| 25                                 | 122        | 140     | 127      | 145     | 150       | 167     | 123      | 137     | 1.75         | 1.83    |
| 35                                 | 150        | 172     | 155      | 177     | 181       | 201     | 146      | 162     | 1.26         | 1.33    |
| 50                                 | 182        | 209     | 189      | 217     | 214       | 238     | 174      | 193     | 0.94         | 0.99    |
| 70                                 | 228        | 261     | 237      | 271     | 264       | 294     | 214      | 239     | 0.66         | 0.69    |
| 95                                 | 283        | 324     | 293      | 336     | 317       | 353     | 258      | 287     | 0.49         | 0.51    |
| 120                                | 329        | 377     | 337      | 386     | 359       | 400     | 294      | 328     | 0.40         | 0.41    |
| 150                                | 377        | 429     | 384      | 437     | 402       | 445     | 330      | 365     | 0.34         | 0.35    |
| 185                                | 435        | 500     | 444      | 510     | 455       | 508     | 374      | 416     | 0.28         | 0.29    |
| 240                                | 518        | 594     | 524      | 601     | 525       | 585     | 433      | 483     | 0.24         | 0.24    |
| 300                                | 596        | 684     | 596      | 684     | 587       | 655     | 486      | 541     | 0.21         | 0.21    |
| 400                                | 693        | 796     | 683      | 784     | 659       | 736     | 546      | 608     | 0.19         | 0.19    |

Installation conditions for above Rating:

|                                                       |           |
|-------------------------------------------------------|-----------|
| Maximum Conductor Temp. for PVC Type 5 Insulation     | 85°C      |
| Maximum Conductor Temp. for PVC TI1/Type A Insulation | 70°C      |
| Ambient Air Temperature                               | 30°C      |
| Ground Temperature                                    | 20°C      |
| Depth of Laying                                       | 0.5 m     |
| Thermal Resistivity of soil                           | 1.2 K.m/w |



- Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
Two Core Aluminium, PVC insulated, Armoured/Unarmoured cables;

| Nominal<br>Area of<br>Conductor | In Air     |         |          |         | In Ground |         | In Duct  |         | Voltage drop |         |
|---------------------------------|------------|---------|----------|---------|-----------|---------|----------|---------|--------------|---------|
|                                 | Unarmoured |         | Armoured |         | Armoured  |         | Armoured |         |              |         |
|                                 | at 70°C    | at 85°C | at 70°C  | at 85°C | at 70°C   | at 85°C | at 70°C  | at 85°C | at 70°C      | at 85°C |
| sqmm                            | A          |         |          |         | A         |         | A        |         | V/A/km       | V/A/km  |
| 16                              | 70         | 80      | 73       | 83      | 87        | 97      | 71       | 79      | 4.6          | 4.8     |
| 25                              | 90         | 103     | 92       | 105     | 112       | 125     | 92       | 102     | 2.89         | 3.02    |
| 35                              | 109        | 124     | 112      | 128     | 136       | 151     | 109      | 121     | 2.09         | 2.21    |
| 50                              | 134        | 153     | 136      | 156     | 159       | 177     | 131      | 146     | 1.55         | 1.63    |
| 70                              | 169        | 194     | 174      | 199     | 199       | 222     | 162      | 180     | 1.08         | 1.13    |
| 95                              | 209        | 239     | 213      | 244     | 238       | 265     | 194      | 215     | 0.79         | 0.82    |
| 120                             | 241        | 276     | 241      | 276     | 261       | 291     | 227      | 253     | 0.63         | 0.66    |
| 150                             | 276        | 315     | 276      | 315     | 299       | 332     | 251      | 279     | 0.52         | 0.54    |
| 185                             | 316        | 362     | 316      | 362     | 342       | 380     | 288      | 319     | 0.42         | 0.44    |
| 240                             | 374        | 427     | 374      | 427     | 397       | 441     | 330      | 368     | 0.34         | 0.35    |
| 300                             | 419        | 478     | 419      | 478     | 441       | 489     | 365      | 404     | 0.28         | 0.30    |
| 400                             | 482        | 551     | 482      | 551     | 478       | 531     | 418      | 466     | 0.24         | 0.25    |

Installation conditions for above Rating:

|                                                       |           |
|-------------------------------------------------------|-----------|
| Maximum Conductor Temp. for PVC Type 5 Insulation     | 85 °C     |
| Maximum Conductor Temp. for PVC TI1/Type A Insulation | 70 °C     |
| Ambient Air Temperature                               | 30 °C     |
| Ground Temperature                                    | 20 °C     |
| Depth of Laying                                       | 0.5 m     |
| Thermal Resistivity of soil                           | 1.2 K.m/w |

- Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
3 and 4 Core Copper, PVC insulated, Armoured/Unarmoured cables;

| Nominal<br>Area<br>of<br>Conductor | In Air     |         |          |         | In Ground |         | In Duct  |         | Voltage drop |         |
|------------------------------------|------------|---------|----------|---------|-----------|---------|----------|---------|--------------|---------|
|                                    | Unarmoured |         | Armoured |         | Armoured  |         | Armoured |         |              |         |
|                                    | at 70°C    | at 85°C | at 70°C  | at 85°C | at 70°C   | at 85°C | at 70°C  | at 85°C | at 70°C      | at 85°C |
| Sqmm                               | A          |         |          |         | A         |         | A        |         | V/A/km       | V/A/km  |
| 1.5                                | 20         | 23      | 20       | 23      | 26        | 30      | 21       | 24      | 26.3         | 26.3    |
| 2.5                                | 28         | 33      | 27       | 32      | 33        | 38      | 27       | 31      | 16.1         | 16.1    |
| 4                                  | 35         | 41      | 35       | 41      | 45        | 51      | 36       | 41      | 10.0         | 10.0    |
| 6                                  | 45         | 53      | 45       | 53      | 56        | 64      | 45       | 52      | 6.7          | 6.7     |
| 10                                 | 59         | 69      | 62       | 73      | 74        | 84      | 61       | 69      | 4.0          | 4.0     |
| 16                                 | 78         | 90      | 81       | 93      | 96        | 107     | 79       | 88      | 2.4          | 2.5     |
| 25                                 | 104        | 119     | 109      | 125     | 126       | 140     | 102      | 113     | 1.51         | 1.59    |
| 35                                 | 127        | 145     | 133      | 152     | 151       | 168     | 123      | 137     | 1.10         | 1.15    |
| 50                                 | 155        | 178     | 161      | 184     | 179       | 199     | 145      | 162     | 0.82         | 0.85    |
| 70                                 | 197        | 225     | 204      | 233     | 221       | 246     | 181      | 202     | 0.57         | 0.60    |
| 95                                 | 244        | 280     | 252      | 289     | 265       | 295     | 217      | 242     | 0.42         | 0.44    |
| 120                                | 283        | 324     | 291      | 333     | 302       | 336     | 248      | 275     | 0.34         | 0.36    |
| 150                                | 323        | 368     | 333      | 379     | 338       | 374     | 278      | 307     | 0.29         | 0.30    |
| 185                                | 374        | 430     | 382      | 439     | 382       | 427     | 315      | 353     | 0.25         | 0.25    |
| 240                                | 445        | 510     | 451      | 517     | 440       | 490     | 364      | 405     | 0.21         | 0.21    |
| 300                                | 511        | 586     | 512      | 587     | 493       | 550     | 407      | 455     | 0.18         | 0.19    |
| 400                                | 592        | 680     | 588      | 675     | 552       | 616     | 466      | 522     | 0.16         | 0.17    |

