

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

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

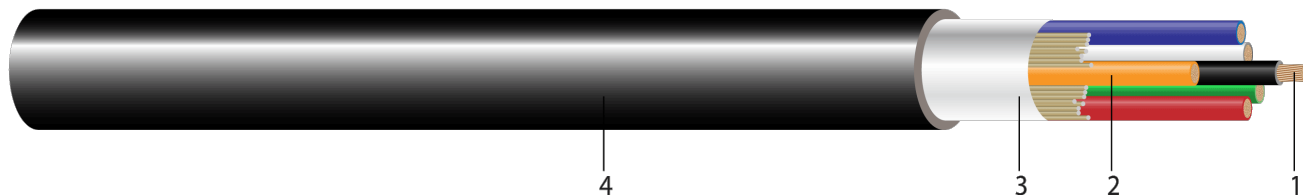


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

- Conductor:** Class K stranded bare copper per ASTM B-174
- Insulation:** Heat, moisture and oil resistant EPDM
- Filler:** Waxed paper fillers, with a tissue-paper separator wrapped around the assembly
- 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-2 (European Directive 2011/65/EU)
- 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{R} ROYAL{R} CORD XX/C XX AWG ({mm<sup>2</sup>}) SOOW E46194 MASTER-DESIGN {UL} 600V -40{D}C TO 90{D}C -- {CSA} LL90458 SOOW 600V -40{D}C TO 90{D}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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**Table 1 – Weights and Measurements**

Stock Number	CCI Part #	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Approx. OD	Approx. Weight	Ampacity *	DC Resistance
		AWG/Kcmil	Count	# x AWG	mil	inch	lb/1000ft	Amp	Ω/1000ft
558235	830505	18	5	16/30	30	0.47	116	5.5	6.59
558236	830605	18	6	16/30	30	0.49	132	5.5	6.59
558237	830705	18	7	16/30	30	0.49	159	4.5	6.59
558238	830805	18	8	16/30	30	0.52	175	4.5	6.59
570034	831005	18	10	16/30	30	0.6	206	3.5	6.59
570037	831205	18	12	16/30	30	0.61	231	3.5	6.59
598302	831405	18	14	16/30	30	0.64	241	3.5	6.59
570039	831605	18	16	16/30	30	0.67	284	3.5	6.59
570042	832005	18	20	16/30	30	0.74	347	3.5	6.59
570043	832405	18	24	16/30	30	0.83	383	3	6.59
571692	833005	18	30	16/30	30	0.87	453	3	6.59
TBA	833705	18	37	16/30	30	0.98	570	2.5	6.59
558232	830606	16	6	26/30	30	0.49	171	8	4.05
558231	830506	16	5	26/30	30	0.5	143	8	4.05
558234	830806	16	8	26/30	30	0.51	201	7	4.05
558233	830706	16	7	26/30	30	0.56	180	7	4.05
560526	831006	16	10	26/30	30	0.65	251	5	4.05
560527	831206	16	12	26/30	30	0.7	299	5	4.05
598305	831406	16	14	26/30	30	0.73	342	5	4.05
560528	831606	16	16	26/30	30	0.76	367	5	4.05
570018	832006	16	20	26/30	30	0.78	414	5	4.05
570019	832406	16	24	26/30	30	0.92	490	4.5	4.05
570026	833006	16	30	26/30	30	0.98	613	4.5	4.05
598314	833706	16	37	26/30	30	1.05	719	4	4.05
TBA	834006	16	40	26/30	30	1.09	787	4	4.05
558147	830507	14	5	41/30	50	0.655	255	12	2.55
558149	830607	14	6	41/30	50	0.664	323	12	2.55
558150	830707	14	7	41/30	50	0.71	278	10	2.55
558230	830807	14	8	41/30	50	0.73	341	10	2.55
569994	831007	14	10	41/30	50	0.77	410	7	2.55
571270	831207	14	12	41/30	50	0.88	482	7	2.55
569995	831407	14	14	41/30	50	0.98	489	7	2.55
569997	831607	14	16	41/30	50	1	628	7	2.55
569998	832007	14	20	41/30	50	1.11	782	7	2.55
569999	832407	14	24	41/30	50	1.17	810	6	2.55
598306	833707	14	37	41/30	50	1.3	1203	6	2.55
570004	833007	14	30	41/30	50	1.34	997	6	2.55
TBA	834007	14	40	41/30	50	1.47	1675	6	2.55
558104	830508	12	5	65/30	50	0.71	338	16	1.61
558144	830608	12	6	65/30	50	0.74	351	16	1.61
558145	830708	12	7	65/30	50	0.75	372	14	1.61



