

SIMpull XHHW-2®

Copper XHHW Wire & Cable



600 Volts & 1000 Volts (see below). Copper Conductor. Cross-Linked Polyethylene (XLPE) Insulation. High-Heat and Moisture Resistant. SIM Technology® for easier pulling. Sizes 14 through 10 AWG also rated SIS.

APPLICATIONS

Southwire® SIMpull XHHW-2® copper conductors are primarily used in conduit, Cable Tray or other recognized raceways for services, feeders, and branch circuit wiring, as specified in the National Electrical Code. SIMpull XHHW-2® copper 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 for all sizes and 1000 volts for sizes 8 AWG and larger.** Suitable for use in Health Care Facilities per Section 517.160 of the National Electrical Code where a dielectric constant of less than 3.5 maybe specified. This cable is designed to be installed without the application of pulling lubricant.

STANDARDS & REFERENCES

Southwire® SIMpull XHHW-2® copper conductors comply with the following:

- ASTM- B3, B8 (7, 19, 37, 61 Strands), B787 (19 Strands)
- UL Standard 44
- NOM-ANCE 90° C
- Federal Specification A-A059544
- CT Rated Sizes 1/0 AWG and Larger
- Gas and Oil Resistant II sizes 8 AWG and larger
- Sunlight (UV) Resistant – S 8 AWG and larger
- National Electrical Code, NFPA 70
- NEMA WC 70 Construction Requirements
- FT4/IEEE 1202- Sizes 350 KCMIL and Larger
- RoHS/ REACH Chemical Limit Compliant

CONSTRUCTION

Southwire® SIMpull XHHW-2® copper conductors are annealed (soft) copper. Insulation is an abrasion, moisture, and heat resistant thermoset cross-linked polyethylene (XLPE). Conductor sizes 8 AWG and larger are marked sunlight resistant. Colors are available and may be subject to economic order quantity.



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One Southwire Drive, Carrollton, GA 30119, USA



| Conductor | | Insulation Thickness (mils) | Nominal O.D. (mils) | Approx. Net Wt. Per 1000' (lbs.) | Allowable Ampacities+ | | | Standard Package |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|---------------------|----------------------------------|-----------------------|------|------|--------------------------------------------------------------------------------------|
| Size (AWG or kcmil) | No. of strands | | | | 60°C | 75°C | 90°C | |
| 14* | 7 | 30 | 130 | 18 | 15 | 15 | 15 | AC |
| 12* | 1 | 30 | 141 | 24 | 20 | 20 | 20 | AC |
| 10* | 1 | 30 | 147 | 26 | 30 | 30 | 30 | AC |
| 12* | 7 | 30 | 162 | 37 | 20 | 20 | 20 | AC |
| 10* | 7 | 30 | 171 | 40 | 30 | 30 | 30 | AC |
| 8 | 7 | 45 | 232 | 65 | 40 | 50 | 55 | ABCD |
| 6 | 7 | 45 | 268 | 96 | 55 | 65 | 75 | ABCD |
| 4 | 7 | 45 | 311 | 147 | 70 | 85 | 95 | ABCD |
| 3 | 7 | 45 | 337 | 183 | 85 | 100 | 115 | BC |
| 2 | 7 | 45 | 367 | 227 | 95 | 115 | 130 | ABCD |
| 1 | 19 | 55 | 435 | 291 | 110 | 130 | 145 | ABCD |
| 1/0 | 19 | 55 | 477 | 363 | 125 | 150 | 170 | ABCD |
| 2/0 | 19 | 55 | 521 | 453 | 145 | 175 | 195 | ABCD |
| 3/0 | 19 | 55 | 571 | 565 | 165 | 200 | 225 | ABCD |
| 4/0 | 19 | 55 | 627 | 706 | 195 | 230 | 260 | ABCD |
| 250 | 37 | 65 | 695 | 835 | 215 | 255 | 290 | ABCD |
| 300 | 37 | 65 | 748 | 995 | 240 | 285 | 320 | C |
| 350 | 37 | 65 | 798 | 1155 | 260 | 310 | 350 | AB |
| 400 | 37 | 65 | 843 | 1314 | 280 | 335 | 380 | ABC |
| 500 | 37 | 65 | 927 | 1633 | 320 | 380 | 430 | ABC |
| 600 | 61 | 80 | 1033 | 1965 | 350 | 420 | 475 | ABC |
| 700 | 61 | 80 | 1102 | 2282 | 385 | 460 | 520 | N/A |
| 750 | 61 | 80 | 1135 | 2440 | 400 | 475 | 535 | A |
| 1000 | 61 | 80 | 1284 | 3229 | 455 | 545 | 615 | N/A |
| <p>*Sizes 14 - 10 AWG not available with patented SIM Technology® No Lube® jacket. + Allowable ampacities shown are for general use as specified by the National Electrical Code, sections 310.15 and 240.4(D). Unless the equipment is marked for use at higher temperatures, the conductor ampacities shall be limited to the following per NEC 110.14(C). 60° C When terminated to equipment for circuits rated 100 amperes or less or marked for 14 - 1 AWG conductors. 75° C When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.</p> | | | | | | | | Package Code A - 2500' Reel B - 1000' Reel C - 500' Spool D - 5000' Reel |

