

AMERICAN WIRE GAUGE (AWG/KCMIL) TO MILLIMETERS SQUARED (mm²)

Based on UL and international standards, there is not a direct conversion or equivalency from AWG/kcmil to metric (mm²), but UL 83 standard provide **closest** sizes between AWG or kcmil to mm².

mm² TO AWG/KCMIL

METRIC CONDUCTOR SIZE, mm ²	CLOSEST AWG OR KCMIL SIZES
2.5	14
4	12
6	10
10	8
16	6
25	4
35	2
50	1/0
70	2/0
95	3/0
120	250
150	300
240	500
300	600
400	800
500	1000
630	1250
800	1500
1000	2000

The closest sizes provided by the UL standards are for the selection of insulation and jacket thickness requirements. The National Electrical Code (NEC®), Canadian Electrical Code (CEC), and NOM-001-SEDE in Mexico do not provide ampacity values for metric conductor sizes.

The IEC 60228 standard is clear and indicates that the IEC TC 20 cable product standards do not prescribe cables with AWG or kcmil conductors.



Southwire® AMERICAN WIRE GAUGE
 (AWG/KCMIL) TO MILLIMETERS SQUARED (mm²)

AWG/KCMIL TO mm²

CONDUCTOR SIZE (AWG/KCMIL)	NOMINAL CROSS-SECTIONAL AREA mm ²
20	0.519
18	0.823
16	1.31
14	2.08
12	3.31
10	5.26
8	8.37
6	13.3
4	21.2
3	26.7
2	33.6
1	42.4
1/0	53.5
2/0	67.4
3/0	85
4/0	107
250	127
300	152
350	177
400	203
450	228
500	253
550	279
600	304
650	329
700	355
750	380
800	405
900	456
1000	507
1200	608
1250	633
1500	760
1750	887
2000	1010