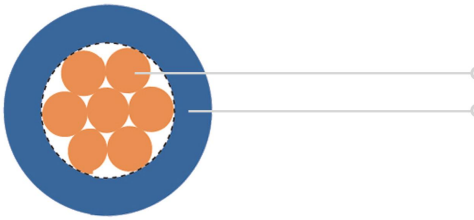
Cu/PVC

PVC insulated, Non sheathed,single core cable,6491X,H07V-U& H07V-R to BS EN 50525-2-31 (Previously Bs 6004)

APPLICATION AND DESCRIPTION



◎ Solid to BS EN 60228 Class 1(H07V-U)

◎ Stranded to BS EN 60228 Class 2 (HO7V-R)

CORE IDENTIFICATION

◎ Green/Yellow, Black, Blue, Brown, Red, White, Grey, other colors upon request.

TECHNICAL CHARACTERISTICS	
Working voltage	450/750 Volts
Test voltage	2500 Volts
Minimum bending radius	Up to 10mm²-3xOverall diameter 10mm2 to 25mm²-4xOverall diameter above 25mm²-5xOverall diameter
Operating temperature	-15℃ to +70℃
Short circuit temperature	+160℃
Flame retardant	IEC 603321
Insulation resistance	10MΩ·KM

H07V-U&H07V-R,BS EN 50525-2-31

(AmbientTemperature:30,Conductor operating temperature:70℃)

CABLE PARAMETER

Nominal cross sectional area	Approxi-mate overall diameter	Approxi-mate cable weight	Maximum conductor resistance at 20'c	Short cir-cuit rating (1 sec)	single phase AC or DC enclosed in conduit or trunking	three phase AC en-closed in conduit or trunking	DC	single phase AC in con-duit or trunking	three phase AC in con-duit or trunking
mm^2	mm	kg/km	Ohms/km	kA	Amps	Amps	mV/A/m	mV/A/m	mV/A/m
H07V-U (Solid conductor)									
1.5	2.8	20	12.1	0.17	17.5	15.5	29	29	25
2.5	3.4	31	7.41	0.28	24	21	18	18	15
H07V-R (Stranded conductor)									
1.5	3.0	22	12.1	0.17	17.5	15.5	29	29	25
2.5	3.7	35	7.41	0.28	24	21	18	18	15
4	4.2	50	4.61	0.46	32	28	11	11	9.5
6	4.8	71	3.08	0.69	41	36	7.3	7.3	6.4
10	6.0	113	1.83	1.15	57	50	4.4	4.4	3.8
16	7.1	170	1.15	1.84	76	68	2.8	2.8	2.4
25	8.8	271	0.727	2.88	101	89	1.75	1.8	1 .55
35	10.0	368	0.524	4.00	125	110	1 .25	1.3	1.10
50	11.6	496	0.387	5.75	151	134	0.93	1.0	0.85
70	13.5	692	0.268	8.00	192	171	0.63	0.72	0.61
95	15.7	952	0.193	10.9	232	207	0.46	0.56	0.48
120	17.3	1179	0.153	13.8	269	239	0.36	0.47	0.41
150	19.2	1442	0.124	17.3	300	262	0.29	0.41	0.36
185	21.5	1821	0.0991	21.3	341	296	0.23	0.37	0.32
240	24.4	2357	0.0754	27.6	400	346	0.18	0.33	0.29
300	27.3	2957	0.0601	34.5	458	394	0.145	0.31	0.27
400	30.6	3796	0.0470	41.1	546	467	0.105	0.29	0.25
500	34.5	4800	0.0366	57.5	626	533	0.086	0.28	0.25
630	36.5	6040	0.0283	72.5	720	611	0.068	0.27	0.24

TEMPERATURE RATING FACTORS

Ambient Temperature℃	25	30	35	40	45	50	55	60	65
Rating Factor	1.03	1.00	0.94	0.87	0.79	0.71	0.61	0.50	0.35

CORRECTION FACTORS FOR GROUPINGS

Number of-CircuitsRat-ing Factor	2	3	4	5	6	7	8	9	10	12	14	16	18	20
	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48	0.45	0.43	0.41	0.39	0.38

※**Note:** If current rating and buildings is required reference should be made to BS7671 (IEE Wiring Regs)

Complied with the HongKong EMSD COP,and the rating is the average of the conductor cross-sectional area and installation method, and the overall eror is within ±5%