

# WIRING CABLES

## SINGLE CORE CABLES, WITH SOLID OR STRANDED COPPER CONDUCTOR, PVC INSULATED

Specification : BS 6004  
 Nominal Voltage : 450/750V  
**Harmonized code designations**  
 Solid Conductor : H07V-U  
 Stranded Conductor : H07V-R

Nominal Area of the conductor	Maximum Cable diameter	Radial thickness of insulation	Number / Nominal diameter of wires
Sq.mm	mm	mm	No./mm
1.5	3.2	0.7	1/1.38
1.5	3.3	0.7	7/.53
2.5	3.9	0.8	1/1.78
2.5	4	0.8	7/.67
4	4.4	0.8	1/2.26
4	4.6	0.8	7/.85
6	5	0.8	1/2.77
6	5.2	0.8	7/1.04
10	6.4	1	1/3.57
10	6.7	1	7
16	7.8	1	7
25	9.7	1.2	7
35	10.9	1.2	7
50	12.8	1.4	7
70	14.6	1.4	19
95	17.1	1.6	19
120	18.8	1.6	19
150	20.9	1.8	19
185	23.3	2	37
240	26.6	2.2	37
300	29.6	2.4	37
400	33.2	2.6	61
500	36.9	2.8	61
630	41.1	2.8	61

Area	Maximum conductor resistance	Current Rating		Weight of Cables
		Laid in conduits	Laid in Free Air (Approx.)	
mm <sup>2</sup>	Ohm/km	Amps	Amps	kg/km
1.5	12.1	16	20	21
1.5	12.1	16	20	23
2.5	7.41	21	26	33
2.5	7.41	21	26	35
4	4.61	28	35	47
4	4.61	28	35	51
6	3.08	36	46	66
6	3.08	36	46	71
10	1.83	50	63	114
10	1.83	50	63	117
16	1.15	68	80	167
25	0.727	89	108	262
35	0.524	110	133	360
50	0.387	134	166	479
70	0.268	177	205	687
95	0.193	207	247	935
120	0.153	239	290	1162
150	0.124	262	334	1433
185	0.0991	296	388	1778
240	0.0754	346	463	2280
300	0.0601	394	540	2893
400	0.047	401	580	3715
500	0.0366	530	620	4691
630	0.0283	611	715	6035

\* Cables can be supplied in multiples of 1000 mtrs or as per customer requirement.

Current Rating is based on the below conditions.  
 Amb. temp: 30°C  
 Conductor Operating temp: 20°C  
 Conductor size from 10 mm<sup>2</sup> to 630 mm<sup>2</sup> is circular compacted