



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

1530 Shields Drive
Waukegan, IL 60085
Toll-Free (800) 323-9355
Fax: (847) 689-1192

Royal[®] Quad-Rated Cable Type TC-ER, PLTC, FPL and NPLF

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: ICEA Method 1, Table E-2
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 X/C SHIELDED PVCN/PVC TYPE TC-ER TFFN E79496 (UL) 600V 90C DRY OIL RES I
SUNLIGHT RESISTANT DIRECT BURIAL -- PLTC SUN RES --- FPL SUN RES --- NPLF SUN RES --- 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: 600Vrms, Max

Industry Approvals:

- o UL Standard 1277 Type TC-ER*, UL Standard 13 Type PLTC, UL Standard 1424 Type FPL, UL Standard 1425 Type NPLF
- o UL Standard 66 Type TFFN
- o NEC Articles 336, 725, 760
- o EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method

Flame Ratings:

- o UL 1581 Vertical Tray Flame Test
- o Passes IEEE 383

Part Number	Gauge	No. Cond.	Stranding	Insulation Wall, Nom.		Jacket Wall, Nom.		O.D., Nom.		Net Weight	
				Inches	mm	Inches	mm	Inches	mm	Lb./kft.	kg/km
771812 *	18	2	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.272	6.91	40	60
771813	18	3	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.285	7.24	49	73
771814	18	4	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.308	7.82	59	88
771815	18	5	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.332	8.43	69	103
771817	18	7	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.358	9.09	88	131
771819	18	9	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.412	10.46	109	162
771822	18	12	7/0.0152	0.015/0.004	0.38/0.10	0.045	1.14	0.458	11.63	137	204
771612 *	16	2	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.296	7.52	51	76
771613	16	3	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.312	7.92	64	95
771614	16	4	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.338	8.59	77	115
771685	16	5	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.365	9.27	91	135
771617	16	7	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.395	10.03	118	176
771689	16	9	7/0.0192	0.015/0.004	0.38/0.10	0.045	1.14	0.456	11.58	146	217
771622	16	12	7/0.0192	0.015/0.004	0.38/0.10	0.060	1.52	0.539	13.69	200	298

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

* 2 conductor 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.

The information presented here is, to the best of our knowledge, true and accurate. Since conditions of use are beyond Coleman Cable's control all product data presented is for informational purposes only and does not create a binding obligation or liability on Coleman Cable or confer any rights on any customer. The sale of products(s) is conditioned upon acceptance of a purchase order subject to Coleman disclaims all liability in connection with the use of information contained herein or otherwise.

This specification is proprietary intellectual property of Coleman Cable. Any information contained herein shall not be disclosed to any party without written consent of Coleman Cable.

Specification Issue Date: January 4, 2013