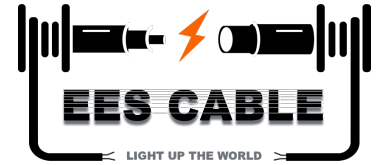


0.6/1 kV Multi-core cables, PVC insulated, tape armoured with aluminum conductor

## Power Cable LV



Multi-Core Cables, with Stranded Aluminium Conductors, PVC Insulated, Steel Tape Armoured and PVC Sheathed

### APPLICATIONS

These cables are intended for fixed installations, indoors and outdoors, in low voltage electricity systems. They are normally used for the distribution of electrical energy in urban networks, power or switching stations, industrial plants, as well as in switchgears, in applications where there is a risk of mechanical damage.

### CABLE CHARACTERISTICS



### APPLICABLE STANDARDS

EES Low Voltage power cables are designed and tested to meet all the requirements of the latest edition of IEC 60502-1 standard. In addition, EES can also supply a range of alternative designs to meet customer-specified requirements.

### CABLE CONSTRUCTION

#### Conductor

Stranded circular (rm) or sector shaped (sm) aluminium conductor (Class 2 to IEC 60228).

#### Insulation

Extruded layer of Polyvinyl Chloride (PVC) - Type (PVC/A) to IEC 60502-1.

#### Core Identification

- ○ Red, Black
- ○ ○ Red, Yellow, Blue
- ○ ○ ○ Red, Yellow, Blue, Black

#### Assembly

Cores are assembled together using Non-hygroscopic filler, if needed.

#### Bedding

Extruded layer of Polyvinyl Chloride (PVC) - Type (ST1) to IEC 60502-1.

#### Armouring

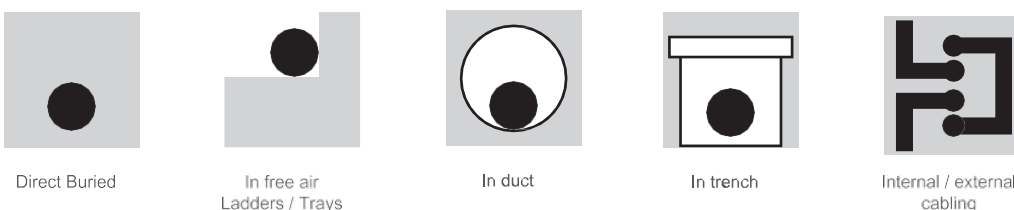
Double layers of galvanized steel tapes.

#### Outer Jacket

Extruded layer of Polyvinyl Chloride (PVC) - Type (ST1) to IEC 60502-1.

Note: The core identification colours shown above are the most common. However, any other colours can be provided upon a customer's request (e.g. to HD 308 S2 or IEC 60445).

### CABLE INSTALLATION



0.6/1 kV Multi-core cables, PVC insulated, tape armoured with aluminum conductor  
**Power Cable LV**



