



PRODUCT DATA SHEET
Controlled Document - Engineering Drive

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Royal® 600V EPR/CPE TRIADS, TOS, TYPE TC-ER

Construction Parameters:

CONDUCTOR: 18 AWG - 16 AWG Class B stranded tinned copper per ASTM B-33 and B-8
INSULATION: Flame-retardant Ethylene Propylene Rubber (EPR)
COLOR CODE: Black/White/Red; Alpha-numeric print; alternate & inverted
SHIELDING Overall 100% coverage, aluminum/polyester foil shield
JACKET: Black sunlight and moisture resistant, flame-retardant Thermoplastic Chlorinated Polyethylene (CPE)
PRINT LEGEND: CCI ROYAL XX AWG XX SHIELDED TRIADS EPR/CPE TYPE TC-ER E79496 (UL) 600V 90C DRY/90C WET OIL RES I
SUNLIGHT RESISTANT DIRECT BURIAL FT4/IEEE 1202 -- SEQUENTIAL MARKING

PHYSICAL PROPERTIES:

TEMPERATURE RANGE: -40 °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 Passes UL 1685 Flame Test
- o Passes FT4/IEEE 1202 Flame Test
- o Passes IEEE 383 Flame Test (70,000 btu)
- o ICEA S-73-532
- o EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method

Part Number	Gauge	No. Triads	Stranding	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight	
				Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
791822	18	2	7/0.0152	0.030	0.76	0.060	1.52	0.588	14.94	126	188
791823	18	4	7/0.0152	0.030	0.76	0.060	1.52	0.684	17.37	197	293
791824	18	8	7/0.0152	0.030	0.76	0.080	2.03	0.928	23.57	374	557
791825	18	12	7/0.0152	0.030	0.76	0.080	2.03	1.146	29.11	550	818
791826	18	16	7/0.0152	0.030	0.76	0.100	2.54	1.272	32.31	691	1028
791827	18	24	7/0.0152	0.030	0.76	0.100	2.54	1.590	40.39	1010	1503
791828	18	36	7/0.0152	0.030	0.76	0.110	2.79	1.839	46.71	1444	2149
791622	16	2	7/0.0192	0.030	0.76	0.060	1.52	0.644	16.36	158	235
791623	16	4	7/0.0192	0.030	0.76	0.080	2.03	0.752	19.10	253	377
791624	16	8	7/0.0192	0.030	0.76	0.080	2.03	1.021	25.93	482	717
791629	16	12	7/0.0192	0.030	0.76	0.095	2.41	1.263	32.08	467	695
791626	16	16	7/0.0192	0.030	0.76	0.100	2.54	1.424	36.17	926	1378
791627	16	24	7/0.0192	0.030	0.76	0.110	2.79	1.778	45.16	1354	2015
791628	16	36	7/0.0192	0.030	0.76	0.110	2.79	2.035	51.69	1901	2829

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

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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