



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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

Construction Parameters:

CONDUCTOR: 18 AWG - 16 AWG Class B stranded bare copper per ASTM B-3 and B-8
INSULATION: Flame-retardant Cross-linked Polyethylene (XLPE)
COLOR CODE: Black/White/Red; Alpha-numeric print; alternate & inverted
SHIELDING: Overall 100% coverage, aluminum/polyester foil shield, with individual and overall tinned copper drain wire
JACKET: Black sunlight and moisture resistant Polyvinyl Chloride (PVC)
PRINT LEGEND: CCI ROYAL XX AWG XX SHIELDED TRIADS XLPE/PVC TYPE TC-ER E79496 (UL) 600V 90C DRY/90C WET OIL RES I
SUNLIGHT RESISTANT 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 Passes UL 1685 Flame Test
- o Passes IEEE 383 Flame Test (70,000 btu)
- o ICEA S-73-532
- o EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method

Part Number	AWG	No. Triads	Stranding	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight	
				Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
781822	18	2	7/0.0152	0.030	0.76	0.060	1.52	0.588	14.94	128	190
781824	18	4	7/0.0152	0.030	0.76	0.060	1.52	0.684	17.37	199	296
781828	18	8	7/0.0152	0.030	0.76	0.080	2.03	0.928	23.57	378	563
781832	18	12	7/0.0152	0.030	0.76	0.080	2.03	1.146	29.11	555	826
781836	18	16	7/0.0152	0.030	0.76	0.080	2.03	1.272	32.31	697	1037
781844	18	24	7/0.0152	0.030	0.76	0.100	2.54	1.590	40.39	1019	1516
781866	18	36	7/0.0152	0.030	0.76	0.110	2.79	1.839	46.71	1455	2165
781622	16	2	7/0.0192	0.030	0.76	0.060	1.52	0.644	16.36	160	238
781624	16	4	7/0.0192	0.030	0.76	0.080	2.03	0.752	19.10	255	379
781628	16	8	7/0.0192	0.030	0.76	0.080	2.03	1.021	25.93	486	723
781632	16	12	7/0.0192	0.030	0.76	0.095	2.41	1.263	32.08	716	1066
781636	16	16	7/0.0192	0.030	0.76	0.100	2.54	1.424	36.17	934	1390
781644	16	24	7/0.0192	0.030	0.76	0.115	2.92	1.778	45.16	1364	2030
781666	16	36	7/0.0192	0.030	0.76	0.115	2.92	2.035	51.69	1913	2847

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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