

Resistance Of Flexible Cables

Nominal resistances of appliance supply cable protective conductors (figures are for cables to BS 6500/BS 6360)

Nominal Conductor csa (mm ²)	Nominal Conductor Resistance At 20°C (mohm/m)	Length (m)	Resistance At 20°C (mohm)	Maximum Current Carrying Capacity (A)	Max dia of individual wire in conductor (mm)	Approx No of wires in conductor
0.5	39	1	39	3	0.21	16
		1.5	58.5			
		2	78			
		2.5	97.5			
		3	117			
		4	156			
5	195					
0.75	26	1	26	6	0.21	24
		1.5	39			
		2	52			
		2.5	65			
		3	78			
		4	104			
5	130					
1.00	19.5	1	19.5	10	0.21	32
		1.5	29.3			
		2	39			
		2.5	48.8			
		3	58.5			
		4	78			
5	97.5					
1.25	15.6	1	15.6	13	0.21	40
		1.5	23.4			
		2	31.2			
		2.5	39			
		3	46.8			
		4	62.4			
5	78					
1.5	13.3	1	13.3	15	0.26	30
		1.5	20			
		2	26.6			
		2.5	33.3			
		3	39.9			
		4	53.2			
5	66.5					
2.5	8	1	8	20	0.26	50
		1.5	12			
		2	16			
		2.5	20			
		3	24			
		4	32			
5	40					
4	5	1	5	25	0.31	53
		1.5	7.5			
		2	10			
		2.5	12.5			
		3	15			
		4	20			
5	25					