

POWERFLEX

RV-K SUBMERSIBLE

The universal flexible cable for power transmission.

DESIGN

Conductor

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

Insulation

XLPE.

The standard identification is the following:

- 1 x..... **Black**
- 2 x..... **Blue + Brown**
- 3 G **Blue + Brown + Yellow/Green**
- 3 x..... **Brown + Black + Grey**
- 3 x + 1 x..... **Brown + Black + Grey + Blue** (reduced cross-section)
- 4 G **Brown + Black + Grey + Yellow/Green**
- 4 x..... **Brown + Black + Grey + Blue**
- 5 G **Brown + Black + Grey + Yellow/Green + Blue**

Outer sheath

Flexible PVC outer sheath, **Black** colour.

Has very good properties against water absorption and can be submerged in water to 200m.

APPLICATIONS

This cable for energy distribution 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. Lastly, the Powerflex RV-K cable can withstand damp conditions including total immersion in water.



CHARACTERISTICS

 Flexible conductor class 5	 Minimum bending radius: 5 x cable diameter	 Outdoor installation: permanent
 Minimum service temperature: -15°C	 Meter by meter marking	 Water resistance: 200m submersible water
 Maximum service temperature: 90°C	 Flame non-propagation	 Chemical & oil resistance: good
 Maximum short-circuit temperature: 250°C (maximum 5 s)	 Impact resistance: AG2 medium impact	

INSTALLATION CONDITIONS

 Industrial use	 Damp environment
 Open air	
 In conduit	
 Buried	

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DIMENSIONS

Cross section (mm ²)	Diameter (mm)	Weight (Kg/km)	Open Air 30°C (A)	Buried 20°C (A)	Voltage drop (V/A · km)
1 x 2,5	6,2	54	29	29	17,7
1 x 4	6,7	70	40	37	11,0
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	0,860
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	1088	596	0,064
2 x 1,5	8,2	90	26	26	34,0
2 x 2,5	9,2	120	36	34	20,4
2 x 4	10,3	161	49	44	12,7
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
3 G 1,5	8,9	108	26	26	34,0
3 G 2,5	9,8	144	36	34	20,4
3 G 4	11,0	198	49	44	12,7
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	0,860
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	25,0	1.461	158	122	1,23
3 x 50 + 1 x 25	29,1	2.033	192	144	0,860
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
4 G 1,5	9,7	129	23	22	29,5
4 G 2,5	10,7	175	32	29	17,7
4 G 4	12,0	243	42	37	11,0
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	0,860
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	11,0
5 G 6	14,7	403	54	46	7,32
5 G 10	17,2	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	2.878	192	144	0,860

For further technical data please request this cable's technical datasheet.

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