



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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Royal[®] 600V THHN/THWN/PVC, TYPE TC-ER

Construction Parameters:

CONDUCTOR: 1/0 AWG - 500 MCM Class B stranded bare copper per ASTM B-3 and B-8
INSULATION: Premium Grade Polyvinyl Chloride (PVC) plus nylon
COLOR CODE: ICEA Method 4, black and printed with conductor number
GROUND: Uninsulated bare copper per ASTM B3 and B8
JACKET: Black sunlight and moisture resistant Polyvinyl Chloride (PVC)
1/0Awg - 4/0Awg
PRINT LEGEND: CCI ROYAL XX AWG (XX.XMM2) COMPACT COPPER X/C W/GRND PVCN/PVC TYPE TC-ER THHN/THWN E79496 (UL) 600V 90C DRY/75C WET OIL RES I SUNLIGHT RESISTANT DIRECT BURIAL -- SEQUENTIAL MARKING
250MCM - 500MCM
PRINT LEGEND: CCI ROYAL XX AWG X/C W/GRND PVCN/PVC TYPE TC-ER THHN/THWN E79496 (UL) 600V 90C DRY/75C WET OIL RES I SUNLIGHT RESISTANT DIRECT BURIAL -- SEQUENTIAL MARKING

PHYSICAL PROPERTIES:

TEMPERATURE RANGE: -30°C to 90°C; (90°C Dry/75°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 Standard 83 Type THHN/THWN
- o NEC Article 336
- o UL 1685 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
776913	1/0	3	19/0.0745	1 x 6 AWG	0.050/0.007	1.27/0.18	0.080	2.03	1.166	29.62	1446	2152
776914	1/0	4	19/0.0745	1 x 6 AWG	0.050/0.007	1.27/0.18	0.080	2.03	1.317	33.45	1880	2798
776923	2/0	3	19/0.0837	1 x 6 AWG	0.050/0.007	1.27/0.18	0.080	2.03	1.272	32.31	1768	2631
776924	2/0	4	19/0.0837	1 x 6 AWG	0.050/0.007	1.27/0.18	0.080	2.03	1.414	35.92	2275	3386
776933	3/0	3	19/0.0837	1 x 4 AWG	0.050/0.007	1.27/0.18	0.080	2.03	1.374	34.90	2191	3261
776943	4/0	3	19/0.1055	1 x 4 AWG	0.050/0.007	1.27/0.18	0.080	2.03	1.455	36.96	2240	3333
776944	4/0	4	19/0.1055	1 x 4 AWG	0.050/0.007	1.27/0.18	0.120	3.05	1.686	42.82	3389	5043
776953	250 MCM	3	37/0.0822	1 x 4 AWG	0.060/0.008	1.52/0.20	0.120	3.05	1.687	42.85	3145	4680
776963	250 MCM	4	37/0.0822	1 x 4 AWG	0.060/0.008	1.52/0.20	0.120	3.05	1.881	47.78	4068	6054
776964	350 MCM	3	37/0.0974	1 x 3 AWG	0.060/0.008	1.52/0.20	0.115	2.92	1.932	49.07	4236	6304
776973	350 MCM	4	37/0.0974	1 x 3 AWG	0.060/0.008	1.52/0.20	0.115	2.92	2.175	55.25	5499	8183
776974	500 MCM	3	37/0.1162	1 x 2 AWG	0.060/0.008	1.52/0.20	0.120	3.05	2.235	56.77	5800	8631
776983	500 MCM	4	37/0.1162	1 x 2 AWG	0.060/0.008	1.52/0.20	0.120	3.05	2.476	62.89	7562	11253

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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