



## 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.

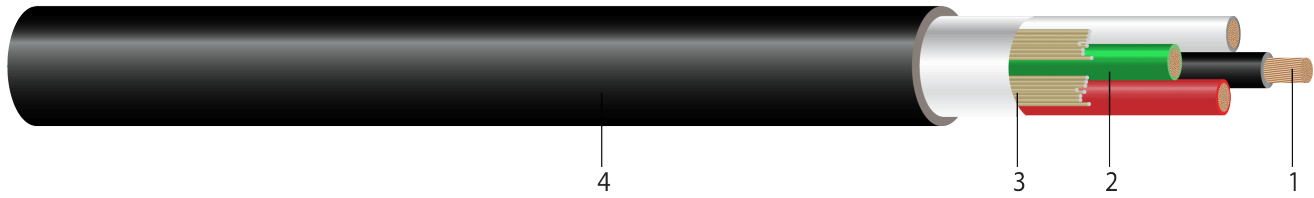


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Class K stranded bare copper per ASTM B-174
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 CPE jacket

### 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 Approved
- 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
- Federal Specification J-C-580B

### SAMPLE PRINT LEGEND:

SOUTHWIRE® ROYAL® CORD X/C X AWG (XX.X{mm<sup>2</sup>}) 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.





**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>0</sup>	822225	18	2	16	30	70	0.348	67	10	BK/WE	Black
558142 <sup>0</sup>	822325	18	3	16	30	70	0.370	80	7	BK/WE/GN	Black
558143 <sup>0</sup>	822425	18	4	16	30	70	0.390	95	5	BK/RD/ WE/G	Black
558235 <sup>0</sup>	830505	18	5	16	30	95	0.465	134	5	BK/RD/ WE/O	Black
560018 <sup>0</sup>	822226	16	2	26	30	70	0.370	76	13	BK/WE	Black
558100 <sup>0</sup>	822326	16	3	26	30	70	0.395	94	10	BK/WE/GN	Black
558101 <sup>0</sup>	822426	16	4	26	30	65	0.420	111	8	BK/RD/ WE/G	Black
558231 <sup>0</sup>	830506	16	5	26	30	95	0.514	162	8	BK/RD/ WE/O	Black
558138 <sup>0</sup>	822227	14	2	41	45	85	0.501	132	18	BK/WE	Black
558099 <sup>0</sup>	822327	14	3	41	45	90	0.530	165	15	BK/WE/GN	Black
558102 <sup>0</sup>	822427	14	4	41	45	90	0.570	201	12	BK/RD/ WE/G	Black
558147 <sup>0</sup>	830507	14	5	41	45	105	0.655	254	12	BK/RD/ WE/O	Black
558139 <sup>0</sup>	822228	12	2	65	45	105	0.580	182	25	BK/WE	Black
585842 <sup>0</sup>	-	12	3	65	45	115	0.605	221	20	BK/WE/GN	Black
558094 <sup>0</sup>	822328	12	3	65	45	115	0.606	224	20	BK//WE/ GN	Black
558095 <sup>0</sup>	822428	12	4	65	45	105	0.644	266	16	BK/RD/ WE/G	Black
558104 <sup>0</sup>	830508	12	5	65	45	100	0.709	295	16	BK/RD/ WE/O	Black
558141 <sup>0</sup>	822229	10	2	104	45	105	0.630	222	30	BK/WE	Black
558097 <sup>0</sup>	822329	10	3	104	45	120	0.665	295	25	BK/WE/GN	Black
558096 <sup>0</sup>	822429	10	4	104	45	105	0.715	347	20	BK/RD/ WE/G	Black
558103 <sup>0</sup>	830509	10	5	104	45	120	0.772	444	20	BK/RD/ WE/O	Black
560039 <sup>0</sup>	822316	8	3	133	60	125	0.848	426	35	BK/WE/GN	Black
631387 <sup>0</sup>	-	8	3	133	60	125	0.849	444	35	BK/RD/GN	Black
630726 <sup>0</sup>	822591	8	4	133	60	155	0.954	596	28	BK/RD/ WE/G	Black
596961 <sup>0</sup>	822540	8	5	133	60	165	1.036	717	28	BK/RD/ WE/O	Black
560041 <sup>0</sup>	822391	6	3	133	60	195	0.990	675	45	BK//WE/ GN	Black
560042 <sup>0</sup>	822589	6	4	133	60	205	1.075	830	36	BK/RD/ WE/G	Black
562068 <sup>0</sup>	822392	6	5	133	60	215	1.192	1036	36	BK/RD/ WE/O	Black





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		
570054 <sup>◇</sup>	822601	4	3	427	60	175	1.137	889	60	BK/WE/GN	Black
560925 <sup>◇</sup>	822471	4	4	427	60	165	1.257	1152	48	BK/RD/ WE/G	Black
562067 <sup>◇</sup>	822542	4	5	427	60	185	1.395	1446	48	BK/RD/ WE/O	Black
560928 <sup>◇</sup>	822491	2	4	168	60	205	1.480	1706	64	BK/RD/ WE/G	Black
562065 <sup>◇</sup>	822492	2	5	168	60	255	1.716	2064	64	BK/RD/ WE/O	Black

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.

