

Wire - AWM Hook-up Wire

Applications

AWM Hook-up Wire conductors are primarily used in control cabinets, Industrial Machinery applications, and appliance wiring applications. Also for compliance in accordance with the National Electrical Code (NEC) and NFPA Standard 79. Voltage rating for all applications is 300 volts.

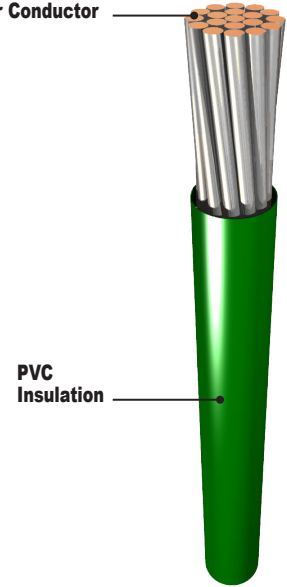
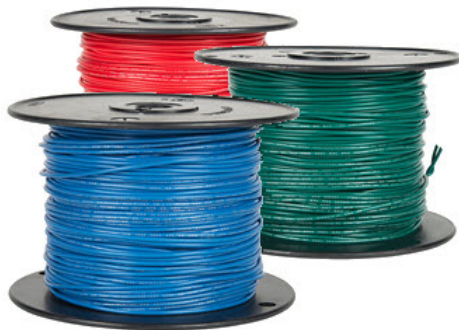
Features

- Gauges from 26AWG to 16AWG
- Tinned copper conductor
- Color-coded Polyvinyl Chloride (PVC) outer jacket
- Striped version available for some colors and gauges
- Multiple ratings and approvals
- 500ft or 1000ft spools available
- Made in the USA

AWM Hook-up Wire

Tinned Stranded Copper Conductor

PVC Insulation



AWM Hook-up Wire Specifications

| Size (AWG or kcmil) | Number of Strands | mm ² Equivalent | Insulation Thickness (inches) | Overall Outside Diameter | | Allowable Ampacities* | | | Agency Approvals | Temperature Rating per UL1007/UL1569 | Approximate Weight (lbs) 500ft/1000ft | Standard Packaging (Spool/Reel) |
|---------------------|-------------------|----------------------------|-------------------------------|--------------------------|------|-----------------------|---------------|---------------|----------------------------------|--------------------------------------|---------------------------------------|---------------------------------|
| | | | | (inches) | (mm) | 60°C (140 °F) | 75°C (167 °F) | 90°C (194 °F) | | | | |
| 26 | 7 | 0.14 | 0.016 | 0.051 | 1.29 | - | 1 | 1 | RoHS Compliant UL1569, UL1007 | 80°C (176°F) 105°C (221°F) | 0.98/1.96 | 1000ft |
| 24 | 7 | 0.25 | 0.016 | 0.056 | 1.42 | 2 | 2 | 2 | | | 1.31/2.61 | |
| 22 | 7 | 0.34 | 0.016 | 0.062 | 1.58 | 3 | 3 | 3 | | | 1.8/3.6 | |
| 20 | 10 | 0.38 | 0.016 | 0.070 | 1.78 | 5 | 5 | 5 | | | 2.42/4.83 | 500ft |
| 18 | 16 | 0.75 | 0.016 | 0.080 | 2.08 | 7 | 7 | 14 | | | 3.47/6.94 | |
| 16 | 26 | 1.50 | 0.016 | 0.091 | 2.31 | 10 | 10 | 18 | | | 5.20/10.4 | |

*Note: Allowable ampacity shown above is per the NFPA79 Electrical Standard for Industrial Machinery 2018 Table 12.5.1 Conductor Ampacity Based on Copper Conductors with 60 °C [140 °F], 75 °C [167 °F], and 90 °C [194 °F] Insulation in an Ambient Temperature of 30 C [86F]. The above data is approximate and subject to normal manufacturing tolerance.
 Product Color Disclaimer: The product photos shown are representative of our wire colors. The actual wire colors may vary from the images shown. Although our suppliers maintain a high-quality standard, there can be color variation from production. As a result, we cannot guarantee color spools will match up perfectly.
 **Note: Unless specifically permitted elsewhere in NFPA 70 overcurrent protection should not exceed 10 amps 16AWG, 15 amps for 14AWG, 20 amps for 12AWG, and 30 amps for 10AWG.
 To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

Please Note: Our prices on wire are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

