600V ROYAL® SOOW Cord Control with Black Jacket 90°C. MSHA Approved

600 Volt 90°C Flexible Cord. Heat, Moisture and Oil Resistant EPDM Rubber Insulation, Heat, Moisture and Oil Resistant Flexible CPE Jacket



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class K stranded bare copper per ASTM B-174
2. **Insulation:** Heat, moisture and oil resistant EPDM
3. **Filler:** Waxed paper fillers, with a tissue-paper separator wrapped around the assembly
4. **Jacket:** Black CPE (Other colors available upon request)

APPLICATIONS AND FEATURES:

Southwire Type SOOW Flexible Cords UL/ CSA listed are permitted for use as specified by Article 400 and related articles of the 2014 National Electrical Code. The cable is rated -40°C to 90°C, water, oil, and weather resistant. Southwire Type SOOW Flexible Cords are designed for extra hard usage on industrial equipment, heavy tools, battery chargers, portable lights, welding leads, marine dockside power, power extensions and mining applications.

SPECIFICATIONS:

- UL 62 Flexible Cords and Cables
- CSA C22.2 No. 49 Flexible Cords and Cables
- MSHA flame test - P07-KA070018-1MSHA
- Passes CSA FT2 Flame Test
- RoHS-3 Complies with European Directive 2015/863
- NEC Article 400 Flexible Cords, Cables and Fixture Wire
- NEC Article 501.140 Class I Division 2
- Federal Specification J-C-580B

SAMPLE PRINT LEGEND:

SOUTHWIRE® ROYAL® CORD XX/C XX AWG ({mm2}) SOOW E46194 {UL} 600V -40°C TO 90°C -- {CSA} LL90458 SOOW 600V -40°C TO 90°C FT2 WATER RESISTANT {NOM}-ANCE -- {MSHA}

PACKAGING:

Standard lengths: 250', 500' and 1,000' reels. Other lengths available upon request.

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UPDATED: April 30, 2025, 2:16 p.m.UTC REVISION: 1.000.059

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity	DC Resistance	Insul. Color	Jacket Color
	AWG/ Kcmil	No.	No.	mil	mil	inch	lb/1000ft	Amp	Ω/1000ft		
558237	18	7	16	30	80	0.488	135	5	6.659	SEE TABLE	BK
558236	18	6	16	30	95	0.492	138	6	6.659	SEE TABLE	BK
558238	18	8	16	30	85	0.521	164	5	6.659	SEE TABLE	BK
570034	18	10	16	30	90	0.596	196	4	6.659	SEE TABLE	BK
570037	18	12	16	30	90	0.621	223	4	6.659	SEE TABLE	BK
598302	18	14	16	30	90	0.64	246	4	6.659	SEE TABLE	BK
570039	18	16	16	30	100	0.668	274	4	6.659	SEE TABLE	BK
570042	18	20	16	30	95	0.739	321	4	6.659	SEE TABLE	BK
570043	18	24	16	30	110	0.83	405	3	6.659	SEE TABLE	BK
571692	18	30	16	30	100	0.849	446	3	6.659	SEE TABLE	BK
558232	16	6	26	30	90	0.516	164	8	4.181	SEE TABLE	BK
558233	16	7	26	30	90	0.564	203	7	4.181	SEE TABLE	BK
558234	16	8	26	30	90	0.566	201	7	4.181	SEE TABLE	BK
560526	16	10	26	30	90	0.648	255	5	4.181	SEE TABLE	BK
560527	16	12	26	30	105	0.7	327	5	4.181	SEE TABLE	BK
598305	16	14	26	30	110	0.727	340	5	4.181	SEE TABLE	BK
570018	16	20	26	30	95	0.774	416	5	4.181	SEE TABLE	BK
560528	16	16	26	30	110	0.778	372	5	4.181	SEE TABLE	BK
570019	16	24	26	30	110	0.893	501	4	4.181	SEE TABLE	BK
570026	16	30	26	30	130	0.982	643	4	4.181	SEE TABLE	BK
558150	14	7	41	45	95	0.712	310	10	2.621	SEE TABLE	BK
558149	14	6	41	45	110	0.718	305	12	2.621	SEE TABLE	BK
558230	14	8	41	45	115	0.73	326	10	2.621	SEE TABLE	BK
569994	14	10	41	45	110	0.77	404	8	2.621	SEE TABLE	BK

