



# PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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## Royal<sup>®</sup> 600V XLPE/PVC, TYPE TC-ER

### Construction Parameters:

**CONDUCTOR:** 18 AWG - 10 AWG Class B stranded bare copper per ASTM B-3 and B-8  
**INSULATION:** Flame-Retardant Cross-Linked Polyethylene (XLPE)  
**COLOR CODE:** ICEA Method 1, Table E-2  
**JACKET:** Black sunlight and moisture resistant Polyvinyl Chloride (PVC)  
**PRINT LEGEND:** CCI ROYAL XX AWG X/C W/GRND<sup>†</sup> XLPE/PVC TYPE TC-ER XHHW-2 E79496 (UL) 600V 90C DRY/90C WET OIL RES I SUNLIGHT RESISTANT DIRECT BURIAL -- SEQUENTIAL MARKING

### PHYSICAL PROPERTIES:

**TEMPERATURE RANGE:** -30°C to 90°C; (90°C Dry/90°C Wet)  
**OIL RESISTANCE:** OIL RES I  
**SUNLIGHT RESISTANT:** Yes  
**DIRECT BURIAL:** Yes

### ELECTRICAL PROPERTIES:

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

### Industry Approvals:

- o UL Standard 1277 Type TC-ER
- o NEC Article 336
- o UL 1685 Flame Test
- o UL 44 XHHW-2
- o IEEE 383 Flame Test (70,000 btu)
- o EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method

Part Number	Gauge	No. Cond.	Stranding	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight	
				Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
781892 *	18	2 Flat	7/0.0152	0.030	0.76	0.045	1.14	0.196 x 0.298	4.98 x 7.57	19	28
781802 *	18	2	7/0.0152	0.030	0.76	0.045	1.14	0.306	7.77	48	71
781803	18	3	7/0.0152	0.030	0.76	0.045	1.14	0.323	8.20	58	86
781804	18	4	7/0.0152	0.030	0.76	0.045	1.14	0.351	8.92	70	104
781805	18	5	7/0.0152	0.030	0.76	0.045	1.14	0.380	9.65	82	122
781807	18	7	7/0.0152	0.030	0.76	0.045	1.14	0.412	10.46	106	158
781809	18	9	7/0.0152	0.030	0.76	0.045	1.14	0.478	12.14	129	192
781812	18	12	7/0.0152	0.030	0.76	0.060	1.52	0.564	14.33	179	266
781815	18	15	7/0.0152	0.030	0.76	0.060	1.52	0.622	15.80	215	320
781819	18	19	7/0.0152	0.030	0.76	0.060	1.52	0.654	16.61	259	385
781692 *	16	2 Flat	7/0.0192	0.030	0.76	0.045	1.14	0.212 x 0.330	5.38 x 8.38	27	40
781602 *	16	2	7/0.0192	0.030	0.76	0.045	1.14	0.332	8.43	58	86
781603	16	3	7/0.0192	0.030	0.76	0.045	1.14	0.351	8.92	71	106
781604	16	4	7/0.0192	0.030	0.76	0.045	1.14	0.382	9.70	85	126
781605	16	5	7/0.0192	0.030	0.76	0.045	1.14	0.415	10.54	104	155
781607	16	7	7/0.0192	0.030	0.76	0.045	1.14	0.451	11.46	136	202
781609	16	9	7/0.0192	0.030	0.76	0.060	1.52	0.555	14.10	183	272
781612	16	12	7/0.0192	0.030	0.76	0.060	1.52	0.618	15.70	232	345
781615	16	15	7/0.0192	0.030	0.76	0.060	1.52	0.683	17.35	280	417
781619	16	19	7/0.0192	0.030	0.76	0.060	1.52	0.719	18.26	340	506
781625	16	25	7/0.0192	0.030	0.76	0.080	2.03	0.878	22.30	469	698
781630	16	30	7/0.0192	0.030	0.76	0.080	2.03	0.927	23.55	544	810
781637	16	37	7/0.0192	0.030	0.76	0.080	2.03	0.997	25.32	651	969

