



# PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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## Royal<sup>®</sup> 600V EPR/CPE, TYPE TC-ER

### Construction Parameters:

**CONDUCTOR:** 1/0 AWG - 500 MCM 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 W/GRND 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

### 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 |
| 792503      | 1/0     | 3         | 19/0.0745 | 1 x 6 AWG | 0.060                 | 1.52 | 0.085             | 2.16 | 1.216      | 30.89 | 1531       | 2278  |
| 792504      | 1/0     | 4         | 19/0.0745 | 1 x 6 AWG | 0.060                 | 1.52 | 0.085             | 2.16 | 1.357      | 34.47 | 1967       | 2927  |
| 791703      | 2/0     | 3         | 19/0.0837 | 1 x 6 AWG | 0.060                 | 1.52 | 0.085             | 2.16 | 1.329      | 33.76 | 1850       | 2753  |
| 791704      | 2/0     | 4         | 19/0.0837 | 1 x 6 AWG | 0.060                 | 1.52 | 0.085             | 2.16 | 1.464      | 37.19 | 2363       | 3517  |
| 792303      | 3/0     | 3         | 19/0.0940 | 1 x 4 AWG | 0.060                 | 1.52 | 0.085             | 2.16 | 1.437      | 36.50 | 2274       | 3384  |
| 791903      | 4/0     | 3         | 19/0.1055 | 1 x 4 AWG | 0.060                 | 1.52 | 0.085             | 2.16 | 1.558      | 39.57 | 2698       | 4015  |
| 791904      | 4/0     | 4         | 19/0.1055 | 1 x 4 AWG | 0.060                 | 1.52 | 0.085             | 2.16 | 1.740      | 44.20 | 3463       | 5153  |
| 792003      | 250 MCM | 3         | 37/0.0822 | 1 x 4 AWG | 0.070                 | 1.78 | 0.120             | 3.05 | 1.755      | 44.58 | 3240       | 4822  |
| 792004      | 250 MCM | 4         | 37/0.0822 | 1 x 4 AWG | 0.070                 | 1.78 | 0.120             | 3.05 | 1.939      | 49.25 | 4179       | 6219  |
| 792103      | 350 MCM | 3         | 37/0.0974 | 1 x 3 AWG | 0.070                 | 1.78 | 0.120             | 3.05 | 1.990      | 50.55 | 4307       | 6410  |
| 792104      | 350 MCM | 4         | 37/0.0974 | 1 x 3 AWG | 0.070                 | 1.78 | 0.120             | 3.05 | 2.202      | 55.93 | 5589       | 8317  |
| 792203      | 500 MCM | 3         | 37/0.1162 | 1 x 2 AWG | 0.070                 | 1.78 | 0.120             | 3.05 | 2.224      | 56.49 | 5872       | 8738  |
| 792204      | 500 MCM | 4         | 37/0.1162 | 1 x 2 AWG | 0.070                 | 1.78 | 0.120             | 3.05 | 2.464      | 62.59 | 7657       | 11395 |

*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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Specification Issue Date: July 9, 2013