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.



Revised March 12, 2018





Conductor				Approx.	Allowable Ampacities+			
Size (AWG or kcmil)	No. of strands	Insulation Thickness (mils)	Nominal O.D. (mils)		60°C	75°C	90°C	Standard Package
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	ВС
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	С
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	Α
1000	61	80	1284	3229	455	545	615	N/A

*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.

Package Code A - 2500' Reel

B - 1000' Reel

C - 500' Spool

- 500 Spoo

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.

Revised March 12, 2018

The Power of Connections.™



^	andusta =							
Size	onductor							
(AWG or	No. of strands	Stock Numbers						
kcmil)								
		Standard XHHW CU Stock #: BK:112920, WE:370924, RD:370932, BE:370940,						
14*	7	GN:370965, YW:370957, OE:370973, BN:370981, PE:370999, GY:371005						
		Standard XHHW CU Stock #: BK:550220, WE:550221, RD:550222,						
12*	1	GN:550223, BE:550224, YW:550225, OE:550226, BN:550227						
		Standard XHHW CU Stock #: BK:137240, WE:550212, RD:550213,						
10*	1	GN:550214, BE:550215, YW:550216, OE:550217, BN:550218						
		Standard XHHW CU Stock #: BK:112938, WE:371021, RD:371039, BE:371047,						
12*	7	GN:371062, YW:371054, OE:371070, BN:371088, PE:371096, GY:371104						
		Standard XHHW CU Stock #: BK:112946, WE:371120, RD:371138, BE:371146,						
10*	7	GN:371161, YW:371153, OE:371179, BN:371187, PE:371195, GY:371203						
		SIMpull XHHW-2® CU Stock #: BK:112953, WE:952721, RD:952713, BE:553059,						
8	7	GN:952739, YW:553062, OE:550361, BN:553060, GY:553063						
		SIMpull XHHW-2® CU Stock #: BK:112961, WE:678607, RD:952705, BE:959916,						
6	7	GN:553230, YW:553067, OE:683391, BN:683383, GY:553068						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:112979, WE:678599, RD:952697, BE:553846,						
4	7	GN:558627, YW:553849, OE:553848, BN:553847, GY:553850						
3	7	SIM <i>pull</i> XHHW-2® CU Stock #: BK:267278, BK/RD:278085, BK/WE:278093, GN:890469						
		SIM pull XHHW-2® CU Stock #: BK:112987, WE:218107, RD:218115,						
2	7	BE:553087, GN:474122, YW:553090, OE:553089, BN:553088, GY:553091						
		SIM pull XHHW-2® CU Stock #: BK:112995, WE:550808, RD:550761,						
1	19	BE:550762, GN:550766, YW:553856, OE:553855, BN:553854, GY:553857						
		SIM pull XHHW-2® CU Stock #: BK:113001, WE:553858, RD:553860,						
1/0	19	BE:553861, GN:553862, YW:553865, OE:553864, BN:553863, GY:553866						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:113019, WE:553870, RD:553871,						
2/0	19	BE:553872, GN:552070, YW:553876, OE:553874, BN:553873, GY:553877						
		SIM pull XHHW-2® CU Stock #: BK:113027, WE:553880, RD:553881, BE:553882,						
3/0	19	GN:553884, YW:553887, OE:553886, BN:553885, GY:553888						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:113035, WE:553077, RD:553078, BE:553079,						
4/0	19	GN:552071, YW:553083, OE:553082, BN:553080, GY:553084						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:113043, WE:553892, RD:553893, BE:553894,						
250	37	GN:553895, YW:553898, OE:553897, BN:553896, GY:553899						
		SIMpull XHHW-2® CU Stock #: BK:113050, YW:561131, OE:561130,						
300	37	BN:561129, GY:584039						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:113068, WE:553902, RD:553903, BE:553904,						
350	37	GN:553905, YW:553908, OE:553907, BN:553906, GY:553910						
		SIM pull XHHW-2® CU Stock #: BK:113076, WE:561132, RD:561701, BE:561702,						
400	37	GN:558666, YW:561113, OE:561112, BN:561111, GY:561703						
		SIMpull XHHW-2® CU Stock #: BK:113084, WE:553071, RD:550369, BE:550261,						
500	37	GN:553072, YW:550259, OE:550262, BN:550260, GY:553074						
		SIMpull XHHW-2® CU Stock #: BK:113092, WE:553913, RD:553914, BE:553915,						
600	61	GN:553916, YW:553920, OE:553919, BN:553918, GY:553921						
700	61	SIMpull XHHW-2® CU Stock #: BK:586272						
		SIMpull XHHW-2® CU Stock #: BK:113100, WE:553926, RD:553927, BE:553930,						
750	61	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						

Revised March 12, 2018

The Power of Connections. $^{\text{\tiny TM}}$



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.



