

RV-K

Industrial flexible cable for power transmission.

IEC 60502-1 - UNE 21123-2

DESIGN

1. Conductor

Electrolytic copper, class 5 (flexible), based on EN 60228 and IEC 60228.

2. Insulation

Cross-linked polyethylene (XLPE)

The standard identification of insulated conductors is the following:

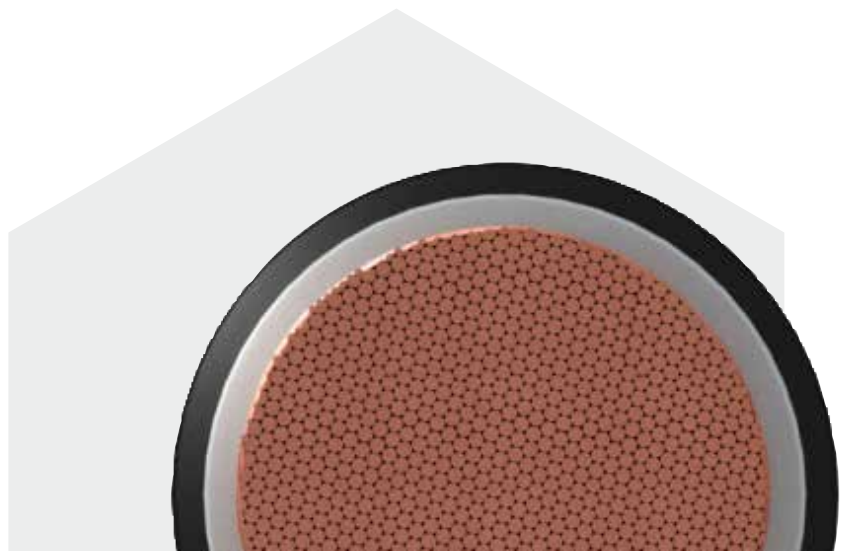
| | |
|-----------|---|
| 1 x | Natural |
| 2 x | Blue + Brown |
| 3 G | Blue + Brown + Green/yellow |
| 3 x | Brown + Black + Grey |
| 3 x + 1 x | Brown + Black + Grey + Blue (reduced cross-section) |
| 4 G | Brown + Black + Grey + Green/yellow |
| 4 x | Brown + Black + Grey + Blue |
| 5 G | Brown + Black + Grey + Blue + Green/yellow |

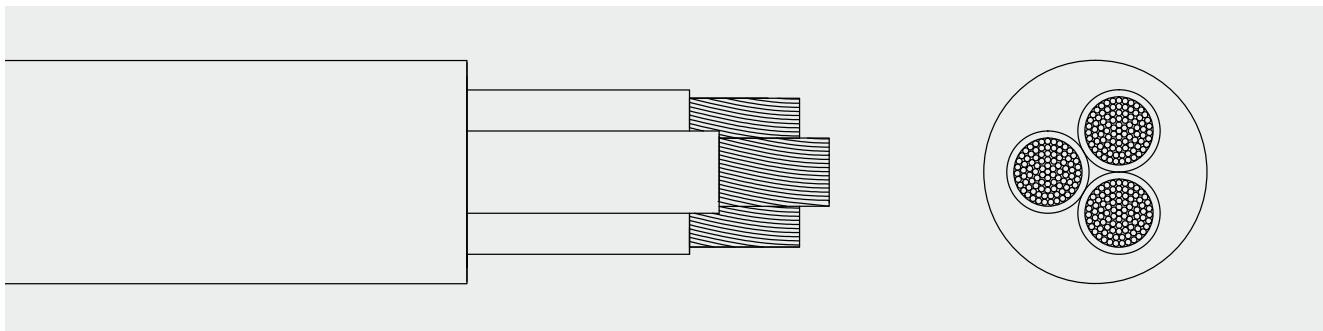
3. Outer sheath

Flexible PVC, black colour.

APPLICATIONS

Powerflex RV-K cable is suitable for all types of low voltage industrial-type connections, in urban grids, building installations, etc. Its high flexibility makes the installation process substantially easier and, as a result, is particularly suitable for use in difficult layouts. It can be buried or installed in a tube as well as outdoors without requiring additional protection. This cable can withstand damp conditions including total immersion in water (AD7).





