



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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

Construction Parameters:

CONDUCTOR: 18 AWG - 14 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: Individual and 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 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 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
781811	18	1	7/0.0152	0.030	0.76	0.045	1.14	0.336	8.53	50	74
781611	16	1	7/0.0192	0.030	0.76	0.045	1.14	0.364	9.25	61	91
781411	14	1	7/0.0242	0.030	0.76	0.045	1.14	0.379	9.63	80	119

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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