Revised March 12, 2018





Conductor				Approx.	Allowable Ampacities+			
Size (AWG or kcmil)	No. of strands	Insulation Thickness (mils)	Nominal O.D. (mils)		60°C	75°C	90°C	Standard Package
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	ВС
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	С
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	Α
1000	61	80	1284	3229	455	545	615	N/A

*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.

Package Code A - 2500' Reel

B - 1000' Reel

C - 500' Spool

- 500 Spoo

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.

Revised March 12, 2018

The Power of Connections.™



^	andusta =							
Size	onductor							
(AWG or	No. of strands	Stock Numbers						
kcmil)								
		Standard XHHW CU Stock #: BK:112920, WE:370924, RD:370932, BE:370940,						
14*	7	GN:370965, YW:370957, OE:370973, BN:370981, PE:370999, GY:371005						
		Standard XHHW CU Stock #: BK:550220, WE:550221, RD:550222,						
12*	1	GN:550223, BE:550224, YW:550225, OE:550226, BN:550227						
		Standard XHHW CU Stock #: BK:137240, WE:550212, RD:550213,						
10*	1	GN:550214, BE:550215, YW:550216, OE:550217, BN:550218						
		Standard XHHW CU Stock #: BK:112938, WE:371021, RD:371039, BE:371047,						
12*	7	GN:371062, YW:371054, OE:371070, BN:371088, PE:371096, GY:371104						
		Standard XHHW CU Stock #: BK:112946, WE:371120, RD:371138, BE:371146,						
10*	7	GN:371161, YW:371153, OE:371179, BN:371187, PE:371195, GY:371203						
		SIMpull XHHW-2® CU Stock #: BK:112953, WE:952721, RD:952713, BE:553059,						
8	7	GN:952739, YW:553062, OE:550361, BN:553060, GY:553063						
		SIMpull XHHW-2® CU Stock #: BK:112961, WE:678607, RD:952705, BE:959916,						
6	7	GN:553230, YW:553067, OE:683391, BN:683383, GY:553068						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:112979, WE:678599, RD:952697, BE:553846,						
4	7	GN:558627, YW:553849, OE:553848, BN:553847, GY:553850						
3	7	SIM <i>pull</i> XHHW-2® CU Stock #: BK:267278, BK/RD:278085, BK/WE:278093, GN:890469						
		SIM pull XHHW-2® CU Stock #: BK:112987, WE:218107, RD:218115,						
2	7	BE:553087, GN:474122, YW:553090, OE:553089, BN:553088, GY:553091						
		SIM pull XHHW-2® CU Stock #: BK:112995, WE:550808, RD:550761,						
1	19	BE:550762, GN:550766, YW:553856, OE:553855, BN:553854, GY:553857						
		SIM pull XHHW-2® CU Stock #: BK:113001, WE:553858, RD:553860,						
1/0	19	BE:553861, GN:553862, YW:553865, OE:553864, BN:553863, GY:553866						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:113019, WE:553870, RD:553871,						
2/0	19	BE:553872, GN:552070, YW:553876, OE:553874, BN:553873, GY:553877						
		SIM pull XHHW-2® CU Stock #: BK:113027, WE:553880, RD:553881, BE:553882,						
3/0	19	GN:553884, YW:553887, OE:553886, BN:553885, GY:553888						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:113035, WE:553077, RD:553078, BE:553079,						
4/0	19	GN:552071, YW:553083, OE:553082, BN:553080, GY:553084						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:113043, WE:553892, RD:553893, BE:553894,						
250	37	GN:553895, YW:553898, OE:553897, BN:553896, GY:553899						
		SIMpull XHHW-2® CU Stock #: BK:113050, YW:561131, OE:561130,						
300	37	BN:561129, GY:584039						
		SIM <i>pull</i> XHHW-2® CU Stock #: BK:113068, WE:553902, RD:553903, BE:553904,						
350	37	GN:553905, YW:553908, OE:553907, BN:553906, GY:553910						
		SIM pull XHHW-2® CU Stock #: BK:113076, WE:561132, RD:561701, BE:561702,						
400	37	GN:558666, YW:561113, OE:561112, BN:561111, GY:561703						
		SIMpull XHHW-2® CU Stock #: BK:113084, WE:553071, RD:550369, BE:550261,						
500	37	GN:553072, YW:550259, OE:550262, BN:550260, GY:553074						
		SIMpull XHHW-2® CU Stock #: BK:113092, WE:553913, RD:553914, BE:553915,						
600	61	GN:553916, YW:553920, OE:553919, BN:553918, GY:553921						
700	61	SIMpull XHHW-2® CU Stock #: BK:586272						
		SIMpull XHHW-2® CU Stock #: BK:113100, WE:553926, RD:553927, BE:553930,						
750	61	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						

Revised March 12, 2018

The Power of Connections. $^{\text{\tiny TM}}$

