Click for Table of Contents

# XHHW

600 Volt. Copper Conductor. Cross-Linked Polyethylene (XLP) Insulation. High-Heat and Moisture Resistant. AWG Sizes 14 Through 8 Also Rated SIS.

## APPLICATIONS

Southwire Type XHHW-2 conductors are primarily used in conduit or other recognized raceways for services, feeders, and branch circuit wiring, as specified in the National Electrical Code[1]. XHHW-2 conductors may be used in wet or dry locations at temperatures not to exceed 90°C. Voltage rating for XHHW-2 conductors is 600 volts.

## SPECIFICATIONS

Southwire Type XHHW-2 conductors meet or exceed UL standard 44, Federal Specification J-C-30B, and requirements of the National Electrical Code.

## CONSTRUCTION

Southwire Type XHHW-2 copper conductors are annealed (soft) copper. Insulation is an abrasion, moisture, and heat resistant cross-linked polyethylene (XLP). AWG sizes 14, 12, and 10 available in black, white, red, blue, yellow, green, orange, brown, purple, and grey.

## ALTERNATE CONSTRUCTION

Southwire Type XHHW-2 copper conductors are also available in sizes AWG 1/0 and larger rated for cable tray use and sunlight resistant. Specify XHHW-2 for CT use when requesting quote or ordering.

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Click for Table of Contents

# XHHW

| Conductor | | Insulation Thickness (mils) | Nominal O.D. (mils) | Allowable Ampacities+ | | | Approx. Net Weight Per 1000' (lbs.) | Standard Package |
|---|---|---|---|---|---|---|---|---|
| Size (AWG or kcmil) | No. Strands | | | 60°C | 75°C | 90°C | | |
| 14 | 7 | 30 | 131 | 15 | 15 | 15 | 18 | A |
| 12 | 7 | 30 | 149 | 20 | 20 | 20 | 26 | A |
| 10 | 7 | 30 | 172 | 30 | 30 | 30 | 40 | A |
| 8 | 7 | 45 | 234 | 40 | 50 | 55 | 66 | B |
| 6 | 7 | 45 | 271 | 55 | 65 | 75 | 100 | B |
| 4 | 7 | 45 | 318 | 70 | 85 | 95 | 150 | B |
| 3 | 7 | 45 | 345 | 85 | 100 | 110 | 186 | B |
| 2 | 7 | 45 | 376 | 95 | 115 | 130 | 231 | B |
| 1 | 19 | 55 | 434 | 110 | 130 | 150 | 292 | B |
| 1/0 | 19 | 55 | 473 | 125 | 150 | 170 | 363 | B |
| 2/0 | 19 | 55 | 517 | 145 | 175 | 195 | 452 | B |
| 3/0 | 19 | 55 | 567 | 165 | 200 | 225 | 565 | B |
| 4/0 | 19 | 55 | 623 | 195 | 230 | 260 | 706 | B |
| 250 | 37 | 65 | 691 | 215 | 255 | 290 | 835 | B |
| 300 | 37 | 65 | 744 | 240 | 285 | 320 | 995 | B |
| 350 | 37 | 65 | 793 | 260 | 310 | 350 | 1155 | B |
| 400 | 37 | 65 | 839 | 280 | 335 | 380 | 1314 | B |
| 500 | 37 | 65 | 922 | 320 | 380 | 430 | 1632 | B |
| 600 | 61 | 80 | 1029 | 355 | 420 | 475 | 1966 | C |
| 700 | 61 | 80 | 1098 | 385 | 460 | 520 | 2283 | C |
| 750 | 61 | 80 | 1131 | 400 | 475 | 535 | 2441 | C |
| 1000 | 61 | 80 | 1281 | 455 | 545 | 615 | 3231 | C |

+Allowable Ampacities:
Allowable ampacities shown are for general use as specified by the National Electrical Code, 1999 Edition, section 310-15.
60°C - When terminated to equipmant for circuits rated 100 amperes or less or marked for #14 through #1 conductors.
75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than #1.
90°C - Wet or dry locations.