\* Not -ER

† W/Grnd

Specification Issue Date: July 8, 2010

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				Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
781492 *	14	2 Flat	7/0.0242	0.030	0.76	0.045	1.14	0.227 x 0.360	5.61 x 8.84	39	58
781442 *	14	2	7/0.0242	0.030	0.76	0.045	1.14	0.360	9.14	75	112
781482	14	2 W/GND†	7/0.0242	0.030	0.76	0.045	1.14	0.414	10.52	90	135
781483	14	3 W/GND†	7/0.0242	0.030	0.76	0.045	1.14	0.435	11.05	114	170
781403	14	3	7/0.0242	0.030	0.76	0.045	1.14	0.374	9.50	94	140
781404	14	4	7/0.0242	0.030	0.76	0.045	1.14	0.412	10.46	116	173
781405	14	5	7/0.0242	0.030	0.76	0.045	1.14	0.453	11.51	139	207
781407	14	7	7/0.0242	0.030	0.76	0.045	1.14	0.493	12.52	183	272
781409	14	9	7/0.0242	0.030	0.76	0.060	1.52	0.605	15.37	245	365
781412	14	12	7/0.0242	0.030	0.76	0.060	1.52	0.672	17.07	316	470
781415	14	15	7/0.0242	0.030	0.76	0.060	1.52	0.737	18.72	382	568
781419	14	19	7/0.0242	0.030	0.76	0.060	1.52	0.780	19.81	465	692
781425	14	25	7/0.0242	0.030	0.76	0.080	2.03	0.949	24.10	637	948
781430	14	30	7/0.0242	0.030	0.76	0.080	2.03	1.011	25.68	707	1052
781437	14	37	7/0.0242	0.030	0.76	0.080	2.03	1.086	27.58	894	1330
781292 *	12	2 Flat	7/0.0305	0.030	0.76	0.045	1.14	0.239 x 0.384	6.07 x 9.75	58	86
781202 *	12	2	7/0.0305	0.030	0.76	0.045	1.14	0.408	10.36	99	147
781203	12	3	7/0.0305	0.030	0.76	0.045	1.14	0.433	11.00	127	189
781283	12	3 W/GND†	7/0.0305	0.030	0.76	0.045	1.14	0.473	12.01	151	225
781204	12	4	7/0.0306	0.030	0.76	0.045	1.14	0.474	12.04	154	228
781205	12	5	7/0.0305	0.030	0.76	0.060	1.52	0.548	13.92	207	308
781207	12	7	7/0.0305	0.030	0.76	0.060	1.52	0.595	15.11	273	406
781209	12	9	7/0.0305	0.030	0.76	0.060	1.52	0.692	17.58	341	507
781212	12	12	7/0.0305	0.030	0.76	0.060	1.52	0.776	19.71	439	653
781215	12	15	7/0.0305	0.030	0.76	0.080	2.03	0.902	22.91	571	850
781925	12	19	7/0.0305	0.030	0.76	0.080	2.03	0.949	24.10	696	1036
781225	12	25	7/0.0305	0.030	0.76	0.080	2.03	1.106	28.09	898	1336
781230	12	30	7/0.0305	0.030	0.76	0.080	2.03	1.170	29.72	1054	1569
781237	12	37	7/0.0305	0.030	0.76	0.080	2.03	1.263	32.08	1274	1896
781092 *	10	2 Flat	7/0.0385	0.030	0.76	0.045	1.14	0.262 x 0.430	6.65 x 10.92	258	384
781002 *	10	2	7/0.0385	0.030	0.76	0.045	1.14	0.450	11.43	129	192
781003	10	3	7/0.0385	0.030	0.76	0.045	1.14	0.478	12.14	171	254
781004	10	4	7/0.0386	0.030	0.76	0.060	1.52	0.560	14.22	231	344
781005	10	5	7/0.0385	0.030	0.76	0.060	1.52	0.605	15.37	281	418
781007	10	7	7/0.0385	0.030	0.76	0.060	1.52	0.658	16.71	375	558
781009	10	9	7/0.0385	0.030	0.76	0.060	1.52	0.768	19.51	471	701
781012	10	12	7/0.0385	0.030	0.76	0.080	2.03	0.903	22.94	644	958

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

\* Not -ER

† W/Grnd

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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