



## Standard Wiring Cables Low Voltage(450/750V) 6491X

## PVC Conduit Wire (H07V-U, H07V-R)

**Cable Approvals:** Cable approved to BS6004

**Key Applications:** Manufactured to BS EN 50525-2-31 (previously BS 6004)  
Installation in surface mounted or embedded conduits or similar closed systems and for fixed protected installation in or on lighting fittings and inside appliances, switchgear and control gear Green/Yellow for use as earth

**Conductor :** Plain annealed copper solid or stranded circular conductor complying with BS EN 60228 Class 1 or Class 2

**Core Identification:** o Grey



- o Black
- o Blue
- o Yellow
- o Brown
- o White
- o Green / Yellow

Nominal cross sectional area mm <sup>2</sup>	Approximate overall diameter mm	Approximate cable weight Kg/Km	Maximum conductor resistance at 20°C Ohms/Km	Short circuit rating (1 sec) KA	Current rating DC or single phase AC enclosed in conduit or trunking Amps	Current rating Three phase AC enclosed in conduit or trunking Amps	Voltage drop DC mV/A/m	Voltage drop DC single phase mV/A/m	Voltage drop three phase AC mV/A/m				
<b>H07V U (Solid conductor)</b>													
1.5	2.83	20.30	12.1	0.17	17.5	15.5	29	29	25				
2.5	3.41	31.29	7.41	0.28	24	21	18	18	15				
<b>H07V R (Stranded conductor)</b>													
1.5	3.02	22.28	12.1	0.17	17.5	15.5	29	29	25				
2.5	3.70	35.20	7.41	0.28	24	21	18	18	15				
4	4.21	50.74	4.61	0.46	32	28	11	11	9.5				
6	4.78	71.67	3.08	0.69	41	36	7.3	7.3	6.4				
10	6.04	113.98	1.83	1.15	57	50	4.4	4.4	3.8				
16	7.06	170.94	1.15	1.84	76	68	2.8	2.8	2.4				
25	8.82	271.24	0.727	2.88	101	89	1.75	1.8	1.55				
35	9.97	368.05	0.524	4.00	125	110	1.25	1.3	1.1				
50	11.63	496.36	0.387	5.75	151	134	0.93	1.0	0.85				
70	13.44	692.68	0.268	8.00	192	171	0.63	0.72	0.61				
95	15.71	952.13	0.193	10.9	232	207	0.46	0.56	0.48				
120	17.30	1179.70	0.153	13.8	269	239	0.36	0.47	0.41				
150	19.17	1442.82	0.124	17.3	300	262	0.29	0.41	0.36				
185	21.50	1821.22	0.0991	21.3	341	296	0.23	0.37	0.32				
240	24.39	2357.24	0.0754	27.6	400	346	0.18	0.33	0.29				
300	27.27	2957.07	0.0601	34.5	458	394	0.145	0.31	0.27				
400	30.64	3796.11	0.047	41.1	546	467	0.105	0.29	0.25				
<b>Temperature Rating Factors</b>													
Ambient Temperature °C	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				
<b>Correction factors for Groupings</b>													
Number of Circuits	2	3	4	6	7	8	9	10	12	14	16	18	20
Rating Factor	0.8	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3
	0	0	5	7	4	2	0	8	5	3	1	9	8