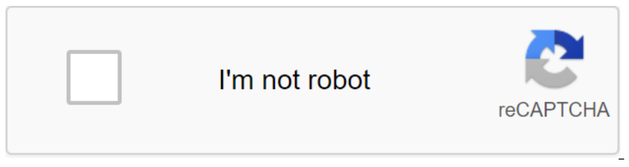
Swg to mm conversion pdf



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Размеры дюйма и миллиметра для размеров Imperial Standard Wire Gauge (SWG), используемые для листового металла и проволоки. Диаграмма SWG to MM Online, которая помогает конвертировать значения из SWG (стандартный блок Wire Gauge) в мм и дюймы. Таблица проволочных датчиков и диаметров показана ниже. SWG (in) (mm) 7/0 0.500 12.700 6/0 0.464 11.786 5/0 0.432 10.973 4/0 0.400 10.160 3/0 0.372 9.449 2/0 0.348 8.839 0 0.324 8.230 1 0.300 7.620 2 0.276 7.010 3 0.252 6.401 4 0.232 5.893 5 0.212 5.385 6 0.192 4.877 7 0.176 4.470 8 0.160 4.064 9 0.144 3.658 10 0.128 3.251 11 0.116 2.946 12 0.104 2.642 13 0.092 2.337 14 0.080 2.032 15 0.072 1.829 16 0.064 1.626 17 0.056 1.422 18 0.048 1.219 19 0.040 1.016 20 0.036 0.914 21 0.032 0.813 22 0.028 0.711 23 0.024 0.610 24 0.022 0.559 25 0.020 0.5080 26 0.018 0.4572 27 0.0164 0.4166 28 0.0148 0.3759 29 0.0136 0.3454 30 0.0124 0.3150 31 0.0116 0.2946 32 0.0108 0.2743 33 0.0100 0.2540 34 0.0092 0.2337 35 0.0084 0.2134 36 0.0076 0.1930 37 0.0068 0.1727 38 0.0060 0.1524 39 0.0052 0.1321 40 0.0048 0.1219 41 0.0044 0.1118 42 0.004 0.1016 43 0.0036 0.0914 44 0.0032 0.0813 45 0.0028 0.0711 46 0.0024 0.0610 47 0.0020 0.0508 48 0.0016 0.0406 49 0.0012 0.0305 50 0.0010 0.0254 Amps to Kilowatts Calculator Amps to Kilovolt-Amps Calculator Amps to Volt-Amps Calculator Energy Consumption Calculator Joules to Watts Calculator Joules to Volts Calculator Kilowatts to Amps Calculator Kilowatts to Volts Calculator Volt-Amps to Amps Calculator Volt-Amps to Watts Calculator Voltage Divider Calculator Volts to Watts Calculator Volts to Kilowatts Calculator Volts to Joules Calculator Volts to Electron-Volts Calculator Online Watts/Volts/Amps/Ohms Calculator Watts to Joules Calculator Watts to Volts Calculator Energy to Power Calculator AWG to Total Area Calculator 1 Swg = 0.300 / 7.620mm 16 Swg = 0.064 / 1.626mm 2 Swg = 0.276 / 7.010mm 17 Swg = 0.056 / 1.422mm 3 Swg = 0.252 / 6.401mm 18 Swg = 0.048 / 1.219mm 4 Swg = 0.232 / 5.893mm 19 Swg = 0.040 / 1.016mm 5 Swg = 0.212 / 5.385mm 20 Swg = 0.036 / 0.914mm 6 Swg = 0.192 / 4.877mm 21 Swg = 0.032 / 0.813mm 7 Swg = 0.176 / 4.470mm 22 Swg = 0.028 / 0.711mm 8 Swg = 0.160 / 4.064mm 23 Swg = 0.024 / 0.610mm 9 Swg = 0.144 / 3.658mm 24 Swg = 0.022 / 0.559mm 10 Swg = 0.128 / 3.251mm 25 Swg = 0.020 / 0.508mm 11 Swg = 0.116 / 2.946mm 26 Swg = 0.018 / 0.457mm 12 Swg = 0.104 / 2.642mm 27 Swg = 0.0164 / 0.417mm 13 Swg = 0.092 / 2.337mm 28 Swg = 0.0148 / 0.376mm 14 Swg = 0.080 / 2.032mm 29 Swg = 0.0136 / 0.345mm 15 Swg = 0.072 / 1.829mm< 30 Swg = 0.0124 / 0.315mm 1/16 1.587 5 5/8 142.874 1/8 3.175 5 3/4 146.049 3/16 4.762 5 7/8 149.223 1/4 6.350 6 152.398 5/16 7.937 6 1/8 155.573 3/8 9.525 6 1/4 158.748 7/16 11.112 6 3/8 161.923 1/2 12.700 6 1/2 165.098 9/16 14.287 6 5/8 168.273 5/8 15.875 6 3/4 171.448 17.462 6 7/8 174.623 3/4 19.050 7 177.798 13/16 20.637 7 1/8 180.973 7/8 22.225 7 1/4 184.148 