

# **SIMpull XHHW-2®**

## **Copper XHHW Wire & Cable (Size)**



**600 Volt. Copper Conductor. Cross-Linked Polyethylene (XLP) 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. 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 Wire Combination Unilay Strand)
- UL Standard 44- NOM-ANCE 90° C
- Federal Specification A-A059544
- CT Rated Sizes 1/0 AWG and Larger
- National Electrical Code, NFPA 70- 2011 Edition
- NEMA WC 70 Construction Requirements
- FT4/IEEE 1202- Sizes 350 KCMIL and Larger
- RoHS/ REACH

### **CONSTRUCTION**

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



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 2011 Edition, section 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. 90 °C XHHW wet or dry locations for ampacity adjustment purposes using NEC section 310.15</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 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.

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
<b>Color Abbreviations</b> BK-Black    WE-White    RD-Red    BE-Blue    GN-Green YW-Yellow    OE-Orange    BN-Brown    GY-Grey    PE-Purple		

