

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.

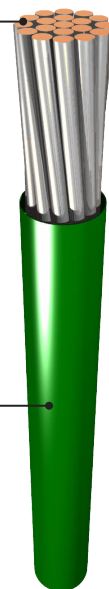
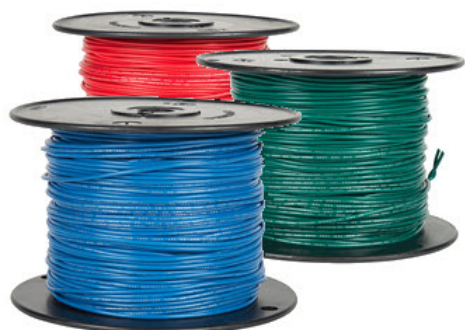
Features

- 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	Overall Outside Diameter		Allowable Ampacities*			Agency Approvals	Temperature Rating per UL1007/ UL1569	Approximate Weight (lbs) 500ft/1000ft	Standard Packaging (Spool/Reel)
			(inches)	(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 [86°F]. 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.

Wire - AWM Hook-up Wire

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]	\$;5z x:
AWM26BK10	black					\$;5z y:
AWM26RD10	red					\$;5z z:
AWM26WH10	white					\$;5z]:
AWM26BW10	blue with white stripe					\$;5z [:
AWM26BN10	brown					\$;5z _:
AWM26GN10	green					\$;5z #:
AWM26OR10	orange					\$;5z !:
AWM26YL10	yellow					\$;5z ?:
AWM26GY10	gray					\$;5z _:
AWM26WB10	white with blue stripe					\$;5z 0:
AWM26PL10	purple					\$;5z 1:
AWM26GYL10	green with yellow stripe					\$;5z 2:
AWM24BL10	blue	24 AWG	Type AWM, single conductor, 7-stranded, tinned copper, PVC conductor insulation material, 300 Volts	1000ft	2.61 lb [1.18 kg]	\$;5z 3:
AWM24BK10	black					\$;5z 4:
AWM24RD10	red					\$;5z 5:
AWM24WH10	white					\$;5z 6:
AWM24BW10	blue with white stripe					\$;5z 7:
AWM24BN10	brown					\$;5z 8:
AWM24GN10	green					\$;5z 9:
AWM24OR10	orange					\$;5z a:
AWM24YL10	yellow					\$;5z b:
AWM24GY10	gray					\$;5z c:
AWM24WB10	white with blue stripe					\$;5z d:
AWM24PL10	purple					\$;5z e:
AWM24GYL10	green with yellow stripe					\$;5z f:
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]	\$;5z g:
AWM22BK10	black					\$;5z h:
AWM22RD10	red					\$;5z i:
AWM22WH10	white					\$;5z j:
AWM22BW10	blue with white stripe					\$;5z k:
AWM22BN10	brown					\$;5z l:
AWM22GN10	green					\$;5z n:
AWM22OR10	orange					\$;5z o:
AWM22YL10	yellow					\$;5z p:
AWM22GY10	gray					\$;5z q:
AWM22WB10	white with blue stripe					\$;5z s:
AWM22PL10	purple					\$;5z t:
AWM22GYL10	green with yellow stripe					\$;5z u:
AWM20BL	blue	20 AWG	Type AWM, single conductor, 10-stranded, tinned copper, PVC conductor insulation material, 300 Volts	500ft	2.41 lb [1.09 kg]	\$;5z v:
AWM20BK	black					\$;5z x:
AWM20RD	red					\$;5z y:
AWM20WH	white					\$;5z z:
AWM20BW	blue with white stripe					\$;5z]:
AWM20BN	brown					\$;5z [:
AWM20GN	green					\$;5z _:
AWM20OR	orange					\$;5z #:
AWM20YL	yellow					\$;5z !:
AWM20GY	gray					\$;5z ?:
AWM20WB	white with blue stripe					\$;5z _:
AWM20PL	purple					\$5z_0:
AWM20GYL	green with yellow stripe					\$5z_1:

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]	\$5z_2:
AWM18BK	black					\$5z_3:
AWM18RD	red					\$5z_4:
AWM18WH	white					\$5z_5:
AWM18BW	blue with white stripe					\$5z_6:
AWM18BN	brown					\$5z_7:
AWM18GN	green					\$5z_8:
AWM18OR	orange					\$5z_9:
AWM18YL	yellow					\$5z_a:
AWM18GY	gray					\$5z_b:
AWM18WB	white with blue stripe					\$5z_c:
AWM18PL	purple					\$5z_d:
AWM18GYL	green with yellow stripe					\$5z_e:
AWM16BL	blue	16 AWG	Type AWM, single conductor, 26-stranded, tinned copper, PVC conductor insulation material, 300 Volts	500ft	3.47 lb [1.57 kg]	\$5z_f:
AWM16BK	black					\$5z_g:
AWM16RD	red					\$5z_h:
AWM16WH	white					\$5z_i:
AWM16BW	blue with white stripe					\$5z_j:
AWM16BN	brown					\$5z_k:
AWM16GN	green					\$5z_l:
AWM16OR	orange					\$5z_n:
AWM16YL	yellow					\$5z_o:
AWM16GY	gray					\$5z_p:
AWM16WB	white with blue stripe					\$5z_q:
AWM16PL	purple					\$5z_s:
AWM16GYL	green with yellow stripe					\$5z_t:

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]

**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.