



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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Royal[®] 600V EPR/CPE, TYPE TC-ER

Construction Parameters:

CONDUCTOR: 12 AWG - 10 AWG Class B stranded tinned copper per ASTM B-33 and B-8
INSULATION: Flame-Retardant Ethylene Propylene Rubber (EPR)
COLOR CODE: ICEA S-58-679-1998 Method 1, Table 1
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 261, Subpart C, heavy metals per Table 1, TCLP method

Conductor Number	Background or Base Color	First Tracer Color
1*	Black	---
2	White	---
3	Red	---
4	Green	---
5	Orange	---
6	Blue	---
7	White	Black
8	Red	Black
9	Green	Black
10	Orange	Black
11	Blue	Black
12	Black	White

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
794202	12	2	7/0.0305	0.030	0.76	0.045	1.14	0.396	10.06	98	146
794204	12	4	7/0.0305	0.030	0.76	0.045	1.14	0.466	11.84	151	225
794209	12	9	7/0.0305	0.030	0.76	0.060	1.52	0.680	17.27	340	506
794212	12	12	7/0.0305	0.030	0.76	0.060	1.52	0.745	18.92	438	652
794002 *	10	2	7/0.0385	0.030	0.76	0.045	1.14	0.446	11.33	129	192
794004	10	4	7/0.0385	0.030	0.76	0.060	1.52	0.556	14.12	228	339

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

* Not -ER

This product complies with European Directive 2011/65/EU (RoHS-2)
 Customer required length tolerance is -0/+5 percent.

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Customer Company Name: _____

Date: _____

Customer Approval: _____

Customer Title: _____

Specification Issue Date: July 18, 2013