Installation conditions for above Rating:

|                                                       |           |
|-------------------------------------------------------|-----------|
| Maximum Conductor Temp. for PVC Type 5 Insulation     | 85°C      |
| Maximum Conductor Temp. for PVC TI1/Type A Insulation | 70°C      |
| Ambient Air Temperature                               | 30°C      |
| Ground Temperature                                    | 20°C      |
| Depth of Laying                                       | 0.5 m     |
| Thermal Resistivity of soil                           | 1.2 K.m/w |



- Current Rating & Voltage drop for Cables & Wires Upto and including 600/1000 V  
3 and 4 Core Aluminium, PVC insulated, Armoured/Unarmoured cables;

| Nominal<br>Area<br>of<br>Conductor | In Air     |         |          |         | In Ground |         | In Duct  |         | Voltage drop |         |
|------------------------------------|------------|---------|----------|---------|-----------|---------|----------|---------|--------------|---------|
|                                    | Unarmoured |         | Armoured |         | Armoured  |         | Armoured |         |              |         |
|                                    | at 70°C    | at 85°C | at 70°C  | at 85°C | at 70°C   | at 85°C | at 70°C  | at 85°C | at 70°C      | at 85°C |
| Sqmm                               | A          |         |          |         | A         |         | A        |         | V/A/km       | V/A/km  |
| 16                                 | 59         | 67      | 62       | 71      | 74        | 82      | 60       | 67      | 4.00         | 4.18    |
| 25                                 | 78         | 89      | 80       | 92      | 95        | 106     | 77       | 86      | 2.50         | 2.62    |
| 35                                 | 95         | 108     | 98       | 112     | 114       | 126     | 93       | 102     | 1.81         | 1.91    |
| 50                                 | 116        | 133     | 120      | 137     | 136       | 151     | 111      | 123     | 1.34         | 1.41    |
| 70                                 | 148        | 169     | 151      | 173     | 168       | 187     | 137      | 152     | 0.93         | 0.98    |
| 95                                 | 183        | 209     | 188      | 215     | 202       | 225     | 165      | 184     | 0.68         | 0.71    |
| 120                                | 211        | 242     | 217      | 248     | 231       | 257     | 189      | 211     | 0.54         | 0.57    |
| 150                                | 244        | 279     | 248      | 283     | 259       | 288     | 212      | 236     | 0.45         | 0.47    |
| 185                                | 280        | 320     | 287      | 328     | 294       | 327     | 242      | 270     | 0.37         | 0.38    |
| 240                                | 335        | 383     | 343      | 392     | 343       | 381     | 283      | 315     | 0.29         | 0.31    |
| 300                                | 386        | 440     | 395      | 450     | 388       | 430     | 321      | 355     | 0.25         | 0.26    |
| 400                                | 431        | 493     | 431      | 493     | 420       | 467     | 340      | 377     | 0.21         | 0.22    |

Installation conditions for above Rating:

|                                                       |           |
|-------------------------------------------------------|-----------|
| Maximum Conductor Temp. for PVC Type 5 Insulation     | 85 °C     |
| Maximum Conductor Temp. for PVC TI1/Type A Insulation | 70 °C     |
| Ambient Air Temperature                               | 30 °C     |
| Ground Temperature                                    | 20 °C     |
| Depth of Laying                                       | 0.5 m     |
| Thermal Resistivity of soil                           | 1.2 K.m/w |

## Current Rating Factors

Rating Factors for variation in Ambient temperature for cables laid in AIR

| Ambient temperature °C    | 20   | 25   | 30  | 35   | 40   | 45   | 50   | 55   |
|---------------------------|------|------|-----|------|------|------|------|------|
| XLPE insulated cable 90°C | 1.06 | 1.02 | 1.0 | 0.96 | 0.91 | 0.87 | 0.82 | 0.76 |
| PVC insulated cable 85°C  | 1.07 | 1.02 | 1.0 | 0.95 | 0.90 | 0.85 | 0.80 | 0.74 |
| PVC insulated cable 70°C  | 1.09 | 1.03 | 1.0 | 0.94 | 0.87 | 0.79 | 0.71 | 0.61 |

Rating factor for variation in Ground temperature for Cable  
Laid Direct in GROUND or in DUCTS

| Ground temperature °C     | 15   | 20  | 25   | 30   | 35   | 40   | 45   | 50   |
|---------------------------|------|-----|------|------|------|------|------|------|
| XLPE insulated cable 90°C | 1.04 | 1.0 | 0.96 | 0.93 | 0.89 | 0.85 | 0.80 | 0.76 |
| PVC insulated cable 85°C  | 1.04 | 1.0 | 0.96 | 0.92 | 0.88 | 0.83 | 0.78 | 0.73 |
| PVC insulated cable 70°C  | 1.05 | 1.0 | 0.95 | 0.89 | 0.84 | 0.77 | 0.71 | 0.63 |

Group Rating Factors for More than one Multicore Armoured or Unarmoured cables laid on Trays,  
Clipped to the surface, run in Trench etc.:

| No. of load conductors | 2   | 3   | 4    | 5   | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   |
|------------------------|-----|-----|------|-----|------|------|------|------|------|------|------|------|
| Correction factors     | 0.8 | 0.7 | 0.65 | 0.6 | 0.57 | 0.52 | 0.48 | 0.45 | 0.43 | 0.41 | 0.39 | 0.38 |

Group Rating Factors for more than Three single core cables laid in conduits buried in Concrete,  
on surface of wall, in Trunking, Racks, etc.

| No. of load conductors | 4   | 6    | 8    | 10   | 12   | 16   | 20   | 24   | 28   | 32   | 36   | 40   |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Correction factors     | 0.8 | 0.69 | 0.62 | 0.59 | 0.55 | 0.51 | 0.48 | 0.43 | 0.41 | 0.39 | 0.38 | 0.36 |