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Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity	DC Resistance	Insul. Color	Jacket Color
	AWG/ Kcmil	No.	No.	mil	mil	inch	lb/1000ft	Amp	Ω/1000ft		
571270	14	12	41	45	110	0.883	477	8	2.621	SEE TABLE	BK
569997	14	16	41	45	130	1.02	631	8	2.621	SEE TABLE	BK
558144	12	6	65	45	110	0.74	380	16	1.652	SEE TABLE	BK
558145	12	7	65	45	95	0.74	353	14	1.652	SEE TABLE	BK
558146	12	8	65	45	110	0.803	432	14	1.652	SEE TABLE	BK
571397	12	9	65	45	110	0.852	483	14	1.652	SEE TABLE	BK
569981	12	10	65	45	100	0.894	501	10	1.652	SEE TABLE	BK
569982	12	12	65	45	130	0.987	627	10	1.652	SEE TABLE	BK
598307	12	14	65	45	130	1.035	705	10	1.652	SEE TABLE	BK
569979	10	6	104	45	110	0.83	488	20	1.04	SEE TABLE	BK
569980	10	7	104	45	115	0.84	520	18	1.04	SEE TABLE	BK
570006	10	12	104	45	130	1.067	848	12	1.04	SEE TABLE	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Ampacities are based on TABLE 400.5(A)(1) of the 2023 National Electrical Code and CEC Table 12.

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Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity *	DC Resistance	Insul. Color	Jacket Color
	AWG/ Kcmil	No.	No.	mm	mm	mm	kg/km	Amp	Ω/km		
558237	18	7	16	0.76	2.03	12.40	201	5	21.85	SEE TABLE	BK
558236	18	6	16	0.76	2.41	12.50	205	6	21.85	SEE TABLE	BK
558238	18	8	16	0.76	2.16	13.23	244	5	21.85	SEE TABLE	BK
570034	18	10	16	0.76	2.29	15.14	292	4	21.85	SEE TABLE	BK
570037	18	12	16	0.76	2.29	15.77	332	4	21.85	SEE TABLE	BK
598302	18	14	16	0.76	2.29	16.26	366	4	21.85	SEE TABLE	BK
570039	18	16	16	0.76	2.54	16.97	408	4	21.85	SEE TABLE	BK
570042	18	20	16	0.76	2.41	18.77	478	4	21.85	SEE TABLE	BK
570043	18	24	16	0.76	2.79	21.08	603	3	21.85	SEE TABLE	BK
571692	18	30	16	0.76	2.54	21.56	664	3	21.85	SEE TABLE	BK
558232	16	6	26	0.76	2.29	13.11	244	8	13.72	SEE TABLE	BK
558233	16	7	26	0.76	2.29	14.33	302	7	13.72	SEE TABLE	BK
558234	16	8	26	0.76	2.29	14.38	299	7	13.72	SEE TABLE	BK
560526	16	10	26	0.76	2.29	16.46	379	5	13.72	SEE TABLE	BK
560527	16	12	26	0.76	2.67	17.78	487	5	13.72	SEE TABLE	BK
598305	16	14	26	0.76	2.79	18.47	506	5	13.72	SEE TABLE	BK
570018	16	20	26	0.76	2.41	19.66	619	5	13.72	SEE TABLE	BK
560528	16	16	26	0.76	2.79	19.76	554	5	13.72	SEE TABLE	BK
570019	16	24	26	0.76	2.79	22.68	746	4	13.72	SEE TABLE	BK
570026	16	30	26	0.76	3.30	24.94	957	4	13.72	SEE TABLE	BK
558150	14	7	41	1.14	2.41	18.08	461	10	8.60	SEE TABLE	BK
558149	14	6	41	1.14	2.79	18.24	454	12	8.60	SEE TABLE	BK
558230	14	8	41	1.14	2.92	18.54	485	10	8.60	SEE TABLE	BK
569994	14	10	41	1.14	2.79	19.56	601	8	8.60	SEE TABLE	BK

