

HOOK-UP WIRE

MTW/TEW

or AWM

600 Volts. Copper Conductor. Polyvinyl Chloride (PVC) Insulation.
Heat, Moisture, and Oil Resistant. AWG Sizes 18 through 2 rated
MTW/TEW or AWM. All sizes meet UL VW-1 and Oil Resistant I.
AWG sizes 14 through 2 meet oil resistant II and THW-2 and AWG sizes 18 and 16 meet TFF.
All sizes meet CSA FT-1 and Oil Resistant I. RoHS



APPLICATIONS

Southwire Type MTW/TEW or AWM is used for machine tool wiring and internal wiring of appliances. Typical applications include wiring for refrigeration equipment, air-conditioning equipment, control wiring of machine tools, automatic washers, etc. Type MTW rating permits use in (i) dry locations not to exceed 90°C (ampacity is limited to 75°C conductor temperature per NFPA 79); or (ii) wet locations or other applicable locations when exposed to oil or coolant at temperatures not to exceed 60°C. Type TEW rating permits use in (i) dry locations not to exceed 105°C; or (ii) wet locations or other applicable locations when exposed to oil or coolant at temperatures not to exceed 60°C. When used as AWM, intended uses are limited to dry locations at temperatures not to exceed 105°C (applicable to both UL and CSA ratings). Standard product is marked Style 1015 and various other styles.

SPECIFICATIONS

Southwire Type MTW/TEW or AWM-I A meets or exceeds all applicable requirements of:

- ASTM B174 Sizes 18 - 10 AWG). ASTM B787 Sizes 8 - 2 AWG)
- UL 1063, 1015 and Subject 758
- CSA C22.2 No. 127-95 and No. 210.2-95
- Federal and Military Specification J-C-30B
- National Electrical Code NFPA 70 and 79
- OSHA acceptable
- RoHS Compliant.
- All sizes meet UL VW-1, CSA FT-1

CONSTRUCTION



greenSpec™
RoHS Compliant

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MTW/TEW or AWM-I A

Southwire Type MTW/TEW or AWM-I A construction consists of bare copper conductors, Class K Flexible strands for sizes 18 through 10 AWG and Combination Unilay for sizes 8 through 2 AWG, and a tough, heat- and moisture-resistant PVC insulation. Construction is available in twelve colors: black, white, red, blue, green, yellow, orange, brown, purple, grey, pink, and tan. Some colors subject to minimum order quantity.



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MTW/TEW or AWM-I A

Conductor		Insulation Thickness (mils)	Nominal O.D. (mils)	Approx. Net Weight (lbs./1000 ft.)	Allowable Ampacities+		Standard Packaging
Size (AWG)	Stranding				60°C	75°C	
18	7	30	109	10	7	7	500 ft. spool
18	16	30	107	9	7	7	500 ft. spool
18	26	30	107	9	7	7	500 ft. spool
18	41	30	108	9	7	7	500 ft. spool
16	7	30	118	13	10	10	500 ft. spool
16	16	30	120	13	10	10	500 ft. spool
16	26	30	121	13	10	10	500 ft. spool
14	10	30	136	19	15	15	500 ft. spool
14	26	30	136	19	15	15	500 ft. spool
14	41	30	132	19	15	15	500 ft. spool
14	65	30	137	19	15	15	500 ft. spool
14	104	30	137	19	15	15	500 ft. spool
12	16	30	155	27	20	20	500 ft. spool
12	41	30	154	27	20	20	500 ft. spool
12	65	30	154	27	20	20	500 ft. spool
10	26	30	179	42	30	30	500 ft. spool
10	65	30	174	40	30	30	500 ft. spool
10	104	30	176	40	30	30	500 ft. spool
10	165	30	176	40	30	30	500 ft. spool
8	7	45	233	67	40	50	500 ft. spool
8	19	45	261	73	40	50	500 ft. spool
6	7	60	299	108	55	65	500 ft. spool
6	19	60	340	120	55	65	500 ft. spool
4	7	60	357	163	70	85	500 ft. reel
4	19	60	346	162	70	85	500 ft. reel
2	7	60	406	246	85	100	500 ft. reel
2	19	60	466	270	85	100	500 ft. reel

+ Allowable Ampacity shown for general use as specified by the National Electrical Code, 2002 Edition, Section 310.15.
60°C - When terminated to equipment for circuits rated 100 amperes or less or marked for #14 through #1 conductors. MTW wet locations or when exposed to oil.
75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than #1. MTW dry locations or when exposed to oil.
*Ampacities shown for MTW as specified by NFPA 79.



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