



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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Royal[®] 600V EPR/CPE, SHIELDED 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: ICEA Method 1, Table E-2
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 X/C SHIELDED 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 ICEA S-73-532
- o UL 1685 Flame Test
- o UL FT4/IEEE 1202 Flame Test
- 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
791862 *	18	2	7/0.0152	0.030	0.76	0.045	1.14	0.310	7.87	47	70
791863	18	3	7/0.0152	0.030	0.76	0.045	1.14	0.327	8.31	58	86
791864	18	4	7/0.0152	0.030	0.76	0.045	1.14	0.355	9.02	70	104
791865	18	5	7/0.0152	0.030	0.76	0.045	1.14	0.384	9.75	82	122
791867	18	7	7/0.0152	0.030	0.76	0.045	1.14	0.416	10.57	106	158
791869	18	9	7/0.0152	0.030	0.76	0.045	1.14	0.482	12.24	131	195
791872	18	12	7/0.0152	0.030	0.76	0.045	1.14	0.568	14.43	181	269
791662 *	16	2	7/0.0192	0.030	0.76	0.045	1.14	0.336	8.53	58	86
791663	16	3	7/0.0192	0.030	0.76	0.045	1.14	0.355	9.02	73	109
791664	16	4	7/0.0192	0.030	0.76	0.045	1.14	0.386	9.80	89	132
791665	16	5	7/0.0192	0.030	0.76	0.045	1.14	0.419	10.64	106	158
791667	16	7	7/0.0192	0.030	0.76	0.045	1.14	0.455	11.56	138	205
791669	16	9	7/0.0192	0.030	0.76	0.060	1.52	0.559	14.20	187	278
791672	16	12	7/0.0192	0.030	0.76	0.060	1.52	0.622	15.80	235	350

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

* 2 conductor is not -ER

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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