



RV-K Current Ratings and Volt Drop

Cores and sizes	Current carrying capacity		Voltage drop V/A/Km
	In air amps	In earth amps	
RV-K 1 Core			
1 x 2.5	29	29	17.7
1 x 4	40	37	11
1 x 6	53	46	7.32
1 x 10	74	61	4.23
1 x 16	101	79	2.68
1 x 25	135	101	1.73
1 x 35	169	122	1.23
1 x 50	207	144	0.86
1 x 70	268	178	0.603
1 x 95	328	211	0.457
1 x 120	383	240	0.357
1 x 150	444	271	0.286
1 x 185	510	304	0.235
1 x 240	607	351	0.178
1 x 300	703	396	0.142
1 x 400	823	464	0.108
1 x 500	946	525	0.085
1 x 630	1088	596	0.064
RV-K 2 Cores			
2 x 1.5	26	26	34
2 x 2.5	36	34	20.4
2 x 4	49	44	12.7
2 x 6	63	56	8.45
2 x 10	86	73	4.89
2 x 16	115	95	3.1
RV-K 3 Cores			
3 x 16	100	79	2.68
3 x 25	127	101	1.73
3 x 35	158	122	1.23
3 x 50	192	144	0.86
3 x 70	246	178	0.603
RV-K 4 Cores			
4 x 16	100	79	2.68
4 x 25	127	101	1.73
4 x 35	158	122	1.23
4 x 50	192	144	0.86
4 x 70	246	178	0.603
4 x 95	298	211	0.457
4 x 120	346	240	0.357
4 x 150	399	271	0.286
4 x 185	456	304	0.235
4 x 240	538	351	0.178



Short Circuit Current Carrying Capacity

The maximum short circuit current that a cable can withstand depends on the time of reaction of the protection elements installed in the line. The maximum current carrying capacity in a short circuit accident, for a specific type of cable, is the result of multiplying the cross-section of the cable for the values shown in the table below:

Time S	0.1	0.2	0.3	0.5	1.0	1.5	2.0	2.5	3.0
Amps/mm²	452	320	261	202	143	117	101	90	83

Correction Factors

For air temperature other than 30°C

Air Temperature	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
Factor	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71

For ground temperatures other than 20°C

Ground Temperature	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
Factor	1.07	1.04	1.00	0.96	0.93	0.89	0.85	0.80	0.76

For soil thermal resistivity, which depends on damp other than 2.5°K m/W

Moisture degree of soil	Very Damp	Slightly Damp	Slightly Dry	Dry	Very Dry
Thermal Resistivity (°K m/W)	1.0	1.5	2.0	2.5	3.0
Factor	1.18	1.10	1.05	1.00	0.96