

ROME TW

PVC Insulation, 600 Volts

<p>APPLICATION: General purpose wiring for lighting and power - residential, commercial, industrial buildings in accordance with National Electrical Code, maximum conductor temperature of 60°C in wet or dry locations, for circuits not exceeding 600 volts.</p> <p>STANDARDS:</p> <ol style="list-style-type: none"> Listed by Underwriters Laboratories as Type TW per UL Standard 63 for Thermoplastic-Insulated Wires All sizes carry the VW-1 designation. Conforms to Federal Specification J-C-30B. <p>CONSTRUCTION: Annealed uncoated copper conductor, PVC insulation, surface printed.</p>					<p>PVC Insulation</p> <p>Uncoated Copper Conductor</p>																																									
Size AWG	No. of Strands	Insulation Thickness Mils	Nom. Diam. Inches	NEC Am- perity	Approx. Wt. Lb./1000 Ft.		Put-up	Stock Items ⁽¹⁾																																						
					Net	Ship- ping		1	2	3	4	5	6	7	8	9	10	11	12																											
Solid																																														
14	Solid	30	.13	20 [†]	19	19	500' Spools																																							
12	Solid	30	.15	25 [†]	26	27	500' Spools																																							
10	Solid	30	.17	30	39	41	500' Spools																																							
Stranded																																														
14	7	30	.14	20 [†]	19	20	500' Spools																																							
12	7	30	.16	25 [†]	28	29	500' Spools																																							
10	7	30	.18	30	41	44	500' Spools																																							
8	7	45	.24	40	67	70	500' Spools																																							

[†] Amperity in accordance with NEC for not more than three conductors in raceway, 60°C conductor temperature and 30°C ambient in wet or dry locations.
 † The over current protection shall not exceed 15 amperes for 14 AWG and 20 amperes for 12 AWG copper.

NOTES: ⁽¹⁾ Color Code: 1 black, 2 white, 3 red, 4 blue, 5 green, 6 yellow, 7 orange, 8 brown, 9 purple, 10 pink, 11 gray, 12 tan.

Information on this sheet subject to change without notice.

Specification

ROME TW

PVC Insulation, 600 Volts

1. SCOPE

- 1.1 This specification describes single conductor Rome TW, a general purpose building wire insulated with polyvinyl chloride (PVC) intended for lighting and power circuits at 600 volts or less, in residential, commercial and industrial buildings. The wire may be operated at 60°C maximum continuous conductor temperature in wet or dry locations and is listed by Underwriters Laboratories for use in accordance with Article 310 of the National Electrical Code. All cables comply with UL's VW-1 (Vertical-Wire) Flame Test.

2. APPLICABLE SPECIFICATIONS

- 2.1 The following specifications form a part of this specification to the extent specified herein:
- 2.1.1 Underwriters Laboratories Standard 83 for Thermoplastic-Insulated Wires.
 - 2.1.2 Federal Specification J-C-30B.

3. CONDUCTOR

- 3.1 Conductors shall be solid or Class B stranded, annealed uncoated copper per UL Standard 83.

4. INSULATION

- 4.1 Each conductor shall be insulated with PVC complying with the physical and electrical requirements of UL Standard 83 for Type TW. In addition, the PVC insulation shall comply with the optional Oil Resistant I and VW-1 (Vertical-Wire) Flame Test rating of UL Standard 83.
- 4.2 The average thickness of insulation, for a given conductor size, shall be as specified in UL Standard 83 for Type TW wire. The minimum thickness at any point shall be not less than 90% of the specified average thickness. The insulation shall be applied tightly to the conductor and shall be free-stripping.

5. IDENTIFICATION

- 5.1 The wire shall be identified by surface marking indicating manufacturer's identification, conductor size and metal voltage rating, UL Symbol, VW-1, type designation and optional ratings.

6. TESTS

- 6.1 Wire shall be tested in accordance with the requirements of UL Standard 83 for Type TW and for the optional oil and flame retardant (VW-1) approvals.