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Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity *	DC Resistance	Insul. Color	Jacket Color
	AWG/ Kcmil	No.	No.	mm	mm	mm	kg/km	Amp	Ω/km		
571270	14	12	41	1.14	2.79	22.43	710	8	8.60	SEE TABLE	BK
569997	14	16	41	1.14	3.30	25.91	939	8	8.60	SEE TABLE	BK
558144	12	6	65	1.14	2.79	18.80	566	16	5.42	SEE TABLE	BK
558145	12	7	65	1.14	2.41	18.80	525	14	5.42	SEE TABLE	BK
558146	12	8	65	1.14	2.79	20.40	643	14	5.42	SEE TABLE	BK
571397	12	9	65	1.14	2.79	21.64	719	14	5.42	SEE TABLE	BK
569981	12	10	65	1.14	2.54	22.71	746	10	5.42	SEE TABLE	BK
569982	12	12	65	1.14	3.30	25.07	933	10	5.42	SEE TABLE	BK
598307	12	14	65	1.14	3.30	26.29	1049	10	5.42	SEE TABLE	BK
569979	10	6	104	1.14	2.79	21.08	726	20	3.41	SEE TABLE	BK
569980	10	7	104	1.14	2.92	21.34	774	18	3.41	SEE TABLE	BK
570006	10	12	104	1.14	3.30	27.10	1262	12	3.41	SEE TABLE	BK

* Ampacities are based on TABLE 400.5(A)(1) of the 2023 National Electrical Code and CEC Table 12.

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Color Table

Stock Number	Size (AWG)	Conductor Number	Insulation Color	Filler/ Binder
570034	18	10	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe	None/ Paper
570037	18	12	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe	None/ Paper
598302	18	14	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe	None/ Paper
570039	18	16	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe	None/ Paper
570042	18	20	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe, BK-RD 1xStripe, WE-RD 1xStripe, GN-RD 1xStripe, OE-RD 1xStripe	None/ Paper
570043	18	24	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe, BK-RD 1xStripe, WE-RD 1xStripe, GN-RD 1xStripe, OE-RD 1xStripe, BE-RD 1xStripe, BK-WE 2xStripe, RD-WE 2xStripe, GN-WE 2xStripe	None/ Paper
571692	18	30	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe, BK-RD 1xStripe, WE-RD 1xStripe, GN-RD 1xStripe, OE-RD 1xStripe, BE-RD 1xStripe, BK-WE 2xStripe, RD-WE 2xStripe, GN-WE 2xStripe, OE-WE 2xStripe, BE-WE 2xStripe, WE-BK 2xStripe, RD-BK 2xStripe, GN-BK 2xStripe, OE-BK 2xStripe	None/ Paper
560526	16	10	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe	Paper/ Paper
560527	16	12	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe	Paper/ Paper
598305	16	14	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe	Paper/ Paper
560528	16	16	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe	None/ Paper
570018	16	20	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe, BK-RD 1xStripe, WE-RD 1xStripe, GN-RD 1xStripe, OE-RD 1xStripe	None/ Paper
570019	16	24	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe, BK-RD 1xStripe, WE-RD 1xStripe, GN-RD 1xStripe, OE-RD 1xStripe, BE-RD 1xStripe, BK-WE 2xStripe, RD-WE 2xStripe, GN-WE 2xStripe	None/ Paper
570026	16	30	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe, BK-RD 1xStripe, WE-RD 1xStripe, GN-RD 1xStripe, OE-RD 1xStripe, BE-RD 1xStripe, BK-WE 2xStripe, RD-WE 2xStripe, GN-WE 2xStripe, OE-WE 2xStripe, BE-WE 2xStripe, WE-BK 2xStripe, RD-BK 2xStripe, GN-BK 2xStripe, OE-BK 2xStripe	Paper/ Mylar
569994	14	10	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe	Paper/ Paper
571270	14	12	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe	Paper/ Paper
569995	14	14	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe	Paper/ Paper
569997	14	16	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe	Paper/ String
571397	12	9	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe	None/ Paper
569981	12	10	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe	Paper/ Paper
569982	12	12	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe	None/ Paper
598307	12	14	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe	Paper/ Paper
569983	12	20	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe, RD-BK 1xStripe, GN-BK 1xStripe, OE-BK 1xStripe, BE-BK 1xStripe, BK-RD 1xStripe, WE-RD 1xStripe, GN-RD 1xStripe, OE-RD 1xStripe	Poly/ Paper

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Stock Number	Size (AWG)	Conductor Number	Insulation Color	Filler/ Binder
595662	10	10	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe	Paper/ Paper
570006	10	12	BK, WE, RD, GN, OE, BE, BK-WE 1xStripe, RD-WE 1xStripe, GN-WE 1xStripe, OE-WE 1xStripe, BE-WE 1xStripe, WE-BK 1xStripe	None/ Paper

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