Stock Number	CCI Part #	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Approx. OD	Approx. Weight	Ampacity *	DC Resistance
		AWG/Kcmil	Count	# x AWG	mil	inch	lb/1000ft	Amp	$\Omega$ /1000ft
558146	830808	12	8	65/30	50	0.8	418	14	1.61
571397	830908	12	9	65/30	50	0.85	541	14	1.61
569981	831008	12	10	65/30	50	0.93	585	10	1.61
569982	831208	12	12	65/30	50	0.99	690	10	1.61
598307	831408	12	14	65/30	50	1.04	728	10	1.61
598308	831608	12	16	65/30	50	1.09	762	10	1.61
569983	832008	12	20	65/30	50	1.2	922	10	1.61
531718	832408	12	24	65/30	50	1.32	1133	9	1.61
TBA	833008	12	30	65/30	50	1.42	1326	9	1.61
569987	833708	12	37	65/30	50	1.51	1562	8	1.61
558103	830509	10	5	104/30	50	0.77	440	20	0.98
569979	830609	10	6	104/30	50	0.81	466	20	0.98
569980	830709	10	7	104/30	50	0.84	520	17	0.98
TBA	830809	10	8	104/30	50	0.87	536	17	0.98
595662	831009	10	10	104/30	50	1.03	735	12	0.98
570006	831209	10	12	104/30	50	1.07	801	12	0.98
TBA	831409	10	14	104/30	50	1.12	918	12	0.98
TBA	831609	10	16	104/30	50	1.18	1035	12	0.98
TBA	832009	10	20	104/30	50	1.33	1258	12	0.98
TBA	832409	10	24	104/30	50	1.48	1514	11	0.98
TBA	833009	10	30	104/30	50	1.56	1822	11	0.98
TBA	833709	10	37	104/30	50	1.68	2181	10	0.98

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) of the 2014 National Electrical Code and CEC Table 12.



**Table 2 – Weights and Measurements (Metric)**

Stock Number	CCI Part #	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Approx. OD	Approx. Weight	Ampacity *	DC Resistance
		AWG/Kcmil	Count	# x AWG	mm	mm	kg/km	Amp	Ω/km
558235	830505	18	5	16/30	0.76	11.94	173	5.5	21.62
558236	830605	18	6	16/30	0.76	12.45	196	5.5	21.62
558237	830705	18	7	16/30	0.76	12.45	237	4.5	21.62
558238	830805	18	8	16/30	0.76	13.21	260	4.5	21.62
570034	831005	18	10	16/30	0.76	15.24	307	3.5	21.62
570037	831205	18	12	16/30	0.76	15.49	344	3.5	21.62
598302	831405	18	14	16/30	0.76	16.26	359	3.5	21.62
570039	831605	18	16	16/30	0.76	17.02	423	3.5	21.62
570042	832005	18	20	16/30	0.76	18.80	516	3.5	21.62
570043	832405	18	24	16/30	0.76	21.08	570	3	21.62
571692	833005	18	30	16/30	0.76	22.10	674	3	21.62
TBA	833705	18	37	16/30	0.76	24.89	848	2.5	21.62
558232	830606	16	6	26/30	0.76	12.45	254	8	13.29
558231	830506	16	5	26/30	0.76	12.70	213	8	13.29
558234	830806	16	8	26/30	0.76	12.95	299	7	13.29
558233	830706	16	7	26/30	0.76	14.22	268	7	13.29
560526	831006	16	10	26/30	0.76	16.51	374	5	13.29
560527	831206	16	12	26/30	0.76	17.78	445	5	13.29
598305	831406	16	14	26/30	0.76	18.54	509	5	13.29
560528	831606	16	16	26/30	0.76	19.30	546	5	13.29
570018	832006	16	20	26/30	0.76	19.81	616	5	13.29
570019	832406	16	24	26/30	0.76	23.37	729	4.5	13.29
570026	833006	16	30	26/30	0.76	24.89	912	4.5	13.29
598314	833706	16	37	26/30	0.76	26.67	1070	4	13.29
TBA	834006	16	40	26/30	0.76	27.69	1171	4	13.29
558147	830507	14	5	41/30	1.27	16.64	379	12	8.37
558149	830607	14	6	41/30	1.27	16.87	481	12	8.37
558150	830707	14	7	41/30	1.27	18.03	414	10	8.37
558230	830807	14	8	41/30	1.27	18.54	507	10	8.37
569994	831007	14	10	41/30	1.27	19.56	610	7	8.37
571270	831207	14	12	41/30	1.27	22.35	717	7	8.37
569995	831407	14	14	41/30	1.27	24.89	728	7	8.37
569997	831607	14	16	41/30	1.27	25.40	935	7	8.37
569998	832007	14	20	41/30	1.27	28.19	1164	7	8.37
569999	832407	14	24	41/30	1.27	29.72	1205	6	8.37
598306	833707	14	37	41/30	1.27	33.02	1790	6	8.37
570004	833007	14	30	41/30	1.27	34.04	1484	6	8.37
TBA	834007	14	40	41/30	1.27	37.34	2493	6	8.37
558104	830508	12	5	65/30	1.27	18.03	503	16	5.28
558144	830608	12	6	65/30	1.27	18.80	522	16	5.28
558145	830708	12	7	65/30	1.27	19.05	554	14	5.28



