

AWG	dia	<u>1</u>	csa		AWG	Cu @ 20°	AWG
12	0.080808	in	5.129E-3 in ²	3.309E-6 m ²	12	0.15476	12
20	0.031961	in	802.311E-6 in ²	517.619E-9 m ²	20	0.98927	20
32	0.007950	in	49.643E-6 in ²	32.028E-9 m ²	32	15.98817	32
Temp =	20 °C		293 K		AWG	Au @ 20°	
					12	0.22477	
Length =	100 ft				20	1.43679	
Length =	30.48 m				32	23.22091	
	$\rho(\Omega\text{m})$	<u>2</u>	$\rho(\Omega\text{m})$	<u>3</u>	AWG	Ag @ 20°	
Cu	1.68E-08		1.724E-08		12	0.14647	
Au	2.44E-08		2.44E-08		20	0.93627	
Ag	1.59E-08		1.59E-08		32	15.13166	
Al	2.82E-08		2.65E-08		AWG	Al @ 20°	AWG
					12	0.25977	12
					20	1.66056	20
					32	26.83728	32

Cu 12 Al 12
0.435425 0.244258084

Cu @ 20°

0.15881

1.01518

16.40690

1 ft = 12 in

1 in = 2.54 cm

1 m = 100 cm

1 ft = 0.305 m

1 m = 39.370 in

1 m² = 1550 in²

Al @ 20°

0.24411

1.56045

25.21943