15/16 23.812 7 3/8 187.323 1 25.400 7 1/2 190.498 1 1/8 28.574 7 5/8 193.673 1 1/4 31.750 7 3/4 196.848 1 3/8 34.925 7 7/8 200.023 1 1/2 38.100 8 203.198 1 5/8 41.275 8 1/8 206.373 1 3/4 44.450 8 1/4 209.548 1 7/8 47.625 8 3/8 212.723 2 50.799 8 1/2 215.898 2 1/8 53.974 8 5/8 219.073 2 1/4 57.149 8 3/4 222.248 2 3/8 60.324 8 7/8 225.423 2 1/2 63.499 9 228.598 2 5/8 66.674 9 1/8 231.773 2 3/4 69.849 9 1/4 234.948 2 7/8 73.024 9 3/8 238.123 3 76.199 9 1/2 241.298 3 1/8 79.374 9 5/8 244.473 3 1/4 82.549 9 3/4 247.647 3 3/8 85.724 9 7/8 250.822 3 1/2 88.899 10 253.997 3 5/8 92.074 10 1/8 257.172 3 3/4 95.249 10 1/4 260.347 3 7/8 98.424 10 3/8 263.522 4 101.599 10 1/2 266.697 4 1/8 104.774 10 5/8 269.872 4 1/4 107.949 10 3/4 273.074 4 3/8 111.124 10 7/8 276.222 4 1/2 114.300 11 279.397 4 5/8 117.474 11 1/8 282.572 4 3/4 120.649 11 1/4 285.747 4 7/8 123.824 11 3/8 288.922 5 126.999 11 1/2 292.097 5 1/8 130.174 11 5/8 295.272 5 1/4 133.524 11 3/4 298.447 5 3/8 136.797 11 7/8 301.622 5 1/2 139.699 12 304.797 To convert Multiply by To convert Multiply by Inches to centimetres 2.54 Ounces to grams 28.3495 Centimetres to inches 0.3937 Grams to ounces 0.03527 Feet to metres 0.3048 Pounds to grams 453.59 Metres to feet 3.2808 Grams to pounds 0.002204 Yards to metres 0.9144 Pounds to kilograms 0.45359 Metres to yards 1.0936 Kilograms to pounds 2.2046 Miles to kilometres 1.6093 Tons (Long) to kilograms 1016.0469 Kilometres to miles 0.6213 Kilograms to tons (Long) 0.000984 To convert Multiply by To convert Multiply by Sq inches to sq centimeters 6.4516 Cu inches up to Cu centimeters 16.387 sq centimeters to square inches 0.155 Cu centimeters up to Cu inches 0.06102 sq ft to sq meters 0.0929 Cu ft up cu meters 0.02831 sq meters up to 10.7639 Cu meters to Cu ft 35.3147 sq meters to sq meters 0.8361 Cu yards Cu meters 0.76455 sq meters to sq meters 1.1959 Cu meters to Cu yards 1.30 7 95 sq m to square kilometers 2.5899 sq km to square miles 0.3861 To convert Multiply by acres per hectare 0.4046 gallons to liters 4,546 hectares per acre 2.471 liters per gallon 0.219 9 Example: 2500 x 1250 x 5mm Formula: 2.5 x 1.25 x 5 x 7.856 (g/cm3) : 2.5 x 1.25 x 8 x 5 and 125 DISCIMERLA : While every effort has been made to make sure that these conversions and formulas are accurate and correct, we are not responsible for any inaccurate or incorrect information obtained on this site. We do not guarantee the accuracy, reliability or completeness of any information contained on this website or to which it has been accessed. As a visitor to our website, you recognize and agree that any reliance on any information available on this website, or its use of any information available on this website, should be entirely on your Risk. In no way metalsupplies.com be для любого прямого, косвенного, последующего или образцового ущерба, связанного с использованием или производительностью этого веб-сайта. Стандартный датчик проволоки (SWG) до мм и мм2 конверисон калькулятор, диаграмма и как преобразовать. SWG