



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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Royal[®] 600V XLPE/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: Flame-retardant Cross-linked Polyethylene (XLPE)
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 XLPE/PVC TYPE TC-ER E79496 (UL) 600V 90C DRY/90C WET SUNLIGHT RESISTANT OIL RES I DIRECT BURIAL -- SEQUENTIAL MARKING

PHYSICAL PROPERTIES:

OPERATING TEMPERATURE RANGE: -30 °C to 90 °C; (90 °C Dry/90 °C Wet)
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 NEC Article 336
- o Passes UL 1685 Flame Test
- o Passes IEEE 383 Flame Test (70,000 btu)
- o ICEA S-73-532
- o EPA 40 CFR, Part 261, 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
786501 *	18	1	7/0.0152	0.031	0.79	0.047	1.19	0.276	7.01	69	103
786502	18	2	7/0.0152	0.031	0.79	0.047	1.19	0.450	11.42	84	125
786504	18	4	7/0.0152	0.031	0.79	0.062	1.57	0.556	14.12	148	220
786508	18	8	7/0.0152	0.031	0.79	0.062	1.57	0.713	18.12	246	366
786512	18	12	7/0.0152	0.031	0.79	0.082	2.08	0.883	22.42	376	560
786524	18	24	7/0.0152	0.031	0.79	0.082	2.08	1.170	29.71	691	1028
786536	18	36	7/0.0152	0.031	0.79	0.082	2.08	1.365	34.66	984	1464
786401 *	16	1	7/0.0192	0.031	0.79	0.047	1.19	0.296	7.51	58	86
786402	16	2	7/0.0192	0.031	0.79	0.062	1.57	0.519	13.17	121	180
786404	16	4	7/0.0192	0.031	0.79	0.062	1.57	0.603	15.32	187	278
786408	16	8	7/0.0192	0.031	0.79	0.082	2.08	0.818	20.79	350	521
786412	16	12	7/0.0192	0.031	0.79	0.082	2.08	0.962	24.44	484	720
786416	16	16	7/0.0192	0.031	0.79	0.082	2.08	1.078	27.39	641	954
786424	16	24	7/0.0192	0.031	0.79	0.082	2.08	1.281	32.54	952	1417
786436	16	36	7/0.0192	0.031	0.79	0.082	2.08	1.497	38.03	1321	1966

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 2002/95/EC (RoHS)

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

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