RECOMMENDED SAMPLE SPECIFICATIONS:

Conductors shall be UL-listed SIMpull XHHW-2® copper conductors, suitable for operation at 600 volts or less (1000 volts or sizes 8 AWG & larger) 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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| Conductor | | Stock Numbers |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Size (AWG or kcmil) | No. of strands | |
| 14* | 7 | Standard XHHW CU Stock #: BK:112920, WE:370924, RD:370932, BE:370940, GN:370965, YW:370957, OE:370973, BN:370981, PE:370999, GY:371005 |
| 12* | 1 | Standard XHHW CU Stock #: BK:550220, WE:550221, RD:550222, GN:550223, BE:550224, YW:550225, OE:550226, BN:550227 |
| 10* | 1 | Standard XHHW CU Stock #: BK:137240, WE:550212, RD:550213, GN:550214, BE:550215, YW:550216, OE:550217, BN:550218 |
| 12* | 7 | Standard XHHW CU Stock #: BK:112938, WE:371021, RD:371039, BE:371047, GN:371062, YW:371054, OE:371070, BN:371088, PE:371096, GY:371104 |
| 10* | 7 | Standard XHHW CU Stock #: BK:112946, WE:371120, RD:371138, BE:371146, GN:371161, YW:371153, OE:371179, BN:371187, PE:371195, GY:371203 |
| 8 | 7 | SIMpull XHHW-2® CU Stock #: BK:112953, WE:952721, RD:952713, BE:553059, GN:952739, YW:553062, OE:553061, BN:553060, GY:553063 |
| 6 | 7 | SIMpull XHHW-2® CU Stock #: BK:112961, WE:678607, RD:952705, BE:959916, GN:553230, YW:553067, OE:683391, BN:683383, GY:553068 |
| 4 | 7 | SIMpull XHHW-2® CU Stock #: BK:112979, WE:678599, RD:952697, BE:553846, GN:558627, YW:553849, OE:553848, BN:553847, GY:553850 |
| 3 | 7 | SIMpull XHHW-2® CU Stock #: BK:267278, BK/RD:278085, BK/WE:278093, GN:890469 |
| 2 | 7 | SIMpull XHHW-2® CU Stock #: BK:112987, WE:218107, RD:218115, BE:553087, GN:474122, YW:553090, OE:553089, BN:553088, GY:553091 |
| 1 | 19 | SIMpull XHHW-2® CU Stock #: BK:112995, WE:550808, RD:550761, BE:550762, GN:550766, YW:553856, OE:553855, BN:553854, GY:553857 |
| 1/0 | 19 | SIMpull XHHW-2® CU Stock #: BK:113001, WE:553858, RD:553860, BE:553861, GN:553862, YW:553865, OE:553864, BN:553863, GY:553866 |
| 2/0 | 19 | SIMpull XHHW-2® CU Stock #: BK:113019, WE:553870, RD:553871, BE:553872, GN:552070, YW:553876, OE:553874, BN:553873, GY:553877 |
| 3/0 | 19 | SIMpull XHHW-2® CU Stock #: BK:113027, WE:553880, RD:553881, BE:553882, GN:553884, YW:553887, OE:553886, BN:553885, GY:553888 |
| 4/0 | 19 | SIMpull XHHW-2® CU Stock #: BK:113035, WE:553077, RD:553078, BE:553079, GN:552071, YW:553083, OE:553082, BN:553080, GY:553084 |
| 250 | 37 | SIMpull XHHW-2® CU Stock #: BK:113043, WE:553892, RD:553893, BE:553894, GN:553895, YW:553898, OE:553897, BN:553896, GY:553899 |
| 300 | 37 | SIMpull XHHW-2® CU Stock #: BK:113050, YW:561131, OE:561130, BN:561129, GY:584039 |
| 350 | 37 | SIMpull XHHW-2® CU Stock #: BK:113068, WE:553902, RD:553903, BE:553904, GN:553905, YW:553908, OE:553907, BN:553906, GY:553910 |
| 400 | 37 | SIMpull XHHW-2® CU Stock #: BK:113076, WE:561132, RD:561701, BE:561702, GN:558666, YW:561113, OE:561112, BN:561111, GY:561703 |
| 500 | 37 | SIMpull XHHW-2® CU Stock #: BK:113084, WE:553071, RD:550369, BE:550261, GN:553072, YW:550259, OE:550262, BN:550260, GY:553074 |
| 600 | 61 | SIMpull XHHW-2® CU Stock #: BK:113092, WE:553913, RD:553914, BE:553915, GN:553916, YW:553920, OE:553919, BN:553918, GY:553921 |
| 700 | 61 | SIMpull XHHW-2® CU Stock #: BK:586272 |
| 750 | 61 | SIMpull XHHW-2® CU Stock #: BK:113100, WE:553926, RD:553927, BE:553930, GN:553929, YW:553932, OE:553931, BN:553930, GY:553934 |
| 1000 | 61 | SIMpull XHHW-2® CU Stock #: BK:113134 |
| Color Abbreviations BK-Black WE-White RD-Red BE-Blue GN-Green YW-Yellow OE-Orange BN-Brown GY-Grey PE-Purple | | |

