

Standard Wiring Cables

Low Voltage (450/750 V)

6491X

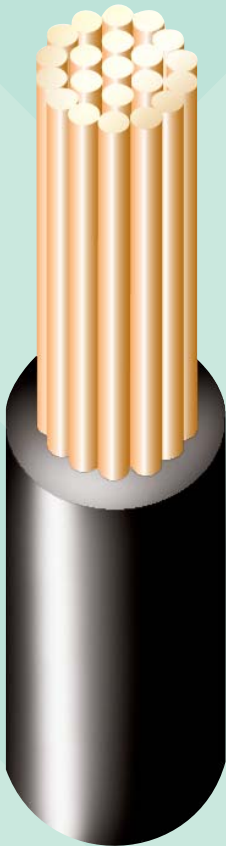
Cable Approvals

Key Applications

Conductor

Insulation

Core Identification



Temperature Range
-15 to +70°C



Bending Radius
Fixed $r=6D$



Mechanical Impact
Medium



Fire Performance
BS EN 60332-1-2



Flexibility
Rigid

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



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK

Cable approved to BS6004



- > 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
 - > Plain annealed copper solid or stranded circular conductor complying with BS EN 60228 Class 1 or Class 2
 - > PVC Insulation complying with BS EN 50363-3 Type T11
- Grey
 - Black
 - Blue
 - Yellow
 - Brown
 - White
 - Green/Yellow

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

Cable Details

Nominal cross sectional area	Approximate overall diameter	Approximate cable weight	Maximum conductor resistance at 20°C	Short circuit rating (1 sec)	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	Voltage drop DC single phase	Voltage drop three phase AC
mm ²	mm	Kg/Km	Ohms/km	KA			mV/A/m	mV/A/m	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

Ref: 6491X/04/06



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
 TEL 0044 191 490 1547 FAX 0044 477 5371
 TEL 0044 117 977 4647 FAX 0044 977 5582
 WWW.THORNEANDDERRICK.CO.UK

