



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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

Construction Parameters:

CONDUCTOR: 18 AWG - 16 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: Individual and overall 100% coverage, aluminum/polyester foil shield, with individual & overall tinned copper drain wires
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

PHYSICAL PROPERTIES:

OPERATING TEMPERATURE RANGE: -30 °C to 90 °C; (90 °C Dry)

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
- 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. Triads	Stranding	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight	
				Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
771872	18	2	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.492	12.50	104	155
771874	18	4	7/0.0152	0.015/0.004	0.38/0.10	0.060	1.52	0.603	15.32	187	278
771878	18	8	7/0.0152	0.015/0.004	0.38/0.10	0.060	1.52	0.736	18.69	290	432
771882	18	12	7/0.0152	0.015/0.004	0.38/0.10	0.080	2.03	0.983	24.97	498	741
771886	18	16	7/0.0152	0.015/0.004	0.38/0.10	0.095	2.41	1.112	28.24	653	972
771894	18	24	7/0.0152	0.015/0.004	0.38/0.10	0.100	2.54	1.384	35.15	949	1412
771896	18	36	7/0.0152	0.015/0.004	0.38/0.10	0.100	2.54	1.578	40.08	1334	1985
771672	16	2	7/0.0192	0.015/0.004	0.38/0.10	0.060	1.52	0.534	13.56	148	220
771674	16	4	7/0.0192	0.015/0.004	0.38/0.10	0.060	1.52	0.666	16.92	255	379
771678	16	8	7/0.0192	0.015/0.004	0.38/0.10	0.080	2.03	0.906	23.01	481	716
771682	16	12	7/0.0192	0.015/0.004	0.38/0.10	0.095	2.41	1.103	28.02	690	1027
771686	16	16	7/0.0192	0.015/0.004	0.38/0.10	0.095	2.41	1.234	31.34	875	1302
771694	16	24	7/0.0192	0.015/0.004	0.38/0.10	0.100	2.54	1.540	39.12	1290	1920
771696	16	36	7/0.0192	0.015/0.004	0.38/0.10	0.100	2.54	1.758	44.65	1820	2708

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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Designed By: GJK
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