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| AWM Hook-up Wire | | | | | | |
|----------------------------|--------------------------|---------|---|-------------------|----------------------|---------|
| Part Number | Insulation Color | Gauge | Description | Spool/Reel Length | Approx. Weight | Price |
| AWM26BL10 | blue | 26 AWG | Type AWM, single conductor, 7-stranded, tinned copper, PVC conductor insulation material, 300 Volts | 1000ft | 1.96 lb [0.89 kg] | \$32.75 |
| AWM26BK10 | black | | | | | \$32.75 |
| AWM26RD10 | red | | | | | \$32.75 |
| AWM26WH10 | white | | | | | \$32.75 |
| AWM26BW10 | blue with white stripe | | | | | \$44.25 |
| AWM26BN10 | brown | | | | | \$32.75 |
| AWM26GN10 | green | | | | | \$32.75 |
| AWM26OR10 | orange | | | | | \$32.75 |
| AWM26YL10 | yellow | | | | | \$32.75 |
| AWM26GY10 | gray | | | | | \$32.75 |
| AWM26WB10 | white with blue stripe | | | | | \$44.25 |
| AWM26PL10 | purple | | | | | \$32.75 |
| AWM26GYL10 | green with yellow stripe | | | | | \$44.25 |
| AWM24BL10 | blue | | | | | 24 AWG |
| AWM24BK10 | black | \$38.50 | | | | |
| AWM24RD10 | red | \$38.50 | | | | |
| AWM24WH10 | white | \$38.50 | | | | |
| AWM24BW10 | blue with white stripe | \$49.75 | | | | |
| AWM24BN10 | brown | \$38.50 | | | | |
| AWM24GN10 | green | \$38.50 | | | | |
| AWM24OR10 | orange | \$38.50 | | | | |
| AWM24YL10 | yellow | \$38.50 | | | | |
| AWM24GY10 | gray | \$38.50 | | | | |
| AWM24WB10 | white with blue stripe | \$49.75 | | | | |
| AWM24PL10 | purple | \$38.50 | | | | |
| AWM24GYL10 | green with yellow stripe | \$49.75 | | | | |
| AWM22BL10 | blue | 22 AWG | Type AWM, single conductor, 7-stranded, tinned copper, PVC conductor insulation material, 300 Volts | 1000ft | 3.6 lb [1.63 kg] | |
| AWM22BK10 | black | | | | | \$47.75 |
| AWM22RD10 | red | | | | | \$47.75 |
| AWM22WH10 | white | | | | | \$47.75 |
| AWM22BW10 | blue with white stripe | | | | | \$59.00 |
| AWM22BN10 | brown | | | | | \$47.75 |
| AWM22GN10 | green | | | | | \$47.75 |
| AWM22OR10 | orange | | | | | \$47.75 |
| AWM22YL10 | yellow | | | | | \$47.75 |
| AWM22GY10 | gray | | | | | \$47.75 |
| AWM22WB10 | white with blue stripe | | | | | \$59.00 |
| AWM22PL10 | purple | | | | | \$47.75 |
| AWM22GYL10 | green with yellow stripe | | | | | \$59.00 |
| AWM20BL | blue | | | | | 20 AWG |
| AWM20BK | black | \$31.00 | | | | |
| AWM20RD | red | \$31.00 | | | | |
| AWM20WH | white | \$31.00 | | | | |
| AWM20BW | blue with white stripe | \$36.50 | | | | |
| AWM20BN | brown | \$31.00 | | | | |
| AWM20GN | green | \$31.00 | | | | |
| AWM20OR | orange | \$31.00 | | | | |
| AWM20YL | yellow | \$31.00 | | | | |
| AWM20GY | gray | \$31.00 | | | | |
| AWM20WB | white with blue stripe | \$36.50 | | | | |
| AWM20PL | purple | \$31.00 | | | | |
| AWM20GYL | green with yellow stripe | \$36.50 | | | | |

