

H07V-K

These cables are suitable for making permanent installations in housing, shop premises and offices, electric control boxes and domestic and Industrial lighting.

Cables RCT offers this range up to 6mm² packed in coils of 100 or 200metres. These coils are made up into packages of 3, 4 or 5 units according to the sections. Sections which are bigger than 6mm² are packed in coils or drums according to the necessity.



Conductor

Cu electrolytic Class V according to UNE-EN 60228 y EN 60228

Insulation

PVC Type TI-1 according to UNE 21031-3

Highest temperature

70°C

Nominal voltage

450/750V

Test voltage

2.500V en C.A.

Others specifications

Colours according to UNE 21031

Flame retardant according to UNE-EN 60332

PVC insulation with low emission of HCL

Nominal Cross Sectional Area of Conductor mm ²	Nominal No & Diaemter of wires mm	Radical Thickness of insulation mm	Nominal Overall diameter mm	Maximun AMPS	Approx AWG	Nominal Weight kgs
1,5	24/0,20	0,70	3,10	23	16	18,75
2,5	40/0,25	0,80	3,75	31	14	29,30
4	48/0,30	0,80	4,35	42	12	42,75
6	72/0,30	0,80	4,85	54	10	60,80
10	70/0,40	1,00	6,25	75	8	106,35
16	110/0,40	1,00	7,40	100	6	154,95
25	170/0,40	1,20	9,30	127	4	242,15
35	240/0,40	1,20	10,70	158	2	321,40
50	344/0,40	1,40	12,70	192	1	477,50
70	310/0,50	1,40	14,60	246	2/0	671,30
95	412/0,50	1,60	16,65	298	3/0	881,55
120	526/0,50	1,60	18,45	346	4/0	1140,80
150	656/0,50	1,80	20,55	395	250 MCM	1374,65
185	798/0,50	2,00	22,75	450	350 MCM	1692,80
240	1056/0,50	2,20	25,95	538	450 MCM	2183,75

The conductor current ratings' depends on the characteristics of the installation: nominal cross sectional area of conductor, wattage, cable type...

For example, for a temperature of 30°C

Characteristic of installation		Number of conductors loaded					
Insulated conductor in a tube in a thermally insulating wall		3	2				
Insulated conductor in a tube on a wooden wall				3	2		
Unipolar cables on a wooden wall					3	2	
Unipolar cables in contact in the open air							2
Section	1,5	13,5	14,50	15,50	17	19,50	23
	2,5	18	19,50	21	23	27	31
	4	24	26	28	31	36	42
	6	31	34	36	40	46	54
	10	42	46	50	54	63	75
	16	56	61	68	73	85	100
	25	73	80	89	95	110	127
	35			110	117	137	158
	50			134	141	167	192
	70			171	179	213	246
	95			207	216	258	298
	120			239	249	299	346
	150				285	344	395
	185				324	392	450
240					461	538	

Tri-rated H07V2-K BS6231

These cables are suitable for fixed installations in houses, offices, electrical panels, and for domestic and industrial illumination. They are also appropriate for internal switchgear and control gear wiring, especially where high temperature resistance is required.

These cables are manufactured according to the standard HD 21, BS 6231, UL 758 and CSA 22.2. Thanks to its three standards it can be commercialized worldwide without technical obstacle.



Conductor

Class 5 flexible plain copper conductors to BS EN 60228:2005 (previously BS6360)

Insulation

Polyvinyl chloride (PVC), heat resisting 105°C

Other characteristics

Standards Colours Black, Grey, Blue, Light Blue, Dark Blue, Brown, Green, Orange, Pink, Red, Violet, Yellow, White and Green/Yellow

No flame propagation

PVC insulation with low hydrochloric acid (HLC) emission

Voltage Rating: BS6231: 600/1000V; UL, CSA: 600V

Temperature Rating: BS6231: 90°C (105°C for 15,000 hours); UL, CSA: 105°C

Minimum Bending Radius: 6 x overall diameter

Nominal Cross Sectional Area of Conductor mm ²	Nominal No & Diaemter of wires mm	Radical Thickness of insulation mm	Approx. Nominal Overall diameter mm	Maximun AMPS	Approx. AWG	Nominal Weight Kgs
0,5	14/0,20	0,8	2,5	11	22	8
0,75	21/0,20	0,8	2,7	14	20	11
1	28/0,20	0,8	2,9	17	18	13
1,5	24/0,20	0,8	3	24	16	20
2,5	40/0,25	0,8	3,5	33	14	29
4	48/0,30	0,8	4	44	12	43
6	72/0,30	0,8	4,5	57	10	61
10	70/0,40	1,14	6,3	79	8	106
16	110/0,40	1,55	8,1	106	6	158
25	170/0,40	1,55	9,3	136	4	243
35	240/0,40	1,55	10,6	167	2	329
50	344/0,40	2,05	13	204	1	474
70	310/0,50	2,05	14,7	259	2/0	681
95	412/0,50	2,05	17	321	3/0	888
120	526/0,50	2,05	18,7	350	4/0	1.131
150	656/0,50	2,41	21	454	250 MCM	1.399
185	798/0,50	2,41	23	542	350 MCM	1.684

The conductor current ratings' depends on the characteristics of the installation: nominal cross sectional area of conductor, wattage, cable type...

For example, for a temperature of 30°C

Characteristic of installation		Number of conductors loaded					
Insulated conductor in a tube in a thermally insulating wall		3	2				
Insulated conductor in a tube on a wooden wall				3	2		
Unipolar cables on a wooden wall					3	2	
Unipolar cables in contact in the open air							2
Section	1,5	13,5	14,50	15,50	17	19,50	23
	2,5	18	19,50	21	23	27	31
	4	24	26	28	31	36	42
	6	31	34	36	40	46	54
	10	42	46	50	54	63	75
	16	56	61	68	73	85	100
	25	73	80	89	95	110	127
	35			110	117	137	158
	50			134	141	167	192
	70			171	179	213	246
	95			207	216	258	298
	120			239	249	299	346
	150				285	344	395
	185				324	392	450
240					461	538	