## Current Rating Factors

Rating Factors for Depth of Laying for cables laid Direct in Ground or in Ducts:

| Depth laying | Cables laid Direct in Ground |                                           |                           | Cables laid in Ducts |           |
|--------------|------------------------------|-------------------------------------------|---------------------------|----------------------|-----------|
|              | Upto 50 mm <sup>2</sup>      | 70 mm <sup>2</sup> to 300 mm <sup>2</sup> | Above 300 mm <sup>2</sup> | Single core          | Multicore |
| 0.5          | 1.000                        | 1.000                                     | 1.000                     | 1.000                | 1.000     |
| 0.6          | 0.990                        | 0.985                                     | 0.971                     | 0.980                | 0.990     |
| 0.75         | 0.976                        | 0.965                                     | 0.952                     | 0.958                | 0.987     |
| 0.8          | 0.971                        | 0.960                                     | 0.945                     | 0.950                | 0.979     |
| 1.0          | 0.951                        | 0.930                                     | 0.924                     | 0.930                | 0.960     |
| 1.25         | 0.941                        | 0.920                                     | 0.894                     | 0.900                | 0.950     |
| 1.5          | 0.931                        | 0.901                                     | 0.874                     | 0.891                | 0.940     |
| 1.75         | 0.921                        | 0.890                                     | 0.864                     | 0.880                | 0.940     |
| 2.0          | 0.910                        | 0.880                                     | 0.854                     | 0.871                | 0.930     |
| 2.5          | 0.900                        | 0.871                                     | 0.844                     | 0.860                | 0.930     |
| 3.0 or more  | 0.891                        | 0.849                                     | 0.824                     | 0.851                | 0.920     |

Group Rating Factors for more than One Twin or Multicore Armoured or Unarmoured Cables in Horizontal Formation Laid in Direct Ground:

| No. of cables           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Cables laid touching    | 0.81 | 0.7  | 0.63 | 0.59 | 0.55 | 0.52 | 0.5  | 0.48 | 0.47 | 0.45 | 0.44 |
| Cables laid 15 cm apart | 0.87 | 0.78 | 0.74 | 0.70 | 0.68 | 0.66 | 0.64 | 0.63 | 0.62 | 0.61 | 0.6  |
| Cables laid 30 cm apart | 0.91 | 0.84 | 0.81 | 0.78 | 0.77 | 0.75 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 |
| Cables laid 45 cm apart | 0.93 | 0.88 | 0.86 | 0.84 | 0.83 | 0.82 | 0.81 | 0.81 | 0.8  | 0.8  | 0.8  |
| Cables laid 60 cm apart | 0.95 | 0.9  | 0.89 | 0.87 | 0.87 | 0.86 | 0.86 | 0.85 | 0.85 | 0.85 | 0.84 |

## ■ Current Rating Factors

Rating Factors for variation in Thermal Resistivity of Soil for Two or Three Single-core Cables laid Direct in the Ground

| Nominal Area of Conductor mm <sup>2</sup> | Thermal Resistivity of Soil in k.m/W |      |      |      |     |      |      |      |      |      |      |  |
|-------------------------------------------|--------------------------------------|------|------|------|-----|------|------|------|------|------|------|--|
|                                           | 0.7                                  | 0.8  | 0.9  | 1.0  | 1.2 | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  |  |
| 50                                        | 1.21                                 | 1.16 | 1.11 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |  |
| 70                                        | 1.22                                 | 1.16 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |  |
| 95                                        | 1.22                                 | 1.16 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |  |
| 120                                       | 1.22                                 | 1.16 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |  |
| 150                                       | 1.22                                 | 1.16 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |  |
| 185                                       | 1.22                                 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.62 | 0.59 |  |
| 240                                       | 1.23                                 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.68 | 0.62 | 0.59 |  |
| 300                                       | 1.23                                 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.68 | 0.62 | 0.59 |  |
| 400                                       | 1.23                                 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.67 | 0.62 | 0.58 |  |
| 500                                       | 1.23                                 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.67 | 0.62 | 0.58 |  |
| 630                                       | 1.23                                 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.67 | 0.61 | 0.58 |  |
| 800                                       | 1.23                                 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.72 | 0.66 | 0.61 | 0.58 |  |
| 1000                                      | 1.25                                 | 1.18 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.72 | 0.66 | 0.61 | 0.58 |  |





## Current Rating Factors

Rating Factors for variation in Thermal Resistivity of Soil for Twin or Multi-core Cables laid Direct in the Ground

| Nominal Area of Conductor mm <sup>2</sup> | Thermal Resistivity of Soil in k.m/W |      |      |      |     |      |      |      |      |      |      |
|-------------------------------------------|--------------------------------------|------|------|------|-----|------|------|------|------|------|------|
|                                           | 0.7                                  | 0.8  | 0.9  | 1.0  | 1.2 | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  |
| 1.5/2.5                                   | 1.12                                 | 1.09 | 1.07 | 1.04 | 1.0 | 0.94 | 0.86 | 0.80 | 0.75 | 0.70 | 0.66 |
| 4                                         | 1.13                                 | 1.10 | 1.07 | 1.05 | 1.0 | 0.94 | 0.85 | 0.79 | 0.74 | 0.69 | 0.65 |
| 6                                         | 1.14                                 | 1.10 | 1.07 | 1.05 | 1.0 | 0.93 | 0.85 | 0.79 | 0.74 | 0.68 | 0.64 |
| 10                                        | 1.15                                 | 1.11 | 1.08 | 1.05 | 1.0 | 0.93 | 0.85 | 0.78 | 0.73 | 0.67 | 0.63 |
| 16                                        | 1.16                                 | 1.12 | 1.08 | 1.05 | 1.0 | 0.93 | 0.84 | 0.77 | 0.72 | 0.66 | 0.62 |
| 25                                        | 1.17                                 | 1.13 | 1.09 | 1.05 | 1.0 | 0.93 | 0.83 | 0.77 | 0.71 | 0.65 | 0.61 |
| 35                                        | 1.17                                 | 1.13 | 1.09 | 1.06 | 1.0 | 0.92 | 0.83 | 0.76 | 0.71 | 0.65 | 0.61 |
| 50                                        | 1.17                                 | 1.13 | 1.09 | 1.06 | 1.0 | 0.92 | 0.83 | 0.76 | 0.71 | 0.65 | 0.61 |
| 70                                        | 1.18                                 | 1.14 | 1.09 | 1.06 | 1.0 | 0.92 | 0.83 | 0.75 | 0.70 | 0.64 | 0.60 |
| 95                                        | 1.18                                 | 1.14 | 1.09 | 1.06 | 1.0 | 0.92 | 0.83 | 0.75 | 0.70 | 0.64 | 0.60 |
| 120                                       | 1.19                                 | 1.14 | 1.10 | 1.06 | 1.0 | 0.92 | 0.82 | 0.75 | 0.69 | 0.63 | 0.59 |
| 150                                       | 1.19                                 | 1.14 | 1.10 | 1.06 | 1.0 | 0.92 | 0.82 | 0.75 | 0.69 | 0.63 | 0.59 |
| 185                                       | 1.19                                 | 1.14 | 1.10 | 1.06 | 1.0 | 0.92 | 0.82 | 0.74 | 0.69 | 0.63 | 0.59 |
| 240                                       | 1.20                                 | 1.15 | 1.10 | 1.07 | 1.0 | 0.92 | 0.81 | 0.74 | 0.69 | 0.63 | 0.59 |
| 300                                       | 1.20                                 | 1.15 | 1.10 | 1.07 | 1.0 | 0.92 | 0.81 | 0.74 | 0.69 | 0.63 | 0.59 |
| 400                                       | 1.20                                 | 1.15 | 1.10 | 1.07 | 1.0 | 0.92 | 0.81 | 0.74 | 0.69 | 0.63 | 0.59 |

