

SIMpull XHHW-2®

Aluminum XHHW Wire & Cable



600 Volt Alumaflex® Brand Aluminum Alloy (AA-8176) Conductor. Cross-linked Polyethylene (XLPE) Insulation. Moisture Resistant High Heat. Sunlight Resistant in Sizes 6 AWG and Larger. CT Rated in Sizes 1/0 AWG and Larger.

APPLICATIONS

Southwire SIMpull XHHW-2® aluminum conductors are primarily used in conduit or recognized raceways for service and feeder wiring as specified in the National Electrical Code. 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. Suitable for use in Health Care Facilities per section 517.160 of the NEC where a dielectric constant of 3.5 or less may be specified. This product is designed to be installed without the application of pulling lubricant.

STANDARDS & REFERENCES

Southwire Aluminum Type XHHW-2 conductors comply with the following:

- ASTM- All Applicable Standards
- UL Standard 44
- NOM-ANCE 90° C
- Federal Specification A-A-59544
- National Electrical Code, NFPA 70
- NEMA WC-70 (ICEA S-95-658) Construction Requirements
- RoHS/Reach Compliant

CONSTRUCTION

Southwire Type XHHW-2 aluminum conductors are Alumaflex® brand AA-8000 series aluminum alloy, compact stranded. The insulation is an abrasion, moisture and heat resistant SIMpull® thermoset cross-linked polyethylene. Conductor sizes 6 AWG and larger are listed and marked sunlight resistant in all colors. Available in black, white, red, blue, brown, orange, yellow, purple, gray, and green. Some colors are subject to economic order quantity.



Revised March 12, 2018

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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 | |
| 8 | 7 | 45 | 227 | 30 | 35 | 40 | 45 | BCD |
| 6 | 7 | 45 | 259 | 39 | 40 | 50 | 55 | BCD |
| 4 | 7 | 45 | 303 | 57 | 55 | 65 | 75 | BCD |
| 2 | 6 | 45 | 358 | 85 | 75 | 90 | 100 | BCD |
| 1 | 8 | 55 | 413 | 108 | 85 | 100 | 115 | BC |
| 1/0 | 10 | 80 | 450 | 180 | 115 | 135 | 150 | ABC |
| 2/0 | 12 | 55 | 490 | 161 | 115 | 135 | 150 | ABCD |
| 3/0 | 16 | 55 | 537 | 198 | 130 | 155 | 175 | BCD |
| 4/0 | 19 | 55 | 589 | 243 | 150 | 180 | 205 | ABCD |
| 250 | 22 | 55 | 650 | 293 | 170 | 205 | 230 | BCD |
| 300 | 35 | 65 | 700 | 346 | 195 | 230 | 260 | BC |
| 350 | 35 | 65 | 746 | 398 | 210 | 250 | 280 | BCD |
| 400 | 35 | 65 | 789 | 449 | 225 | 270 | 305 | CD |
| 500 | 35 | 65 | 866 | 552 | 260 | 310 | 350 | ABCDE |
| 600 | 58 | 80 | 973 | 675 | 285 | 340 | 385 | ABD |
| 700 | 58 | 80 | 1037 | 777 | 315 | 375 | 425 | N/A |
| 750 | 58 | 80 | 1068 | 829 | 320 | 385 | 435 | ABCE |
| 900 | 58 | 80 | 1162 | 979 | 355 | 425 | 480 | N/A |
| 1000 | 58 | 80 | 1220 | 1085 | 375 | 445 | 500 | C |
| <p>+ 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 marked for 14 through 1 AWG conductors. 75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG. 90°C - THHN dry locations and THWN wet or dry locations for ampacity adjustment purposes using NEC section 310.15.</p> | | | | | | | | <p>Package Codes A-500' B-2,500' C-1,000' D-5,000'</p> |

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 Alumaflex® brand aluminum alloy as manufactured by Southwire Company or approved equal.

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| Conductor | | |
|---|-------------------|--|
| Size (AWG or kcmil) | No. of strands | Stock Numbers |
| 8 | 7 | Stock #: N/A |
| 6 | 7 | Stock #: BK:112706, BN:591209, OE:591210, YW:591211, GN:585321 |
| 4 | 7 | Stock #: BK:112714, RD:591114, BE:591115, WE:591116, BN:591201, OE:591202, YW:591203, GN:585320 |
| 2 | 7 | Stock #: BK:112722, BN:591213, OE:591214, YW:591215, GN:585319 |
| 1 | 18 | Stock #: BK:112730, RD:591204, BE:591205, WE:591206, BN:591207, OE:591208, YW:591216, GN:585318, GY:596497 |
| 1/0 | 18 | Stock #: BK:112748, RD:591284, BE:591285, WE:591286, BN:585291, OE:585292, YW:585293, GY:585294, GN:585290, PE:596423 |
| 2/0 | 18 | Stock #: BK:112755, RD:591288, BE:591289, WE:591290, BN:585296, OE:585297, YW:585298, GY:585300, GN:585295, PE:596422 |
| 3/0 | 18 | Stock #: BK:112763, RD:585302, BE:585303, WE:585304, BN:585305, OE:585306, YW:585308, GY:585309, GN:585301, PE:596421 |
| 4/0 | 18 | Stock #: BK:112771, RD:585317, BE:585316, WE:585314, BN:585313, OE:585312, YW:585311, GY:585310, GN:567439, PE:592563 |
| 250 | 22 | Stock #: BK:278341, RD:576390, BE:576391, WE:576392, BN:576385, OE:576386, YW:576387, GY:576388, GN:567440, PE:592468 |
| 300 | 35 | Stock #: BK:278358, RD:576382, BE:576383, WE:576384, BN:576133, OE:576134, YW:576135, GY:576136, GN:576361, PE:593380 |
| 350 | 35 | Stock #: BK:278366, RD:576378, BE:576379, WE:576380, BN:576374, OE:576375, YW:576376, GY:576377, GN:567437, PE:592562 |
| 400 | 35 | Stock #: BK:278374, RD:576370, BE:576372, WE:576373, BN:576127, OE:576129, YW:576130, GY:576131, GN:567384, PE:593379 |
| 500 | 35 | Stock #: BK:278382, RD:576367, BE:576368, WE:576369, BN:576362, OE:576364, YW:576365, GY:576366, GN:576394, PE:589196 |
| 600 | 58 | Stock #: BK:278390, RD:576350, BE:576351, WE:576352, BN:576345, OE:576346, YW:576347, GY:576349, GN:567375, PE:589197 |
| 700 | 58 | Stock #: BK:278408, RD:591293, BE:591294, WE:591295, BN:576341, OE:576342, YW:576343, GY:576344, GN:591296 |
| 750 | 58 | Stock #: BK:278416, RD:592233, BE:592234, WE:592235, BN:567432, OE:567433, YW:567434, GY:567435, GN:567436, PE:592469 |
| 900 | 58 | Stock #: BK:554059, BN:560445, OE:560446, YW:560447, GY:560448, PE:596424 |
| 1000 | 58 | Stock #: BK:278424 |
| Color Abbreviations BK-Black RD- Red BE-Blue WE-White BN-Brown OE-Orange YW- Yellow GY-Grey GN-Green PE-Purple | | |

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