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Copper XHHW Wire & Cable



600 Volts & 1000 Volts (see below). Copper Conductor. Cross-Linked Polyethylene (XLPE) Insulation. High-Heat and Moisture Resistant. SIM Technology® for easier pulling. Sizes 14 through 10 AWG also rated SIS.

APPLICATIONS

Southwire® SIMpull XHHW-2® copper conductors are primarily used in conduit, Cable Tray or other recognized raceways for services, feeders, and branch circuit wiring, as specified in the National Electrical Code. SIMpull XHHW-2® copper 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 for all sizes and 1000 volts for sizes 8 AWG and larger.** Suitable for use in Health Care Facilities per Section 517.160 of the National Electrical Code where a dielectric constant of less than 3.5 maybe specified. This cable is designed to be installed without the application of pulling lubricant.

STANDARDS & REFERENCES

Southwire® SIMpull XHHW-2® copper conductors comply with the following:

- ASTM- B3, B8 (7, 19, 37, 61 Strands), B787 (19 Strands)
- UL Standard 44
- NOM-ANCE 90° C
- Federal Specification A-A059544
- CT Rated Sizes 1/0 AWG and Larger
- Gas and Oil Resistant II sizes 8 AWG and larger
- Sunlight (UV) Resistant – S 8 AWG and larger
- National Electrical Code, NFPA 70
- NEMA WC 70 Construction Requirements
- FT4/IEEE 1202- Sizes 350 KCMIL and Larger
- RoHS/ REACH Chemical Limit Compliant

CONSTRUCTION

Southwire® SIMpull XHHW-2® copper conductors are annealed (soft) copper. Insulation is an abrasion, moisture, and heat resistant thermoset cross-linked polyethylene (XLPE). Conductor sizes 8 AWG and larger are marked sunlight resistant. Colors are available and may be subject to economic order quantity.