## ■ Current Rating Factors

Rating Factors for variation in Thermal Resistivity of Soil for Two Single-core Cables in Ducts:

| Nominal<br>Area of<br>Conductor<br>mm <sup>2</sup> | Thermal Resistivity of Soil in k.m/W |      |      |      |      |      |      |      |      |      |      |  |
|----------------------------------------------------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|--|
|                                                    | 0.7                                  | 0.8  | 0.9  | 1.0  | 1.2  | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  |  |
| 50                                                 | 1.08                                 | 1.06 | 1.04 | 1.03 | 1.00 | 0.96 | 0.90 | 0.85 | 0.81 | 0.77 | 0.74 |  |
| 70                                                 | 1.08                                 | 1.06 | 1.05 | 1.03 | 1.00 | 0.96 | 0.90 | 0.84 | 0.80 | 0.76 | 0.73 |  |
| 95                                                 | 1.08                                 | 1.07 | 1.05 | 1.03 | 1.00 | 0.95 | 0.89 | 0.84 | 0.80 | 0.75 | 0.72 |  |
| 120                                                | 1.09                                 | 1.07 | 1.05 | 1.03 | 1.00 | 0.95 | 0.89 | 0.83 | 0.79 | 0.75 | 0.71 |  |
| 150                                                | 1.09                                 | 1.07 | 1.05 | 1.03 | 1.00 | 0.95 | 0.88 | 0.83 | 0.79 | 0.74 | 0.71 |  |
| 185                                                | 1.09                                 | 1.07 | 1.05 | 1.03 | 1.00 | 0.95 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 |  |
| 240                                                | 1.10                                 | 1.08 | 1.05 | 1.04 | 1.00 | 0.95 | 0.88 | 0.82 | 0.78 | 0.73 | 0.70 |  |
| 300                                                | 1.10                                 | 1.08 | 1.06 | 1.04 | 1.00 | 0.95 | 0.87 | 0.82 | 0.77 | 0.72 | 0.69 |  |
| 400                                                | 1.11                                 | 1.08 | 1.06 | 1.04 | 1.00 | 0.94 | 0.87 | 0.82 | 0.77 | 0.72 | 0.68 |  |
| 500                                                | 1.12                                 | 1.08 | 1.06 | 1.04 | 1.00 | 0.94 | 0.87 | 0.81 | 0.76 | 0.71 | 0.68 |  |
| 630                                                | 1.12                                 | 1.09 | 1.06 | 1.04 | 1.00 | 0.94 | 0.87 | 0.81 | 0.76 | 0.71 | 0.67 |  |
| 800                                                | 1.13                                 | 1.10 | 1.07 | 1.04 | 1.00 | 0.94 | 0.86 | 0.80 | 0.75 | 0.71 | 0.67 |  |
| 1000                                               | 1.13                                 | 1.10 | 1.07 | 1.04 | 1.00 | 0.94 | 0.86 | 0.80 | 0.75 | 0.70 | 0.66 |  |



## ▣ Current Rating Factors

Rating Factors for variation in Thermal Resistivity of Soil for Three Single Core cables laid Direct in Ducts:

| Nominal<br>Area of<br>Conductor<br>mm <sup>2</sup> | Thermal Resistivity of Soil in k.m/W |      |      |      |     |      |      |      |      |      |      |
|----------------------------------------------------|--------------------------------------|------|------|------|-----|------|------|------|------|------|------|
|                                                    | 0.7                                  | 0.8  | 0.9  | 1.0  | 1.2 | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  |
| 50                                                 | 1.11                                 | 1.08 | 1.06 | 1.04 | 1.0 | 0.94 | 0.87 | 0.82 | 0.77 | 0.73 | 0.69 |
| 70                                                 | 1.12                                 | 1.09 | 1.06 | 1.04 | 1.0 | 0.94 | 0.87 | 0.81 | 0.76 | 0.72 | 0.68 |
| 95                                                 | 1.12                                 | 1.09 | 1.06 | 1.04 | 1.0 | 0.94 | 0.87 | 0.81 | 0.76 | 0.72 | 0.68 |
| 120                                                | 1.13                                 | 1.10 | 1.07 | 1.04 | 1.0 | 0.94 | 0.86 | 0.80 | 0.75 | 0.72 | 0.67 |
| 150                                                | 1.13                                 | 1.10 | 1.07 | 1.04 | 1.0 | 0.94 | 0.86 | 0.80 | 0.75 | 0.71 | 0.67 |
| 185                                                | 1.13                                 | 1.10 | 1.07 | 1.04 | 1.0 | 0.93 | 0.86 | 0.79 | 0.75 | 0.70 | 0.67 |
| 240                                                | 1.14                                 | 1.11 | 1.07 | 1.04 | 1.0 | 0.93 | 0.86 | 0.79 | 0.74 | 0.70 | 0.66 |
| 300                                                | 1.14                                 | 1.11 | 1.08 | 1.05 | 1.0 | 0.93 | 0.85 | 0.79 | 0.74 | 0.69 | 0.65 |
| 400                                                | 1.14                                 | 1.11 | 1.08 | 1.05 | 1.0 | 0.93 | 0.85 | 0.78 | 0.73 | 0.68 | 0.65 |
| 500                                                | 1.15                                 | 1.11 | 1.08 | 1.05 | 1.0 | 0.93 | 0.85 | 0.78 | 0.73 | 0.68 | 0.64 |
| 630                                                | 1.15                                 | 1.12 | 1.09 | 1.05 | 1.0 | 0.93 | 0.84 | 0.78 | 0.72 | 0.68 | 0.64 |
| 800                                                | 1.16                                 | 1.12 | 1.09 | 1.05 | 1.0 | 0.93 | 0.84 | 0.77 | 0.72 | 0.67 | 0.64 |
| 1000                                               | 1.16                                 | 1.13 | 1.09 | 1.05 | 1.0 | 0.92 | 0.84 | 0.77 | 0.71 | 0.67 | 0.63 |

## Current Rating Factors

Rating factors for variation in Thermal Resistivity of Soil for Twin or Multi-core Cables  
Laid in Single Way Ducts:

