

 CONDUCTORES ELÉCTRICOS ESPECIALES	VV-K Power Cables 0,6/1KV	Cables CPR
		REV 01 – September 2020
		www.tecnicasdelcable.com



DESCRIPTION

- Construction Standard: IEC 60502-1, UNE 21123-2
- Low Voltage Directive (LVD) compliant: 2014/35/UE
- Construction Products Regulation (CPR) - (EU) Nº 305/2011: **Reaction to fire Eca.**
- DoP Number: **E007-ENG-VVK**
- RoHS compliant.

VV-K cables are suitable for fixed installations with complex layouts where flexible cables are required. It is also ideal for connecting motors or frequency converters. These cables are indicated for industrial connections, control of solenoid valves, machine start-up, robots and internal distribution installations. It can be used in underground networks and permanent installations. The characteristics of the outer sheath material make this cable extremely versatile as it provides a high level of protection in all types of environments.

TECHNICAL CHARACTERISTICS

Conductor	Rigid electrolytic copper conductor (Class II) or flexible (class V) according to UNE-EN 60288
Insulation	PVC insulation, type A, according to UNE 21123 and IEC 60502-1.
Outer sheath	PVC sheath, type ST-1, according to UNE 21123 and IEC 60502-1.
Nominal Voltage	0,6/1 kV C.A
Voltage Test	3.500 V C.A.
Maximum conductor temperatures	Normal operation 70°C Short circuit (5sec) 160°C

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OTHER CHARACTERISTICS

- Non-flame propagation according to EN 60332-1-2, IEC 60332-1-2.
- **Fire reaction (CPR) Eca.**
- UV resistance (1 cycle) according to UNE 211605.
- Suitable for all type of installations withstand damp conditions including **total immersion in water (AD7)**.
- High cold resistance, cable designed to operate reliably at -40°C in fixed installations.
- Impact resistance: AG2 Medium severity.

AVAILABLE ON REQUEST

- Hydrocarbons and oil resistance according to UIC-895 OR.
- Non-fire propagation according to EN 60332-3-24, IEC 60332-3-24.
- Low halogen content ($\leq 14\%$) according to EN 60754-2, EN 60754-1, IEC 60754-2, IEC 60754-1.

SECTIONS

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
1x1,5	12,1	5,90	0,053	Eca
2x1,5	12,1	9,80	0,138	Eca
3x1,5	12,1	10,30	0,16	Eca
4x1,5	12,1	11,10	0,188	Eca
5x1,5	12,1	12,00	0,219	Eca
7x1,5	12,1	12,90	0,272	Eca
10x1,5	12,1	16,00	0,373	Eca
12x1,5	12,1	16,50	0,420	Eca
14x1,5	12,1	17,30	0,473	Eca
19x1,5	12,1	19,10	0,62	Eca
24x1,5	12,1	22,20	0,745	Eca
30x1,5	12,1	23,50	0,889	Eca
37x1,5	7,41	25,30	1,060	Eca
44x1,5	7,41	28,60	1,262	Eca
1x2,5	7,41	6,40	0,067	Eca
2x2,5	7,41	10,80	0,177	Eca
3x2,5	7,41	11,30	0,208	Eca
4x2,5	7,41	12,20	0,255	Eca
5x2,5	7,41	13,30	0,292	Eca
7x2,5	7,41	14,40	0,371	Eca
10x2,5	7,41	18,00	0,512	Eca
12x2,5	7,41	18,50	0,581	Eca

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
14x2,5	7,41	19,50	0,658	Eca
24x2,5	7,41	25,20	1,052	Eca
30x2,5	7,41	26,70	1,266	Eca
37x2,5	7,41	29,00	1,532	Eca
44x2,5	7,41	32,80	1,823	Eca
1x4	4,95	7,30	0,092	Eca
2x4	4,95	12,60	0,248	Eca
3x4	4,95	13,30	0,296	Eca
4x4	4,95	14,40	0,356	Eca
5x4	4,95	15,80	0,421	Eca
7x4	4,95	17,10	0,538	Eca
10x4	4,95	21,60	0,750	Eca
12x4	4,95	22,30	0,858	Eca
1x6	3,3	7,90	0,118	Eca
2x6	3,3	13,80	0,315	Eca
3x6	3,3	14,60	0,383	Eca
4x6	3,3	15,90	0,466	Eca
5x6	3,3	17,40	0,560	Eca
1x10	1,91	8,80	0,164	Eca
2x10	1,91	15,60	0,437	Eca
3x10	1,91	16,50	0,542	Eca
4x10	1,91	18,10	0,668	Eca

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
5X10	1,91	19,80	0,872	Eca
1x16	1,21	9,90	0,229	Eca
2x16	1,21	17,80	0,606	Eca
3x16	1,21	18,90	0,764	Eca
4x16	1,21	20,70	0,948	Eca
5x16	1,21	22,8	1,140	Eca
1x25	0,78	11,70	0,346	Eca
2x25	0,78	23,80	1,028	Eca
3x25	0,78	25,10	1,288	Eca
4x25	0,78	27,40	1,592	Eca
1x35	0,554	12,80	0,442	Eca
2x35	0,554	26,00	1,284	Eca
3x35	0,554	27,50	1,628	Eca
4x35	0,554	30,10	2,024	Eca
1x50	0,386	14,60	0,613	Eca
2x50	0,386	29,60	1,744	Eca
3x50	0,386	31,40	2,235	Eca
4x50	0,386	34,60	2,810	Eca
1x70	0,272	16,40	0,819	Eca

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
2x70	0,272	33,40	2,301	Eca
3x70	0,272	35,60	2,985	Eca
4x70	0,272	39,80	3,804	Eca
1x95	0,206	18,40	1,064	Eca
2x95	0,206	37,60	2,974	Eca
3x95	0,206	40,10	3,870	Eca
4x95	0,206	44,30	4,888	Eca
1x120	0,161	20,40	1,340	Eca
2x120	0,161	41,80	3,730	Eca
3x120	0,161	44,60	4,867	Eca
4x120	0,161	49,90	6,224	Eca
1x150	0,129	23,20	1,656	Eca
2x150	0,129	47,20	4,633	Eca
1x185	0,106	25,80	2,027	Eca
1x240	0,0801	28,50	2,605	Eca
1x300	0,0641	32,90	3,417	Eca
1x400	0,0486	38,90	4,521	Eca
1x500	0,0384	43,20	5,663	Eca

**The values of the outer diameters are approximate, always within production tolerance. For more information, please contact us.*

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