STANDARD PACKAGE CODE:
A - 2500' Reel
B - 1000' Reel
C - 500' Reel

**RECOMMENDED SAMPLE SPECIFICATIONS:**

Conductors shall be UL-listed Type XHHW-2, suitable for operation at 600 volts or less in wet or dry locations, at temperatures not to exceed 90°C. Conductors shall be annealed copper, as manufactured by Southwire Company or approved equal.

**CABLE TRAY RATED RECOMMENDED SAMPLE SPECIFICATIONS:**

Conductor shall be UL-listed Type XHHW-2 rated for cable tray use and sunlight resistance. Also, suitable for operation at 600 volts or less in wet or dry locations, at temperatures not to exceed 90°C. Conductors shall be annealed copper, as manufactured by Southwire Company or approved equal.



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Click for Table of Contents

# Bare Copper Wire and Cable

Bare Copper Conductor. Solid and Stranded.

## APPLICATIONS

Solid and stranded (classes AA and A) bare copper are suitable for overhead transmission and distribution applications. Stranded conductor of greater flexibility (classes B and C) are suitable for uninsulated hook up, jumpers, and grounds in electrical construction.

## SPECIFICATIONS

Southwire's bare copper wire and cable meets or exceeds the following ASTM specifications:

- B-1 Hard-Drawn Copper Wire.
- B-2 Medium-Hard Copper Wire.
- B-3 Soft or Annealed Copper Wire.
- B-8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft.

## CONSTRUCTION

Bare copper, solid or stranded. Available in tempers hard, medium-hard, or soft. Stranded conductors are concentrically stranded.



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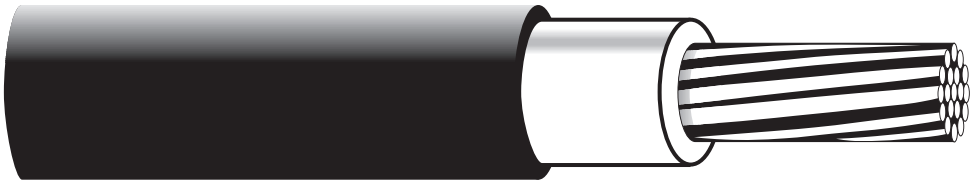
# THHN

600 Volt. Copper Conductor. Thermoplastic Insulation/Nylon Sheath.
Heat, Moisture, Oil, and Gasoline Resistant[1].
All Sizes Rated THWN-2. All Stranded Sizes Rated MTW.
AWG Sizes 14 Through 6 Rated AWM (105°C).
AWG Sizes 14 Through 1 Rated VW-1 and Larger Sizes Rated for CT Use.



## APPLICATIONS

Southwire Type THHN or THWN-2 conductors are primarily used in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial applications as specified in the National Electrical Code[2]. When used as Type THHN, conductor is suitable for use in dry locations at temperatures not to exceed 90°C. When used as Type THWN-2, conductor is suitable for use in wet or dry locations at temperatures not to exceed 90°C or not to exceed 75°C when exposed to oil or coolant. When used as Type MTW, conductor is suitable for use in wet locations or when exposed to oil or coolant at temperatures not to exceed 60°C or dry locations at temperatures not to exceed 90°C (with ampacity limited to that for 75°C conductor temperature per NFPA 79). Conductor temperatures not to exceed 105°C in dry locations when rated AWM and used as appliance wiring material. Voltage for all applications is 600 volts.

## SPECIFICATIONS

Southwire Type THHN or THWN-2 or MTW (also AWM) meets or exceeds all applicable ASTM specifications, UL standard 83, UL standard 1063 (MTW), Federal Specification J-C-30B, and requirements of the National Electrical Code.

## CONSTRUCTION

Southwire Type THHN or THWN-2 or MTW copper conductors are annealed (soft) copper, insulated with a tough heat and moisture resistant polyvinyl chloride (PVC), over which a nylon (polyamide) or UL-listed equal jacket is applied. Available in black, white, red, blue, green, yellow, brown, orange, and grey. Some colors standard, some subject to economic order quantity. Sizes 1 AWG through 1,000 kcmil available in black only.

[1] Oil and gasoline resistance II as defined by Underwriters Laboratories.
[2] 1999 Edition.



