



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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

Construction Parameters:

CONDUCTOR: 8 AWG - 1 AWG 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)
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 261, Subpart C, heavy metals per Table 1, TCLP method

Part Number	AWG	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
776984	8	3	7/0.0486	1 x 10 AWG	0.03/0.006	0.76/0.15	0.060	1.52	0.574	14.58	292	435
776985	8	4	7/0.0486	1 x 10 AWG	0.03/0.006	0.76/0.15	0.060	1.52	0.682	17.32	364	542
776995	6	3	7/0.0612	1 x 8 AWG	0.03/0.006	0.76/0.15	0.060	1.52	0.677	17.20	424	631
776986	6	4	7/0.0612	1 x 8 AWG	0.03/0.006	0.76/0.15	0.060	1.52	0.751	19.08	532	792
776987	4	3	7/0.0772	1 x 8 AWG	0.04/0.007	1.02/0.18	0.060	1.52	0.827	21.01	648	964
776988	4	4	7/0.0772	1 x 8 AWG	0.04/0.007	1.02/0.18	0.080	2.03	0.916	23.27	817	1216
776989	2	3	7/0.0974	1 x 6 AWG	0.04/0.007	1.02/0.18	0.080	2.03	0.978	24.84	941	1400
776990	2	4	7/0.0974	1 x 6 AWG	0.04/0.007	1.02/0.18	0.080	2.03	1.113	28.27	1228	1827
776903	1	3	19/0.0664	1 x 6 AWG	0.05/0.007	1.27/0.18	0.080	2.03	1.132	28.75	1230	1830
776904	1	4	19/0.0664	1 x 6 AWG	0.05/0.007	1.27/0.18	0.080	2.03	1.278	32.46	1599	2380

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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