Stock Number	CCI Part #	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Approx. OD	Approx. Weight	Ampacity *	DC Resistance
		AWG/Kcmil	Count	# x AWG	mm	mm	kg/km	Amp	Ω/km
558146	830808	12	8	65/30	1.27	20.32	622	14	5.28
571397	830908	12	9	65/30	1.27	21.59	805	14	5.28
569981	831008	12	10	65/30	1.27	23.62	871	10	5.28
569982	831208	12	12	65/30	1.27	25.15	1027	10	5.28
598307	831408	12	14	65/30	1.27	26.42	1083	10	5.28
598308	831608	12	16	65/30	1.27	27.69	1134	10	5.28
569983	832008	12	20	65/30	1.27	30.48	1372	10	5.28
531718	832408	12	24	65/30	1.27	33.53	1686	9	5.28
TBA	833008	12	30	65/30	1.27	36.07	1973	9	5.28
569987	833708	12	37	65/30	1.27	38.35	2325	8	5.28
558103	830509	10	5	104/30	1.27	19.56	655	20	3.22
569979	830609	10	6	104/30	1.27	20.57	693	20	3.22
569980	830709	10	7	104/30	1.27	21.34	774	17	3.22
TBA	830809	10	8	104/30	1.27	22.10	798	17	3.22
595662	831009	10	10	104/30	1.27	26.16	1094	12	3.22
570006	831209	10	12	104/30	1.27	27.18	1192	12	3.22
TBA	831409	10	14	104/30	1.27	28.45	1366	12	3.22
TBA	831609	10	16	104/30	1.27	29.97	1540	12	3.22
TBA	832009	10	20	104/30	1.27	33.78	1872	12	3.22
TBA	832409	10	24	104/30	1.27	37.59	2253	11	3.22
TBA	833009	10	30	104/30	1.27	39.62	2711	11	3.22
TBA	833709	10	37	104/30	1.27	42.67	3246	10	3.22



**Color Code**

# of Conductor	Color Sequence	Tracer	# of Conductor	Color Sequence	Tracer
1	Black		21	Orange	Green
2	White		22	Black	White/Red
3	Red		23	White	Black/Red
4	Green		24	Red	Black/White
5	Orange		25	Green	Black/White
6	Blue		26	Orange	Black/White
7	White	Black	27	Blue	Black/White
8	Red	Black	28	Black	Red/Green
9	Green	Black	29	White	Red/Green
10	Orange	Black	30	Red	Black/Green
11	Blue	Black	31	Green	Black/Orange
12	Black	White	32	Orange	Black/Green
13	Red	White	33	Blue	White/Orange
14	Green	White	34	Black	White/Orange
15	Blue	White	35	White	Red/Orange
16	Black	Red	36	Orange	White/Blue
17	White	Red	37	White	Red/Blue
18	Orange	Red	38	Black	White/Green
19	Blue	Red	39	White	Black/Green
20	Red	Green	40	Red	White/Green

