

## Multicore Cables, with Stranded Copper Conductors, XLPE Insulated, Armored by Steel Wires and PVC Sheathed

### 0.6/1 (1.2) kV



#### (a) Description

- Multicore cables of stranded Copper conductors are insulated with a XLPE compound, assembled together, armored with steel wires and covered with an overall jacket of a PVC compound.
- Cables are produced according to IEC 60502.

#### (b) Application

- For outdoor installations in damp and wet locations where mechanical damages are expected to occur.

#### (c) Technical data

|                         |  |
|-------------------------|--|
| Relevant Standard:      | IEC 60502 Part 1.  |
| Conductor :             | Plain annealed Copper, Class 2 according to IEC 60228.   |
| Insulation :            | Cross Linked Polyethylene Compound (XLPE).   |
| Colour Code :           | Two cores : Red and Black.<br>Three cores : Red, Yellow and Blue.<br>Four cores : Red, Yellow, Blue and Black. |
| Laying up :             | Cores twisted together with filling elements if necessary.   |
| Wrapping :              | At least 1 layer of Polypropylene Tape.  |
| Bedding :               | PVC.   |
| Aarmor :                | Galvanized Steel Wires Armor.  |
| Outer Jacket :          | PVC.   |
| Temperature Range :     | 15- °C up to + 90 °C during operation.   |
| Minimum Bending Radius: | 15 x cable outer diameter (ø).   |
| Packing Condition :     | On non-returnable wooden drum.   |



# Low Voltage Power Cables

## (d) Product Data

| Nominal Cross Sectional Area | Max. Conductor Resistance |               | Current Rating     |               |                      | Approx. Overall Diameter | Approx. Weight |
|------------------------------|---------------------------|---------------|--------------------|---------------|----------------------|--------------------------|----------------|
|                              | DC at 20 °C               | "AC at 90 °C" | "Direct in Ground" | Laid in Ducts | "Direct in Free Air" |                          |                |
| mm <sup>2</sup>              | Ω/km                      | Ω/km          | A                  | A             | A                    | mm                       | kg/km          |

### Two Core Cables

|      |        |        |     |     |     |      |      |
|------|--------|--------|-----|-----|-----|------|------|
| 25 r | 0.7270 | 0.9270 | 153 | 118 | 154 | 24.1 | 1410 |
| 35 r | 0.5240 | 0.6690 | 183 | 147 | 185 | 26.3 | 1715 |

### Three Core Cables

|      |        |        |     |     |     |      |      |
|------|--------|--------|-----|-----|-----|------|------|
| 25 r | 0.7270 | 0.9270 | 142 | 112 | 132 | 25.8 | 1620 |
| 35 r | 0.5240 | 0.6690 | 172 | 133 | 162 | 28.2 | 1990 |

### Four Core Cables

|       |        |        |     |     |     |      |       |
|-------|--------|--------|-----|-----|-----|------|-------|
| 25 r  | 0.7270 | 0.9270 | 142 | 112 | 134 | 27.8 | 1975  |
| 35 r  | 0.5240 | 0.6690 | 172 | 133 | 162 | 30.7 | 2465  |
| 50 s  | 0.3870 | 0.4940 | 202 | 158 | 202 | 33.1 | 3200  |
| 70 s  | 0.2680 | 0.3430 | 240 | 196 | 242 | 39.2 | 4645  |
| 95 s  | 0.1930 | 0.2480 | 289 | 229 | 300 | 42.9 | 5870  |
| 120 s | 0.1530 | 0.1970 | 332 | 267 | 347 | 48.4 | 7555  |
| 150 s | 0.1240 | 0.1600 | 365 | 300 | 413 | 53.1 | 8985  |
| 185 s | 0.0991 | 0.1290 | 409 | 338 | 451 | 57.9 | 10760 |
| 240 s | 0.0754 | 0.0990 | 474 | 398 | 537 | 64.1 | 13480 |
| 300 s | 0.0601 | 0.0810 | 534 | 441 | 618 | 69.7 | 16215 |
| 400 s | 0.0470 | 0.0642 | 596 | 500 | 697 | 76.8 | 20190 |

### Four Core Cables with Reduced Neutral

|               |               |               |     |     |     |      |       |
|---------------|---------------|---------------|-----|-----|-----|------|-------|
| 35 r + 16 r   | 0.5240/1.1500 | 0.6690/1.4700 | 172 | 133 | 162 | 28.9 | 2210  |
| 50 s + 25 r   | 0.3870/0.7270 | 0.4940/0.9270 | 202 | 158 | 202 | 31.3 | 2860  |
| 70 s + 35 r   | 0.2680/0.5240 | 0.3430/0.6690 | 240 | 196 | 242 | 37.5 | 4240  |
| 95 s + 50 s   | 0.1930/0.3870 | 0.2480/0.4940 | 289 | 229 | 300 | 41.2 | 5290  |
| 120 s + 70 s  | 0.1530/0.2680 | 0.1970/0.3430 | 332 | 267 | 347 | 45.3 | 6475  |
| 150 s + 70 s  | 0.1240/0.2680 | 0.1600/0.3430 | 365 | 300 | 413 | 50.5 | 8055  |
| 185 s + 95 s  | 0.0991/0.1930 | 0.1290/0.2480 | 409 | 338 | 451 | 55.4 | 9735  |
| 240 s + 120 s | 0.0754/0.1530 | 0.0990/0.1970 | 474 | 398 | 537 | 60.3 | 11780 |
| 300 s + 150 s | 0.0601/0.1240 | 0.0810/0.1600 | 534 | 441 | 618 | 66.4 | 14435 |
| 400 s + 240 s | 0.0470/0.0754 | 0.0642/0.099  | 596 | 500 | 697 | 72.7 | 18500 |

The above data is approximate and subjected to manufacturing tolerance.

r : round, Stranded  
s : Sector, Stranded

