

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

### Rome-EPR, HYPALON® (Composite), 600 Volts

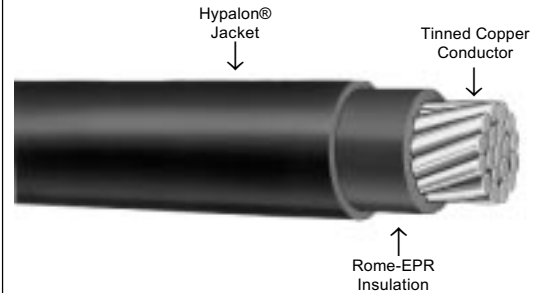
**APPLICATION:**

For lighting and power applications 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, duct, cable tray, direct burial and aerial installations.

**STANDARDS:**

- Listed by UL as Type USE-2 (90°C wet or dry) per Standard 854 for Service Entrance Cables.
- Listed by UL as Types RHW-2 (90°C wet or dry) or RHH (90°C dry) per Standard 44.
- All sizes carry the VW-1 flame test designation.
- Cables are UL listed as Sunlight Resistant (1/0 AWG and larger).
- Size 1/0 AWG and larger pass UL and IEEE-383 ribbon burner flame test and are UL listed For CT Use.
- Size 4/0 AWG and larger pass IEEE 1202/CSA FT4 (70,000 BTU/hr) cable tray flame test.
- Conforms to ICEA S-95-658/NEMA WC70.

**CONSTRUCTION:** Annealed tinned copper conductor, Rome-EPR (ethylene-propylene-rubber) insulation, HYPALON® jacket, surface printed.



Size AWG or kcmil	No. of Strands	Thickness Mils		Nom. Diam. Inches	Copper Conductor				Stock Items
		Insulation	Jacket		Approx. Net Wt. Lb./ 1000 Ft.	Ampacity			
						90°C * USE-2 RHW-2 RHH	75°C ** USE RHW	90°C *** USE-2 RHW-2	
14	7	30	15	.17	25	25 <sup>t</sup>	20 <sup>t</sup>		S
12	7	30	15	.19	33	30 <sup>t</sup>	25 <sup>t</sup>		S
10	7	30	15	.22	47	40 <sup>t</sup>	35 <sup>t</sup>		S
8	7	45	15	.27	75	55	50		S
6	7	45	30	.34	119	75	65		S
4	7	45	30	.39	176	95	85		S
2	7	45	30	.45	260	130	115		S
1	19	55	45	.54	355	150	130		S
1/0	19	55	45	.58	420	170	150	169	S
2/0	19	55	45	.62	517	195	175	195	S
3/0	19	55	45	.67	650	225	200	228	S
4/0	19	55	45	.73	773	260	230	263	S
250	37	65	65	.84	945	290	255	296	S
350	37	65	65	.94	1280	350	310	371	S
500	37	65	65	1.07	1770	430	380	455	S
750	61	80	65	1.28	2630	535	475	664	
1000	61	80	65	1.43	3440	615	545	791	

\* 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.

\*\*\*AMPACITY in accordance with NEC for cables installed in uncovered cable tray without maintained spacing, 90°C conductor temperature and 30°C ambient in wet or dry 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. Jackets available in black only.  
2. HYPALON® is a Dupont synthetic rubber.

Information on this sheet subject to change without notice.

## Specification

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

Rome-EPR, HYPALON® (Composite), 600 Volts

### 1. SCOPE

1.1 This specification describes single conductor composite Rome-EPR, ethylene-propylene-rubber, HYPALON® 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 4/0 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 Conductor shall be Class B stranded annealed tinned copper per UL Standards 854 and 44.

### 4. INSULATION

4.1 Each conductor shall be insulated with Rome-EPR, an ethylene-propylene-rubber 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 E-2 of ICEA.

4.2 The average thickness of insulation for a given conductor size, shall be as specified in UL Standard 44 for composite Type RHH or RHW-2 and Table 3-4, Column B of ICEA. The minimum thickness at any point shall be not less than specified in UL Standard 44. The insulation shall be applied tightly to the conductor and shall be free-stripping.

### 5. JACKET

5.1 A HYPALON® insulating-grade jacket shall be applied over the insulation complying with the physical requirements of UL Standard 44 for Class CP.

5.2 The average thickness of the HYPALON® jacket, shall be as specified in UL Standard 44 for Type RHH or RHW-2 composite. The minimum thickness at any point shall be not less than specified in UL Standard 44.

### 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, and optional ratings.

### 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. LABEL

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