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# RHH or RHW or USE

Underground Service Entrance Cable. 600 Volt. Copper Conductors. Cross-Linked Polyethylene (XLP) Insulation. High-Heat, Moisture, and Sunlight Resistant. AWG Sizes 6 Through 4/0 Also Rated SIS.

## APPLICATIONS

Southwire Type RHH or RHW-2 or USE-2 conductors are used with conduit as specified in the National Electrical Code[1]. When used as Type USE-2, conductor is suitable for use as underground service entrance cable for direct burial at conductor temperatures not to exceed 90°C. When used as RHH or RHW-2, conductor temperatures shall not exceed 90°C in wet or dry locations. Voltage rating for RHH or RHW-2 or USE-2 conductors is 600 volts.

## SPECIFICATIONS

Southwire Type RHH or RHW-2 or USE-2 meets or exceeds UL standard 44 (for RHH or RHW-2), UL standard 854 (for USE-2), Federal Specification J-C-30B, and requirements of the National Electrical Code.

## CONSTRUCTION

Southwire Type RHH or RHW-2 or USE-2 copper conductors are annealed (soft) copper. Insulation is an abrasion, moisture, heat, and sunlight resistant black cross-linked polyethylene (XLP).

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# RHH or RHW or USE

| Conductor | | Insulation Thickness (mils) | Nominal O.D. (mils) | Allowable Ampacities+ | | | Approx. Net Weight Per 1000' (lbs.) | Standard Package |
|---|---|---|---|---|---|---|---|---|
| Size (AWG or kcmil) | No. Strands | | | 60°C | 75°C | 90°C | | |
| 14* | 7 | 45 | 161 | 15 | 15 | 15 | 22 | A |
| 12 | 7 | 45 | 179 | 20 | 20 | 20 | 31 | A |
| 10 | 7 | 45 | 202 | 30 | 30 | 30 | 44 | A |
| 8 | 7 | 60 | 264 | 40 | 50 | 55 | 73 | B |
| 6 | 7 | 60 | 301 | 55 | 65 | 75 | 107 | B |
| 4 | 7 | 60 | 348 | 70 | 85 | 95 | 157 | B |
| 2 | 7 | 60 | 406 | 95 | 115 | 130 | 240 | B |
| 1 | 19 | 80 | 484 | 110 | 130 | 150 | 309 | B |
| 1/0 | 19 | 80 | 523 | 125 | 150 | 170 | 381 | B |
| 2/0 | 19 | 80 | 567 | 145 | 175 | 195 | 472 | B |
| 3/0 | 19 | 80 | 617 | 165 | 200 | 225 | 586 | B |
| 4/0 | 19 | 80 | 673 | 195 | 230 | 260 | 729 | B |
| 250 | 37 | 95 | 751 | 215 | 255 | 290 | 867 | B |
| 300 | 37 | 95 | 804 | 240 | 285 | 320 | 1029 | B |
| 350 | 37 | 95 | 853 | 260 | 310 | 350 | 1191 | B |
| 400 | 37 | 95 | 899 | 280 | 335 | 380 | 1352 | B |
| 500 | 37 | 95 | 982 | 320 | 380 | 430 | 1674 | B |
| 600 | 61 | 110 | 1089 | 355 | 420 | 475 | 2012 | C |
| 700 | 61 | 110 | 1158 | 385 | 460 | 520 | 2332 | C |
| 750 | 61 | 110 | 1191 | 400 | 475 | 535 | 2492 | C |
| 800 | 61 | 110 | 1223 | 410 | 490 | 555 | 2652 | C |
| 900 | 61 | 110 | 1283 | 435 | 520 | 585 | 2970 | C |
| 1000 | 61 | 110 | 1341 | 455 | 545 | 615 | 3289 | C |

+Allowable Ampacities:
Allowable ampacities shown are for general use as specified by the National Electrical Code, 1999 Edition, section 310-15.
60°C - When terminated to equipment for circuits rated 100 amperes or less or marked for #14 through #1 conductors.
75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than #1.
90°C - RHH dry locations. RHW-2 and USE-2 wet or dry locations.
*Available as RHH or RHW-2 only.

