



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

1530 Shields Drive
Waukegan, IL 60085
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Royal[®] 600V TFFN/PVC PAIRS, SPOS, 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: Individual and overall 100% coverage, aluminum/polyester foil shield
JACKET: Black sunlight and moisture resistant Polyvinyl Chloride (PVC)
PRINT LEGEND: CCI ROYAL XX AWG XX SHIELDED PAIRS PVCN/PVC TYPE TC-ER E79496 (UL) 600V 90C DRY OIL RES I
SUNLIGHT RESISTANT DIRECT BURIAL -- SEQUENTIAL MARKING

PHYSICAL PROPERTIES:

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
778502	18	2	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.424	10.77	80	119
778504	18	4	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.488	12.40	126	188
778508	18	8	7/0.0152	0.015/0.004	0.38/0.10	0.060	1.52	0.645	16.38	238	354
778512	18	12	7/0.0152	0.015/0.004	0.38/0.10	0.060	1.52	0.734	18.64	332	494
778524	18	24	7/0.0152	0.015/0.004	0.38/0.10	0.080	2.03	1.038	26.37	638	949
778536	18	36	7/0.0152	0.015/0.004	0.38/0.10	0.080	2.03	1.207	30.66	902	1342
778402	16	2	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.466	11.84	115	171
778404	16	4	7/0.0192	0.015/0.004	0.38/0.10	0.060	1.52	0.569	14.45	196	292
778408	16	8	7/0.0192	0.015/0.004	0.38/0.10	0.060	1.52	0.680	17.27	331	493
778412	16	12	7/0.0192	0.015/0.004	0.38/0.10	0.080	2.03	0.869	22.07	507	754
778416	16	16	7/0.0192	0.015/0.004	0.38/0.11	0.080	2.03	0.983	24.97	619	921
778424	16	24	7/0.0192	0.015/0.004	0.38/0.10	0.080	2.03	1.050	26.67	901	1341
778432	16	36	7/0.0192	0.015/0.004	0.38/0.10	0.080	2.03	1.324	33.63	1278	1902

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

This product complies with European Directive 2002/95/EC (RoHS)

The customer will accept all factory lengths and +/- 10 percent of total order requested.

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Customer Company Name: _____ Date: _____

Customer Approval: _____ Customer Title: _____

Specification Issue Date: April 18, 2012