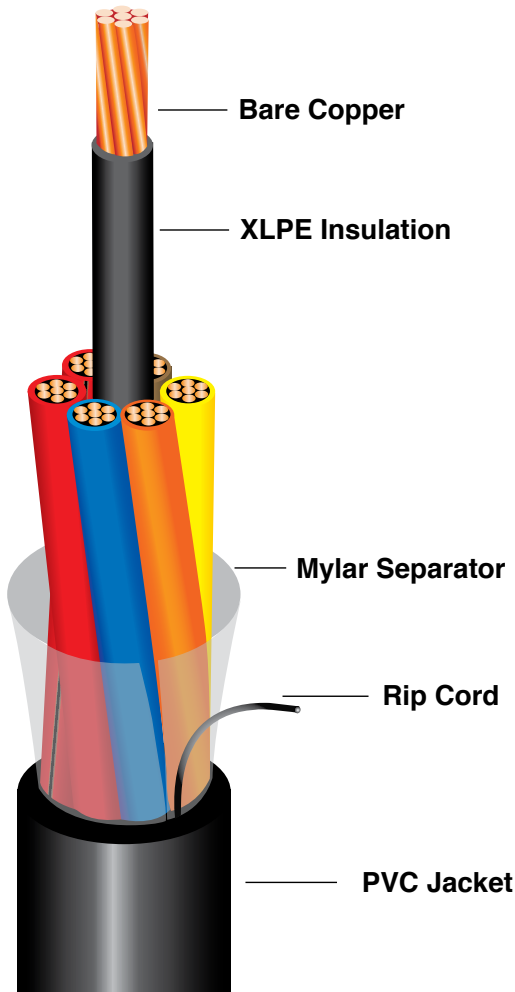


TYPE TC-ER - CONTROL & POWER TRAY CABLE

Unshielded XLPE Insulation with Overall PVC Jacket
18 - 10 AWG • 600/1000 Volts • 90°C Wet/Dry



CABLE IDENTIFICATION

18-16 AWG

“ADVANCED DIGITAL CABLE, INC. X AWG X CDRS TYPE RFH-2 TC OR TC-ER-JP (UL) 90C WET OR DRY 600V SUN RES DIR BUR FT4/IEEE 1202 E195597 MADE IN USA”

14-10 AWG

“ADVANCED DIGITAL CABLE, INC. XX AWG X CDRS TYPE XHHW-2 TC OR TC-ER (UL) 90C WET OR DRY 1000V SUN RES DIR BUR FT4/IEEE 1202 E195597 MADE IN USA”



DESCRIPTION

ADC's Type TC-ER multi-conductor cables have a XLPE insulation with an overall gas and oil resistant PVC jacket.

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. Intended for control, power, lighting, telemetering, signals and relay or traffic control.

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: XLPE Thickness: Per UL 66 table 4.8 for RFH-2, UL 44 table 12 for XHHW-2.

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

Separator: Mylar

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 Tables E-1, E-2 & 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

CSA FT4

IEEE 1202 70,000 BTU Flame Test

ASTM - All Applicable Standards

Conductors are VW-1 Rated

*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

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TYPE TC-ER - CONTROL & POWER TRAY CABLE

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

Conductor Data

Size AWG	Strands	XLPE Insulation Thickness (Mils)	Approximate O.D. (Inches)
18	7	30	.106
16	7	30	.118
14	7	30	.133
12	7	30	.152
10	7	30	.176

Cable Data

18 AWG					16 AWG				14 AWG				12 AWG				10 AWG			
# of COPS	Part #	OA 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 #	OA 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 #	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./M Ft.
2	5802	45	.306	40	5602	45	.330	49	5402	45	.360	63	5202	45	.398	83	5102	45	.446	114
3	5803	45	.324	50	5603	45	.350	63	5403	45	.382	82	5203	45	.423	111	5103	45	.475	154
4	5804	45	.350	60	5604	45	.379	77	5404	45	.415	102	5204	45	.461	141	5104	60	.549	214
5	5805	45	.366	71	5605	45	.397	91	5405	45	.435	122	5205	45	.484	167	5105	60	.576	256
6	5806	45	.371	79	5606	45	.427	112	5406	45	.458	140	5206	45	.541	211	5106	60	.604	298
7	5807	45	.411	90	5607	45	.447	119	5407	45	.492	161	5207	60	.579	242	5107	60	.651	344
8	5808	45	.438	100	5608	45	.476	133	5408	60	.555	198	5208	60	.617	272	5108	60	.695	398
9	5809	45	.459	111	5609	45	.500	148	5409	60	.582	218	5209	60	.647	302	5109	60	.730	431
10	5810	45	.479	121	5610	60	.553	177	5410	60	.607	238	5210	60	.676	331	5110	60	.763	475
12	5812	60	.545	156	5612	60	.593	205	5412	60	.652	279	5212	60	.727	389	5112	80	.863	592
15	5815	60	.594	187	5615	60	.648	247	5415	60	.715	339	5215	60	.799	475	5115	80	.945	722
19	5819	60	.653	227	5619	60	.713	303	5419	60	.788	438	5219	80	.922	620	5119	80	1.042	894
25	5825	60	.732	287	5625	60	.801	385	5425	80	.927	566	5225	80	1.036	796	5125	80	1.210	1176