



## 600V ROYAL® SOOW Cord 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.

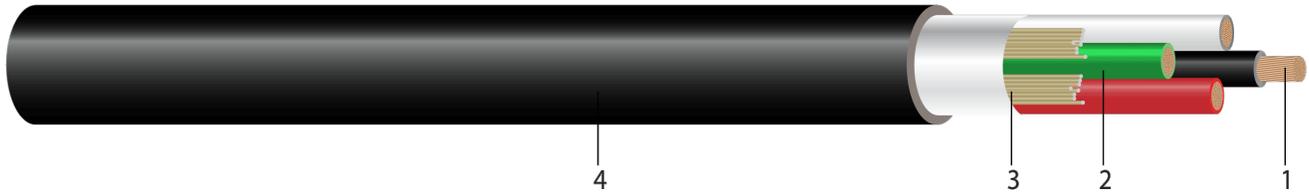


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Class K stranded bare copper per ASTM B3 and B174
2. **Insulation:** Heat, moisture, and oil resistant EPDM
3. **Filler:** Waxed paper or rubber fillers, with a full cotton serve or paper separator wrapped around the assembly
4. **Jacket:** Heat, moisture, and oil resistant flexible black Chlorinated Polyethylene (CPE)

### 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 2023 National Electrical Code. The cable is rated -40°C to 90°C, sunlight, 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:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B174 Standard Specification for Bunch-Stranded Copper
- UL 62 Flexible Cords and Cables
- CSA C22.2 No. 49 Flexible Cords and Cables
- MSHA Approved
- MSHA flame test - P-07-KA190005-MSHA
- Passes CSA FT2 Flame Test
- RoHS-3 Complies with European Directive 2015/863
- NEC Article 400 Flexible Cords, Cables and Fixture Wire
- Federal Specification J-C-580B

### SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE® ROYAL® CORD 3/C XX AWG (X.XXX{mm<sup>2</sup>}) SOOW E46194 {UL} 600V -40°C TO 90°C -- {CSA} LL90458 SOOW 600V -40°C TO 90°C FT1, FT2 WATER RESISTANT {NOM}-ANCE -- {MSHA}

### PACKAGING:

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





**Table 1 – Weights and Measurements**

Stock Number	CCI Part #	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity	Insul. Color	Jacket Color
		AWG/ Kcmil	No.	No.	mil	mil	inch	lb/1000ft	Amp		
558140 <sup>◇</sup>	822225	18	2	16	30	70	0.348	67	10	BK,WE	BK
558142 <sup>◇</sup>	822325	18	3	16	30	70	0.370	80	7	BK,WE,GN	BK
558143 <sup>◇</sup>	822425	18	4	16	30	70	0.390	95	5	BK,WE,RD,GN	BK
558235 <sup>◇</sup>	830505	18	5	16	30	95	0.465	134	5	BK,WE,RD,GN,OE	BK
560018 <sup>◇</sup>	822226	16	2	26	30	70	0.370	76	13	BK,WE	BK
558100 <sup>◇</sup>	822326	16	3	26	30	70	0.395	94	10	BK,WE,GN	BK
558101 <sup>◇</sup>	822426	16	4	26	30	65	0.420	111	8	BK,WE,RD,GN	BK
558231 <sup>◇</sup>	830506	16	5	26	30	95	0.514	162	8	BK,WE,RD,GN,OE	BK
558138 <sup>◇</sup>	822227	14	2	41	45	85	0.501	132	18	BK,WE	BK
558099 <sup>◇</sup>	822327	14	3	41	45	90	0.530	165	15	BK,WE,GN	BK
558102 <sup>◇</sup>	822427	14	4	41	45	90	0.570	201	12	BK,WE,RD,GN	BK
558147 <sup>◇</sup>	830507	14	5	41	45	105	0.655	254	12	BK,WE,RD,GN,OE	BK
558139 <sup>◇</sup>	822228	12	2	65	45	105	0.580	182	25	BK,WE	BK
585842 <sup>◇</sup>	-	12	3	65	45	115	0.605	221	20	GN,WE,BK	BK
558094 <sup>◇</sup>	822328	12	3	65	45	115	0.608	230	20	BK,WE,GN	BK
558095 <sup>◇</sup>	822428	12	4	65	45	105	0.644	266	16	BK,WE,RD,GN	BK
558104 <sup>◇</sup>	830508	12	5	65	45	100	0.709	295	16	BK,WE,RD,GN,OE	BK
558141 <sup>◇</sup>	822229	10	2	104	45	105	0.630	222	30	BK,WE	BK
558097 <sup>◇</sup>	822329	10	3	104	45	120	0.665	295	25	BK,WE,GN	BK
558096 <sup>◇</sup>	822429	10	4	104	45	105	0.715	347	20	BK,WE,RD,GN	BK
558103 <sup>◇</sup>	830509	10	5	104	45	120	0.772	444	20	BK,WE,RD,GN,OE	BK
560039 <sup>◇</sup>	822316	8	3	133	60	125	0.848	426	35	BK,WE,GN	BK
631387 <sup>◇</sup>	-	8	3	133	60	125	0.849	444	35	BK,RD,GN	BK
630726 <sup>◇</sup>	822591	8	4	133	60	155	0.954	596	28	BK,WE,RD,GN	BK
596961 <sup>◇</sup>	822540	8	5	133	60	160	1.039	719	28	BK,WE,RD,GN,OE	BK
560041 <sup>◇</sup>	822391	6	3	133	60	195	0.990	675	45	BK,WE,GN	BK
560042 <sup>◇</sup>	822589	6	4	133	60	205	1.075	830	36	BK,WE,RD,GN	BK
562068 <sup>◇</sup>	822392	6	5	133	60	215	1.192	1036	36	BK,WE,RD,GN,OE	BK
570054 <sup>◇</sup>	822601	4	3	427	60	175	1.137	889	60	BK,WE,GN	BK
560925 <sup>◇</sup>	822471	4	4	427	60	165	1.257	1152	48	BK,WE,RD,GN	BK
562067 <sup>◇</sup>	822542	4	5	427	60	185	1.395	1446	48	BK,WE,RD,GN,OE	BK
560928 <sup>◇</sup>	822491	2	4	168	60	205	1.480	1706	64	BK,WE,RD,GN	BK





