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5.26 mm2 to awg

The metric system outside of the Americas uses the cross sectional area in mm² to describe how thick a wire is. That cross section is directly related to the resistance of the wire. © Guido Socher, Version: 2017-03-30 American Wire Gauge (AWG) is a U.S. standard set of wire conductor sizes. The "gauge" is related to the dia. of the wire. The AWG standard includes copper, aluminum and other wire materials. Typical household copper wiring is AWG number 12 or 14. Telephone wire is usually 22, 24, or 26. The higher the gauge number, the smaller the diameter and the thinner the wire. The table below can be used to convert American Wire Gauge (AWG) to square mm cross sectional area. American Wire Gauge (AWG) Diameter (inches) Diameter (mm) Cross Sectional Area (mm²) 0000 0.46 11.68 107.16 000 0.4096 10.40 84.97 0 0.3648 9.27 67.40 0 0.3249 8.25 53.46 1 0.2893 7.35 42.39 2 0.2576 6.54 33.61 3 0.2294 5.83 26.65 4 0.2043 5.19 21.14 5 0.1819 4.62 16.76 6 0.162 4.11 13.29 7 0.1443 3.67 10.55 8 0.1285 3.26 8.36 9 0.1144 2.91 6.63 10 0.1019 2.59 5.26 11 0.0907 2.30 4.17 12 0.0808 2.05 3.31 13 0.072 1.83 2.63 14 0.0641 1.63 2.08 15 0.0571 1.45 1.65 16 0.0508 1.29 1.31 17 0.0453 1.15 1.04 18 0.0403 1.02 0.82 19 0.0359 0.91 0.65 20 0.032 0.81 0.52 21 0.0285 0.72 0.41 22 0.0254 0.65 0.33 23 0.0226 0.57 0.26 24 0.0201 0.51 0.20 25 0.0179 0.45 0.16 26 0.0159 0.40 0.13 27 0.014 0.36 0.096 28 0.013 0.33 0.08 30 0.01 0.25 0.049 32 0.008 0.20 0.031 33 0.0071 0.18 0.026 34 0.0063 0.16 0.020 35 0.0056 0.14 0.015 36 0.005 0.13 0.013 37 0.0045 0.11 0.0095 38 0.0040 0.10 0.0078 39 0.09 0.0064 40 0.08 0.0050 The higher the gauge number, the smaller the diameter, and the thinner the wire. Because of less electrical resistance a thick wire will carry more current with less voltage drop than a thin wire. For a long distance it may be necessary to increase the wire diameter - reducing the gauge - to limit the voltage drop. As the name suggests, American Wire Gauge (AWG) is the United States (US) standard for wire conductor size. Somewhat confusingly, the larger the "gauge", the smaller the diameter and the thinner the wire. The use of AWG cables is still common with the imperial American UL (United Laboratories) system being very dominant worldwide alongside the European metric sizing. We won't express an opinion on imperial vs. metric, but needless-to-say they're both here to stay! We like keeping things simple and below is a handy table for converting the cross sectional AWG cable size to the closest MM2 (square millimetre) size for metric cables. There isn't an exact 1:1 conversion (that would be too easy!) and so we'd recommend you check to make sure the voltage, current capacity and temperature ratings are comparable for the cable you decide to use. It's important to say that the below table should be used for stranded cable conversions only - the most common cable type out there. If you need solid core conversions, we recommend you do a quick search on google. If you want to keep this conversation table guide to hand (who wouldn't!?) you can download the free PDF at the bottom of this article and pin it up on your wall...or stick it in your drawer. AWG to MM2 Conversion Table* * Legal Disclaimer - This chart is correct to our knowledge and we cannot be held responsible for any errors Making life easy for you Our Electrical Connectors range includes both the American AWG imperial and European metric sizing within the technical specifications of the product description, making it easier to match up terminals and cable size. What should we talk about next? We love feedback and receiving new ideas for our articles. If there are any reference guides, tips, hints or general handy information that you think we should