# **TYPE TC-ER - CONTROL & POWER TRAY CABLE**

Shielded PVC/Nylon Insulation with Overall PVC Jacket 18 - 10 AWG • 600 Volts • 90°C Dry/Wet



## CABLE IDENTIFICATION

#### 18-16 AWG

"ADVANCED DIGITAL CABLE, INC. XX AWG XX TYPE TFN CDRS SHLD (UL) TYPE TC OR TC-ER-JP 90C SUN RES DIR BUR 600V FT4/ IEEE1202 E195597 MADE IN USA"

#### 14-10 AWG

"ADVANCED DIGITAL CABLE, INC. XX AWG XX TYPE THHN CDRS SHLD (UL) TYPE TC OR TC-ER-JP 90C SUN RES DIR BUR 600V FT4/ IEEE1202 E195597 MADE IN USA"



### DESCRIPTION

ADC's Type TC-ER shielded multi-conductor cables have a PVC/Nylon insulation, aluminum shield and drain wire with an overall gas and oil resistant PVC jacket.

### APPLICATIONS

Appropriate for use where shielding from electro-static interference is required in power, control and lighting circuits in a broad range of commercial and industrial applications. Suitable for use in Class 1 or 2, Division 2 hazardous locations and for installation in trays, wireways, troughs, channels, ducts and conduit. Expressly approved for direct burial, wet or dry locations and outdoors in cable trays where sunlight resistant rating is required.

#### CONSTRUCTION

**Conductors:** Soft Drawn Annealed Bare Copper per ASTM B-3 and B-8. Concentric 7 strand. Concentric 19 strand available upon request as well as Tinned Copper.

**Insulation: PVC** Thickness: Per UL 83 table 10 for THHN/THWN, UL 66 table 4.7 for TFN.

**Conductor Jacket: Nylon** Thickness: Per UL 83 table 13 for THHN/THWN, UL 66 paragraph 9.1 for TFN.

**Cabling:** Conductors are assembled with fillers in the core as needed.

**Overall Shield:** Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

**Overall Jacket:** A black, flame resistant, Polyvinyl Chloride (PVC) jacket is extruded over the assembly. The surface profile shall approximate that of the interior assembly. A rip cord shall be inserted under the jacket for ease of stripping.

**Color Code:** ICEA Method 1, Table E-2 Standard. ICEA Method 1 Tables E-1, E-3 & Method 4.

#### **INDUSTRY LISTINGS & STANDARDS**

UL Listed as TC-ER-JP per UL Standard 1277\* Rated -39°C to 90°C OSHA Acceptable NEC Articles 392 & 336 CSA FT4 IEEE 1202 70,000 BTU Flame Test ASTM - All Applicable Standards \*UL 1277 requires a ground or three conductors to be rated ER



The information contained on this specification is intended to be used a guide in product selection and is believed to be reliable. ADC has made every effort to ensure the data shown above is accurate at the time of publication. This specification is subject to change anytime without notice. Rev IC0821

# **TYPE TC-ER - CONTROL & POWER CABLE**

## Shielded PVC/Nylon Insulation with Overall PVC Jacket 18 - 10 AWG • 600 Volts • 90°C Dry/Wet

Conductor Data											
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Nylon Armor (Mils)	Approximate 0.D. (Inches)							
18	7	15	5	.086							
16	7	15	5	.098							
14	7	15	5	.113							
12	7	15	5	.132							
10	7	20	5	.167							

Cable Data																				
18 AWG				16 AWG			14 AWG				12 AWG				10 AWG					
# of CDRS	Part #	0A Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part #	0A Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part #	0A Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part #	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part #	0A Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Pt.
2	6802SD	45	.266	54	6602SD	45	.290	62	6402SD	45	.320	85	6202SD	45	.358	107	6102SD	45	.428	142
3	6803SD	45	.279	62	6603SD	45	.305	80	6403SD	45	.337	102	6203SD	45	.378	128	6103SD	45	.453	182
4	6804SD	45	.301	72	6604SD	45	.330	94	6404SD	45	.366	122	6204SD	45	.412	160	6104SD	45	.496	227
5	6805SD	45	.322	83	6605SD	45	.359	109	6405SD	45	.399	144	6205SD	45	.450	195	6105SD	60	.575	284
6	6806SD	45	.348	97	6606SD	45	.388	124	6406SD	45	.433	162	6206SD	60	.490	219	6106SD	60	.625	332
7	6807SD	45	.348	101	6607SD	45	.388	132	6407SD	45	.433	180	6207SD	60	.490	243	6107SD	60	.625	370
8	6808SD	45	.375	111	6608SD	45	.418	148	6408SD	60	.468	204	6208SD	60	.561	288	6108SD	60	.677	417
9	6809SD	45	.405	124	6609SD	45	.449	162	6409SD	60	.503	241	6209SD	60	.602	324	6109SD	60	.727	463
10	6810SD	45	.435	136	6610SD	60	.486	178	6410SD	60	.576	257	6210SD	60	.652	347	6110SD	80	.792	515
12	6812SD	45	.451	171	6612SD	60	.501	220	6412SD	60	.593	291	6212SD	60	.672	408	6112SD	80	.817	604
15	6815SD	60	.498	198	6615SD	60	.585	262	6415SD	60	.655	360	6215SD	60	.744	486	6115SD	80	.949	780
19	6819SD	60	.554	238	6619SD	60	.614	316	6419SD	60	.689	433	6219SD	80	.784	606	6119SD	80	.999	943
25	6825SD	60	.640	298	6625SD	60	.712	404	6425SD	80	.802	554	6225SD	80	.956	820	6125SD	80	1.16	1130



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