Stock Number	CCI Part #	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity	Insul. Color	Jacket Color
		AWG/ Kcmil	No.	No.	mil	mil	inch	lb/1000ft	Amp		
562065 <sup>◇</sup>	822492	2	5	168	60	255	1.716	2064	64	BK,WE,RD,GN,OE	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.





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

Stock Number	CCI Part #	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity *	Insul. Color	Jacket Color
		AWG/ Kcmil	No.	No.	mm	mm	mm	kg/km	Amp		
558140 <sup>◇</sup>	822225	18	2	16	0.76	1.78	8.84	100	10	BK,WE	BK
558142 <sup>◇</sup>	822325	18	3	16	0.76	1.78	9.40	119	7	BK,WE,GN	BK
558143 <sup>◇</sup>	822425	18	4	16	0.76	1.78	9.91	141	5	BK,WE,RD,GN	BK
558235 <sup>◇</sup>	830505	18	5	16	0.76	2.41	11.81	199	5	BK,WE,RD,GN,OE	BK
560018 <sup>◇</sup>	822226	16	2	26	0.76	1.78	9.40	113	13	BK,WE	BK
558100 <sup>◇</sup>	822326	16	3	26	0.76	1.78	10.03	140	10	BK,WE,GN	BK
558101 <sup>◇</sup>	822426	16	4	26	0.76	1.65	10.67	165	8	BK,WE,RD,GN	BK
558231 <sup>◇</sup>	830506	16	5	26	0.76	2.41	13.06	241	8	BK,WE,RD,GN,OE	BK
558138 <sup>◇</sup>	822227	14	2	41	1.14	2.16	12.73	196	18	BK,WE	BK
558099 <sup>◇</sup>	822327	14	3	41	1.14	2.29	13.46	246	15	BK,WE,GN	BK
558102 <sup>◇</sup>	822427	14	4	41	1.14	2.29	14.48	299	12	BK,WE,RD,GN	BK
558147 <sup>◇</sup>	830507	14	5	41	1.14	2.67	16.64	378	12	BK,WE,RD,GN,OE	BK
558139 <sup>◇</sup>	822228	12	2	65	1.14	2.67	14.73	271	25	BK,WE	BK
585842 <sup>◇</sup>	-	12	3	65	1.14	2.92	15.37	329	20	GN,WE,BK	BK
558094 <sup>◇</sup>	822328	12	3	65	1.14	2.92	15.44	342	20	BK,WE,GN	BK
558095 <sup>◇</sup>	822428	12	4	65	1.14	2.67	16.36	396	16	BK,WE,RD,GN	BK
558104 <sup>◇</sup>	830508	12	5	65	1.14	2.54	18.01	439	16	BK,WE,RD,GN,OE	BK
558141 <sup>◇</sup>	822229	10	2	104	1.14	2.67	16.00	330	30	BK,WE	BK
558097 <sup>◇</sup>	822329	10	3	104	1.14	3.05	16.89	439	25	BK,WE,GN	BK
558096 <sup>◇</sup>	822429	10	4	104	1.14	2.67	18.16	516	20	BK,WE,RD,GN	BK
558103 <sup>◇</sup>	830509	10	5	104	1.14	3.05	19.61	661	20	BK,WE,RD,GN,OE	BK
560039 <sup>◇</sup>	822316	8	3	133	1.52	3.18	21.54	634	35	BK,WE,GN	BK
631387 <sup>◇</sup>	-	8	3	133	1.52	3.18	21.56	661	35	BK,RD,GN	BK
630726 <sup>◇</sup>	822591	8	4	133	1.52	3.94	24.23	887	28	BK,WE,RD,GN	BK
596961 <sup>◇</sup>	822540	8	5	133	1.52	4.06	26.39	1070	28	BK,WE,RD,GN,OE	BK
560041 <sup>◇</sup>	822391	6	3	133	1.52	4.95	25.15	1005	45	BK,WE,GN	BK
560042 <sup>◇</sup>	822589	6	4	133	1.52	5.21	27.30	1235	36	BK,WE,RD,GN	BK
562068 <sup>◇</sup>	822392	6	5	133	1.52	5.46	30.28	1542	36	BK,WE,RD,GN,OE	BK
570054 <sup>◇</sup>	822601	4	3	427	1.52	4.44	28.88	1323	60	BK,WE,GN	BK
560925 <sup>◇</sup>	822471	4	4	427	1.52	4.19	31.93	1714	48	BK,WE,RD,GN	BK
562067 <sup>◇</sup>	822542	4	5	427	1.52	4.70	35.43	2152	48	BK,WE,RD,GN,OE	BK
560928 <sup>◇</sup>	822491	2	4	168	1.52	5.21	37.59	2539	64	BK,WE,RD,GN	BK





Stock Number	CCI Part #	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity *	Insul. Color	Jacket Color
		AWG/Kcmil	No.	No.	mm	mm	mm	kg/km	Amp		
562065 <sup>◇</sup>	822492	2	5	168	1.52	6.48	43.59	3072	64	BK,WE,RD,GN,OE	BK

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

