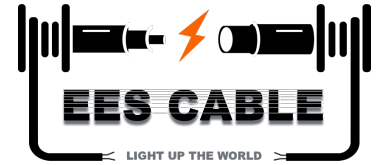


0.6/1 kV Single-core cables, PVC insulated, wire armoured with copper conductor

Power Cable LV



Single-Core Cables, with Stranded Copper Conductors, PVC Insulated, Aluminium Wire 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



Max. Operating temperature



Max. Shortcircuit temperature



Flame propagation IEC 60332-1-2



Oil resistant ASTM D 1047



Mechanical impact Very Good



UV Resistant



Min. bending radius (r) = 12Ø

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

Plain annealed stranded circular or circular compacted copper conductor (Class 2 to IEC 60228).

Insulation

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

Core Identification

○ Red

Bedding

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

Armouring

Single layer of round non-magnetic (aluminium) wires.

Outer Jacket

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

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

CABLE INSTALLATION



Direct Buried



In free air Ladders / Trays



In duct



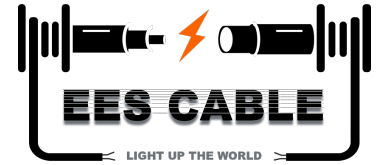
In trench



Internal / external cabling



0.6/1 kV Single-core cables, PVC insulated, wire
armoured with copper conductor
Power Cable LV



POWER CABLES / IEC 60502-1 CU / PVC / AWA / 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 | Buried direct in ground | | In buried ducts | | In free air | | | | | |
| | mm ² | Ω / km | Ω / km | (a) | (b) | (c) | (d) | (e) | (f) | (g) | mm | |
| | | | A | A | A | A | A | A | A | | | |
| 6 | 3.0800 | 3.6853 | 48 | 48 | 40 | 44 | 45 | 46 | 56 | 13.6 | 280 | C213PA1010ACB51MR |
| 10 | 1.8300 | 2.1897 | 63 | 63 | 53 | 58 | 60 | 62 | 75 | 14.2 | 330 | C314PA1010ACB51MR |
| 16 | 1.1500 | 1.3761 | 81 | 81 | 68 | 74 | 79 | 81 | 99 | 15.2 | 410 | C315PA1010ACB51MR |
| 25 | 0.7270 | 0.8701 | 104 | 104 | 87 | 95 | 104 | 106 | 129 | 16.8 | 540 | C316PA1010ACB51MR |
| 35 | 0.5240 | 0.6273 | 124 | 123 | 104 | 113 | 127 | 129 | 156 | 18.0 | 665 | C317PA1010ACB51MR |
| 50 | 0.3870 | 0.4635 | 146 | 145 | 123 | 132 | 153 | 155 | 185 | 19.6 | 825 | C318PA1010ACB51MR |
| 70 | 0.2680 | 0.3214 | 177 | 176 | 151 | 161 | 190 | 193 | 229 | 21.4 | 1065 | C319PA1010ACB51MR |
| 95 | 0.1930 | 0.2320 | 209 | 208 | 181 | 189 | 232 | 233 | 272 | 23.4 | 1370 | C345PA1010ACB51MR |
| 120 | 0.1530 | 0.1844 | 236 | 233 | 205 | 212 | 266 | 265 | 307 | 24.9 | 1640 | C346PA1010ACB51MR |
| 150 | 0.1240 | 0.1501 | 263 | 259 | 229 | 234 | 302 | 299 | 340 | 26.8 | 1960 | C347PA1010ACB51MR |
| 185 | 0.0991 | 0.1208 | 293 | 287 | 258 | 258 | 345 | 337 | 379 | 29.1 | 2380 | C348PA1010ACB51MR |
| 240 | 0.0754 | 0.0933 | 333 | 324 | 296 | 287 | 402 | 386 | 425 | 32.0 | 3010 | C349PA1010ACB51MR |
| 300 | 0.0601 | 0.0757 | 363 | 349 | 325 | 303 | 452 | 422 | 454 | 35.8 | 3755 | C350PA1010ACB51MR |
| 400 | 0.0470 | 0.0611 | 397 | 380 | 360 | 326 | 508 | 464 | 493 | 39.4 | 4740 | C351PA1010ACB51MR |
| 500 | 0.0366 | 0.0499 | 432 | 410 | 395 | 348 | 568 | 507 | 535 | 43.4 | 5965 | C352PA1010ACB51MF |
| 630 | 0.0283 | 0.0415 | 465 | 438 | 429 | 368 | 627 | 547 | 574 | 47.4 | 7395 | C353PA1010ACB51MF |
| 800 | 0.0221 | 0.0352 | 477 | 452 | 444 | 382 | 664 | 572 | 613 | 52.7 | 9480 | C354PA1010ACB51MF |
| 1000 | 0.0176 | 0.0312 | 503 | 476 | 475 | 408 | 729 | 623 | 678 | 61.5 | 11840 | C255PA1010ACB51MF |

