

# THHN/THWN-2

Vinylon<sup>®</sup> PVC/Nylon  
14 AWG—2 AWG

### APPLICATIONS

- 600 volt building wire for use in commercial and industrial applications as specified in the NEC<sup>®</sup>
- 14 AWG-2 AWG is marked VW-1
- 8 AWG-2 AWG in black; Rated sunlight resistant

### CONDUCTORS

- Solid conductors: Uncoated copper per ASTM-B3
- Stranded conductors: Uncoated copper per ASTM-B3, ASTM-B787

### INSULATION

- Color coded, heat and moisture resistant PVC (polyvinyl chloride)

### JACKET

- Nylon (polyamide), clear on 14 AWG-2 AWG colors
- Nylon on 8 AWG-2 AWG black

### INDUSTRY STANDARDS

- UL 83: File No. E15119
- UL 1063 (MTW): File No. E85964
- AWM: File No. E11829
- Canadian Standard C22.2 No. 75 and CSA Bulletin No. 1451
- ASTM: B3, B8, B787
- WC70/ICEA S-95-658
- Federal Specification A-A-59544
- NFPA70: National Electrical Code<sup>®</sup>

### SURFACE PRINT

- Sample: CERRO WIRE VINYLON-A 2 AWG (UL) MTW OR THWN-2 OR THHN OR GASOLINE AND OIL RESISTANT II OR AWM SUNLIGHT RESISTANT 600V—C(UL) TWN75 OR T90 NYLON VW-1

Product Code	Conductors		Covering		Approx O.D. Inches	Allowable Ampacities*			Approx Net Wt. lbs./m ft.
	AWG Size	No. of Strands	PVC Ins. Mils.	Nylon Jkt. Mils.		60°C **	75°C ***	90°C ****	
112-14XX	14	SOL	15	4	0.104	15	15	15	15
112-16XX	12	SOL	15	4	0.120	20	20	20	23
112-18XX	10	SOL	20	4	0.151	30	30	30	37
112-34XX	14	19	15	4	0.110	15	15	15	16
112-36XX	12	19	15	4	0.130	20	20	20	24
112-38XX	10	19	20	4	0.165	30	30	30	39
112-40XX	8	19	30	5	0.217	40	50	55	63
112-42XX	6	19	30	5	0.253	55	65	75	96
112-44XX	4	19	40	6	0.322	70	85	95	153
112-45XX	3	19	40	6	0.350	85	100	110	190
112-46XX	2	19	40	6	0.380	95	115	130	233

XX Color Add Code (see chart)

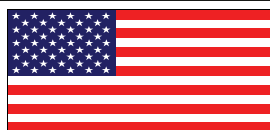
\* Per Table 310-16 NEC<sup>®</sup>

\*\* For termination to equipment for circuits rated 100 amperes or less, or marked for size 14 through 1 AWG conductors. Also for MTW used in wet locations or exposed to oil or coolant.

\*\*\* For termination to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG. Also for THWN-2 exposed to oil or coolant and MTW in dry locations.

\*\*\*\* For THHN used in dry locations and THWN-2 used in wet or dry locations. For ampacity derating purposes.

<ul style="list-style-type: none"> <li>• 90°C Dry—75°C Wet/600 Volts</li> <li>• Gasoline and Oil Resistant II</li> <li>• Machine Tool Wire (Stranded): 90°C Dry</li> <li>• Appliance Wire: 105°C Dry</li> </ul>	<ul style="list-style-type: none"> <li>• 14 AWG—10 AWG rated THHN/THWN: 90°C Dry, 75° Wet</li> <li>• 8 AWG—2 AWG rated THHN/THWN-2: 90°C Dry or Wet</li> </ul>
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### SURFACE PRINT

- Sample: CERRO WIRE VINYLON-A 2 AWG (UL) MTW OR THWN-2 OR THHN OR GASOLINE AND OIL RESISTANT II OR AWM SUNLIGHT RE-

### Color Available (Product Code 6th and 7th Digits)

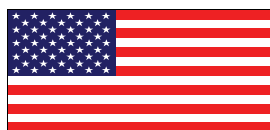
AWG Size	Black 01	White 02	Red 03	Blue 04	Green 05	Orange 06	Yellow 07	Brown 08	Purple 09	Grey 10	Pink 11
14 solid	X	X	X	X	X	X	X	X	X	X	X
12 solid	X	X	X	X	X	X	X	X	X	X	X
10 solid	X	X	X	X	X	X	X	X	X	X	X
14 strand	X	X	X	X	X	X	X	X	X	X	X
12 strand	X	X	X	X	X	X	X	X	X	X	X
10 strand	X	X	X	X	X	X	X	X	X	X	X
8 strand	X <sup>1</sup>	X	X	X	X	X	X	X	X <sup>2</sup>	X	
6 strand	X <sup>1</sup>	X	X	X	X	X	X	X	X <sup>2</sup>	X	
4 strand	X <sup>1</sup>	X	X	X	X	X	X	X		X	
3 strand	X <sup>1</sup>	X	X	X	X	X	X	X		X	
2 strand	X <sup>1</sup>	X	X	X	X	X	X	X		X	

- 1 Only black 8 AWG and larger rated sunlight resistant
- 2 Not available in 5000' reels

Package Code	J	J	J	K	M	P	10	13	15	18
Size	500' spool 1000' ctn	500' spool 2000' ctn	500' reel	1000' reel	2500' reel	5000' reel	10000' reel	13000' reel	15000' reel	18000' reel
14, 12 Solid and Strand		X			X					
10 Solid and Strand	X				X					
8 strand			X <sup>5</sup>	X <sup>5</sup>	X <sup>5</sup>	X <sup>4</sup>	X <sup>1</sup>			
6 strand			X <sup>5</sup>	X <sup>5</sup>	X <sup>5</sup>	X <sup>4</sup>	X <sup>1</sup>			
4 strand			X <sup>3</sup>	X <sup>3</sup>	X <sup>1</sup>	X <sup>4</sup>				X <sup>1</sup>
3 strand			X <sup>1</sup>	X <sup>1</sup>	X <sup>1</sup>	X <sup>4</sup>			X <sup>1</sup>	
2 strand			X <sup>3</sup>	X <sup>2</sup>	X <sup>1</sup>	X <sup>4</sup>		X <sup>1</sup>		

- 1 Available in black only
- 2 Available in black and green only
- 3 Available in black, white, red, and green only
- 4 Available in all colors except purple and pink
- 5 Available in all colors except pink

Cerro Wire Inc.  
1099 Thompson Road, SE  
Hartselle, AL 35640  
Phone 800.523.3869 | Fax 877.877.9563  
www.cerrowire.com



Made in USA