STANDARD PACKAGE CODE:
A - 2500' Reel
B - 1000' Reel
C - 500' Reel

**RECOMMENDED SAMPLE SPECIFICATIONS:**

Conductors shall be UL-listed Type RHH or RHW-2 or USE-2, suitable for operation at 600 volts or less in wet or dry locations, including direct burial in the earth. Conductors shall be annealed copper, cross-linked polyethylene (XLP) insulated, as manufactured by Southwire Company or approved equal.



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# THHN

| Conductor | | Insulation Thickness (mils) | Jacket Thickness (mils) | Nominal O.D. (mils) | | Approx. Net Weight Per 1000' (lbs.) | | Allowable Ampacities+ | | | Standard Package |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Size (AWG or kcmil) | No. Strands | | | Sol. | Str. | Sol. | Str. | 60°C | 75°C | 90°C | |
| **14 | 19* | 15 | 4 | 102 | 109 | 15 | 16 | 15 | 15 | 15 | DNF° |
| **12 | 19* | 15 | 4 | 119 | 128 | 23 | 24 | 20 | 20 | 20 | DNF° |
| **10 | 19* | 20 | 4 | 150 | 161 | 37 | 38 | 30 | 30 | 30 | DQF^ |
| **8 | 19 | 30 | 5 | -- | 213 | -- | 63 | 40 | 50 | 55 | F |
| **6 | 19 | 30 | 5 | -- | 249 | -- | 95 | 55 | 65 | 75 | E |
| 4 | 19 | 40 | 6 | -- | 318 | -- | 152 | 70 | 85 | 95 | C |
| 3 | 19 | 40 | 6 | -- | 346 | -- | 188 | 85 | 100 | 110 | BC |
| 2 | 19 | 40 | 6 | -- | 378 | -- | 234 | 95 | 115 | 130 | C |
| 1 | 19 | 50 | 7 | -- | 435 | -- | 299 | 110 | 130 | 150 | B |
| 1/0 | 19 | 50 | 7 | -- | 474 | -- | 371 | 125 | 150 | 170 | B |
| 2/0 | 19 | 50 | 7 | -- | 518 | -- | 461 | 145 | 175 | 195 | B |
| 3/0 | 19 | 50 | 7 | -- | 568 | -- | 574 | 165 | 200 | 225 | B |
| 4/0 | 19 | 50 | 7 | -- | 624 | -- | 717 | 195 | 230 | 260 | B |
| 250 | 37 | 60 | 8 | -- | 694 | -- | 850 | 215 | 255 | 290 | B |
| 300 | 37 | 60 | 8 | -- | 747 | -- | 1011 | 240 | 285 | 320 | B |
| 350 | 37 | 60 | 8 | -- | 796 | -- | 1172 | 260 | 310 | 350 | B |
| 400 | 37 | 60 | 8 | -- | 842 | -- | 1333 | 280 | 335 | 380 | B |
| 500 | 37 | 60 | 8 | -- | 925 | -- | 1653 | 320 | 380 | 430 | B |
| 600 | 61 | 70 | 9 | -- | 1024 | -- | 1985 | 355 | 420 | 475 | C |
| 750 | 61 | 70 | 9 | -- | 1126 | -- | 2462 | 400 | 475 | 535 | C |
| 1000 | 61 | 70 | 9 | -- | 1276 | -- | 3255 | 455 | 545 | 615 | C |

*Solid construction available in sizes 14, 12, & 10 as Types THHN or THWN-2 or AWM only.
**Also suitable for 105°C appliance wiring material (AWM).
°Four 500' spools per carton.
^Two 500' spools per carton.
+Allowable Ampacities:
Allowable ampacities shown are for general use as specified by the National Electrical Code, 1999 Edition, section 310-15.
60°C - When terminated to equipment for circuits rated 100 amperes or less or marked for #14 through #1 conductors. MTW wet locations or when exposed to oil or coolant.
75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than #1. THWN-2 when exposed to oil or coolant. MTW dry locations.
90°C - THHN dry locations. THWN-2 wet or dry locations.
All AWG sizes 14 through 1 rated VW-1. Larger sizes rated for CT Use.

