

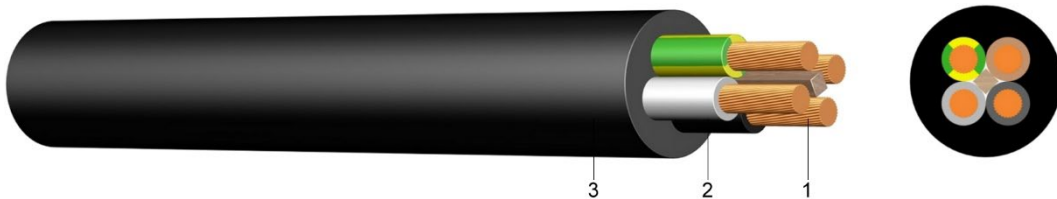
## RV-K E<sub>ca</sub>

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	4 x outer diameter in mm (D < 25mm) 5 x outer diameter in mm (25mm ≤ D ≤ 50mm) 6 x outer diameter in mm (D > 50mm)

#### Safety parameters

Reaction to fire EN 50399 E<sub>ca</sub>

Flame spread single cable IEC 60332-1-2

#### Additional parameters

UV resistant UNE 211605  
Water resistant AD7 (AD8 on request)

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N° of cores and cross section mm <sup>2</sup>	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	2270
1 x 300	29,6	703	396	2780
1 x 400	33,8	823	464	3680
1 x 500	37,4	946	525	4540
1 x 630	42,7	1088	596	6070
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 <sup>2</sup>	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 mm<sup>2</sup>, 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.