

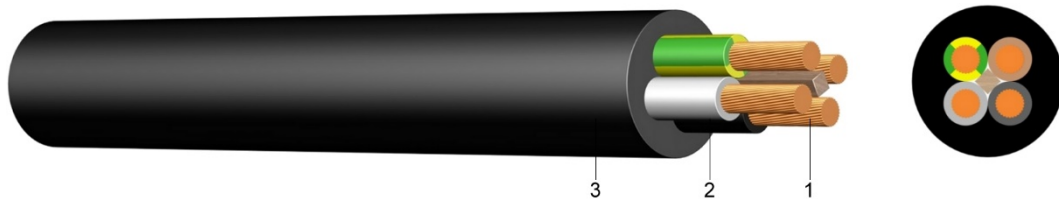
RV-K E_{ca}

Flexible power and control cable, 0,6/1 kV
+90 °C service temperature, flame retardant, UV resistant
IEC 60502-1 , UNE 21123 and EN 50575

Application

Flexible power and control cable for fixed installations in industrial or domestic environment and public buildings. Particularly suitable for installations with limited room and/or with a lot of bends with short radius.
It can be buried or installed in conduit as well as outdoors without requiring additional protection.

Construction



1. Conductor: Copper conductor, bare, flexible (class 5)
2. Insulation: XLPE insulation
Identification: According to HD 308 S2
3. Core covering: Tape or filler (optional)
4. Outer sheath: PVC

Technical information

| | |
|---|--------------------------|
| Operating voltage | 0,6/1 kV |
| Max. permissible temperature at conductor | 90 °C |
| Max. short circuit temperature of the conductor | 250 °C |
| Installation temperature | 0 °C to 50 °C |
| Operating temperature | -15 °C to 90 °C |
| Min. bending radius mm | 5 x outer diameter in mm |

Safety parameters

Reaction to fire EN 50399 E_{ca}

Flame spread single cable IEC 60332-1-2

Additional parameters

UV resistant

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| N° of cores and cross section mm ² | Outer diameter approx. mm | Current rating air 30 °C A max. | Current rating directly buried 20 °C A max. | Weight approx. kg/km |
|--|------------------------------|---------------------------------------|---|-------------------------|
| 1 x 1,5 | 5,7 | 23 | 22 | 45 |
| 1 x 2,5 | 6,1 | 29 | 29 | 55 |
| 1 x 4 | 6,7 | 40 | 37 | 70 |
| 1 x 6 | 7,2 | 53 | 46 | 90 |
| 1 x 10 | 8,2 | 74 | 61 | 135 |
| 1 x 16 | 9,2 | 101 | 79 | 190 |
| 1 x 25 | 10,8 | 135 | 101 | 285 |
| 1 x 35 | 11,9 | 169 | 122 | 385 |
| 1 x 50 | 13,5 | 207 | 144 | 520 |
| 1 x 70 | 15,6 | 268 | 178 | 715 |
| 1 x 95 | 17,4 | 328 | 211 | 925 |
| 1 x 120 | 19,4 | 383 | 240 | 1165 |
| 1 x 150 | 21,4 | 444 | 271 | 1450 |
| 1 x 185 | 23,9 | 510 | 304 | 1750 |
| 1 x 240 | 26,9 | 607 | 351 | 2280 |
| 1 x 300 | 29,6 | 703 | 396 | 2830 |
| 1 x 400 | 33,8 | 823 | 464 | 3735 |
| 1 x 500 | 37,4 | 946 | 525 | 4780 |
| 1 x 630 | 42,7 | 1088 | 596 | 6280 |
| 2 x 1,5 | 8,2 | 26 | 26 | 90 |
| 2 x 2,5 | 9,2 | 36 | 34 | 120 |
| 2 x 4 | 10,3 | 49 | 44 | 165 |
| 2 x 6 | 11,3 | 63 | 56 | 215 |
| 2 x 10 | 13,2 | 86 | 73 | 320 |
| 3 G 1,5 | 9,0 | 26 | 26 | 110 |
| 3 G 2,5 | 9,9 | 36 | 34 | 145 |
| 3 G 4 | 11,1 | 49 | 44 | 200 |
| 3 G 6 | 12,3 | 63 | 56 | 265 |
| 3 G 10 | 14,3 | 86 | 73 | 405 |
| 3 x 16 | 16,5 | 100 | 79 | 595 |
| 3 x 25 | 20,0 | 127 | 101 | 955 |
| 3 x 35 | 23,3 | 158 | 122 | 1275 |
| 3 x 50 | 24,9 | 192 | 144 | 1750 |
| 3 x 70 | 29,2 | 246 | 178 | 2370 |
| 3 x 95 | 32,5 | 298 | 211 | 3140 |
| 3 x 120 | 36,7 | 346 | 240 | 4115 |
| 3 x 150 | 40,6 | 399 | 271 | 5130 |
| 3 x 185 | 44,3 | 456 | 304 | 6285 |
| 3 x 16 + 1 x 10 | 17,6 | 100 | 79 | 695 |
| 3 x 25 + 1 x 16 | 22,7 | 127 | 101 | 1140 |
| 3 x 35 + 1 x 16 | 25,0 | 158 | 122 | 1465 |
| 3 x 50 + 1 x 25 | 29,1 | 192 | 144 | 2035 |
| 3 x 70 + 1 x 35 | 33,8 | 246 | 178 | 2835 |
| 3 x 95 + 1 x 50 | 38,2 | 298 | 211 | 3705 |
| 3 x 120 + 1 x 70 | 42,1 | 346 | 240 | 4825 |
| 3 x 150 + 1 x 70 | 46,8 | 399 | 271 | 5780 |
| 3 x 185 + 1 x 95 | 53,5 | 456 | 304 | 7205 |
| 3 x 240 + 1 x 120 | 60,4 | 538 | 351 | 9310 |

