

# Volt Drop Chart

Load - Lamp Wattage	Distance for 2.5mm (14AWG)	Distance for 4.0mm (12AWG)	Distance for 6.0mm (10AWG)	Distance for 10mm (8AWG)	Distance for 16mm (6AWG)	Distance for 25mm (3AWG)
20 watts	40mtr (43yds)	65mtr (70yds)	97mtr (105yds)	164mtr (177yds)	255mtr (276yds)	512mtr (555yds)
40 watts	20mtr (21.5yds)	32mtr (34.5yds)	48mtr (52yds)	81mtr (88yds)	128mtr (139yds)	258mtr (280yds)
50 watts	16mtr (17yds)	25mtr (27yds)	38mtr (41yd)	65mtr (70.5yds)	102mtr (111yds)	204mtr (221yds)
60 watts	13mtr (14yds)	20mtr (21.5yds)	32mtr (34.5yds)	54mtr (58.5yds)	85mtr (92yds)	170mtr (184yds)
70 watts	11mtr (12yds)	18mtr (19.5yds)	27mtr (29yds)	46mtr (50yds)	73mtr (79yds)	146mtr (158yds)
80 watts	10mtr (11yds)	16mtr (17yds)	24mtrs (26yds)	40mtr (43yds)	63mtr (68yds)	127mtr (137yds)
90 watts	8.5mtr (9.2yds)	14mtr (15.2yds)	21mtr (22.7yds)	35mtr (38yds)	56mtr (53yds)	113mtr (122yds)
100 watts	8mtr (8.6yds)	13mtr (14yds)	19mtr (20.5yds)	33mtr (35.7yds)	51mtr (55yds)	102mtr (110yds)
120 watts	6mtr (6.5yds)	10mtr (11yds)	16mtr (17yds)	27mtr (29yds)	42mtr (45.5yds)	85mtr (92yds)
150 watts	5.2mtr (5.6yds)	8.3mtr (9yds)	13mtr (14yds)	21mtr (23yds)	34mtr (36.8yds)	68mtr (73.6yds)
200 watts	4mtr (4.3yds)	6.5mtr (7yds)	10mtr (10.8yds)	16mtr (17.3yds)	25.5mtr (27.6yds)	51mtr (55yd)
250 watts	3.1mtr (3.3yds)	5mtr (5.4yds)	8mtr (8.6yds)	12.6mtr (13.6yds)	20.3mtr (22yds)	41mtr (44.4yds)
300 watts	2.5mtr (2.7yds)	4.2mtr (4.55yds)	6.7mtr (7.2yds)	10.7mtr (11.6yds)	16.9mtr (18.3yds)	33.8mtr (36.6yds)

(this chart is a guide only - no load output voltage of the transformer may vary)

# Metric to American Wire Gauge Conversion Chart

Metric Conductor Size	American Wire Gauge (Actual size in mm <sup>2</sup> )
1.0mm <sup>2</sup>	#18 (0.823)
1.5mm <sup>2</sup>	#16 (1.31)
2.5mm <sup>2</sup>	#14 (2.68)
4.0mm <sup>2</sup>	#12 (3.31)
6.0mm <sup>2</sup>	#10 (5.26)
10mm <sup>2</sup>	# 8 (8.37)
16mm <sup>2</sup>	# 6 (13.03)
25mm <sup>2</sup>	# 3 (26.67) *
35mm <sup>2</sup>	# 2 (33.62) *
50mm <sup>2</sup>	# 1/0 (53.49)
70mm <sup>2</sup>	# 2/0 (67.43)
95mm <sup>2</sup>	# 4/0 (85.01) *

(\*AWG size is the nearest to metric sizing).