| Nominal<br>Area of<br>Conductor<br>mm <sup>2</sup> | Thermal Resistivity of Soil in K.m/W |      |      |      |     |      |      |      |      |      |      |
|----------------------------------------------------|--------------------------------------|------|------|------|-----|------|------|------|------|------|------|
|                                                    | 0.7                                  | 0.8  | 0.9  | 1.0  | 1.2 | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  |
| 1.5/2.5                                            | 1.04                                 | 1.03 | 1.02 | 1.02 | 1.0 | 0.98 | 0.94 | 0.91 | 0.88 | 0.86 | 0.83 |
| 4                                                  | 1.04                                 | 1.04 | 1.03 | 1.02 | 1.0 | 0.97 | 0.94 | 0.90 | 0.87 | 0.85 | 0.82 |
| 6                                                  | 1.05                                 | 1.04 | 1.03 | 1.02 | 1.0 | 0.97 | 0.93 | 0.90 | 0.86 | 0.84 | 0.81 |
| 10                                                 | 1.05                                 | 1.04 | 1.03 | 1.02 | 1.0 | 0.97 | 0.93 | 0.89 | 0.86 | 0.83 | 0.80 |
| 16                                                 | 1.06                                 | 1.04 | 1.03 | 1.02 | 1.0 | 0.97 | 0.92 | 0.88 | 0.85 | 0.82 | 0.79 |
| 25                                                 | 1.06                                 | 1.05 | 1.03 | 1.02 | 1.0 | 0.96 | 0.92 | 0.88 | 0.84 | 0.82 | 0.78 |
| 35                                                 | 1.06                                 | 1.05 | 1.03 | 1.02 | 1.0 | 0.96 | 0.92 | 0.87 | 0.83 | 0.81 | 0.77 |
| 50                                                 | 1.07                                 | 1.05 | 1.03 | 1.02 | 1.0 | 0.96 | 0.91 | 0.87 | 0.83 | 0.80 | 0.77 |
| 70                                                 | 1.07                                 | 1.05 | 1.04 | 1.02 | 1.0 | 0.96 | 0.91 | 0.86 | 0.82 | 0.79 | 0.76 |
| 95                                                 | 1.07                                 | 1.05 | 1.04 | 1.02 | 1.0 | 0.96 | 0.91 | 0.86 | 0.82 | 0.79 | 0.76 |
| 120                                                | 1.08                                 | 1.06 | 1.04 | 1.03 | 1.0 | 0.95 | 0.90 | 0.85 | 0.81 | 0.78 | 0.74 |
| 150                                                | 1.09                                 | 1.06 | 1.04 | 1.03 | 1.0 | 0.95 | 0.90 | 0.85 | 0.80 | 0.77 | 0.73 |
| 185                                                | 1.09                                 | 1.07 | 1.05 | 1.03 | 1.0 | 0.95 | 0.89 | 0.84 | 0.80 | 0.76 | 0.72 |
| 240                                                | 1.09                                 | 1.07 | 1.05 | 1.03 | 1.0 | 0.95 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 |
| 300                                                | 1.10                                 | 1.07 | 1.05 | 1.03 | 1.0 | 0.95 | 0.88 | 0.83 | 0.78 | 0.75 | 0.71 |
| 400                                                | 1.10                                 | 1.07 | 1.05 | 1.03 | 1.0 | 0.95 | 0.88 | 0.83 | 0.78 | 0.75 | 0.71 |

## Short Circuit curves for Copper Conductor PVC 85°C Insulated Cable

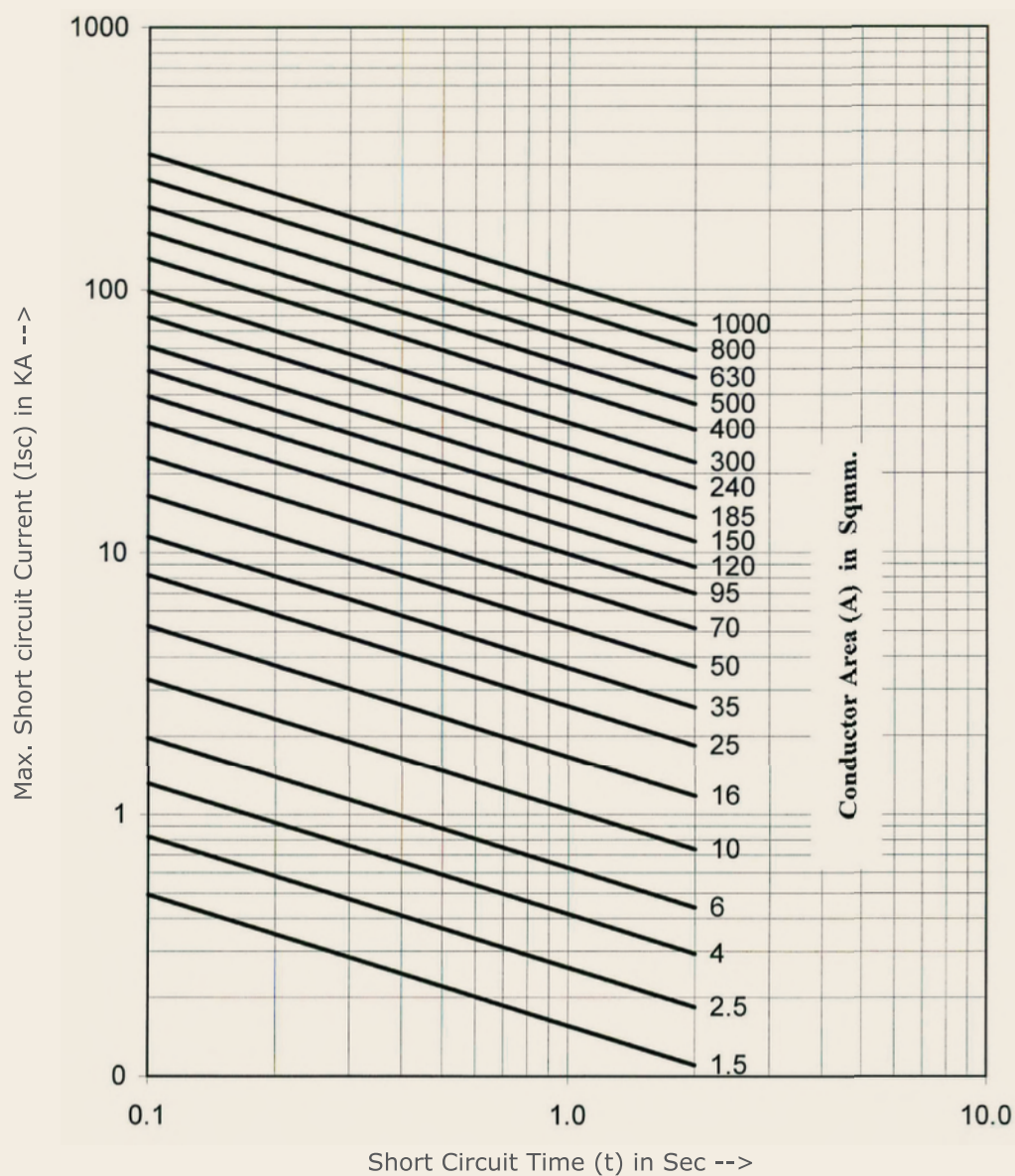
$$I_{sc} = 0.104 \frac{A}{\sqrt{t}}$$

$I_{sc}$  - Short Circuit Current in KA

A - Conductor Area in Sqmm

t - Short Circuit Time in Sec.