CHARACTERISTICS



Electrical performance

LOW VOLTAGE 0,6/1kV



Standard

IEC 60502-1 - UNE 21123-2



Approvals

CE
SEC
BUREAU VERITAS
AENOR
SASO
RoHS
KEMA KEUR



Thermal performance

Maximum service temperature: 90°C.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -40°C (fixed and protected installations).



Fire performance

Flame non-propagation based on UNE-EN 60332-1 and IEC 60332-1.
Reduced emission of halogens. Chlorine <15%.



Mechanical performance

Minimum bending radius: x5 cable diameter.
Impact resistance: AG2 Medium severity.



Chemical performance

Chemical & Oil resistance: Good.
UV Resistant: UNE 211605.



Water performance

Water resistance: AD7 Immersion



Other

Meter by meter marking.



Installation conditions

Open Air.
Buried.
In conduit.



Applications

Industrial use.
Urban grids.



Packaging

Available in rolls (lengths of 100 m) and drums.



DIMENSIONS

| Cross section (mm ²) | Diameter (mm ²) | Weight (Kg/km) | Open Air | Buried | Voltage drop (V/A · km) |
|----------------------------------|-----------------------------|----------------|----------|----------|-------------------------|
| | | | 30°C (A) | 20°C (A) | |
| 1 x 1,5 | 5,7 | 42 | 23 | 22 | 29,50 |
| 1 x 2,5 | 6,2 | 54 | 29 | 29 | 17,70 |
| 1 x 4 | 6,7 | 70 | 40 | 37 | 11,00 |
| 1 x 6 | 7,3 | 90 | 53 | 46 | 7,32 |
| 1 x 10 | 8,2 | 133 | 74 | 61 | 4,23 |
| 1 x 16 | 9,2 | 189 | 101 | 79 | 2,68 |
| 1 x 25 | 11,0 | 284 | 135 | 101 | 1,73 |
| 1 x 35 | 12,1 | 381 | 169 | 122 | 1,23 |
| 1 x 50 | 13,8 | 517 | 207 | 144 | 0,86 |
| 1 x 70 | 15,7 | 712 | 268 | 178 | 0,603 |
| 1 x 95 | 17,6 | 923 | 328 | 211 | 0,457 |
| 1 x 120 | 19,2 | 1.165 | 383 | 240 | 0,357 |
| 1 x 150 | 21,5 | 1.446 | 444 | 271 | 0,286 |
| 1 x 185 | 23,9 | 1.748 | 510 | 304 | 0,235 |
| 1 x 240 | 26,9 | 2.280 | 607 | 351 | 0,178 |
| 1 x 300 | 29,6 | 2.829 | 703 | 396 | 0,142 |
| 1 x 400 | 33,8 | 3.731 | 823 | 464 | 0,108 |
| 1 x 500 | 37,4 | 4.776 | 946 | 525 | 0,085 |
| 1 x 630 | 42,7 | 6.276 | 1.088 | 596 | 0,064 |
| 2 x 1,5 | 8,2 | 90 | 26 | 26 | 34,00 |
| 2 x 2,5 | 9,2 | 120 | 36 | 34 | 20,40 |
| 2 x 4 | 10,3 | 161 | 49 | 44 | 12,70 |
| 2 x 6 | 11,3 | 211 | 63 | 56 | 8,45 |
| 2 x 10 | 13,2 | 316 | 86 | 73 | 4,89 |
| 2 x 16 | 14,9 | 450 | 115 | 95 | 3,10 |
| 2 x 25 | 20,8 | 806 | 149 | 121 | 1,99 |
| 3 G 1,5 | 8,9 | 108 | 26 | 26 | 34,00 |
| 3 G 2,5 | 9,8 | 144 | 36 | 34 | 20,40 |
| 3 G 4 | 11 | 198 | 49 | 44 | 12,70 |
| 3 G 6 | 12,1 | 263 | 63 | 56 | 8,45 |
| 3 G 10 | 14,3 | 405 | 86 | 73 | 4,89 |
| 3 x 16 | 16,4 | 593 | 100 | 79 | 2,68 |
| 3 x 25 | 21,3 | 975 | 127 | 101 | 1,73 |
| 3 x 35 | 24,1 | 1.319 | 158 | 122 | 1,23 |
| 3 x 50 | 27,8 | 1.812 | 192 | 144 | 0,86 |
| 3 x 70 | 30,8 | 2.463 | 246 | 178 | 0,603 |
| 3 x 16 + 1 x 10 | 17,6 | 696 | 100 | 79 | 2,68 |
| 3 x 25 + 1 x 16 | 22,7 | 1.136 | 127 | 101 | 1,73 |
| 3 x 35 + 1 x 16 | 25 | 1.461 | 158 | 122 | 1,23 |

