

WIRE SELECTION CHART

Calculations are based on 105 C wire.
For more detailed calculations, consult the Circuit Wizard at circuitwizard.bluesea.com

CIRCUIT TYPE		CURRENT FLOW IN AMPS																	
Non-Critical 10% VOLTAGE DROP	Critical 3% VOLTAGE DROP																		
0 to 20 ft	0 to 6 ft	5A	10A	15A	20A	25A	30A	40A	50A	60A	70A	80A	90A	100A	120A	150A	200A		
30 ft	10 ft	16 AWG	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG					
50 ft	15 ft	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG						
65 ft	20 ft	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG						
80 ft	25 ft	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG							
100 ft	30 ft	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG								
130 ft	40 ft	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG								
165 ft	50 ft	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG								
200 ft	60 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG									
	70 ft	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG									
	80 ft																		
	90 ft																		
	100 ft																		
	110 ft																		
	120 ft																		
	130 ft																		

Standard and Metric Wire Comparison Table

Available Wire Size

Metric

16

14

12

10

8

6

4

2

1

0

2/0

3/0

4/0

70

95

120

KEY

AWG
WIRE
EQUIVALENT
SIZE