Note: Max. Permissible conductor temperature during short circuit = 160°C



## Short Circuit curves for Copper Conductor PVC 70°C Insulated Cable

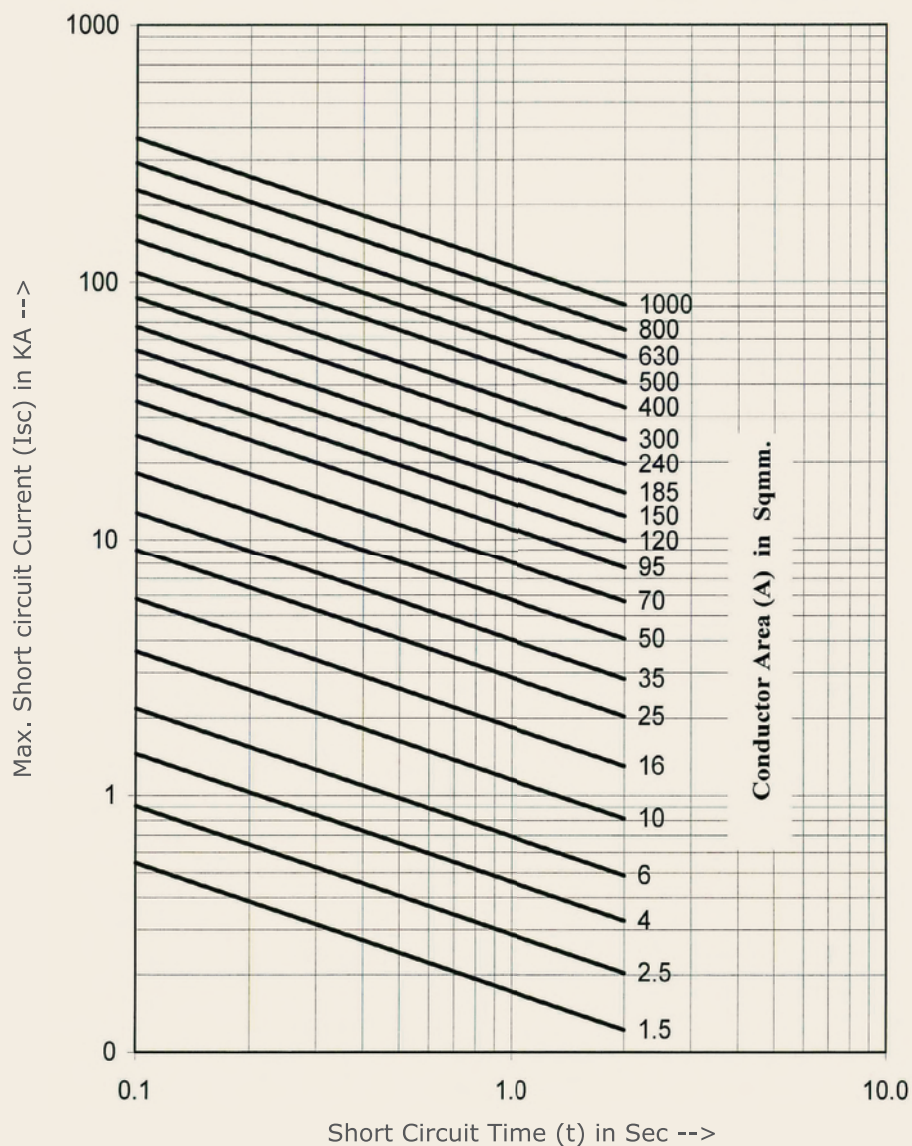
$$I_{sc} = 0.115 \frac{A}{\sqrt{t}}$$

$I_{sc}$  - Short Circuit Current in KA

A - Conductor Area in Sqmm

t - Short Circuit Time in Sec.

Note: Max. Permissible conductor temperature during short circuit = 160°C







## ■ Short Circuit curves for Copper Conductor XLPE Insulated Cable

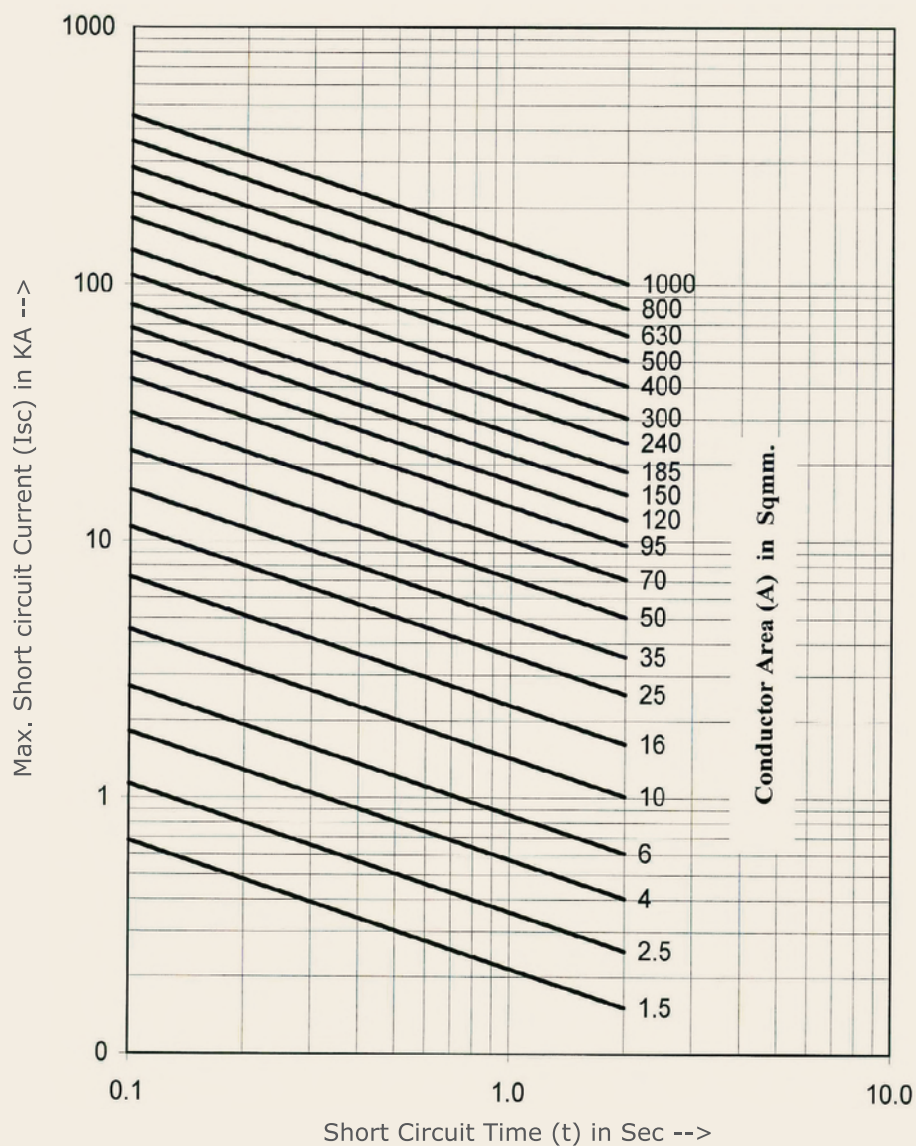
$$I_{sc} = 0.143 \frac{A}{\sqrt{t}}$$

$I_{sc}$  - Short Circuit Current in KA

$A$  - Conductor Area in Sqmm

$t$  - Short Circuit Time in Sec.