| Cross section (mm ²) | Diameter (mm ²) | Weight (Kg/km) | Open Air | Buried | Voltage drop (V/A · km) |
|----------------------------------|-----------------------------|----------------|----------|----------|-------------------------|
| | | | 30°C (A) | 20°C (A) | |
| 3 x 50 + 1 x 25 | 29,1 | 2.033 | 192 | 144 | 0,86 |
| 3 x 70 + 1 x 35 | 33,8 | 2.834 | 246 | 178 | 0,603 |
| 3 x 95 + 1 x 50 | 38,2 | 3.702 | 298 | 211 | 0,457 |
| 3 x 120 + 1 x 70 | 42,1 | 4.723 | 346 | 240 | 0,357 |
| 3 x 150 + 1 x 70 | 46,8 | 5.779 | 399 | 271 | 0,286 |
| 3 x 185 + 1 x 95 | 53,5 | 7.202 | 456 | 304 | 0,235 |
| 3 x 240 + 1 x 120 | 60,4 | 9.306 | 538 | 351 | 0,178 |
| 3 x 300 | 62,3 | 10.050 | 621 | 396 | 0,142 |
| 4 G 1,5 | 9,7 | 129 | 23 | 22 | 29,50 |
| 4 G 2,5 | 10,7 | 175 | 32 | 29 | 17,70 |
| 4 G 4 | 12 | 243 | 42 | 37 | 11,00 |
| 4 G 6 | 13,4 | 328 | 54 | 46 | 7,32 |
| 4 G 10 | 15,7 | 505 | 75 | 61 | 4,23 |
| 4 x 16 | 18,2 | 749 | 100 | 79 | 2,68 |
| 4 x 25 | 24,1 | 1.245 | 127 | 101 | 1,73 |
| 4 x 35 | 26,3 | 1.671 | 158 | 122 | 1,23 |
| 4 x 50 | 31,3 | 2.313 | 192 | 144 | 0,86 |
| 4 x 70 | 36,1 | 3.204 | 246 | 178 | 0,603 |
| 4 x 95 | 40,2 | 4.126 | 298 | 211 | 0,457 |
| 4 x 120 | 44,6 | 5.245 | 346 | 240 | 0,357 |
| 4 x 150 | 49,8 | 6.573 | 399 | 271 | 0,286 |
| 4 x 185 | 56,1 | 8.050 | 456 | 304 | 0,235 |
| 4 x 240 | 64,5 | 10.695 | 538 | 351 | 0,178 |
| 5 G 1,5 | 10,4 | 153 | 23 | 22 | 29,5 |
| 5 G 2,5 | 11,6 | 213 | 32 | 29 | 17,7 |
| 5 G 4 | 13,2 | 298 | 42 | 37 | 11 |
| 5 G 6 | 14,7 | 403 | 54 | 46 | 7,32 |
| 5 G 10 | 17,1 | 624 | 75 | 61 | 4,23 |
| 5 G 16 | 20,2 | 931 | 100 | 79 | 2,68 |
| 5 G 25 | 26,6 | 1.555 | 127 | 101 | 1,73 |
| 5 G 35 | 29,3 | 2.076 | 158 | 122 | 1,23 |
| 5 G 50 | 34,5 | 2.895 | 192 | 144 | 0,86 |
| 5 G 70 | 38,7 | 3.929 | 246 | 178 | 0,603 |
| 5 G 95 | 44,6 | 5.189 | 298 | 211 | 0,457 |
| 5 G 120 | 49,7 | 6.560 | 346 | 240 | 0,357 |
| 5 G 150 | 55,6 | 8.144 | 399 | 271 | 0,286 |
| 5 G 185 | 62,5 | 9.971 | 456 | 304 | 0,235 |
| 5 G 240 | 71,8 | 13.206 | 538 | 351 | 0,178 |

Maximum current capacity according to IEC 60364-5-52.

For other installation conditions, please refer to correction factors in the appendix to this catalog.

See more technical data on the particular cable specification.

Top Cable reserves the right to carry out any modification to the data sheets whatsoever without giving previous notice.