



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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Royal[®] 600V TFFN/PVC PAIRS, POS, 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; 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 PAIRS 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. Pairs	Stranding	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight	
				Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
775501 *	18	1	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.274	6.96	41	61
775502	18	2	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.406	10.31	80	119
775504	18	4	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.468	11.89	107	159
775508	18	8	7/0.0152	0.015/0.004	0.38/0.10	0.060	1.52	0.621	15.77	198	295
775512	18	12	7/0.0152	0.015/0.004	0.38/0.10	0.060	1.52	0.726	18.44	277	412
775524	18	24	7/0.0152	0.015/0.004	0.38/0.10	0.080	2.03	1.004	25.50	536	798
775536	18	36	7/0.0152	0.015/0.004	0.38/0.10	0.080	2.03	1.136	28.85	750	1116
775401 *	16	1	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.296	7.52	50	74
775402	16	2	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.448	11.38	89	132
775404	16	4	7/0.0192	0.015/0.004	0.38/0.10	0.060	1.52	0.548	13.92	157	234
775408	16	8	7/0.0192	0.015/0.004	0.38/0.10	0.060	1.52	0.688	17.48	266	396
775412	16	12	7/0.0192	0.015/0.004	0.38/0.10	0.080	2.03	0.852	21.64	409	609
775416	16	16	7/0.0192	0.015/0.004	0.38/0.10	0.080	2.03	0.964	24.49	518	771
775424	16	24	7/0.0192	0.015/0.004	0.38/0.10	0.080	2.03	1.118	28.40	728	1083
775436	16	36	7/0.0192	0.015/0.004	0.38/0.10	0.080	2.03	1.268	32.21	1029	1531

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

* 1 Pair is not -ER

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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Specification Issue Date: February 4, 2013