Note: Max. Permissible conductor temperature during short circuit = 250°C





## Short Circuit curves for Aluminium Conductor PVC 85°C Insulated Cable

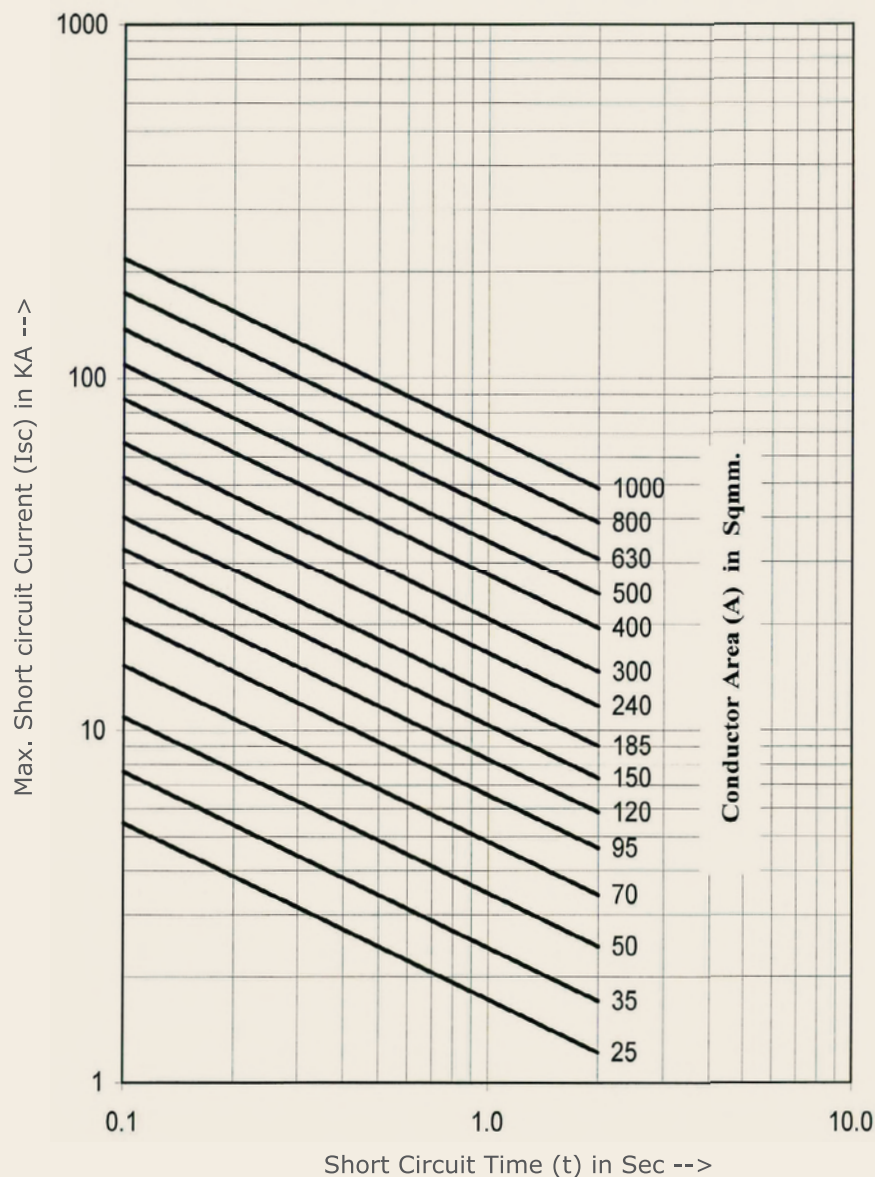
$$I_{sc} = 0.069 \frac{A}{\sqrt{t}}$$

$I_{sc}$  - Short Circuit Current in KA

A - Conductor Area in Sqmm

t - Short Circuit Time in Sec.

Note: Max. Permissible conductor temperature during short circuit = 160°C





■ Short Circuit curves for Aluminium Conductor PVC 70°C Insulated Cable

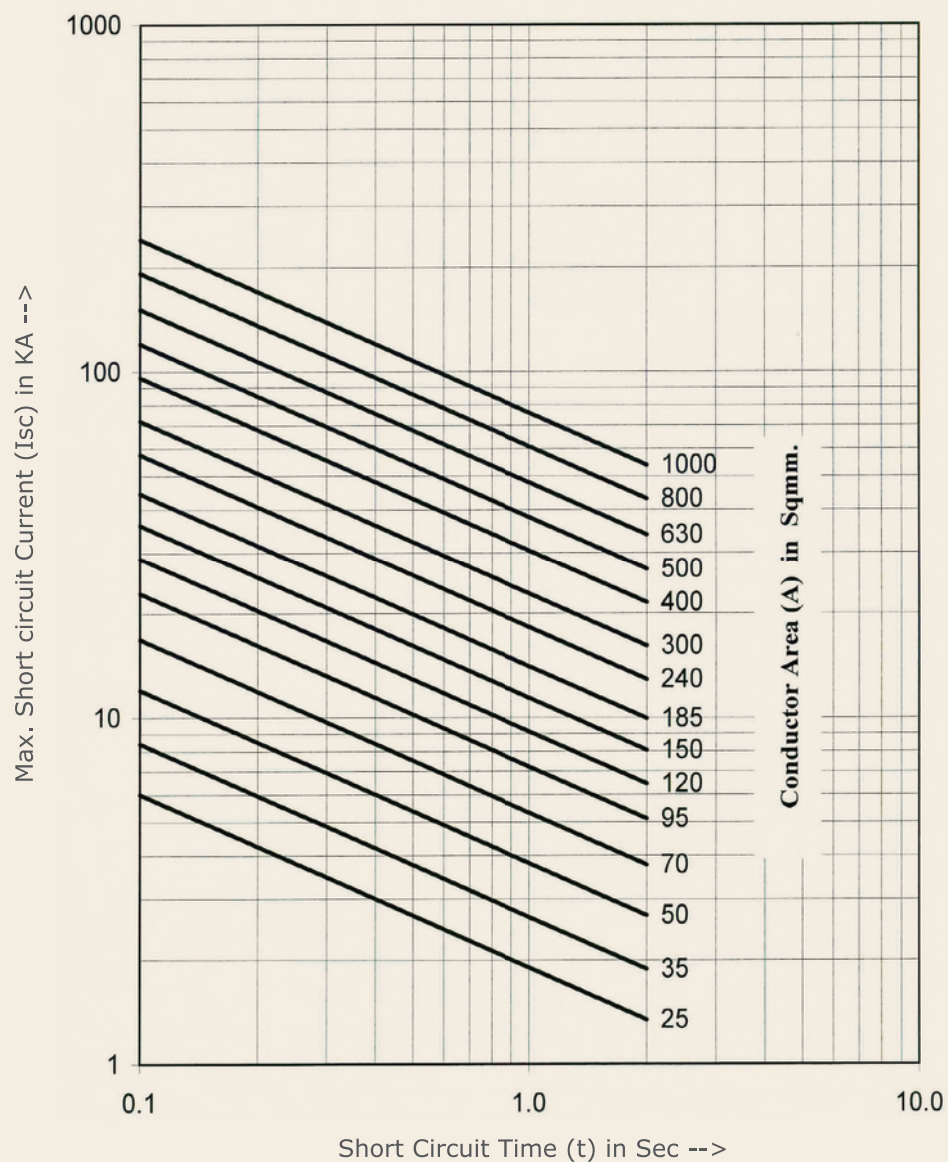
$$I_{sc} = 0.076 \frac{A}{\sqrt{t}}$$

$I_{sc}$  - Short Circuit Current in KA

A - Conductor Area in Sqmm

t - Short Circuit Time in Sec.

