



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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

Construction Parameters:

CONDUCTOR: 18 AWG - 14 AWG Class B stranded bare copper per ASTM B-3 and B-8
INSULATION: Premium Grade Polyvinyl Chloride (PVC) plus nylon
COLOR CODE: Black/White/Red; Alpha-numeric print; alternate & inverted
SHIELDING: Overall 100% coverage, aluminum/polyester foil shield with tinned copper drain wire
JACKET: Black sunlight and moisture resistant Polyvinyl Chloride (PVC)
PRINT LEGEND: CCI ROYAL XX AWG XX SHIELDED TRIADS PVCN/PVC TYPE TC-ER TFFN E79496 (UL) 600V 90C DRY OIL RES I
SUNLIGHT RESISTANT DIRECT BURIAL --- SEQUENTIAL MARKING

CCI ROYAL XX AWG XX SHIELDED TRIADS 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:

OPERATING TEMPERATURE RANGE: -30°C to 90°C; (90°C Dry/75°C Wet) - TFFN is 90°C Dry only
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 66 Type TFFN (16 AWG & 18 AWG)
- o UL Standard 83 Type THHN/THWN (14 AWG)
- o NEC Article 336
- o Passes 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. Traids	Stranding	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight	
				Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
771811	18	1	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.278	7.06	46	68
771611	16	1	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.304	7.72	58	86
771411	14	1	7/0.0242	0.015/0.004	0.38/0.10	0.045	1.14	0.336	8.53	87	129

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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