**POWER CABLES / IEC 60502-1 AL / PVC / STA (DST) / PVC**

**0.6 / 1 kV**

| Nominal cross sectional area                 | ELECTRICAL DATA           |                 |                            |               |                  |                          | DIMENSIONS AND WEIGHTS |       | Cable Code         |
|--|---------------------------|-----------------|----------------------------|---------------|------------------|--------------------------|------------------------|-------|--------------------|
|  | Max. Conductor Resistance |                 | Continuous Current Ratings |               |                  | Approx. overall diameter | Approx. overall weight |       |                    |
|  | DC at 20 °C               | AC at 70 °C     | Laid in ground             | Laid in ducts | Laid in free air |                          |                        |       |                    |
| mm <sup>2</sup>                              | Ω / km                    | Ω / km          | A                          | A             | A                | mm                       | kg / km                |       |                    |
| <b>Two Core Cables</b>                       |                           |                 |                            |               |                  |                          |                        |       |                    |
| 10   | rm                        | 3.0800          | 3.7007                     | 57            | 42               | 50                       | 17.8                   | 480   | A314PA1020GCB01IMR |
| 16   | rm                        | 1.9100          | 2.2950                     | 74            | 55               | 67                       | 19.8                   | 590   | A315PA1020GCB01IMR |
| 25   | rm                        | 1.2000          | 1.4421                     | 96            | 72               | 89                       | 22.4                   | 765   | A316PA1020GCB01IMR |
| 35   | rm                        | 0.8680          | 1.0433                     | 114           | 87               | 109                      | 25.0                   | 945   | A317PA1020GCB01IMR |
| <b>Three Core Cables</b>                     |                           |                 |                            |               |                  |                          |                        |       |                    |
| 10   | rm                        | 3.0800          | 3.7007                     | 47            | 34               | 42                       | 19.2                   | 505   | A314PA1030GCB04IMR |
| 16   | rm                        | 1.9100          | 2.2950                     | 61            | 45               | 56                       | 21.4                   | 625   | A315PA1030GCB04IMR |
| 25   | rm                        | 1.2000          | 1.4421                     | 79            | 59               | 75                       | 24.1                   | 795   | A316PA1030GCB04IMR |
| 35   | sm                        | 0.8680          | 1.0433                     | 88            | 66               | 82                       | 24.0                   | 865   | A417PA1030GCB04IMR |
| 50   | sm                        | 0.6410          | 0.7707                     | 105           | 80               | 101                      | 27.6                   | 1100  | A418PA1030GCB04IMR |
| 70   | sm                        | 0.4430          | 0.5331                     | 128           | 100              | 126                      | 31.1                   | 1410  | A419PA1030GCB04IMR |
| 95   | sm                        | 0.3200          | 0.3856                     | 155           | 122              | 157                      | 36.7                   | 2165  | A445PA1030GCB04IMF |
| 120  | sm                        | 0.2530          | 0.3055                     | 175           | 139              | 180                      | 38.6                   | 2490  | A446PA1030GCB04IMF |
| <b>Four Core Cables</b>                      |                           |                 |                            |               |                  |                          |                        |       |                    |
| 10   | rm                        | 3.0800          | 3.7007                     | 47            | 34               | 42                       | 20.7                   | 605   | A314PA1040GCB08IMR |
| 16   | rm                        | 1.9100          | 2.2950                     | 61            | 45               | 56                       | 23.1                   | 735   | A315PA1040GCB08IMR |
| 25   | rm                        | 1.2000          | 1.4421                     | 79            | 59               | 75                       | 26.2                   | 960   | A316PA1040GCB08IMR |
| 35   | sm                        | 0.8680          | 1.0433                     | 88            | 66               | 82                       | 27.3                   | 1080  | A417PA1040GCB08IMR |
| 50   | sm                        | 0.6410          | 0.7707                     | 105           | 80               | 101                      | 32.1                   | 1435  | A418PA1040GCB08IMR |
| 70   | sm                        | 0.4430          | 0.5331                     | 128           | 100              | 126                      | 36.9                   | 2115  | A419PA1040GCB08IMR |
| 95   | sm                        | 0.3200          | 0.3856                     | 155           | 122              | 157                      | 40.8                   | 2685  | A445PA1040GCB08IMF |
| 120  | sm                        | 0.2530          | 0.3055                     | 175           | 139              | 180                      | 44.6                   | 3190  | A446PA1040GCB08IMF |
| 150  | sm                        | 0.2060          | 0.2494                     | 196           | 158              | 206                      | 49.3                   | 3820  | A447PA1040GCB08IMF |
| 185  | sm                        | 0.1640          | 0.1994                     | 222           | 181              | 237                      | 54.5                   | 4615  | A448PA1040GCB08IMS |
| 240  | sm                        | 0.1250          | 0.1533                     | 257           | 212              | 281                      | 61.0                   | 5770  | A449PA1040GCB08IMS |
| 300  | sm                        | 0.1000          | 0.1240                     | 290           | 242              | 323                      | 67.1                   | 6905  | A450PA1040GCB08IMS |
| 400  | sm                        | 0.0778          | 0.0984                     | 333           | 281              | 378                      | 76.1                   | 8695  | A451PA1040GCB08IMS |
| 500  | sm                        | 0.0605          | 0.0789                     | 377           | 322              | 436                      | 85.0                   | 11430 | A452PA1040GCB08IMS |
| <b>Four Core Cables with Reduced Neutral</b> |                           |                 |                            |               |                  |                          |                        |       |                    |
| 50sm   | 25rm                      | 0.6410 / 1.2000 | 0.7707 / 1.4421            | 105           | 80               | 101                      | 31.5                   | 1330  | A436PA1040GCB08IMR |
| 70sm   | 35sm                      | 0.4430 / 0.8680 | 0.5331 / 1.0433            | 128           | 100              | 126                      | 34.1                   | 1640  | A437PA1040GCB08IMR |
| 95sm   | 50sm                      | 0.3200 / 0.6410 | 0.3856 / 0.7707            | 155           | 122              | 157                      | 39.1                   | 2455  | A438PA1040GCB08IMR |
| 120sm  | 70sm                      | 0.2530 / 0.4430 | 0.3055 / 0.5331            | 175           | 139              | 180                      | 42.9                   | 2960  | A439PA1040GCB08IMF |
| 150sm  | 70sm                      | 0.2060 / 0.4430 | 0.2494 / 0.5331            | 196           | 158              | 206                      | 46.9                   | 3445  | A440PA1040GCB08IMF |
| 185sm  | 95sm                      | 0.1640 / 0.3200 | 0.1994 / 0.3856            | 222           | 181              | 237                      | 51.6                   | 4140  | A441PA1040GCB08IMF |
| 240sm  | 120sm                     | 0.1250 / 0.2530 | 0.1533 / 0.3055            | 257           | 212              | 281                      | 58.0                   | 5150  | A442PA1040GCB08IMS |
| 300sm  | 150sm                     | 0.1000 / 0.2060 | 0.1240 / 0.2494            | 290           | 242              | 323                      | 63.8                   | 6185  | A443PA1040GCB08IMS |
| 400sm  | 185sm                     | 0.0778 / 0.1640 | 0.0984 / 0.1994            | 333           | 281              | 378                      | 72.1                   | 7790  | A444PA1040GCB08IMS |
| 500sm  | 240sm                     | 0.0605 / 0.1250 | 0.0789 / 0.1533            | 377           | 322              | 436                      | 80.7                   | 10220 | A466PA1040GCB08IMS |