Note: Max. Permissible conductor temperature during short circuit = 160°C



## Short Circuit curves for Aluminium Conductor XLPE Insulated Cable

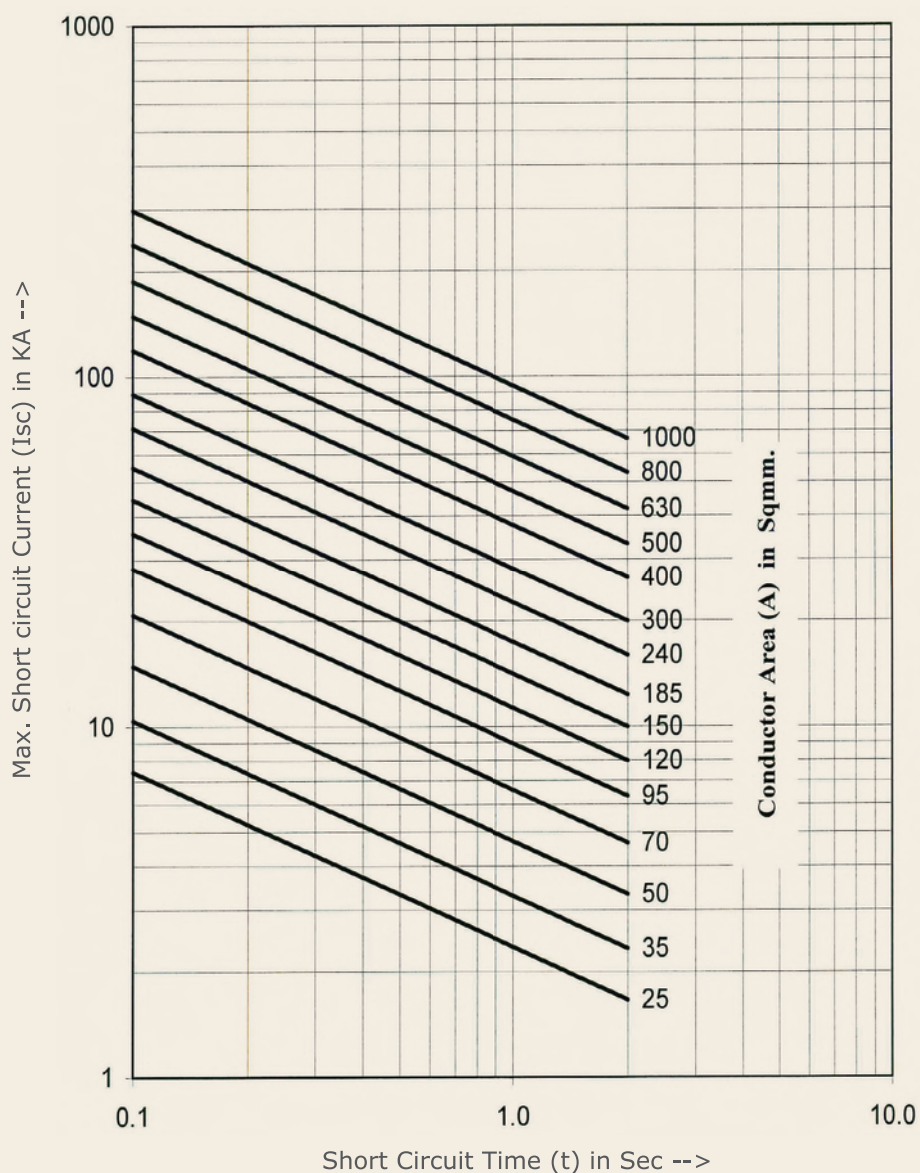
$$I_{sc} = 0.094 \frac{A}{\sqrt{t}}$$

$I_{sc}$  - Short Circuit Current in KA

A - Conductor Area in Sqmm

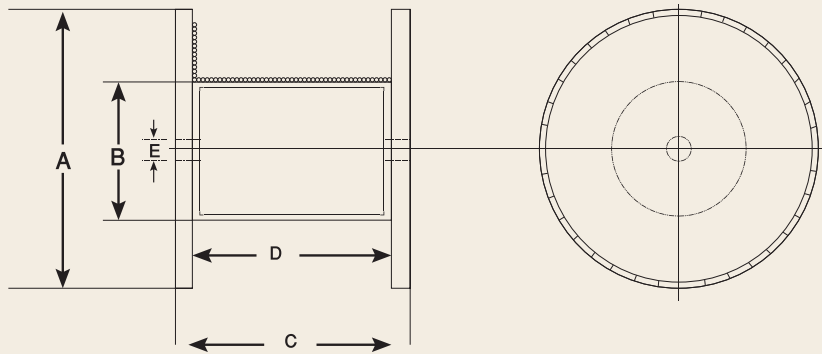
t - Short Circuit Time in Sec.

Note: Max. Permissible conductor temperature during short circuit = 250°C



## DRUM SIZE AND DIMENSIONS

- A-** Flange diameter (Excluding Lagging), mm
- B-** Barrel diameter, mm
- C-** Overall width, mm
- D-** Traverse width, mm
- E-** Minimum spindle hole diameter, mm



### DIMENSIONS

| Drum size<br>D-No | A    | B    | C    | D    | E   |
|-------------------|------|------|------|------|-----|
| D-6               | 600  | 250  | 470  | 400  | 110 |
| D-7               | 700  | 325  | 570  | 500  | 110 |
| D-8               | 800  | 375  | 570  | 500  | 110 |
| D-9               | 900  | 425  | 620  | 550  | 110 |
| D-10              | 1000 | 500  | 690  | 600  | 110 |
| D-11              | 1100 | 575  | 740  | 650  | 110 |
| D-12              | 1200 | 675  | 950  | 850  | 110 |
| D-14              | 1400 | 800  | 950  | 850  | 110 |
| D-16              | 1600 | 950  | 970  | 850  | 110 |
| D-18              | 1800 | 1100 | 1220 | 1100 | 110 |
| D-19              | 1900 | 1100 | 1230 | 1100 | 110 |
| D-20              | 2000 | 1300 | 1235 | 1100 | 110 |
| D-21              | 2100 | 1150 | 1290 | 1100 | 110 |
| D-22              | 2200 | 1400 | 1390 | 1250 | 110 |
| D-23              | 2340 | 1200 | 1795 | 1625 | 110 |
| D-24              | 2400 | 1200 | 1795 | 1625 | 110 |
| D-25-S            | 2540 | 1200 | 1825 | 1625 | 110 |
| D-25              | 2540 | 1400 | 1800 | 1625 | 110 |
| D-26              | 2600 | 1400 | 1970 | 1800 | 110 |

Drum dimensions in actual deliveries are subject to change without notice.

# NOTES