to mm conversion calculator SWG calculation SWG to mm conversion chart SWG to mm conversion calculator Wire cross sectional area calculation The n gauge wire's cross sercional area An in square millimeters (mm2) is equal to pi divided by 4 times the square wire diameter d in millimeters (mm): An (mm2) = (π/4)×dn2 SWG to mm conversion chart SWG # Diameter(mm) Area(mm2) 7/0 12.700 126.6769 6/0 11.786 109.0921 5/0 10.973 94.5638 4/0 10.160 81.0732 3/0 9.449 70.1202 2/0 8.839 61.3643 0 8.230 53.1921 1 7.620 45.6037 2 7.010 38.5989 3 6.401 32.1780 4 5.893 27.2730 5 5.385 22.7735 6 4.877 18.6793 7 4.470 15.6958 8 4.064 12.9717 9 3.658 10.5071 10 3.251 8.3019 11 2.946 6.8183 12 2.642 5.4805 13 2.337 4.2888 14 2.032 3.2429 15 1.829 2.6268 16 1.626 2.0755 17 1.422 1.5890 18 1.219 1.1675 19 1.016 0.8107 20 0.914 0.6567 21 0.813 0.5189 22 0.711 0.3973 23 0.610 0.2919 24 0.559 0.2452 25 0.5080 0.2027 26 0.4572 0.1642 27 0.4166 0.1363 28 0.3759 0.1110 29 0.3454 0.0937 30 0.3150 0.0779 31 0.2946 0.0682 32 0.2743 0.0591 33 0.2540 0.0507 34 0.2337 0.0429 35 0.2134 0.0358 36 0.1930 0.0293 37 0.1727 0.0234 38 0.1524 0.0182 39 0.1321 0.0137 40 0.1219 0.0117 41 0.1118 0.0098 42 0.1016 0.0081 43 0.0914 0.0066 44 0.0813 0.0052 45 0.0711 0.0040 46 0.0610 0.0029 47 0.0508 0.0020 48 0.0406 0.0013 49 0.0305 0.0007 50 0.0254 0.0005 See also AWG to mm Wire gauge chart Page 2 #2 American Wiring Gauge (AWG) properties: diameter, area, resistance. #2 AWG diameter #2 AWG area #2 AWG resistance #2 AWG wire diameter The diameter of #2 AWG wire in inches: d2(inch) = 0.005 inch × 92 (36-2)/39 = 0.2576 inch The diameter of #2 AWG wire in millimeters: d2(mm) = 0.127 mm × 92 (36-2)/39 = 6.5437 mm #2 AWG wire area The area of #2 AWG wire in kilo-circular mils: An (kcmil) = 1000×dn2 = 1000×(0.2576 in)2 = 66.3713 kcmil The area of #2 AWG wire in square inches: A2(inch2) = (π/4)×dn2 = (π/4)×(0.2576 in)2 = 0.0521 inch2 The area of #2 AWG wire in square millimeters: A2(mm2) = (π/4)×dn2 = (π/4)×(6.5437 mm)2 = 33.6308 mm2 #2 AWG resistance Wire material Resistivity@20ºC(Ω×m) Resistanceper kilofeet@20ºC(Ω/kft) Resistanceper kilometer@20ºC(Ω/km) Copper 1.72×10-8 0.1559 0.5114 Aluminum 2.82×10-8 0.2556 0.8385 Carbon steel 1.43×10-7 1.2960 4.2521 Electrical steel 4.60×10-7 4.1690 13.6779 Gold 2.44×10-8 0.2211 0.7255 Nichrome 1.1× 10-6 9.9694 32.7081 Никель 6.99×10-8 0.6335 2.0784 Серебро 1.59×10-8 0.1441 0.472 8 - Результаты могут меняться с реальными проводами: различная резистентность материала и количество нитей в сопротивлении провода провода на ногу N датчика сопротивления провода R в ohms на килофет (Ω/kft) равна 0.3048×100000000 раз сопротивление (Ω·m) divided by 25.42 times the cross sectional area An in square inches (in2): Rn (Ω/kft) = 0.3048 × 109 × ρ(Ω·m) / (25.42 × An (in2)) Resistance per meter The n gauge wire resistance R in ohms per kilometer (Ω/km) is equal to 1000000000 times the wire's resistivity ρ in ohm-meters (Ω·m) divided by the cross sectional area An in square millimeters (mm2): Rn (Ω/km) = 109 × ρ(Ω·m) / An (mm2) See also Wire gauge chart AWG to mm SWG to mm Wire Number Standard Wire Guage Standard Wire Guage American Wire Guage American Wire Guage (Gauge) SWG (mm) SWG (inches) (AWG or B&S) mm (AWG or B&S) inches 0000000 (7/0) 12.7 0.5 000000 (6/0) 11.7856 0.464 14.732 0.58 00000 (5/0) 10.9728 0.432 13.1191 0.5165 0000 (4/0) 10.16 0.4 11.684 0.46 000 (3/0) 9.4488 0.372 10.40491 0.409642 00 (2/0) 8.8392 0.348 9.265818 0.364796 0 (1/0) 8.2296 0.324 8.251469 0.324861 1 7.62 0.3 7.348144 0.289297 2 7.0104 0.276 6.543726 0.257627 3 6.4008 0.252 5.827344 0.229423 4 5.8928 0.232 5.18922 0.2043 5 5.3848 0.212 4.62026 0.1819 Wire Number Standard Wire Guage Standard Wire Guage American Wire Guage American Wire Guage (Gauge) SWG (mm) SWG (inches) (AWG or B&S) mm (AWG or B&S) inches 6 4.8768 0.192 4.1148 0.162 7 4.4704 0.176 3.66522 0.1443 8 4.064 0.16 3.2639 0.1285 9 3.6576 0.144 2.90576 0.1144 10 3.2512 0.128 2.58826 0.1019 11 2.9464 0.116 2.30378 0.0907 12 2.6416 0.104 2.05232 0.0808 13 2.3368 0.092 1.8288 0.072 14 2.032 0.08 1.62814 0.0641 15 1.8288 0.072 1.45034 0.0571 16 1.6256 0.064 1.29032 0.0508 17 1.4224 0.056 1.15062 0.0453 Wire Number Standard Wire Guage Standard Wire Guage American Wire Guage American Wire Guage (Gauge) SWG (mm) SWG (inches) (AWG or B&S) mm (AWG or B&S) inches 18 1.2192 0.048 1.02362 0.0403 19 1.016 0.04 0.91186 0.0359 20 0.9144 0.036 0.8128 0.032 21 0.8128 0.032 0.7239 0.0285 22 0.7112 0.028 0.64262 0.0253 23 0.6096 0.024 0.57404 0.0226 24 0.5588 0.022 0.51054 0.0201 25 0.508 0.02 0.45466 0.0179 26 0.4572 0.018 0.40386 0.0159 27 0.41656 0.0164 0.36068 0.0142 28 0.37592 0.0148 0.32004 0.0126 29 0.34544 0.0136 0.28702 0.0113 Wire Number Standard Wire Guage Standard Wire Guage American Wire Guage American Wire Guage (Gauge) SWG (mm) SWG (inches) (AWG or B&S) mm (AWG or B&S) inches 30 0.31496 0.0124 0.254 0.01 31 0.29464 0.0116 0.22606 0.0089 32 0.27432 0.0108 0.2032 0.008 33 0.254 0.01 0.18034 0.0071 34 0.23368 0.0092 0.16002 0.0063 35 0.21336 0.0084 0.14224 0.0056 36 0.19304 0.0076 0.127 0.005 37 0.17272 0.0068 0.1143 0.0045 38 0.1524 0.006 0.1016 0.004 39 0.13208 0.0052 0.0889 0.0035 40 0.12192 0.0048 0.07874 0.0031 41 0.11176 0.0044 0.07112 0.0028 Wire Number Standard Wire Guage Standard Wire Guage American Wire Guage American Wire Guage (Gauge) SWG (mm) SWG (inches) (AWG or B&S) mm (AWG or B&S) inches 42 0.1016 0.004 0.0635 0.0025 43 0.09144 0.0036 0.05588 0.0022 44 0.08128 0.0032 0.0508 0.002 45 0.07112 0.04572 0.0018 0.0018 0.06096 0.0024 0.04064 0.0016 47 0.0508 0.002 0.03556 0.0014 48 0.04064 0.0.00016 0.03048 0.0012 49 0.03048 0.0012 0.02794 0.0011 50 0.0254 0.00 1 0.025 4 0.001 51 0.02352 0.00088 52 0.019812 0.00078 53 0.01778 0.0007 5 4 0.01574 8 0.00062 55 0.01397 0.00055 56 0.012446 0.00049 Note: Due to the fact that attachment applications are very different, The above information is only for guidance and is correct to the best of our knowledge. 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