

# THHN/THWN-2



SLiPWire™ Self-Lubricating Polymer  
Vinylon® PVC/Nylon, 8 AWG – 750 MCM

**Sequential  
Foot Markings**

**No Pulling Lube  
Required**

**90°C Dry or Wet**

**600 Volts**



**SLiPWire™**  
Self Lubricating Polymer

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MADE IN THE USA

## ADDITIONAL FEATURES

Sequential footage markings — 1 AWG and larger  
Max Print® for easy ID  
Gasoline and Oil Resistant II  
Machine Tool Wire: 90°C Dry  
Appliance Wire: 105°C Dry  
Rated THHN/THWN-2: 90°C Dry or Wet

## APPLICATIONS

600 volt building wire for use in commercial and industrial applications as specified in the NEC. 8-1 AWG is marked VW-1. 1/0 – 750 MCM rated for CT use; 1 AWG-750 MCM in black; rated sunlight-resistant. Pulling lube is not required with SLP™ (self-lubricating polymer). CT-VO-750 MCM

## CONDUCTORS

Uncoated copper per ASTM-B3, ASTM-B787 (6 AWG-500 MCM), and ASTM-B8 (600 MCM-750 MCM)

## INSULATION

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

## SLIP-JACKET™

Nylon (polyamide), color-coded SLiPWire™ THHN is self-lubricated with CERROWIRE's SLP-Jacket™ (Self-Lubricating Polymer) Technology.

Printed with True Sequential Footage™.

## 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®  
RoHS Compliant

## SURFACE PRINT

Sample: CERROWIRE VINYLON-A 350 KCMIL (UL) MTW or THWN-2 or THHN or GASOLINE AND OIL RESISTANT II or AWM FOR CT USE SUNLIGHT RESISTANT 600V - C(UL) TWN75 or T90 NYLON

**cerrowire®**

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A Marmon Wire & Cable/  
Berkshire Hathaway Company

## THHN/THWN-2

SLiPWire™ Self-Lubricating Polymer, Vinylon® PVC/Nylon, 8AWG – 750 MCM

| PRODUCT CODE NUMBER | 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 **** |                            |
| 112-40XX            | 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                        |
| 112-47XX            | 1          | 19             | 50             | 7                | 0.440               | 110                   | 130      | 150       | 299                        |
| 112-50XX            | 1/0        | 19             | 50             | 7                | 0.480               | 125                   | 150      | 170       | 371                        |
| 112-52XX            | 2/0        | 19             | 50             | 7                | 0.524               | 145                   | 175      | 195       | 459                        |
| 112-54XX            | 3/0        | 19             | 50             | 7                | 0.575               | 165                   | 200      | 225       | 571                        |
| 112-56XX            | 4/0        | 19             | 50             | 7                | 0.630               | 195                   | 230      | 260       | 710                        |
| 112-60XX            | 250        | 37             | 60             | 8                | 0.700               | 215                   | 255      | 290       | 848                        |
| 112-64XX            | 300        | 37             | 60             | 8                | 0.750               | 240                   | 285      | 320       | 1006                       |
| 112-68XX            | 350        | 37             | 60             | 8                | 0.802               | 260                   | 310      | 350       | 1166                       |
| 112-72XX            | 400        | 37             | 60             | 8                | 0.847               | 280                   | 335      | 380       | 1324                       |
| 112-80XX            | 500        | 37             | 60             | 8                | 0.930               | 320                   | 380      | 430       | 1640                       |
| 112-84XX            | 600        | 61             | 70             | 9                | 1.030               | 355                   | 420      | 475       | 1988                       |
| 112-88XX            | 750        | 61             | 70             | 9                | 1.136               | 400                   | 475      | 535       | 2459                       |

XX Color Add Code (see chart)

\* Per Table 310-16 NEC®

\*\* 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.

# THHN/THWN-2

SLiPWire™ Self-Lubricating Polymer, Vinylon® PVC/Nylon, 8AWG – 750 MCM

| COLORS AVAILABLE (PRODUCT CODE 6TH AND 7TH DIGITS) |                |                |                |                |                |                |                |                |              |                |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|
| SIZE   | BLACK<br>01    | WHITE<br>02    | RED<br>03      | BLUE<br>04     | GREEN<br>05    | ORANGE<br>06   | YELLOW<br>07   | BROWN<br>08    | PURPLE<br>09 | GREY<br>10     |
| 8 AWG  | X              | X              | X              | X              | X <sup>4</sup> | X              | X              | X              | X            | X              |
| 6 AWG  | X              | X              | X              | X              | X <sup>4</sup> | X              | X              | X              | X            | X              |
| 4 AWG  | X              | X              | X              | X              | X <sup>5</sup> | X              | X              | X              |              | X              |
| 3 AWG  | X              | X              | X              | X              | X <sup>1</sup> | X              | X              | X              |              | X              |
| 2 AWG  | X              | X              | X              | X              | X <sup>5</sup> | X              | X              | X              |              | X              |
| 1 AWG  | X <sup>0</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> |              | X <sup>1</sup> |
| 1/0 AWG  | X <sup>0</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> |              | X <sup>1</sup> |
| 2/0 AWG  | X <sup>0</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> |              | X <sup>1</sup> |
| 3/0 AWG  | X <sup>0</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> |              | X <sup>1</sup> |
| 4/0 AWG  | X <sup>0</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> |              | X <sup>1</sup> |
| 250 MCM  | X <sup>0</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> |              | X <sup>2</sup> |
| 300 MCM  | X <sup>0</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> |              | X <sup>2</sup> |
| 350 MCM  | X <sup>0</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> |              | X <sup>2</sup> |
| 400 MCM  | X <sup>0</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> |              | X <sup>3</sup> |
| 500 MCM  | X <sup>0</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> | X <sup>2</sup> |              | X <sup>2</sup> |
| 600 MCM  | X <sup>0</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> | X <sup>3</sup> |              | X <sup>3</sup> |
| 750 MCM  | X <sup>0</sup> |                |                |                |                |                |                |                |              |                |

