



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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Royal[®] 600V XLPE/PVC, SHIELDED, TYPE TC-ER

Construction Parameters:

CONDUCTOR: 14 AWG - 10 AWG Class B stranded bare copper per ASTM B-3 and B-8
INSULATION: Flame-Retardant Cross-Linked Polyethylene (XLPE)
COLOR CODE: ICEA Method 1, Table E-2
SHIELDING: Overall 100% coverage, aluminum/polyester foil shield with tinned copper drain wire
JACKET: Black sunlight and moisture resistant Polyvinyl Chloride (PVC)
PRINT LEGEND: CCI ROYAL XX AWG X/C SHIELDED XLPE/PVC TYPE TC-ER XHHW-2 E79496 (UL) 600V 90C DRY/90C WET SUNLIGHT RESISTANT OIL RES I DIRECT BURIAL -- SEQUENTIAL MARKING

PHYSICAL PROPERTIES:

OPERATING 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 NEC Article 336
- o UL 1685 Flame Test
- o UL 44 XHHW-2
- 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
781452 *	14	2	7/0.0242	0.030	0.76	0.045	1.14	0.364	9.25	77	115
781453	14	3	7/0.0242	0.030	0.76	0.045	1.14	0.379	9.63	98	146
781454	14	4	7/0.0242	0.030	0.76	0.045	1.14	0.417	10.59	121	180
781455	14	5	7/0.0242	0.030	0.76	0.045	1.14	0.458	11.63	144	214
781457	14	7	7/0.0242	0.030	0.76	0.045	1.14	0.528	13.41	204	304
781462	14	12	7/0.0242	0.030	0.76	0.060	1.52	0.675	17.15	322	479
781252 *	12	2	7/0.0305	0.030	0.76	0.045	1.14	0.412	10.46	100	149
781253	12	3	7/0.0305	0.030	0.76	0.045	1.14	0.437	11.10	135	201
781254	12	4	7/0.0305	0.030	0.76	0.045	1.14	0.478	12.14	168	250
781255	12	5	7/0.0305	0.030	0.76	0.060	1.52	0.552	14.02	216	321
781257	12	7	7/0.0305	0.030	0.76	0.060	1.52	0.599	15.21	284	423
781262	12	12	7/0.0305	0.030	0.76	0.060	1.52	0.780	19.81	452	673
781052 *	10	2	7/0.0385	0.030	0.76	0.045	1.14	0.454	11.53	142	211
781053	10	3	7/0.0385	0.030	0.76	0.045	1.14	0.482	12.24	187	278
781054	10	4	7/0.0385	0.030	0.76	0.060	1.52	0.559	14.20	248	369
781055	10	5	7/0.0385	0.030	0.76	0.060	1.52	0.609	15.47	296	440
781057	10	7	7/0.0385	0.030	0.76	0.060	1.52	0.662	16.81	392	583

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

* 2 conductor 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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