Wire - AWM Hook-up Wire

| AWM Hook-up Wire | | | | | | |
|--------------------------|--------------------------|---------|--|-------------------|----------------------|---------|
| Part Number | Insulation Color | Gauge | Description | Spool/Reel Length | Approx. Weight | Price |
| AWM18BL | blue | 18 AWG | Type AWM, single conductor, 16-stranded, tinned copper, PVC conductor insulation material, 300 Volts | 500ft | 3.86 lb [1.75 kg] | \$38.75 |
| AWM18BK | black | | | | | \$38.75 |
| AWM18RD | red | | | | | \$38.75 |
| AWM18WH | white | | | | | \$38.75 |
| AWM18BW | blue with white stripe | | | | | \$44.50 |
| AWM18BN | brown | | | | | \$38.75 |
| AWM18GN | green | | | | | \$38.75 |
| AWM18OR | orange | | | | | \$38.75 |
| AWM18YL | yellow | | | | | \$38.75 |
| AWM18GY | gray | | | | | \$38.75 |
| AWM18WB | white with blue stripe | | | | | \$44.50 |
| AWM18PL | purple | | | | | \$38.75 |
| AWM18GYL | green with yellow stripe | | | | | \$44.50 |
| AWM16BL | blue | | | | | 16 AWG |
| AWM16BK | black | \$54.50 | | | | |
| AWM16RD | red | \$54.50 | | | | |
| AWM16WH | white | \$54.50 | | | | |
| AWM16BW | blue with white stripe | \$60.25 | | | | |
| AWM16BN | brown | \$54.50 | | | | |
| AWM16GN | green | \$54.50 | | | | |
| AWM16OR | orange | \$54.50 | | | | |
| AWM16YL | yellow | \$54.50 | | | | |
| AWM16GY | gray | \$54.50 | | | | |
| AWM16WB | white with blue stripe | \$60.25 | | | | |
| AWM16PL | purple | \$54.50 | | | | |
| AWM16GYL | green with yellow stripe | \$60.25 | | | | |

Wire - AWM Hook-up Wire

Gauge Conversion Table

| American Wire Gauge Conversion Chart* | | | |
|---|------|---------|-----|
| This cross reference shows equivalent nominal values. Actual cross sections may vary. | | | |
| AWG | mm2 | AWG | mm2 |
| 30 | 0.05 | 6 | 16 |
| 28 | 0.08 | 4 | 25 |
| 26 | 0.14 | 2 | 35 |
| 24 | 0.25 | 1 | 50 |
| 22 | 0.34 | 1/0 | 55 |
| 21 | 0.38 | 2/0 | 70 |
| 20 | 0.50 | 3/0 | 95 |
| 18 | 0.75 | 4/0 | 120 |
| 17 | 1.00 | 300MCM | 150 |
| 16 | 1.50 | 350MCM | 185 |
| 14 | 2.50 | 500MCM | 240 |
| 12 | 4 | 600MCM | 300 |
| 10 | 6 | 750MCM | 400 |
| 8 | 10 | 1000MCM | 500 |

**Note: Table shows commercially used equivalent values.*

Conductor Ampacity Table

| Allowable Ampacity | | | |
|---------------------------|--------------|--------------|--------------|
| AWG | 60°C [140°F] | 75°C [167°F] | 90°C [194°F] |
| 30 | — | 0.5 | 0.5 |
| 28 | — | 0.8 | 0.8 |
| 26 | — | 1 | 1 |
| 24 | 2 | 2 | 2 |
| 22 | 3 | 3 | 3 |
| 20 | 5 | 5 | 5 |
| 18 | 7 | 7 | 14 |
| 16** | 10 | 10 | 18 |
| 14** | 20 | 20 | 25 |
| 12** | 25 | 25 | 30 |
| 10** | 30 | 35 | 40 |
| 8 | 40 | 50 | 55 |
| 6 | 55 | 65 | 75 |
| 4 | 70 | 85 | 95 |
| 3 | 85 | 100 | 110 |
| 2 | 95 | 115 | 130 |
| 1 | 110 | 130 | 150 |
| 1/0 | 125 | 150 | 170 |
| 2/0 | 145 | 175 | 195 |
| 3/0 | 165 | 200 | 225 |
| 4/0 | 195 | 230 | 260 |
| 250MCM | 215 | 255 | 290 |
| 300MCM | 240 | 285 | 320 |
| 350MCM | 260 | 310 | 350 |
| 400MCM | 280 | 335 | 380 |
| 500MCM | 320 | 380 | 430 |
| 600MCM | 355 | 420 | 475 |
| 700MCM | 385 | 460 | 520 |
| 750MCM | 400 | 475 | 535 |
| 800MCM | 410 | 490 | 555 |
| 900MCM | 435 | 520 | 585 |
| 1000MCM | 455 | 545 | 615 |

**Note: Allowable ampacity shown above is per NFPA79 Electrical Standard for Industrial Machinery 2018 Table 12.5.1 Conductor Ampacity Based on Copper Conductors with 60°C [140°F], 75°C [167°F], and 90°C [194°F] Insulation in an Ambient Temperature of 30°C [86°F]*
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