

## 600V ROYAL® SOOW Cord 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.

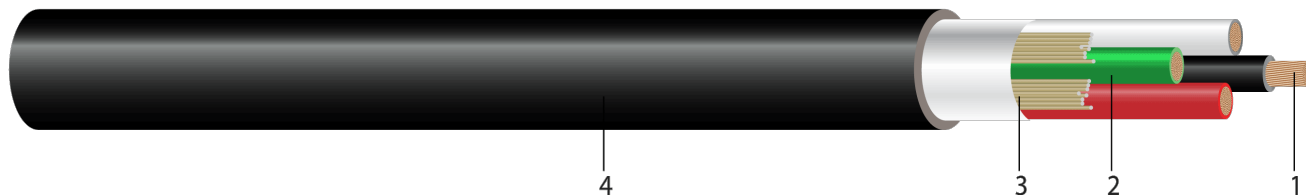


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

- Conductor:** Class K stranded bare copper per ASTM B-174
- Insulation:** Heat, moisture and oil resistant EPDM
- Filler:** Waxed paper or rubber fillers, with a full cotton serve or paper separator wrapped around the assembly
- 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-2 (European Directive 2011/65/EU)
- NEC Article 400 Flexible Cords, Cables and Fixture Wire
- Federal Specification J-C-580B

### SAMPLE PRINT LEGEND:

SOUTHWIRE{R} ROYAL{R} CORD X/C X AWG (XX.X{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.



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | [www.southwire.com](http://www.southwire.com)



Southwire

**CABLETECH  
SUPPORT™**

Services

**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
558140	822225	18	2	16/30	30	0.35	67	10	6.59
558142	822325	18	3	16/30	30	0.37	84	10	6.59
558143	822425	18	4	16/30	30	0.39	98	7	6.59
558235	830505	18	5	16/30	30	0.47	138	5	6.59
560018	822226	16	2	26/30	30	0.37	81	13	4.05
558100	822326	16	3	26/30	30	0.39	94	13	4.05
558101	822426	16	4	26/30	30	0.42	118	10	4.05
558231	830506	16	5	26/30	30	0.5	155	8	4.05
558138	822227	14	2	41/30	50	0.5	134	18	2.55
558099	822327	14	3	41/30	50	0.53	169	18	2.55
558102	822427	14	4	41/30	50	0.57	201	15	2.55
558147	830507	14	5	41/30	50	0.67	275	12	2.55
558139	822228	12	2	65/30	50	0.57	184	25	1.61
558094	822328	12	3	65/30	50	0.6	224	25	1.61
585842!	TBA	12	3	65/30	46	0.605	222	25	1.61
558095	822428	12	4	65/30	50	0.65	276	20	1.61
558104	830508	12	5	65/30	50	0.71	326	16	1.61
558141	822229	10	2	104/30	50	0.62	225	30	0.98
558097	822329	10	3	104/30	50	0.66	299	30	0.98
558096	822429	10	4	104/30	50	0.71	360	25	0.98
558103	830509	10	5	104/30	50	0.77	418	20	0.98
631387^	NA	8	3	133/29	60	0.849	445	40	0.63
560039	822316	8	3	133/29	60	0.85	485	40	0.63
630726	822591	8	4	133/29	60	0.95	619	35	0.63
596961	822540	8	5	133/29	60	1.03	722	28	0.63
560041	822391	6	3	133/27	60	0.98	700	55	0.4
560042	822589	6	4	133/27	70	1.13	837	45	0.4
562068	822392	6	5	133/27	60	1.19	979	36	0.4
570054	822601	4	3	133/25	60	1.14	902	70	0.25
560925	822471	4	4	133/25	60	1.26	1144	60	0.25
562067	822542	4	5	133/25	60	1.35	1320	48	0.25
TBA	TBD	2	3	133/0.0223	60	1.31	1277	95	0.16
560928	822491	2	4	168/24	60	1.47	1639	80	0.016
562065	822492	2	5	133/0.0223	60	1.59	1925	64	0.16

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.

! 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	Approx. OD	Approx. Weight	Ampacity *	DC Resistance
		AWG/Kcmil	Count	# x AWG	mm	mm	kg/km	Amp	Ω/km
558140	822225	18	2	16/30	0.76	8.89	100	10	21.62
558142	822325	18	3	16/30	0.76	9.40	125	10	21.62
558143	822425	18	4	16/30	0.76	9.91	146	7	21.62
558235	830505	18	5	16/30	0.76	11.94	205	5	21.62
560018	822226	16	2	26/30	0.76	9.40	121	13	13.29
558100	822326	16	3	26/30	0.76	9.91	140	13	13.29
558101	822426	16	4	26/30	0.76	10.67	176	10	13.29
558231	830506	16	5	26/30	0.76	12.70	231	8	13.29
558138	822227	14	2	41/30	1.27	12.70	199	18	8.37
558099	822327	14	3	41/30	1.27	13.46	251	18	8.37
558102	822427	14	4	41/30	1.27	14.48	299	15	8.37
558147	830507	14	5	41/30	1.27	17.02	409	12	8.37
558139	822228	12	2	65/30	1.27	14.48	274	25	5.28
558094	822328	12	3	65/30	1.27	15.24	333	25	5.28
585842!	TBA	12	3	65/30	1.17	15.37	330	25	5.28
558095	822428	12	4	65/30	1.27	16.51	411	20	5.28
558104	830508	12	5	65/30	1.27	18.03	485	16	5.28
558141	822229	10	2	104/30	1.27	15.75	335	30	3.22
558097	822329	10	3	104/30	1.27	16.76	445	30	3.22
558096	822429	10	4	104/30	1.27	18.03	536	25	3.22
558103	830509	10	5	104/30	1.27	19.56	622	20	3.22
631387^	NA	8	3	133/29	1.52	21.56	662	40	2.07
560039	822316	8	3	133/29	1.52	21.59	722	40	2.07
630726	822591	8	4	133/29	1.52	24.13	921	35	2.07
596961	822540	8	5	133/29	1.52	26.16	1074	28	2.07
560041	822391	6	3	133/27	1.52	24.89	1042	55	1.31
560042	822589	6	4	133/27	1.78	28.70	1246	45	1.31
562068	822392	6	5	133/27	1.52	30.23	1457	36	1.31
570054	822601	4	3	133/25	1.52	28.96	1342	70	0.82
560925	822471	4	4	133/25	1.52	32.00	1702	60	0.82
562067	822542	4	5	133/25	1.52	34.29	1964	48	0.82
TBA	TBD	2	3	133/0.0223	1.52	33.27	1900	95	0.52
560928	822491	2	4	168/24	1.52	37.34	2439	80	0.05
562065	822492	2	5	133/0.0223	1.52	40.39	2865	64	0.52

**Color Code**

# of Conductor	Color Sequence
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Green, Orange