! Orange jacket

^ Color sequence: black, red, green





**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>0</sup>	822225	18	2	16	0.76	1.78	8.84	100	10	BK/WE	Black
558142 <sup>0</sup>	822325	18	3	16	0.76	1.78	9.40	119	7	BK/WE/ GN	Black
558143 <sup>0</sup>	822425	18	4	16	0.76	1.78	9.91	141	5	BK/RD/ WE/G	Black
558235 <sup>0</sup>	830505	18	5	16	0.76	2.41	11.81	199	5	BK/RD/ WE/O	Black
560018 <sup>0</sup>	822226	16	2	26	0.76	1.78	9.40	113	13	BK/WE	Black
558100 <sup>0</sup>	822326	16	3	26	0.76	1.78	10.03	140	10	BK/WE/ GN	Black
558101 <sup>0</sup>	822426	16	4	26	0.76	1.65	10.67	165	8	BK/RD/ WE/G	Black
558231 <sup>0</sup>	830506	16	5	26	0.76	2.41	13.06	241	8	BK/RD/ WE/O	Black
558138 <sup>0</sup>	822227	14	2	41	1.14	2.16	12.73	196	18	BK/WE	Black
558099 <sup>0</sup>	822327	14	3	41	1.14	2.29	13.46	246	15	BK/WE/ GN	Black
558102 <sup>0</sup>	822427	14	4	41	1.14	2.29	14.48	299	12	BK/RD/ WE/G	Black
558147 <sup>0</sup>	830507	14	5	41	1.14	2.67	16.64	378	12	BK/RD/ WE/O	Black
558139 <sup>0</sup>	822228	12	2	65	1.14	2.67	14.73	271	25	BK/WE	Black
585842 <sup>0</sup>	-	12	3	65	1.14	2.92	15.37	329	20	BK/WE/ GN	Black
558094 <sup>0</sup>	822328	12	3	65	1.14	2.92	15.39	333	20	BK//WE/ GN	Black
558095 <sup>0</sup>	822428	12	4	65	1.14	2.67	16.36	396	16	BK/RD/ WE/G	Black
558104 <sup>0</sup>	830508	12	5	65	1.14	2.54	18.01	439	16	BK/RD/ WE/O	Black
558141 <sup>0</sup>	822229	10	2	104	1.14	2.67	16.00	330	30	BK/WE	Black
558097 <sup>0</sup>	822329	10	3	104	1.14	3.05	16.89	439	25	BK/WE/ GN	Black
558096 <sup>0</sup>	822429	10	4	104	1.14	2.67	18.16	516	20	BK/RD/ WE/G	Black
558103 <sup>0</sup>	830509	10	5	104	1.14	3.05	19.61	661	20	BK/RD/ WE/O	Black
560039 <sup>0</sup>	822316	8	3	133	1.52	3.18	21.54	634	35	BK/WE/ GN	Black
631387 <sup>0</sup>	-	8	3	133	1.52	3.18	21.56	661	35	BK/RD/GN	Black
630726 <sup>0</sup>	822591	8	4	133	1.52	3.94	24.23	887	28	BK/RD/ WE/G	Black
596961 <sup>0</sup>	822540	8	5	133	1.52	4.19	26.31	1067	28	BK/RD/ WE/O	Black
560041 <sup>0</sup>	822391	6	3	133	1.52	4.95	25.15	1005	45	BK//WE/ GN	Black





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		
560042 <sup>0</sup>	822589	6	4	133	1.52	5.21	27.30	1235	36	BK/RD/ WE/G	Black
562068 <sup>0</sup>	822392	6	5	133	1.52	5.46	30.28	1542	36	BK/RD/ WE/O	Black
570054 <sup>0</sup>	822601	4	3	427	1.52	4.44	28.88	1323	60	BK/WE/ GN	Black
560925 <sup>0</sup>	822471	4	4	427	1.52	4.19	31.93	1714	48	BK/RD/ WE/G	Black
562067 <sup>0</sup>	822542	4	5	427	1.52	4.70	35.43	2152	48	BK/RD/ WE/O	Black
560928 <sup>0</sup>	822491	2	4	168	1.52	5.21	37.59	2539	64	BK/RD/ WE/G	Black
562065 <sup>0</sup>	822492	2	5	168	1.52	6.48	43.59	3072	64	BK/RD/ WE/O	Black

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

