

Find the running amperage of all appliance, then measure the total distance to and from the DC supply (positive to negative).

Current Draw	Length of Cable from Source to Device and Return to Source							
	3m (10ft)	6m (20ft)	10m (30ft)	15m (40ft)	20m (60ft)	25m (75ft)	30m (90ft)	35m (100ft)
1 amp	1mm	1mm	1mm	1mm	1.5mm	2mm	2mm	3mm
2 amps	1mm	1mm	2mm	2mm	2mm	3mm	4.5mm	4.5mm
5 amps	1mm	2mm	3mm	4.5mm	4.5mm	10mm	10mm	10mm
10 amps	2mm	4.5mm	4.5mm	10mm	15mm	15mm	25mm	25mm
15 amps	3mm	4.5mm	8mm	15mm	15mm	25mm	35mm	35mm
20 amps	4.5mm	8mm	15mm	15mm	25mm	35mm	35mm	35mm
25 amps	4.5mm	15mm	15mm	25mm	35mm	35mm	40mm	50mm
30 amps	4.5mm	15mm	25mm	25mm	35mm	40mm	50mm	50mm
40 amps	8mm	15mm	25mm	25mm	35mm	50mm	70mm	70mm
50 amps	15mm	25mm	35mm	35mm	50mm	50mm	70mm	70mm
60 amps	15mm	25mm	50mm	50mm	70mm	70mm	70mm	120mm
70 amps	15mm	35mm	50mm	70mm	95mm	95mm	120mm	120mm
80 amps	15mm	35mm	50mm	70mm	95mm	95mm	120mm	120mm
90 amps	25mm	35mm	50mm	70mm	95mm	95mm	120mm	120mm
100 amps	25mm	35mm	50mm	70mm	95mm	95mm	120mm	120mm
	3m (10ft)	6m (20ft)	10m (30ft)	15m (40ft)	20m (60ft)	25m (75ft)	30m (90ft)	35m (100ft)

Note: The above table is used for guidance purposes only. No allowances have been made for cable bundling or ambient temperature.