be talking about, give us your suggestions by emailing help@jarukindustries.co.uk. The JAR Support Crew Page 2 Great news! You're in the right place for lights-lighting. By now you already know that, whatever you are looking for, you're sure to find it on AliExpress. We literally have thousands of great products in all product categories. Whether you're looking for high-end labels or cheap, economy bulk purchases, we guarantee that it's here on AliExpress. You'll find official stores for brand names alongside small independent discount sellers, all of whom offer quick shipping and reliable, as well as convenient and safe, payment methods, no matter how much you choose to spend. AliExpress will never be beaten on choice, quality and price. 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Our Belden cables and the pairs in instrumentation cable are some of the electrical cables where the conductor size is expressed as an AWG figure. Our Tri-Rated cable, compliant with American standard UL758, can be converted to AWG cable conductor sizes if required. The most common method of referring to conductor sizes uses the cross-sectional area, expressed in mm². The following AWG metric conversion table converts AWG to mm and inches, and also lists the cross sectional area. AWG Metric Conversion Chart (AWG to mm) American Wire Gauge (AWG) Diameter (in) Diameter (mm) Cross sectional area (mm²) 0000 (4/0) 0.460 11.7 107.0 000 (3/0) 0.410 10.4 85.0 00 (2/0) 0.365 9.27 67.4 0 (1/0) 0.325 8.25 53.5 1 0.289 7.35 42.4 2 0.258 6.54 33.6 3 0.229 5.83 26.7 4 0.204 5.19 21.1 5 0.182 4.62 16.8 6 0.162 4.11 13.3 7 0.144 3.67 10.6 8 0.129 3.26 8.36 9 0.114 2.91 6.63 10 0.102 2.59 5.26 11 0.0907 2.30 4.17 12 0.0808 2.05 3.31 13 0.0720 1.83 2.63 14 0.0641 1.63 2.08 15 0.0571 1.45 1.65 16 0.0508 1.29 1.31 17 0.0453 1.15 1.04 18 0.0403 1.02 0.82 19 0.0359 0.91 0.65 20 0.0320 0.81 0.52 21 0.0285 0.72 0.41 22 0.0254 0.65 0.33 23 0.0226 0.57 0.26 24 0.0201 0.51 0.20 25 0.0179 0.45 0.16 26 0.0159 0.40 0.13 If this AWG metric calculator doesn't provide you with the information you need, please get in touch with the technical experts of The Cable Lab who will be pleased to answer your questions or calculate the appropriate AWG/metric size for your installation. 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Please update your records with our new address: 145-B Technology Lane, Henderson, NC 27537 3 Wire North American to International Amperage Comparison International Harmonized North American AWG/Gauge North American Amperage International Amperage 0.75mm² 18 AWG 10 Amps 10 Amps 1.0mm² 17 AWG 10 Amps 10 Amps 1.25mm² 16 AWG 13 Amps 10 Amps 1.5mm² 15 AWG 15 Amps 16 Amps 2.0mm² 14 AWG 18 Amps 20 Amps 2.5mm² 13 AWG N/A 25 Amps 3.0mm² 12 AWG 25 Amps N/A 4.0mm² 11 AWG N/A 34 Amps 5.0mm² 10 AWG 30 Amps N/A 3 Wire North American Conductor Size Jacket Gauge Outer Diameter Conductor Cross-Section Strand Diameter SJT 18 AWG 7.65-7.95mm 0.824mm² 41/ø0.158-0.162 SJT 16 AWG 8.25-8.55mm 1.31mm² 26/ø0.251-0.257 SJT 14 AWG 9.15-9.45mm 2.08mm² 41/ø0.251-0.257 SJT 12 AWG 11.0-11.4mm 3.31mm² 65/ø0.251-0.257 SJT 10 AWG 14.4-14.6mm 5.26mm² 105/ø0.249-0.259 Harmonized Conductor Size Jacket Gauge Outer Diameter Conductor Cross-Section Strand Diameter H05VV-F 0.75mm² 6.55-6.95mm 0.75mm² 24/ø0.190-0.210 H05VV-F 1.0mm² 6.85-7.15mm 1.0mm² 32/ø0.197-0.207 H05VV-F 1.5mm² 8.35-8.65mm 1.5mm² 48/ø0.192-0.212 H05VV-F 2.5mm² 11.5-12.3mm 2.5mm² 50/ø0.247-0.257 H07RN-F 4.0mm² 13.35-14.5mm 4.0mm² 80/ø0.247-0.257 3 Wire Japan & Taiwan Conductor Size Jacket Gauge Outer Diameter Conductor Cross-Section Strand Diameter VCTF 2.0mm² 8.35-8.65mm 2.0mm² 37/ø0.250-0.270 VCTF 3.5mm² 10.15-10.45mm 3.5mm² 70/ø0.249-0.259 VCTF 5.5mm² 12.15-12.45mm 5.5mm² 109/ø0.254-0.260

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