STANDARD PACKAGE CODE:

B - 1000' Reel
C - 500' Reel
D - 2500' Spool
E - 1000' Spool
F - 500' Spool
N - 2000' Carton
Q - 350' Carton

**RECOMMENDED SAMPLE SPECIFICATIONS:**

**(MTW OR THHN OR THWN-2)**

Conductors shall be UL-listed Type MTW or THHN or THWN-2 gasoline and oil resistant II, suitable for operations at 600 volts as specified in the National Electrical Code. AWG sizes 14 through 1 shall be rated VW-1, larger sizes shall be rated for CT use. Conductors shall be annealed copper, insulated with high-heat and moisture resistant PVC, jacketed with abrasion, moisture, gasoline, and oil resistant nylon or UL-listed equivalent, as manufactured by Southwire Company or approved equal.

**(AWM)**

Conductors shall be UL-listed Type THHN or THWN-2 or MTW or AWM, suitable for operation at 600 volts at conductor temperatures not to exceed 105°C.



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# Bare Copper Wire and Cable

| Size (AWG) | Weight Per 1000 ft. (lbs.) | Diameter (mils) | Circular Mil Area (cmils) | Hard-Drawn | | Medium-Hard Drawn | | Soft-Drawn (Annealed) | | Allowable Ampacity+ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Min. Ultimate Strength (lbs.) | DC Resistance Ohms/ 1000 ft. @ 20°C | Min. Ultimate Strength (lbs.) | DC Resistance Ohms/ 1000 ft. @ 20°C | Max. Ultimate Strength (lbs.) | DC Resistance Ohms/ 1000 ft. @ 20°C | |
| SOLID | | | | | | | | | | |
| 14 | 12.4 | 64.1 | 4110 | 213.5 | 2.626 | 166.6 | 2.613 | 124.2 | 2.525 | -- |
| 13 | 15.7 | 72.0 | 5180 | 268.0 | 2.083 | 208.8 | 2.072 | 156.6 | 2.003 | -- |
| 12 | 19.8 | 80.8 | 6530 | 336.9 | 1.652 | 261.6 | 1.643 | 197.5 | 1.588 | -- |
| 11 | 24.9 | 90.7 | 8230 | 422.9 | 1.310 | 327.6 | 1.303 | 249.0 | 1.260 | -- |
| 10 | 31.4 | 101.9 | 10380 | 529.2 | 1.039 | 410.4 | 1.033 | 314.0 | 0.999 | -- |
| 9 | 39.6 | 114.4 | 13090 | 661.2 | 0.824 | 514.2 | 0.820 | 380.5 | 0.792 | -- |
| 8 | 50.0 | 128.5 | 16510 | 826.0 | 0.653 | 643.9 | 0.650 | 479.8 | 0.628 | 95 |
| 7 | 63.0 | 144.3 | 20820 | 1030.0 | 0.518 | 806.6 | 0.515 | 605.0 | 0.498 | 105 |
| 6 | 79.4 | 162.0 | 26240 | 1280.0 | 0.411 | 1010.0 | 0.409 | 762.9 | 0.395 | 125 |
| 5 | 100.2 | 181.9 | 33090 | 1591.0 | 0.326 | 1265.0 | 0.324 | 961.9 | 0.313 | 145 |
| 4 | 126.3 | 204.3 | 41740 | 1970.0 | 0.258 | 1584.0 | 0.257 | 1213.0 | 0.249 | 170 |
| 3 | 159.3 | 229.4 | 52620 | 2439.0 | 0.205 | 1984.0 | 0.204 | 1530.0 | 0.197 | 195 |
| 2 | 200.9 | 257.6 | 66360 | 3003.0 | 0.163 | 2450.0 | 0.162 | 1929.0 | 0.156 | 225 |
| 1 | 253.3 | 289.3 | 83690 | 3688.0 | 0.129 | 3024.0 | 0.128 | 2432.0 | 0.124 | 260 |

+Ampacity based on 75°C conductor temperature; 25°C ambient temperature; 2 ft./sec. wind in sun.

