

ROME MACHINE TOOL WIRE

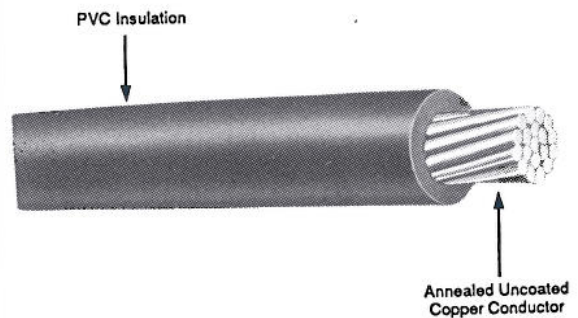
PVC Insulation, 600 Volts
Multi-Rated MTW, THW, AWM, TEW105°C

APPLICATIONS: For wiring of machine tools, appliances and internal wiring in electrical equipment in control and power circuits not exceeding 600 volts. Suitable for use as Machine Tool Wire at 90°C and lower temperatures in dry locations and at 60°C where exposed to moisture, oil, or coolants - such as cutting oils. Also suitable for general purpose wiring as Type THW in accordance with the NEC.

STANDARDS:

1. Conforms to Underwriters Laboratories Standard 1063 for Machine Tool Wires and Cables.
2. Conforms to Underwriters Laboratories Standard 83 for Thermoplastic Insulated Wires.
3. Also multi-listed by Underwriters Laboratories as Appliance Wiring Material as follows:
 - (a) AWM Styles 1344, 1345, 1346-105°C in air, 75°C moisture resistant, 60°C oil resistant.
 - (b) AWM Styles 1230, 1231, 1232-105°C in air, 60°C moisture resistant, 60°C oil resistant.
 - (c) AWM Styles 1015, 1028, 1283-105°C in air, 60°C oil resistant.
4. Meets VW-1 flame test requirement of UL and FT-1 flame test requirement of CSA.
5. Approved by Canadian Standards Association as Thermoplastic Equipment Wire Type TEW rated 600 volts, 105°C in air, 60°C in oil.
6. Conforms to National Fire Protection Association Electrical Standard for Metal Working Machine Tools (ANSI/NFPA79).

CONSTRUCTION: Annealed uncoated copper conductor, PVC insulation, surface printed.



Size AWG	No. of Strands	Insulation Thickness Mils	Nominal Diam. Inches	Approx. Net Wt. Lb./1000	UL AWM Style Numbers
Multi-Listed as: MTW or THW or 105°C AWM or TEW 105°C					
14	19	30	.14	18	1345, 1230, 1015
12	19	30	.16	27	1345, 1230, 1015
10	19	30	.18	40	1345, 1230, 1015
8	19	45	.24	67	1344, 1231, 1028
Multi-Listed as: MTW or THW or 105°C AWM or TEW 105°C					
14	19	45	.17	22	1344, 1231, 1028
12	19	45	.19	31	1344, 1231, 1028
10	19	45	.21	45	1344, 1231, 1028
8	19	60	.27	75	1346, 1232, 1283
6	19	60	.31	108	1346, 1232, 1283
4	19	60	.36	162	1346, 1232, 1283
2	19	60	.42	245	1346, 1232, 1283

Information on this sheet subject to change without notice.

Specification

ROME MACHINE TOOL WIRE

PVC Insulated, 600 Volts
Multi-Rated MTW, THW, AWM, TEW105°C

1. SCOPE

- 1.1 This specification describes multi-rated single conductor, 600 volt Rome PVC Machine Tool Wire suitable for wiring of machine tools, appliances and internal wiring in electrical equipment in control and power circuits where exposed to temperatures not exceeding 90°C in dry locations and at 60°C and lower temperatures where exposed to moisture, oil and coolants such as cutting oils. Also suitable for use as Type THW for general purpose wiring in accordance with the National Electrical Code.

2. APPLICABLE STANDARDS

- 2.1 The following standards form a part of this specification to the extent specified herein:
 - 2.1.1 Underwriters Laboratories Standard 1063 for Machine Tool Wire.
 - 2.1.2 Underwriters Laboratories Standard 83 for Thermoplastic Insulated Wires.
 - 2.1.3 Underwriters Laboratories Subject 758 for Appliance Wiring Material.
 - 2.1.4 Underwriters Laboratories Standard 83 for Thermoplastic-Insulated Wire.
 - 2.1.5 National Fire Protection Association Electrical Standard No. 79 for Metal Working Machine Tools.
 - 2.1.6 Canadian Standards Association Standard C22.2 No. 127 for Equipment Wires.

3. CONDUCTORS

- 3.1 The conductor shall be stranded, annealed, uncoated copper per UL Standards 1063, 83, UL Subject 758 and National Fire Protection Association Electrical Standard No. 79.

4. INSULATION

- 4.1 The conductor shall be insulated with PVC complying with the physical and electrical requirements of UL Standard 1063, UL Standard 83 and CSA Standard C22.2 No. 127 for Type TEW 105°C Thermoplastic Equipment Wire.
- 4.2 The insulation shall comply with the requirements of UL's VW-1 (Vertical Wire) flame test and CSA's FT-1 flame test.

5. IDENTIFICATION

- 5.1 The wire shall be identified by surface marking indicating manufacturer's identification, conductor size, voltage rating, UL Symbol, VW-1, UL and CSA designations.

6. TESTS

- 6.1 The wire shall be tested in accordance with the requirements of UL Standard 1063 for Machine Tool Wire, UL Standard 83 for Type THW and CSA Standard C22.2 No. 127 for Type TEW 105°C Equipment Wire.

7. LABELS

- 7.1 The wire shall bear the UL label for Machine Tool Wire and the CSA label for Equipment Wire.