

## HO5V-K / HO7V-K EN 50255-2-31 Copper Flexible Cable



Kanbery Cable Code - HO5V-K / HO7V-K Copper Flexible Cable

### APPLICATION

PVC panel wiring for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers.

### CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
HO5V-K: 300/500V  
HO7V-K: 450/750V

**Temperature Rating**  
Fixed: -30°C to +70°C  
Flexed: -5°C to +70°C

**Minimum Bending Radius**  
Fixed: 6 x overall diameter

### CONSTRUCTION

**Conductor**  
Class 5 flexible copper conductor

**Insulation**  
PVC (Polyvinyl Chloride)

**Insulation Colour**  
● Red ● Black ● Blue ● Orange ● Yellow ○ White  
● Green/Yellow ● Grey ● Brown ● Violet ● Pink

**Note :**  
90 / 100 / 200 Meters or roll  
can be done as per required meters

### CABLE ACCREDITATION



Cables are designed and confirmed by body like BASEC and ISI

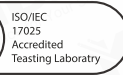
### STANDARDS

EN 50525-2-31  
Flame Retardant according to IEC/EN 60332-1-2

### THE CABLE LAB

AN ISO/IEC 17025 AND IEC CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



### SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: [www.kanberycable.com/company/about-us/esg-sustainability](http://www.kanberycable.com/company/about-us/esg-sustainability)



### REGULATORY COMPLIANCE

This cable is compliant with European regulation EN 50575 and Bureau of Indian Standards, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab as meeting the requirements of the BSI RoHS Trusted Kitemark™.



## DIMENSIONS

### H05V-K

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION (MM)	NOMINAL OVERALL DIAMETER mm
0.5		2.20
0.75		2.40
1		2.55

### H07V-K

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION (MM)	NOMINAL OVERALL DIAMETER mm
1.5	0.7	3.00
2.5	0.8	3.65
4	0.8	4.20
6	0.8	4.80
10	1	6.25
16	1	7.40
25	1.2	9.40
35	1.2	10.40
50	1.4	12.55
70	1.4	14.10
95	1.6	17.20
120	1.6	17.70
150	1.8	19.60
185	2	23.00
240	2.2	26.40

## COLOUR CODES

COLOUR	Black	Blue	Grey	Green/ Yellow	Orange	Red	Pink	Yellow	Violet	Brown	White
CODE	BK	BL	GR	GY	OR	RD	PK	YW	VI	BR	WH

## CONDUCTORS

### Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Plain Wires
0.5	0.21	39
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95
6	0.31	3.3
10	0.41	1.91
16	0.41	1.21
25	0.41	0.78
35	0.41	0.554
50	0.41	0.386
70	0.51	0.272

Note: Msutison thickness, sheath Thickness and overall Dimensions given in this table and nominal value, The standard diameter is Nominal However, constonction of the conductors is designed to satisfy the requirement of conductor resistance as per 15 8130:1984

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Plain Wires
95	0.51	0.206
120	0.51	0.161
150	0.51	0.129
185	0.51	0.106
240	0.51	0.0801

The above table is in accordance Kanbery 60228

## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	REFERENCE METHOD A (ENCLOSED IN CONDUIT IN THERMALLY INSULATING WALL ETC) Amps		REFERENCE METHOD B (ENCLOSED IN CONDUIT IN CONDUIT IN WALL OR IN TRUNKING ETC) Amps		REFERENCE METHOD C (CLIPPED DIRECT) Amps		REFERENCE METHOD F (IN FREE AIR OR ON A PERFECTED CABLE TRAY ETC HORIZONTAL OR VERTICAL RTC) Amps				
	2 Cables Single-Phase AC or DC	3 or 4 Cables Three-Phase AC	2 Cables Single-Phase AC or DC	3 or 4 Cables Three-Phase AC	2 Cables Single-Phase AC or DC	3 or 4 Cables Three-Phase AC	Touching			Spaced by one diameter	
							2 Cables Single-Phase AC or DC Flat	3 Cables Three-Phase AC or DC Flat	3 Cables Three-Phase AC trefoil	2 Cables Single-Phase or DC or 3 Cables Three-Phase AC flat	Horizontal
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-
2.5	20	18	21	21	27	25	-	-	-	-	-
4	26	24	32	28	37	33	-	-	-	-	-
6	34	31	41	36	47	43	-	-	-	-	-
10	46	42	57	50	65	59	-	-	-	-	-
16	61	56	76	68	87	79	-	-	-	-	-
25	80	73	101	89	114	104	131	114	110	146	130
35	99	89	125	110	141	129	162	143	137	181	162
50	119	108	151	134	182	167	196	174	167	219	197
70	151	136	192	171	234	214	251	225	216	281	254
95	182	164	232	207	284	261	304	275	264	341	311
120	210	188	269	239	330	303	352	321	308	396	362
150	240	216	300	262	381	349	406	372	356	456	419
185	273	245	341	296	436	400	463	427	409	521	480
240	321	286	400	346	515	472	546	507	485	615	569

Ambient temperature: 30°C  
 Conductor operating temperature: 70°C

The above table is in accordance with Table 4D1A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

NOTE 2.4 - For Class 5 flexible conductors the tabulated values for current carrying capacity or voltage drop are multiplied by the following factors:

CABLE SIZE ≤16mm <sup>2</sup>	CURRENT CARRYING CAPACITY: 0.95	VOLTAGE DROP: 1.10
CABLE SIZE ≥25mm <sup>2</sup>	CURRENT CARRYING CAPACITY: 0.97	VOLTAGE DROP: 1.06