




# PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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## Royal® 600V SOOW

### Construction Parameters:

**CONDUCTOR:** 18 AWG - 10 AWG Class K stranded bare copper per ASTM B-174  
**INSULATION:** EPDM  
**COLOR CODE:** ICEA Method 1, Table E-1  
**JACKET:** CPE  
**COLOR:** Black (Other colors available upon request)  
**PRINT LEGEND:** CCI ROYAL  X/C XX AWG (X.XX mm<sup>2</sup>) SOOW E54864 (UL) 600V -40C TO 90C -- CSA LL39753 SOOW 600V -40C TO 90C FT2 WATER RESISTANT

**INDENT LEGEND:** P-07-KA070018-1-MSHA

### PHYSICAL PROPERTIES:

**TEMPERATURE RANGE** -40°C to 90°C  
**WATER RESISTANT:** Yes

### ELECTRICAL PROPERTIES:

**VOLTAGE RATING:** 600V rms, Max

### Industry Approvals:

- o UL Standard 62
- o CSA Standard C22.2 No. 49
- o NEC Article 501.140 Class I Div. 2
- o NEC Article 400
- o Federal Spec JC580
- o Passes CSA FT2 Flame Test
- o MSHA
- o EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method

Part Number	AWG	No. Cond.	Stranding	Insulation Wall, Nom.		O.D., Nom.		Net Weight		Amps*	Nom. DCR Ω/1M'
				Inches	mm	Inches	mm	Lb./kft.	kg/km		
830505	18	5	16/30	0.030	0.76	0.465	11.81	116	173	5.5	6.59
830605	18	6	16/30	0.030	0.76	0.488	12.40	132	196	5.5	6.59
830705	18	7	16/30	0.030	0.76	0.488	12.40	159	237	4.5	6.59
830805	18	8	16/30	0.030	0.76	0.521	13.23	175	260	4.5	6.59
831005	18	10	16/30	0.030	0.76	0.596	15.14	206	307	3.5	6.59
831205	18	12	16/30	0.030	0.76	0.612	15.54	231	344	3.5	6.59
831405	18	14	16/30	0.030	0.76	0.640	16.26	241	359	3.5	6.59
831605	18	16	16/30	0.030	0.76	0.668	16.97	284	423	3.5	6.59
832005	18	20	16/30	0.030	0.76	0.767	19.48	347	516	3.5	6.59
832405	18	24	16/30	0.030	0.76	0.830	21.08	383	570	3	6.59
833005	18	30	16/30	0.030	0.76	0.869	22.07	453	674	3	6.59
833705	18	37	16/30	0.030	0.76	0.980	24.89	570	848	2.5	6.59
830506	16	5	26/30	0.030	0.76	0.495	12.57	143	213	8	4.05
830606	16	6	26/30	0.030	0.76	0.494	12.55	171	254	8	4.05
830706	16	7	26/30	0.030	0.76	0.527	13.39	180	268	7	4.05
830806	16	8	26/30	0.030	0.76	0.564	14.33	201	299	7	4.05
831006	16	10	26/30	0.030	0.76	0.648	16.46	251	374	5	4.05
831206	16	12	26/30	0.030	0.76	0.696	17.68	299	445	5	4.05
831406	16	14	26/30	0.030	0.76	0.727	18.47	342	509	5	4.05
831606	16	16	26/30	0.030	0.76	0.763	19.38	367	546	5	4.05
832006	16	20	26/30	0.030	0.76	0.775	19.69	414	616	5	4.05
832406	16	24	26/30	0.030	0.76	0.920	23.37	490	729	4.5	4.05
833006	16	30	26/30	0.030	0.76	1.000	25.40	613	912	4.5	4.05
833706	16	37	26/30	0.030	0.76	1.050	26.67	719	1070	4	4.05
834006	16	40	26/30	0.030	0.76	1.088	27.64	787	1171	4	4.05

