

## ROME USE-2 or RHW-2 or RHH

### Rome-XLPE Insulation, 600 Volts

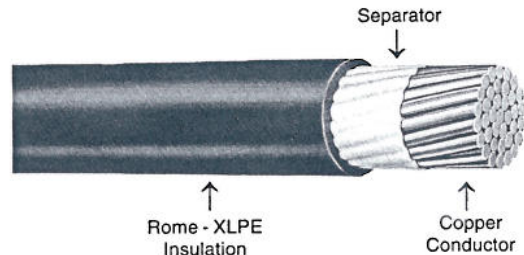
**APPLICATION:**

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, 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.
- Conforms to ICEA S-95-658/NEMA WC70, utilizing Column A insulation thicknesses.
- Conforms to Federal Specification J-C-30B.
- Sizes 12-4 AWG stranded copper approved under FAA Advisory Circular 150/5345-7E per Spec L-824 Airport Lighting Cable, Type TC.

**CONSTRUCTION:** Annealed copper conductor, Rome-XLPE thermosetting chemically crosslinked polyethylene insulation, surface printed.



Size AWG or kcmil	No. of Strands	Insulation Thickness Mils	Nom. Diam. Inches	Copper				Stock Items
				Ampacity		Approx. Wt. lb./1000 Ft.		
				90°C * USE-2 RHW-2 RHH	75°C ** USE RHW	Net	Shipping	
<b>Solid</b>								
14	Solid	45	.16	25 <sup>†</sup>	20 <sup>†</sup>	21	24	-
12	Solid	45	.18	30 <sup>†</sup>	25 <sup>†</sup>	30	33	S
10	Solid	45	.20	40 <sup>†</sup>	35 <sup>†</sup>	43	46	S
8	Solid	60	.25	55	50	68	73	-
<b>Stranded</b>								
14	7	45	.17	25 <sup>†</sup>	20 <sup>†</sup>	23	25	-
12	7	45	.19	30 <sup>†</sup>	25 <sup>†</sup>	32	33	S
10	7	45	.21	40 <sup>†</sup>	35 <sup>†</sup>	45	49	S
8	7	60	.27	55	50	72	79	S
6	7	60	.31	75	65	105	115	S
4	7	60	.36	95	85	155	175	S
2	7	60	.41	130	115	234	255	S
1	19	80	.49	150	130	305	330	S
1/0	19	80	.53	170	150	380	405	S
2/0	19	80	.58	195	175	470	495	S
3/0	19	80	.63	225	200	580	615	S
4/0	19	80	.68	260	230	725	765	S
250	37	95	.76	290	255	865	925	S
300	37	95	.81	320	285	1025	1090	-
350	37	95	.86	350	310	1190	1250	S
400	37	95	.91	380	335	1345	1410	-
500	37	95	.99	430	380	1665	1760	S
600	61	110	1.10	475	420	2020	2110	-
750	61	110	1.20	535	475	2500	2600	S
1000	61	110	1.35	615	545	3225	3420	-
1250	91	125	1.51	665	590	4130	4310	-
1500	91	125	1.63	705	625	4930	5110	-
1750	127	125	1.74	735	650	5720	5990	-
2000	127	125	1.85	750	665	6510	6910	-

\*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.

† The overcurrent protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG.

## Specification

ROME USE-2 or RHW-2 or RHH

Rome-XLPE Insulation, 600 Volts

### 1. SCOPE

1.1 This specification describes single conductor Rome-XLPE, Type USE-2 or RHW-2 or RHH, crosslinked 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.

### 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.
  - 2.1.4 Federal Specification J-C-30B.

### 3. CONDUCTORS

3.1 Conductors shall be solid or 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-XLPE, a 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.
- 5.2 The average thickness of insulation 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 and type designations.

### 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 label for Type USE-2.