

Current Transformer Wire Length Chart

Size	Max Length	Gauge
0.5VA (0.02Ω max)	2 feet	18 AWG
	3 feet	16 AWG
	5 feet	14 AWG
	8 feet	12 AWG
	14 feet	10 AWG
1.0VA (0.04Ω max)	4 feet	18 AWG
	6 feet	16 AWG
	11 feet	14 AWG
	18 feet	12 AWG
	30 feet	10 AWG
1.5VA (0.06Ω max)	7 feet	18 AWG
	11 feet	16 AWG
	18 feet	14 AWG
	29 feet	12 AWG
	47 feet	10 AWG
2.0VA (0.08Ω max)	9 feet	18 AWG
	15 feet	16 AWG
	24 feet	14 AWG
	38 feet	12 AWG
	62 feet	10 AWG
2.5VA (0.10Ω max)	11 feet	18 AWG
	18 feet	16 AWG
	30 feet	14 AWG
	47 feet	12 AWG
	77 feet	10 AWG
3.0VA (0.12Ω max)	13 feet	18 AWG
	21 feet	16 AWG
	35 feet	14 AWG
	57 feet	12 AWG
	93 feet	10 AWG
3.5VA (0.14Ω max)	15 feet	18 AWG
	25 feet	16 AWG
	41 feet	14 AWG
	67 feet	12 AWG
	109 feet	10 AWG
4VA (0.16Ω max)	17 feet	18 AWG
	30 feet	16 AWG
	48 feet	14 AWG
	77 feet	12 AWG
	124 feet	10 AWG
4.5VA (0.18Ω max)	20 feet	18 AWG
	33 feet	16 AWG
	54 feet	14 AWG
	87 feet	12 AWG
	140 feet	10 AWG

Size	Max Length	Gauge
5VA (0.20Ω max)	22 feet	18 AWG
	37 feet	16 AWG
	60 feet	14 AWG
	97 feet	12 AWG
	156 feet	10 AWG
6VA (0.24Ω max)	27 feet	18 AWG
	45 feet	16 AWG
	73 feet	14 AWG
	117 feet	12 AWG
	188 feet	10 AWG
8VA (0.32Ω max)	37 feet	18 AWG
	60 feet	16 AWG
	98 feet	14 AWG
	157 feet	12 AWG
	250 feet	10 AWG
10VA (0.40Ω max)	47 feet	18 AWG
	76 feet	16 AWG
	123 feet	14 AWG
	197 feet	12 AWG
	315 feet	10 AWG
12.5VA (0.50Ω max)	59 feet	18 AWG
	96 feet	16 AWG
	154 feet	14 AWG
	244 feet	12 AWG
	390 feet	10 AWG
15VA (0.60Ω max)	72 feet	18 AWG
	115 feet	16 AWG
	185 feet	14 AWG
	295 feet	12 AWG
	470 feet	10 AWG
20VA (0.80Ω max)	95 feet	18 AWG
	152 feet	16 AWG
	245 feet	14 AWG
	395 feet	12 AWG
	630 feet	10 AWG
25VA (1.00Ω max)	120 feet	18 AWG
	190 feet	16 AWG
	310 feet	14 AWG
	490 feet	12 AWG
	790 feet	10 AWG
45VA (1.80Ω max)	215 feet	18 AWG
	350 feet	16 AWG
	560 feet	14 AWG
	890 feet	12 AWG
	1420 feet	10 AWG