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| Conductor | | Insulation Thickness (mils) | Nominal O.D. (mils) | Approx. Net Wt. Per 1000' (lbs.) | Allowable Ampacities+ | | | Standard Package |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|---------------------|----------------------------------|-----------------------|------|------|--------------------------------------------------------------------------------------|
| Size (AWG or kcmil) | No. of strands | | | | 60°C | 75°C | 90°C | |
| 14* | 7 | 30 | 130 | 18 | 15 | 15 | 15 | AC |
| 12* | 1 | 30 | 141 | 24 | 20 | 20 | 20 | AC |
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| 8 | 7 | 45 | 232 | 65 | 40 | 50 | 55 | ABCD |
| 6 | 7 | 45 | 268 | 96 | 55 | 65 | 75 | ABCD |
| 4 | 7 | 45 | 311 | 147 | 70 | 85 | 95 | ABCD |
| 3 | 7 | 45 | 337 | 183 | 85 | 100 | 115 | BC |
| 2 | 7 | 45 | 367 | 227 | 95 | 115 | 130 | ABCD |
| 1 | 19 | 55 | 435 | 291 | 110 | 130 | 145 | ABCD |
| 1/0 | 19 | 55 | 477 | 363 | 125 | 150 | 170 | ABCD |
| 2/0 | 19 | 55 | 521 | 453 | 145 | 175 | 195 | ABCD |
| 3/0 | 19 | 55 | 571 | 565 | 165 | 200 | 225 | ABCD |
| 4/0 | 19 | 55 | 627 | 706 | 195 | 230 | 260 | ABCD |
| 250 | 37 | 65 | 695 | 835 | 215 | 255 | 290 | ABCD |
| 300 | 37 | 65 | 748 | 995 | 240 | 285 | 320 | C |
| 350 | 37 | 65 | 798 | 1155 | 260 | 310 | 350 | AB |
| 400 | 37 | 65 | 843 | 1314 | 280 | 335 | 380 | ABC |
| 500 | 37 | 65 | 927 | 1633 | 320 | 380 | 430 | ABC |
| 600 | 61 | 80 | 1033 | 1965 | 350 | 420 | 475 | ABC |
| 700 | 61 | 80 | 1102 | 2282 | 385 | 460 | 520 | N/A |
| 750 | 61 | 80 | 1135 | 2440 | 400 | 475 | 535 | A |
| 1000 | 61 | 80 | 1284 | 3229 | 455 | 545 | 615 | N/A |
| <p>*Sizes 14 - 10 AWG not available with patented SIM Technology® No Lube® jacket. + Allowable ampacities shown are for general use as specified by the National Electrical Code, sections 310.15 and 240.4(D). Unless the equipment is marked for use at higher temperatures, the conductor ampacities shall be limited to the following per NEC 110.14(C). 60° C When terminated to equipment for circuits rated 100 amperes or less or marked for 14 - 1 AWG conductors. 75° C When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.</p> | | | | | | | | Package Code A - 2500' Reel B - 1000' Reel C - 500' Spool D - 5000' Reel |

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| 1 | 19 | SIMpull XHHW-2® CU Stock #: BK:112995, WE:550808, RD:550761, BE:550762, GN:550766, YW:553856, OE:553855, BN:553854, GY:553857 |
| 1/0 | 19 | SIMpull XHHW-2® CU Stock #: BK:113001, WE:553858, RD:553860, BE:553861, GN:553862, YW:553865, OE:553864, BN:553863, GY:553866 |
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| 350 | 37 | SIMpull XHHW-2® CU Stock #: BK:113068, WE:553902, RD:553903, BE:553904, GN:553905, YW:553908, OE:553907, BN:553906, GY:553910 |
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| 1000 | 61 | SIMpull XHHW-2® CU Stock #: BK:113134 |
| Color Abbreviations BK-Black WE-White RD-Red BE-Blue GN-Green YW-Yellow OE-Orange BN-Brown GY-Grey PE-Purple | | |

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