



# PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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## Royal<sup>®</sup> 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:** Sunlight Resistant CPE  
**COLOR:** Black (Other colors available upon request)  
**PRINT LEGEND:** SOUTHWIRE<sup>®</sup> ROYAL<sup>®</sup> CORD X/C XX AWG (X.XX mm<sup>2</sup>) SOOW E46194 (UL) 600V -40C TO 90C -- CSA LL90458 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	CCI Part Number	No. AWG	No. Cond.	Stranding	Insulation Wall, Nom.		O.D., Nom.		Net Weight		Nom. DCR Ω/1M'	
					Inches	mm	Inches	mm	Lb./kft.	kg/km		Amps*
558235	830505	18	5	16/30	0.030	0.76	0.465	11.81	116	173	5.5	6.59
558236	830605	18	6	16/30	0.030	0.76	0.488	12.40	132	196	5.5	6.59
558237	830705	18	7	16/30	0.030	0.76	0.488	12.40	159	237	4.5	6.59
558238	830805	18	8	16/30	0.030	0.76	0.521	13.23	175	260	4.5	6.59
570034	831005	18	10	16/30	0.030	0.76	0.596	15.14	206	307	3.5	6.59
570037	831205	18	12	16/30	0.030	0.76	0.612	15.54	231	344	3.5	6.59
598302	831405	18	14	16/30	0.030	0.76	0.640	16.26	241	359	3.5	6.59
570039	831605	18	16	16/30	0.030	0.76	0.668	16.97	284	423	3.5	6.59
570042	832005	18	20	16/30	0.030	0.76	0.739	18.77	347	516	3.5	6.59
570043	832405	18	24	16/30	0.030	0.76	0.830	21.08	383	570	3	6.59
571692	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
558231	830506	16	5	26/30	0.030	0.76	0.495	12.57	143	213	8	4.05
558232	830606	16	6	26/30	0.030	0.76	0.494	12.55	171	254	8	4.05
558233	830706	16	7	26/30	0.030	0.76	0.495	12.57	180	268	7	4.05
558234	830806	16	8	26/30	0.030	0.76	0.514	13.06	201	299	7	4.05
570033	830906	16	9	26/30	0.030	0.76	0.602	15.29	232	345	7	4.05
560526	831006	16	10	26/30	0.030	0.76	0.648	16.46	251	374	5	4.05
560527	831206	16	12	26/30	0.030	0.76	0.696	17.68	299	445	5	4.05
598305	831406	16	14	26/30	0.030	0.76	0.727	18.47	342	509	5	4.05
560528	831606	16	16	26/30	0.030	0.76	0.763	19.38	367	546	5	4.05
570018	832006	16	20	26/30	0.030	0.76	0.775	19.69	414	616	5	4.05
570019	832406	16	24	26/30	0.030	0.76	0.920	23.37	490	729	4.5	4.05
596791	833006	16	30	26/30	0.030	0.76	0.976	24.79	613	912	4.5	4.05
598314	833706	16	37	26/30	0.030	0.76	1.050	26.67	719	1070	4	4.05

Specification Issue Date: May 9, 2017

Part Number	CCI Part Number	No. Cond.	Stranding	Insulation Wall, Nom.		O.D., Nom.		Net Weight		Amps*	Norm. DCR Ω/1M'	
				Inches	mm	Inches	mm	Lb./kft.	kg/km			
558147	830507	14	5	41/30	0.045	1.14	0.668	16.97	272	405	12	2.55
558149	830607	14	6	41/30	0.045	1.14	0.664	16.87	262	390	12	2.55
558150	830707	14	7	41/30	0.045	1.14	0.662	16.81	278	414	10	2.55
558230	830807	14	8	41/30	0.045	1.14	0.743	18.87	341	507	10	2.55
569994	831007	14	10	41/30	0.045	1.14	0.770	19.56	410	610	7	2.55
571270	831207	14	12	41/30	0.045	1.14	0.883	22.43	482	717	7	2.55
569995	831407	14	14	41/30	0.045	1.14	0.976	24.79	489	728	7	2.55
569997	831607	14	16	41/30	0.045	1.14	1.000	25.40	628	935	7	2.55
569998	832007	14	20	41/30	0.045	1.14	1.110	28.19	782	1164	7	2.55
569999	832407	14	24	41/30	0.045	1.14	1.270	32.26	810	1205	6	2.55
570004	833007	14	30	41/30	0.045	1.14	1.338	33.99	997	1484	6	2.55
598306	833707	14	37	41/30	0.045	1.14	1.300	33.02	1203	1790	6	2.55
	834007	14	40	41/30	0.045	1.14	1.467	37.26	1675	2493	6	2.55
558104	830508	12	5	65/30	0.045	1.14	0.713	18.11	338	503	16	1.61
558144	830608	12	6	65/30	0.045	1.14	0.740	18.80	351	522	16	1.61
558145	830708	12	7	65/30	0.045	1.14	0.746	18.95	372	554	14	1.61
558146	830808	12	8	65/30	0.045	1.14	0.803	20.40	418	622	14	1.61
571397	830908	12	9	65/30	0.045	1.14	0.853	21.67	541	805	14	1.61
569981	831008	12	10	65/30	0.045	1.14	0.930	23.62	585	871	10	1.61
569982	831208	12	12	65/30	0.045	1.14	0.987	25.07	690	1027	10	1.61
598307	831408	12	14	65/30	0.045	1.14	1.040	26.42	728	1083	10	1.61
598308	831608	12	16	65/30	0.045	1.14	1.090	27.69	762	1134	10	1.61
569983	832008	12	20	65/30	0.045	1.14	1.200	30.48	922	1372	10	1.61
531718	832408	12	24	65/30	0.045	1.14	1.315	33.40	1133	1686	9	1.61
	833008	12	30	65/30	0.045	1.14	1.420	36.07	1326	1973	9	1.61
569987	833708	12	37	65/30	0.045	1.14	1.506	38.25	1562	2325	8	1.61
558103	830509	10	5	104/30	0.045	1.14	0.770	19.56	440	655	20	0.98
569979	830609	10	6	104/30	0.045	1.14	0.806	20.47	466	693	20	0.98
569980	830709	10	7	104/30	0.045	1.14	0.812	20.62	520	774	17	0.98
	830809	10	8	104/30	0.045	1.14	0.866	22.00	536	798	17	0.98
569662	831009	10	10	104/30	0.045	1.14	1.029	26.14	683	1016	12	0.98
570006	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 2011/65/EU (RoHS-2)  
The customer will accept all factory lengths and +/- 10 percent of total order requested.

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