

**H07V-R / H07V-U EN 50525-2-31 Cable**  
Single Core Copper Special Cable



Kanbery Cables : H07V-R / H07V-U EN 50525-2-31 Single Core Copper Special Cable

**APPLICATION**

Cable H07V-R/H07V-U is suitable for power and lighting circuits and building wiring. The cable is intended for use in semi-flush exposed conduits and embedded conduits as well as in closed installation ducts, and is ideal for the internal wiring of appliances.

**CHARACTERISTICS**

Voltage Rating Uo/U  
450/750V

Temperature Rating  
Fixed: -15°C to +70°C

Minimum Bending Radius  
Up to 10mm<sup>2</sup>: 3 x overall diameter  
10mm<sup>2</sup> to 25mm<sup>2</sup>: 4 x overall diameter  
Above 25mm<sup>2</sup>: 4 x overall diameter

**CONSTRUCTION**

Conductor  
(Class 2 stranded copper conductor)

Insulation  
PVC (Polyvinyl Chloride)

Insulation Colour  
● Red ● Black ● Blue ● Yellow ○ White ● Yellow  
● Grey ● Brown

Note  
90 / 100 / 200 meters of roll can be done as per requirements

**CABLE ACCREDITATION**



Cables are designed and confirmed by body like BSEC 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

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm
1.5	0.7	2.9
2.5	0.8	3.6
4	0.8	4.1
6	0.8	4.7
10	1	5.9
16	1	6.8
25	1.2	8.4
35	1.2	9.4
50	1.4	11
70	1.4	12.7
95	1.6	14.7
120	1.6	16.2
150	1.8	18
185	2	20
240	2.2	23
300	2.4	25.2
400	2.6	28.4
500	2.8	31.8
630	2.8	38.1

## COLOUR CODES

COLOUR	Black	Blue	Grey	Green/Yellow	Red	Yellow	Brown	White
CODE	BK	BL	GR	GY	RD	YW	BR	WH

## CONDUCTORS

### Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MINIMUM NO. OF WIRES IN CONDUCTOR mm		MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular		
	Cu	Al	Plain Wires
1.5	22	-	12.1
2.5	36	-	7.41
4	56	-	4.61
6	84	-	3.08
10	140	7	1.83
16	224	7	1.15
25	350	7	0.727
35	490	7	0.524
50	703	19	0.387
70	988	19	0.268
95	1349	19	0.193
120	608	37	0.153
150	767	37	0.124
185	943	37	0.0991
240	1223	37	0.0754

**Note :** insulation thickness, Sheath thickness and overall dimensions given in this table are nominal value. The strand diameter is nominal. However, Construction of the Conductor is designed to satisfy the requirement of conductor resistance as per IS 8130 : 1984

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MINIMUM NO. OF WIRES IN CONDUCTOR mm						MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Circular		Circular Compacted		Shaped			Annealed Copper Conductor  Plain Wires
	Cu	Al	Cu	Al	Cu	Al		
300	61	61	34	30	34	30	0.0601	
400	61	61	53	53	53	53	0.047	
500	61	61	53	53	53	53	0.0366	
630	91	91	53	53	53	53	0.0283	

The above table is in accordance with 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 METHODS B (ENCLOSED IN CONDUIT IN WALL OR IN TRUNKING ETC) Amps		REFERENCE METHOD C (CLIPPED DIRECT) Amps		REFERENCE METHOD F (IN FREE AIR OR ON A PERFORATED CABLE TRAY ETC HORIZONTAL OR VERTICAL ETC) 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 flat	3 Cables Three-Phase AC trefoil	Horizontal	Vertical
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-
2.5	20	18	24	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	421	480
240	321	286	400	346	515	472	546	507	485	615	569
300	367	328	458	394	594	545	629	587	561	709	659
400	-	-	546	467	694	634	754	689	656	852	795
500	-	-	626	533	792	723	868	789	749	982	920
630	-	-	720	611	904	826	1005	905	855	1138	1070

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