

PVC Conduit Wire



BS6004

H07V - U, H07V - R

6491X

CABLE CHARACTERISTICS



Temperature
Range
-15 to +90°C



Bending
Radius
Fixed $r=6D$



Mechanical
Impact
Medium



Fire Performance
BS4066



Flexibility
Rigid

CABLE DESCRIPTION

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 BS6360 Class 1 or Class 2

INSULATION

PVC Insulation complying with BS7655 Type T11

CORE IDENTIFICATION

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



Nominal cross sectional area mm ²	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 Amps	Current rating Three phase AC Enclosed 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
500	35.5	4880	0.0366	52.4	626	533	0.086	0.28	0.25
630	39.5	6210	0.0283	64.8	720	611	0.068	0.27	0.24

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 Grouping

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