



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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Royal[®] 600V XLPE/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: Flame-Retardant Cross-Linked Polyethylene (XLPE)
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 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:

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	Ground	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight		Ampacity ¹
					Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km	
786823	1/0	3	19/0.0745	1 x 6 AWG	0.055	1.40	0.085	2.16	1.216	30.89	1534	2283	170
786824	1/0	4	19/0.0745	1 x 6 AWG	0.055	1.40	0.085	2.16	1.357	34.47	1971	2933	136
786883	2/0	3	19/0.0837	1 x 6 AWG	0.055	1.40	0.085	2.16	1.329	33.76	1854	2759	195
786884	2/0	4	19/0.0837	1 x 6 AWG	0.055	1.40	0.085	2.16	1.464	37.19	2366	3521	156
786833	3/0	3	19/0.0837	1 x 4 AWG	0.055	1.40	0.085	2.16	1.437	36.50	2278	3390	225
786843	4/0	3	19/0.0940	1 x 4 AWG	0.055	1.40	0.085	2.16	1.558	39.57	2702	4021	260
786844	4/0	4	19/0.1055	1 x 4 AWG	0.055	1.40	0.085	2.16	1.740	44.20	3458	5146	208
786853	250 MCM	3	37/0.0822	1 x 4 AWG	0.065	1.65	0.120	3.05	1.755	44.58	3245	4829	290
786854	250 MCM	4	37/0.0822	1 x 4 AWG	0.065	1.65	0.120	3.05	1.939	49.25	4185	6228	232
786863	350 MCM	3	37/0.0974	1 x 3 AWG	0.065	1.65	0.115	2.92	1.932	49.07	4313	6418	350
786864	350 MCM	4	37/0.0974	1 x 3 AWG	0.065	1.65	0.115	2.92	2.159	54.84	5596	8328	280
786873	500 MCM	3	37/0.1162	1 x 2 AWG	0.065	1.65	0.120	3.05	2.224	56.49	5878	8747	430
786874	500 MCM	4	37/0.1162	1 x 2 AWG	0.065	1.65	0.120	3.05	2.464	62.59	7665	11407	344

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

Note 1: Ampacity values are taken from 2011 NEC table 315(B)(16)

This product complies with European Directive 2002/95/EC (RoHS)

The customer will accept all factory lengths and +/- 10 percent of total order requested.

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