Specification Issue Date: February 12, 2014

Part Number	AWG	No. Cond.	Stranding	Insulation Wall, Nom.		O.D., Nom.		Net Weight		Amps*	Nom. DCR Ω/1M'
				Inches	mm	Inches	mm	Lb./kft.	kg/km		
830507	14	5	41/30	0.045	1.14	0.668	16.97	272	405	12	2.55
830607	14	6	41/30	0.045	1.14	0.664	16.87	262	390	12	2.55
830707	14	7	41/30	0.045	1.14	0.670	17.02	278	414	10	2.55
830807	14	8	41/30	0.045	1.14	0.743	18.87	341	507	10	2.55
831007	14	10	41/30	0.045	1.14	0.858	21.79	410	610	7	2.55
831207	14	12	41/30	0.045	1.14	0.883	22.43	482	717	7	2.55
831407	14	14	41/30	0.045	1.14	0.908	23.06	489	728	7	2.55
831607	14	16	41/30	0.045	1.14	1.000	25.40	628	935	7	2.55
832007	14	20	41/30	0.045	1.14	1.110	28.19	782	1164	7	2.55
832407	14	24	41/30	0.045	1.14	1.200	30.48	810	1205	6	2.55
833007	14	30	41/30	0.045	1.14	1.290	32.77	997	1484	6	2.55
833707	14	37	41/30	0.045	1.14	1.300	33.02	1203	1790	6	2.55
830508	12	5	65/30	0.045	1.14	0.713	18.11	338	503	16	1.61
830608	12	6	65/30	0.045	1.14	0.740	18.80	351	522	16	1.61
830708	12	7	65/30	0.045	1.14	0.746	18.95	372	554	14	1.61
830808	12	8	65/30	0.045	1.14	0.803	20.40	418	622	14	1.61
831008	12	10	65/30	0.045	1.14	0.930	23.62	505	752	10	1.61
831208	12	12	65/30	0.045	1.14	0.987	25.07	690	1027	10	1.61
831408	12	14	65/30	0.045	1.14	1.040	26.42	728	1083	10	1.61
831608	12	16	65/30	0.045	1.14	1.090	27.69	762	1134	10	1.61
832008	12	20	65/30	0.045	1.14	1.200	30.48	922	1372	10	1.61
832408	12	24	65/30	0.045	1.14	1.350	34.29	1133	1686	9	1.61
833008	12	30	65/30	0.045	1.14	1.420	36.07	1326	1973	9	1.61
833708	12	37	65/30	0.045	1.14	1.506	38.25	1562	2325	8	1.61
830509	10	5	104/30	0.045	1.14	0.770	19.56	440	655	20	0.98
830609	10	6	104/30	0.045	1.14	0.806	20.47	466	693	20	0.98
830709	10	7	104/30	0.045	1.14	0.835	21.21	520	774	17	0.98
830809	10	8	104/30	0.045	1.14	0.866	22.00	536	798	17	0.98
831009	10	10	104/30	0.045	1.14	1.040	26.42	683	1016	12	0.98
831209	10	12	104/30	0.045	1.14	1.070	27.18	801	1192	12	0.98
831409	10	14	104/30	0.045	1.14	1.120	28.45	918	1366	12	0.98
831609	10	16	104/30	0.045	1.14	1.180	29.97	1035	1540	12	0.98
832009	10	20	104/30	0.045	1.14	1.328	33.73	1258	1872	12	0.98
832409	10	24	104/30	0.045	1.14	1.480	37.59	1514	2253	11	0.98
833009	10	30	104/30	0.045	1.14	1.560	39.62	1822	2711	11	0.98
833709	10	37	104/30	0.045	1.14	1.680	42.67	2181	3246	10	0.98

Note: All dimensions & weights are nominal subject to industry standards and tolerances unless otherwise noted.

\* Ampacity based on NEC Table 400.5(A) and CEC Table 12.

This product complies with European Directive 2002/95/EC (RoHS)  
The customer will accept all factory lengths and +/- 10 percent of total order requested.

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