

ROME ALUMINUM ARMORED CABLE - TYPE ACTHH, 90°C

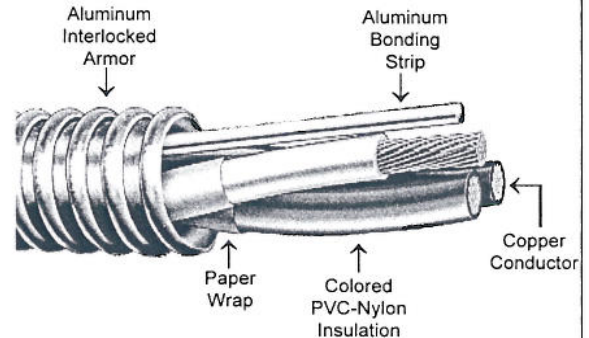
2, 3 or 4 THHN Conductors, Aluminum Armor, 600 Volts

APPLICATION: For use in commercial, industrial, and multi-family residential branch circuit and feeder wiring up to 600 volts ac as defined in Article 333 of the National Electrical Code. Cables may be installed as new wiring or for rewiring in both exposed and concealed work and in cable trays. May also be used in environmental air-handling ceilings. Cables have higher temperature rated conductors permitting operation in higher ambients while delivering rated ampacity after derating. May be hard wired into 90°C rated fixtures and used for fixture whips. Aluminum armor provides lighter weight and easier installation than steel armored cable.

STANDARDS:

1. Listed by Underwriters Laboratories as Type ACTHH per UL Standard 4 for Armored Cable.
2. One and two hour fire rated per ANSI/UL Std 1479 for walls, ceilings and floor assemblies.
3. Conforms to Federal Specification J-C-30B.
4. Conforms to National Electrical Code, Article 333.

CONSTRUCTION: Two, three or four conductors of annealed uncoated copper with color coded PVC-Nylon (THHN) insulation, paper wrap, conductors cabled, aluminum bonding strip, aluminum interlocked armor.



Trade Size	Type of Circuit Conductor	Nominal Diameter Inches	Approx. Wt. Lb./1000 Ft.	Standard Package	
				Coil	NR Reel
14-2	THHN - Solid	.453	103	250'	1000'
14-3	THHN - Solid	.473	118	250'	1000'
14-4	THHN - Solid	.507	137		
12-2	THHN - Solid	.487	121	250'	1000'
12-3	THHN - Solid	.510	142	250'	1000'
12-4	THHN - Solid	.548	167	250'	1000'
10-2	THHN - Solid	.551	154	250'	500'
10-3	THHN - Solid	.579	184	250'	500'
10-4	THHN - Solid	.625	220	250'	500'
8-2	THHN - Stranded	.687	215		
8-3	THHN - Stranded	.729	340		500'
8-4	THHN - Stranded	.862	400		
6-2	THHN - Stranded	.860	332		
6-3	THHN - Stranded	.927	419		500'
6-4	THHN - Stranded	.997	509		
4-2	THHN - Stranded	1.027	450		
4-3	THHN - Stranded	1.078	571		500'
4-4	THHN - Stranded	1.166	693		
2-3	THHN - Stranded	1.208	756		500'

Note:

1. Color Coding: 2/C black, white
3/C black, white, red
4/C black, white, red, blue

Information on this sheet subject to change without notice.

Specification

ROME ALUMINUM ARMORED CABLE - TYPE ACTHH, 90°C

2, 3, or 4 THHN Conductors, Aluminum Armor, 600 Volts

1. SCOPE

- 1.1 This specification describes two, three and four conductor Rome Aluminum Armored Cable, Type ACTHH, employing circuit conductors #14 to #2 AWG, solid or stranded copper with THHN insulation and aluminum interlocked armor covering. The cables are suitable for use in dry locations at temperatures not exceeding 90°C. Cables may be used as branch circuit and feeder wiring on ac circuits up to 600 volts in applications covered by Article 333 of the National Electrical Code. The cables are listed For CT Use and may be used in cable trays. They are also one and two hour fire rated per ANSI/UL 1479 for use in walls, ceilings and floor assemblies.

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 4 for Armored Cable.
 - 2.1.2 Underwriters Laboratories Standard 83 for Thermoplastic Insulated Wires.
 - 2.1.3 Federal Specification J-C-30B.
 - 2.1.4 National Electrical Code - Article 333.

3. CONDUCTORS

- 3.1 Circuit conductors shall be solid or stranded annealed uncoated copper per UL Standard 4 and UL Standard 83.

4. INSULATION

- 4.1 Each circuit conductor shall be insulated with PVC and jacketed with Nylon complying with the physical and electrical requirements of UL Standard 83 for Type THHN.
- 4.2 The average thickness of insulation, for a given conductor size, shall be as specified in UL Standard 83 for Type THHN. The minimum thickness at any point of the PVC insulation, shall not be less than 90% of the specified average thickness. The minimum thickness at any point of the nylon jacket, shall be as specified for Type THHN. The insulation shall be applied tightly to the conductor and shall be free-stripping.
- 4.3 Color Coding shall be: 2/C - black, white; 3/C - black, white, red; 4/C - black, white, red, blue.
- 4.4 Each circuit conductor shall be covered with a treated paper complying with the requirements of UL Standard 4.

5. ASSEMBLY

- 5.1 Insulated conductors shall be cabled together. Length of lay shall be in accordance with the requirements in UL Standard 4.

6. ARMOR

- 6.1 An aluminum interlocked armor shall be applied over the cable core complying with requirements of UL Standard 4.
- 6.2 An aluminum bonding strip shall be placed between the conductor assembly and armor in accordance with the requirements in UL Standard 4. The bonding strip shall not be smaller than No. 16 AWG.
- 6.3 Armor shall be applied so that an insulating bushing can be inserted readily between the conductors and the armor at each termination.

7. TESTS

- 7.1 Cable shall be tested in accordance with UL requirements for Type ACTHH Armored Cable.
- 7.2 Cable shall be capable of passing the ribbon burner flame test requirements of UL and shall be UL listed For CT Use.