

Building wires



PVC Insulated, single core cables with copper conductor

Standards: EN 50525-2-31, DIN EN 50525-2-31 (VDE 0285-525-2-31), IEC 60227, BS EN 50525-2-31, SI 60227 Part 3

Technical Data

Max. operating temperature: 70 °C

Max. short circuit temperature: 160 °C (max. 5 sec.)

Rated voltage: 300/500 V | 450/750 V

Application

In dry rooms, switch and distribution boards, for laying in conduit on and under plaster and on insulating supports above plaster.

RE: Single conductor wire *RM:* Stranded Conductor

Construction

- ① Solid or stranded copper conductor ② PVC insulation

| DIMENSION AND WEIGHTS | | | ELECTRICAL PROPERTIES | | | |
|-----------------------|---------------------------|---------------------|-----------------------|--------------------------------------|--|---|
| Nominal Cross Section | Overall Diameter (approx) | Net Weight (approx) | Delivery Length | DC Conductor Resistance at 20 °C Max | Current Carrying Capacity (A) In ground at 20 °C | Current Carrying Capacity (A) In air at 30 °C |
| mm ² | mm | kg/km | m | ohm/km | | |
| 0,5 * RE | 2,1 | 8 | 100 | 36,0 | - | 9 |
| 0,75 * RE | 2,3 | 11 | 100 | 24,5 | - | 15 |
| 1,0 * RE | 2,5 | 14 | 100 | 18,1 | 11 | 19 |
| 1,5RE | 2,8 | 20 | 100 | 12,1 | 15 | 24 |
| 2,5RE | 3,3 | 31 | 100 | 7,41 | 20 | 32 |
| 4RE | 3,8 | 46 | 100 | 4,61 | 25 | 42 |
| 6RE | 4,3 | 65 | 100 | 3,08 | 33 | 54 |
| 10RE | 5,6 | 108 | 100 | 1,83 | 45 | 73 |
| 10RM | 6,0 | 111 | 100 | 1,83 | 45 | 73 |
| 16RM | 7,0 | 170 | 1000 | 1,15 | 61 | 98 |
| 25RM | 8,5 | 260 | 1000 | 0,727 | 83 | 129 |
| 35RM | 9,5 | 355 | 1000 | 0,524 | 103 | 158 |
| 50RM | 11,0 | 490 | 1000 | 0,387 | 132 | 198 |
| 70RM | 13,0 | 694 | 1000 | 0,268 | 165 | 245 |
| 95RM | 15,0 | 938 | 1000 | 0,193 | 197 | 292 |
| 120RM | 16,5 | 1172 | 1000 | 0,153 | 235 | 344 |
| 150RM | 18,0 | 1465 | 1000 | 0,124 | - | 391 |
| 185RM | 20,0 | 1808 | 1000 | 0,0991 | - | 448 |
| 240RM | 23,0 | 2343 | 1000 | 0,0754 | - | 528 |
| 300RM | 26,0 | 2900 | 1000 | 0,0601 | - | 605 |