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| N° of cores and cross section mm ² | Outer diameter approx. mm | Current rating air 30 °C A max. | Current rating directly buried 25 °C A max. | Weight approx. kg/km |
|--|------------------------------|---------------------------------------|---|-------------------------|
| 4 G 1,5 | 9,7 | 23 | 22 | 130 |
| 4 G 2,5 | 10,7 | 32 | 29 | 175 |
| 4 G 4 | 12,0 | 42 | 37 | 245 |
| 4 G 6 | 13,4 | 54 | 46 | 330 |
| 4 G 10 | 15,7 | 75 | 61 | 505 |
| 4 x 16 | 18,2 | 100 | 79 | 750 |
| 4 x 25 | 24,1 | 127 | 101 | 1245 |
| 4 x 35 | 26,3 | 158 | 122 | 1675 |
| 4 x 50 | 31,3 | 192 | 144 | 2315 |
| 4 x 70 | 36,1 | 246 | 178 | 3205 |
| 4 x 95 | 40,2 | 298 | 211 | 4130 |
| 4 x 120 | 44,6 | 346 | 240 | 5245 |
| 4 x 150 | 49,8 | 399 | 271 | 6575 |
| 4 x 185 | 56,1 | 456 | 304 | 8050 |
| 4 x 240 | 64,5 | 538 | 351 | 10695 |
| 5 G 1,5 | 10,4 | 23 | 22 | 155 |
| 5 G 2,5 | 11,6 | 32 | 29 | 215 |
| 5 G 4 | 13,2 | 42 | 37 | 300 |
| 5 G 6 | 14,7 | 54 | 46 | 405 |
| 5 G 10 | 17,1 | 75 | 51 | 625 |
| 5 G 16 | 20,2 | 100 | 79 | 935 |
| 5 G 25 | 26,6 | 127 | 101 | 1555 |
| 5 G 35 | 29,3 | 158 | 122 | 2080 |
| 5 G 50 | 34,5 | 192 | 144 | 2895 |
| 5 G 70 | 38,7 | 246 | 178 | 3930 |
| 5 G 95 | 44,8 | 298 | 211 | 5190 |
| 5 G 120 | 49,7 | 346 | 240 | 6560 |
| 5 G 150 | 55,6 | 399 | 271 | 8145 |
| 5 G 185 | 62,5 | 456 | 304 | 9975 |
| 5 G 240 | 71,8 | 538 | 351 | 13210 |

Current-carrying capacities, in amperes, are calculated according to IEC 60364-5-52 and for the following conditions:

- Open air installation: one cable with adequate ventilation and ambient temperature of 30 °C, supported by cleats and hangers or on perforated tray (reference method F for single-core and E for multicore cables).
- Buried installation: one cable in a duct or direct buried at depth of 0,7 m, with soil thermal resistivity of 2,5 °K·m/W, and 20 °C of ground temperature (reference method D).
- For cables having 2 and 3 conductors up to 10 mm², it is supposed a single-phase circuit. For the rest of the cables it is supposed a three-phase circuit.

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.