



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

1530 Shields Drive
Waukegan, IL 60085
Toll-Free (800) 323-9355
Fax: (847) 689-1192

Royal[®] 600V EPR/CPE, TYPE TC-ER

Construction Parameters:

CONDUCTOR:	8 AWG - 1 AWG Class B stranded tinned copper per ASTM B-33 and B-8
INSULATION:	Flame-Retardant Ethylene Propylene Rubber (EPR)
COLOR CODE:	ICEA Method 4, black and printed with conductor number
GROUND:	Uninsulated tinned copper per ASTM B33 and B8
JACKET:	Black sunlight and moisture resistant flame-retardant thermoplastic Chlorinated Polyethylene (CPE)
PRINT LEGEND:	CCI ROYAL XX AWG X/C EPR/CPE TYPE TC-ER XHHW-2 CDRS E79496 (UL) 600V 90C DRY/90C WET OIL RES I SUNLIGHT RESISTANT DIRECT BURIAL FT4/IEEE 1202 -- 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
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Industry Approvals:

- o UL Standard 1277 Type TC-ER
- o UL 44 XHHW-2 Conductors
- o NEC Article 336
- o ICEA S-73-532
- o UL 1685 Flame Test
- o 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	Ground	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight	
					Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
791515	8	3	7/0.0486	1 x 10 AWG	0.030	0.76	0.060	1.52	0.647	16.43	398	592
791516	8	4	7/0.0486	1 x 10 AWG	0.030	0.76	0.060	1.52	0.724	18.39	408	607
791517	6	3	7/0.0612	1 x 8 AWG	0.030	0.76	0.060	1.52	0.724	18.39	486	723
791518	6	4	7/0.0612	1 x 8 AWG	0.030	0.76	0.060	1.52	0.816	20.73	586	872
791519	4	3	7/0.0772	1 x 8 AWG	0.040	1.02	0.080	2.03	0.853	21.67	666	991
791520	4	4	7/0.0772	1 x 8 AWG	0.040	1.02	0.080	2.03	0.936	23.77	869	1293
791521	2	3	7/0.0974	1 x 6 AWG	0.040	1.02	0.080	2.03	0.978	24.84	991	1475
791522	2	4	7/0.0974	1 x 6 AWG	0.040	1.02	0.080	2.03	1.123	28.52	1324	1970
791503	1	3	7/0.0664	1 x 6 AWG	0.060	1.52	0.085	2.16	1.162	29.51	1324	1970
791504	1	4	7/0.0664	1 x 6 AWG	0.060	1.52	0.085	2.16	1.279	32.49	1629	2424

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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