0 Only black 8 AWG and larger are rated sunlight resistant

1 Only available in 5,000' reels

2 Only available in 2,500' reels

3 Only available in 2,000' reels

4 Only available in 500', 1,000', 2,500', 5,000' reels

5 Only available in 500', 1,000', 5,000' reels

| PACKAGE CODE | J              | K              | L              | R              | M              | Q              | 04             | P              | 08             | 09             | 11              | 12              | 14              | 15              |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| SIZE         | 500'<br>REEL   | 1,000'<br>REEL | 1,500'<br>REEL | 2,000'<br>REEL | 2,500'<br>REEL | 4,000'<br>REEL | 4,500'<br>REEL | 5,000'<br>REEL | 8,000'<br>REEL | 9,000'<br>REEL | 11,000'<br>REEL | 12,000'<br>REEL | 14,000'<br>REEL | 15,000'<br>REEL |
| 8 AWG        | X <sup>3</sup> | X <sup>3</sup> |                |                | X <sup>3</sup> |                |                | X <sup>3</sup> |                |                |                 |                 |                 |                 |
| 6 AWG        | X <sup>3</sup> | X <sup>3</sup> |                |                | X <sup>3</sup> |                |                | X <sup>3</sup> |                |                |                 |                 |                 |                 |
| 4 AWG        | X <sup>3</sup> | X <sup>3</sup> |                |                |                |                |                | X <sup>3</sup> |                |                |                 |                 |                 |                 |
| 3 AWG        |                |                |                |                |                |                |                | X <sup>3</sup> |                |                |                 |                 |                 |                 |
| 2 AWG        | X <sup>3</sup> | X <sup>3</sup> |                |                |                |                |                | X <sup>3</sup> |                |                |                 |                 |                 |                 |
| 1 AWG        | X <sup>1</sup> | X <sup>1</sup> |                |                | X <sup>1</sup> |                |                | X <sup>2</sup> |                |                |                 |                 |                 | X <sup>1</sup>  |
| 1/0 AWG      | X <sup>1</sup> | X <sup>1</sup> |                |                | X <sup>1</sup> |                |                | X <sup>2</sup> |                | X <sup>1</sup> |                 | X <sup>1</sup>  |                 |                 |
| 2/0 AWG      | X <sup>1</sup> | X <sup>1</sup> |                |                | X <sup>1</sup> |                |                | X <sup>2</sup> | X <sup>1</sup> |                |                 |                 | X <sup>1</sup>  |                 |
| 3/0 AWG      | X <sup>1</sup> | X <sup>1</sup> |                |                | X <sup>1</sup> |                |                | X <sup>2</sup> |                |                | X <sup>1</sup>  |                 |                 |                 |
| 4/0 AWG      | X <sup>1</sup> | X <sup>1</sup> |                |                | X <sup>1</sup> |                |                | X <sup>2</sup> |                | X <sup>1</sup> |                 |                 |                 |                 |
| 250 MCM      | X <sup>1</sup> | X <sup>1</sup> |                |                | X <sup>2</sup> |                |                | X <sup>1</sup> |                |                |                 |                 |                 |                 |
| 300 MCM      | X <sup>1</sup> | X <sup>1</sup> |                |                | X <sup>2</sup> |                | X <sup>1</sup> |                |                |                |                 |                 |                 |                 |
| 350 MCM      | X <sup>1</sup> | X <sup>1</sup> |                |                | X <sup>2</sup> |                |                | X <sup>1</sup> |                |                |                 |                 |                 |                 |
| 400 MCM      | X <sup>1</sup> | X <sup>1</sup> |                | X <sup>2</sup> |                | X <sup>1</sup> |                |                |                |                |                 |                 |                 |                 |
| 500 MCM      | X <sup>1</sup> | X <sup>1</sup> |                | X              | X <sup>2</sup> | X <sup>1</sup> |                |                |                |                |                 |                 |                 |                 |
| 600 MCM      | X <sup>1</sup> | X <sup>1</sup> |                | X <sup>2</sup> |                |                |                |                |                |                |                 |                 |                 |                 |
| 750 MCM      | X <sup>1</sup> | X <sup>1</sup> | X <sup>1</sup> |                |                |                |                |                |                |                |                 |                 |                 |                 |

1 Available in black only

2 Available in all colors except purple and pink