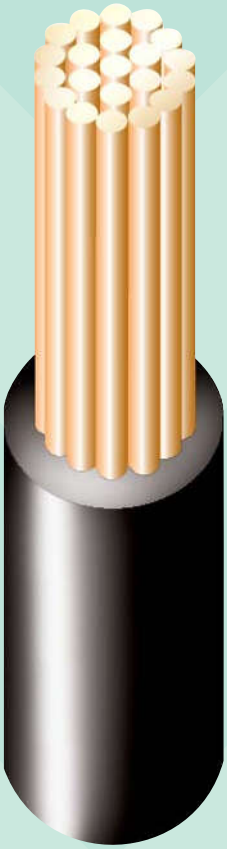
Standard Wiring Cables

Low Voltage (450/750 V)

6491X

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



Cable Approvals

Cable approved to BS6004

Key Applications

> 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

Insulation

> PVC Insulation complying with BS EN 50363-3 Type TI1

Core Identification

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



Temperature Range -15 to +70°C



Bending Radius Fixed r=6D



Mechanical Impact Medium



Fire Performance BS EN 60332-1-2



Flexibilty Rigid

Ref: 6491X/04/06

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

Cable Details

Nominal cross sectional area mm²	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
H07V-U (Solid conductor)									
1.5	3.0	21	12.1	0.17	17.5	15.5	29	29	25
2.5	3.6	32	7.41	0.28	24	21	18	18	15
H07V-R (Stranded conductor)									
1.5	3.0	23	12.1	0.17	17.5	15.5	29	29	25
2.5	3.6	35	7.41	0.28	24	21	18	18	15
4	4.2	51	4.61	0.46	32	28	11	11	9.5
6	4.7	71	3.08	0.69	41	36	7.3	7.3	6.4
10	6.1	120	1.83	1.15	57	50	4.4	4.4	3.8
16	7.2	180	1.15	1.84	76	68	2.8	2.8	2.4
25	8.4	280	0.727	2.88	101	89	1.75	1.8	1.55
35	9.5	380	0.524	4.00	125	110	1.25	1.3	1.1
50	11.3	490	0.387	5.75	151	134	0.93	1.0	0.85
70	12.6	710	0.268	8.00	192	171	0.63	0.72	0.61
95	14.7	980	0.193	10.9	232	207	0.46	0.56	0.48
120	16.2	1210	0.153	13.8	269	239	0.36	0.47	0.41
150	18.1	1510	0.124	17.3	300	262	0.29	0.41	0.36
185	20.2	1900	0.0991	21.3	341	296	0.23	0.37	0.32
240	22.9	2490	0.0754	27.6	400	346	0.18	0.33	0.29
300	27.0	3050	0.0601	34.5	458	394	0.145	0.31	0.27
400	32.0	3900	0.047	41.1	546	467	0.105	0.29	0.25

Temperature Rating Factors

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

Correction factors for Groupings

Number of Circuits	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Rating Factor	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

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