| Size (AWG or kcmil) | Strand-ing | Strand-ing Class | Weight Per 1000 ft. (lbs.) | Diameter (mils) | | Hard-Drawn | | Medium-Hard Drawn | | Soft-Drawn (Annealed) | | Allowable Ampacity+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Indi-vidual Wires | Com-plete Cable | Min. Ultimate Strength (lbs.) | DC Resistance Ohms/ 1000 ft. @ 20°C | Min. Ultimate Strength (lbs.) | DC Resistance Ohms/ 1000 ft. @ 20°C | Max. Ultimate Strength (lbs.) | DC Resistance Ohms/ 1000 ft. @ 20°C | |
| STRANDED | | | | | | | | | | | | |
| 8 | 7 | B | 51.0 | 48.6 | 146 | 777 | 0.6663 | 610 | 0.6629 | 499 | 0.6408 | 95 |
| 6 | 7 | B | 81.0 | 61.2 | 184 | 1228 | 0.4191 | 959 | 0.4169 | 794 | 0.4030 | 130 |
| 4 | 7 | A,B | 128.9 | 77.2 | 232 | 1938 | 0.2636 | 1505 | 0.2622 | 1320 | 0.2534 | 170 |
| 3 | 7 | A,B | 162.5 | 86.7 | 260 | 2433 | 0.2090 | 1885 | 0.2079 | 1670 | 0.2010 | 200 |
| 2 | 7 | A,B | 204.9 | 97.4 | 292 | 3050 | 0.1660 | 2360 | 0.1650 | 2110 | 0.1578 | 230 |
| 1 | 7 | A | 258.4 | 109.3 | 328 | 3801 | 0.1316 | 2955 | 0.1309 | 2552 | 0.1252 | 265 |
| 1/0 | 7 | A,AA | 326.1 | 122.8 | 369 | 4752 | 0.1042 | 3705 | 0.1037 | 3221 | 0.1002 | 310 |
| 2/0 | 7 | A,AA | 411.0 | 137.9 | 414 | 5926 | 0.08267 | 4640 | 0.08224 | 4062 | 0.07949 | 355 |
| 2/0 | 19 | B | 410.9 | 83.7 | 419 | 6690 | 0.08267 | 4765 | 0.08224 | 4024 | 0.07949 | 355 |
| 3/0 | 7 | A,AA | 518.1 | 154.8 | 465 | 7366 | 0.06556 | 5812 | 0.06522 | 5118 | 0.06304 | 410 |
| 4/0 | 7 | A,AA | 653.3 | 173.9 | 522 | 9154 | 0.05199 | 7278 | 0.05172 | 6459 | 0.04999 | 480 |
| 4/0 | 19 | B | 653.3 | 105.5 | 528 | 9617 | 0.05199 | 7479 | 0.05172 | 6453 | 0.04999 | 480 |
| 250 | 19 | A | 771.9 | 114.7 | 574 | 11360 | 0.04400 | 8836 | 0.04378 | 7627 | 0.04231 | 530 |
| 250 | 37 | B | 771.9 | 82.2 | 575 | 11600 | 0.04400 | 8952 | 0.04378 | 7940 | 0.04231 | 530 |
| 300 | 19 | A | 926.3 | 25.7 | 628 | 13510 | 0.03667 | 10530 | 0.03648 | 9160 | 0.03526 | 590 |
| 350 | 19 | A | 1080.6 | 135.7 | 679 | 15590 | 0.03143 | 12200 | 0.03127 | 10680 | 0.03022 | 650 |
| 400 | 19 | A,AA | 1235.0 | 145.1 | 726 | 17810 | 0.02750 | 13950 | 0.02736 | 12200 | 0.02645 | 710 |
| 500 | 37 | A,B | 1543.8 | 116.2 | 814 | 22510 | 0.02200 | 17550 | 0.02189 | 15240 | 0.02116 | 810 |
| 600 | 37 | A,AA | 1853.0 | 127.3 | 891 | 27020 | 0.01834 | 21060 | 0.01825 | 18300 | 0.01763 | 910 |
| 750 | 61 | A,B | 2315.6 | 110.9 | 998 | 34090 | 0.01467 | 26510 | 0.01459 | 22890 | 0.01410 | 1040 |
| 1000 | 61 | A,B | 3087.5 | 128.0 | 1152 | 45030 | 0.01100 | 35100 | 0.01094 | 30500 | 0.01058 | 1240 |

+Ampacity based on 75°C conductor temperature; 25°C ambient temperature; 2 ft./sec. wind in sun.



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