

### CONDUCTOR RESISTANCE OF PLAIN COPPER CONDUCTORS USED FOR HEAVY DUTY CABLES AS PER IS:8130-1984

Size in sq. mm	Conductor Construction	Max. cond. resistance in ohm /km at 20°C	Size in sq. mm	Conductor Construction	Max. cond. resistance in ohm/km at 20° C
		Single core & Multi core			Single core & Multi core
1.5*	1/1.38	12.100	120	37/2.03	0.153
2.5*	1/1.78	7.410	150	37/2.24	1.124
4.0*	1/2.24	4.610	185	37/2.50	0.0991
6.0*	1/2.76	3.080	240	61/2.24	0.0754
10	7/1.35	1.830	300	61/2.50	0.0601
16	7/1.70	1.150	400	61/2.85	0.0470
25	7/2.14	0.727	500	61/3.20	0.0366
35	7/2.50	0.524	630	91/3.00	0.0283
50	7/3.00	0.387	—	—	—
70	19/2.14	0.268	800	127/2.83	0.0221
95	19/2.50	0.193	1000	127/3.16	0.0176

\* Solid Conductor

### CURRENT RATING OF "POLYCAB" COPPER ARMOURED/UNARMOURED CABLES 650/1100 V GRADE IN AIR

Area Sq. mm	Twin Core Amp.	3, 3 <sup>1</sup> / <sub>2</sub> , 4 Core Amp.	Area Sq. mm	Twin Core Amp.	3, 3 <sup>1</sup> / <sub>2</sub> , 4 Core Amp.
1.5	20	17	70	195	165
2.5	27	24	95	230	200
4	35	30	120	265	235
6	45	39	150	305	265
10	60	52	185	350	305
16	78	66	240	410	355
25	105	90	300	465	400
35	125	110	400	530	455
50	155	135	—	—	—

THE ABOVE DATA IS INDICATIVE AND MAY BE REVISED WITHOUT PRIOR INFORMATION  
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