

ROME VW-1 XHHW-2

Rome FR-XLP Insulation, 600 Volts

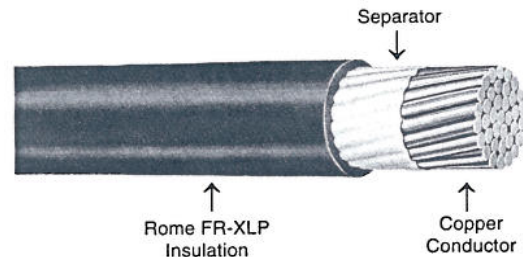
APPLICATION:

1. General purpose wiring for lighting and power - residential, commercial, industrial buildings in accordance with National Electrical Code, maximum conductor temperature of 90°C in wet or dry locations, 600 volts, for installation in conduit or other recognized raceways where a cable having superior flame retardance is required.
2. Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less, such as isolated circuits supplying anesthetizing locations per Article 517.160 of the NEC.
3. Suitable for use as low leakage inductive (loop) vehicle detector wire in accordance with state and municipal requirements.

STANDARDS:

1. Listed by UL as Type XHHW-2 per Standard 44.
2. Listed by UL as Gasoline and Oil Resistant II.
3. All sizes carry the VW-1 flame test designation.
4. Cables are UL listed as Sunlight Resistant (1/0 AWG and larger, black only).
5. Size 1/0 AWG and larger UL listed For CT Use.
6. Cables pass IEEE 1202/CSA FT4 (70000 BTU/hr) cable tray flame test.
7. Cables conform to ICEA S-95-658/NEMA WC70, utilizing Column B thicknesses.

CONSTRUCTION: Annealed copper conductor, Rome FR-XLP thermosetting flame retardant chemically crosslinked polyethylene insulation, surface printed.



Size AWG or kcmil	No. of Strands	Insulation Thickness Mils	Nom. Diam. Inches	Copper Conductor		
				Ampacity*		Approx. Net Wt. Lb./1000 Ft.
				75°C	90°C	
14	7	30	.14	20 ^t	25 ^t	21
12	7	30	.16	25 ^t	30 ^t	31
10	7	30	.18	35 ^t	40 ^t	45
8	7	45	.24	50	55	71
6	7	45	.28	65	75	105
4	7	45	.32	85	95	160
2	7	45	.38	115	130	240
1	19	55	.44	130	150	305
1/0	19	55	.48	150	170	380
2/0	19	55	.52	175	195	470
3/0	19	55	.58	200	225	580
4/0	19	55	.63	230	260	725
250	37	65	.70	255	290	860
300	37	65	.75	285	320	1020
350	37	65	.80	310	350	1185
400	37	65	.85	335	380	1345
500	37	65	.93	380	430	1665
600	61	80	1.04	420	475	2040
750	61	80	1.14	475	535	2515
1000	61	80	1.29	545	615	3310

* AMPACITY in accordance with NEC for not more than three conductors in raceway at the conductor temperature indicated, in wet or dry locations, 30°C ambient temperature.

^tThe over current protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG .

Information on this sheet subject to change without notice.

Specification

ROME VW-1 XHHW-2

Rome FR-XLP Insulation, 600 Volts

1. SCOPE

- 1.1 This specification describes single conductor Rome FR-XLP, Type XHHW-2, a general purpose building wire insulated with flame-retardant crosslinked polyethylene intended for lighting and power circuits at 600 volts or less, in residential, commercial and industrial buildings. Other applications include highway inductive loop sensors or isolated circuits supplying anesthetizing locations per Article 517.160 of the National Electrical Code. The wire may be operated at 90°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 Electric Code. All cables comply with UL's VW-1 (Vertical-Wire) Flame Test. Cables pass IEEE 1202/CSA FT4 (70000 BTU/hr) cable tray flame test. Sizes 1/0 AWG and larger may be used in cable tray in accordance with Article 392 of the NEC.

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 44 for Rubber Insulated Wires and Cables.
 - 2.1.2 ICEA Pub. No. S-95-658, NEMA Pub. No. WC70 for Nonshielded Power Cables Rated 2000 Volts or Less.

3. CONDUCTORS

- 3.1 Conductors shall be Class B stranded annealed uncoated copper per UL Standard 44.

4. SEPARATOR

- 4.1 A suitable separator over the conductor may be used at the option of the manufacturer.

5. INSULATION

- 5.1 Each conductor shall be insulated with Rome FR-XLP, a flame retardant crosslinked polyethylene complying with the physical and electrical requirements of UL Standard 44 for Type XHHW-2. In addition, the Rome FR-XLP insulation shall comply with the For CT Use (sizes 1/0 AWG and larger) and VW-1 flame test ratings and the Gasoline and Oil Resistant II ratings of UL Standard 44.
- 5.2 The insulation shall maintain a dielectric constant of 3.5 or less.
- 5.3 The average thickness of insulation shall be as specified in UL Standard 44 for Type XHHW-2. 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.

6. IDENTIFICATION

- 6.1 The wire shall be identified by surface marking indicating manufacturer's identification, conductor size and metal, voltage rating, UL symbol, VW-1, type designation, Gasoline and Oil Resistant II and Sunlight Resistant For CT Use (1/0 AWG and larger).

7. TESTS

- 7.1 Wire shall be tested in accordance with the requirements of UL Standard 44 for Type XHHW-2.

8. LABELS

- 8.1 The wire shall bear the Underwriters Laboratories label for Type XHHW-2.