

ROME VW-1 USE-2 or RHW-2 or RHH

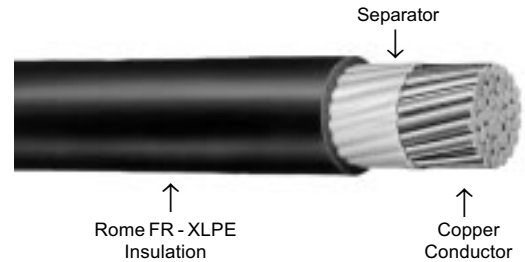
Rome FR-XLPE Insulation, 600 Volts

APPLICATION: General purpose wiring for lighting and power-residential, commercial, industrial buildings in accordance with the National Electrical Code and for other general purpose wiring applications. Suitable for use in circuits not exceeding 600 volts at conductor temperatures not exceeding 90°C in wet or dry locations. May be installed in raceway, cable tray, direct burial and aerial installations.

STANDARDS:

1. Listed by UL as Type USE-2 (90°C wet or dry) per Standard 854 for Service Entrance Cables.
2. Listed by UL as Gasoline and Oil Resistant II.
3. Listed by UL as Types RHW-2 (90°C wet or dry) or RHH (90°C dry) per Standard 44.
4. All sizes carry the VW-1 flame test designation.
5. UL listed as Sunlight Resistant (1/0 AWG and larger, black only).
6. UL listed For CT Use (1/0 and larger).
7. Cables pass IEEE 1202/CSA FT4 (70,000 BTU/hr) cable tray flame test (1/0 and larger).
8. Conforms to ICEA S-95-658/NEMA WC70, utilizing Column A insulation thicknesses.

CONSTRUCTION: Annealed copper conductor, Rome FR-XLPE thermo-setting flame-retardant chemically crosslinked polyethylene insulation, surface printed.



Size AWG or kcmil	No. of Strands	Insulation Thickness Mils	Nom. Diam. Inches	Copper Conductor			Stock Items
				Approx. Net Wt. Lb./ 1000 Ft.	Ampacity		
					90°C* USE-2 RHW-2 RHH	75°C** USE RHW	
14	7	45	.17	24	25 ^t	20 ^t	-
12	7	45	.19	32	30 ^t	25 ^t	-
10	7	45	.21	46	40 ^t	35 ^t	-
8	7	60	.27	72	55	50	-
6	7	60	.30	105	75	65	-
4	7	60	.35	160	95	85	-
2	7	60	.41	240	130	115	-
1	19	80	.49	315	150	130	-
1/0	19	80	.53	390	170	150	-
2/0	19	80	.57	480	195	175	-
3/0	19	80	.63	600	225	200	-
4/0	19	80	.68	740	260	230	-
250	37	95	.76	880	290	255	-
300	37	95	.81	1045	320	285	-
350	37	95	.86	1210	350	310	-
400	37	95	.91	1370	380	335	-
500	37	95	.99	1690	430	380	S
600	61	110	1.10	2055	475	420	-
750	61	110	1.20	2540	535	475	S
1000	61	110	1.39	3350	615	545	S

* AMPACITY in accordance with NEC for not more than three conductors. As RHW-2: in raceway, 90°C conductor temperature and 30°C ambient in wet or dry locations. As RHH: in raceway, 90°C conductor temperature and 30°C ambient in dry locations. As USE-2: direct burial, 90°C conductor temperature and 30°C ambient in wet locations.

** AMPACITY in accordance with NEC for not more than three conductors. As RHW: in raceway, 75°C conductor temperature and 30°C ambient in wet or dry locations. As USE: direct burial, 75°C conductor temperature and 30°C ambient in wet locations.

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

NOTES: 1. Standard color is black. Other colors available on request.

Information on this sheet subject to change without notice.

Specification

ROME VW-1 USE-2 or RHW-2 or RHH

Rome FR-XLPE Insulation, 600 Volts

1. SCOPE

- 1.1 This specification describes single conductor Rome FR-XLPE, Type USE-2 or RHW-2 or RHH, flame-retardant cross-linked polyethylene insulated cables for use in circuits not exceeding 600 volts. Cables are listed by UL as Type USE-2 and are recognized for underground use in wet locations at a maximum continuous conductor temperature of 90°C in accordance with Article 338 of the National Electrical Code. The cables are also listed by UL as Type RHH or RHW-2 for general purpose wiring applications at maximum continuous conductor temperature of 90°C in dry locations (RHH) or 90°C in wet or dry locations (RHW-2) and may be installed in air, conduit or other recognized raceways in accordance with Article 310 of the National Electrical Code. All cables comply with UL's VW-1 (Vertical-Wire) Flame Test. Cables 1/0 AWG and larger pass IEEE 1202/CSA FT4 (70,000 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 854 for Service Entrance Cables.
 - 2.1.2 Underwriters Laboratories Standard 44 for Rubber-Insulated Wires and Cables.
 - 2.1.3 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 854 and 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-XLPE, a flame-retardant crosslinked polyethylene complying with the physical and electrical requirements of UL Standard 854 for Type USE-2 and UL Standard 44 for Types RHW-2 or RHH and Table 3-7, Class X-2 of ICEA. In addition, the Rome FR-XLPE 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 average thickness of insulation, for a given conductor size, shall be as specified in UL Standard 44 for Types RHH and RHW-2 and Table 3-4, Column A of ICEA. 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 designations, 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 854 for Type USE-2, UL Standard 44 for Types RHW-2 or RHH and ICEA S-95-658.

8. LABELS

- 8.1 The wire shall bear the Underwriters Laboratories labels for Type USE-2.