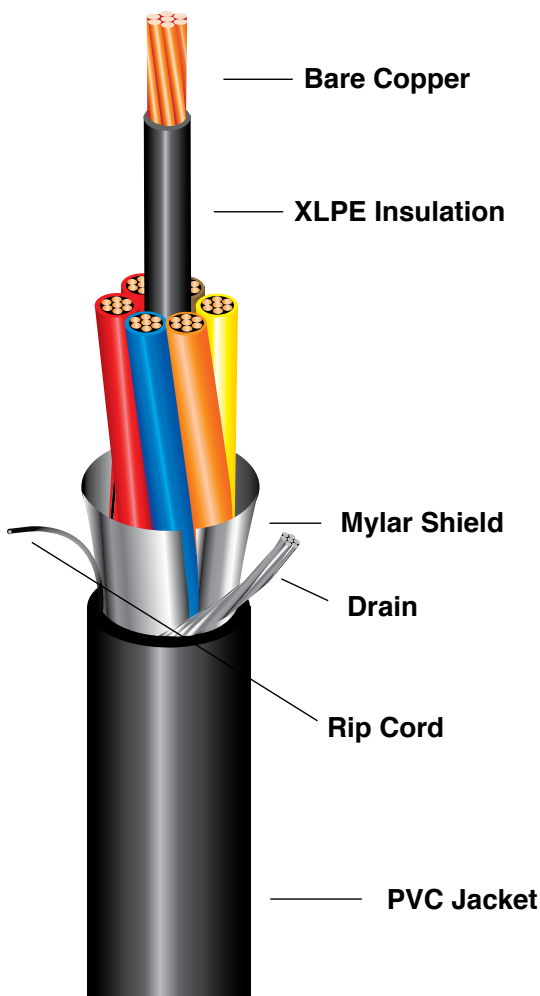


TYPE TC-ER - CONTROL & POWER TRAY CABLE

Shielded 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 SHLD 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 SHLD TC OR TC-ER-JP
 (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 aluminum tape shield and tinned copper drain wire and 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. Tinned Copper available upon request.

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.

Shield: Aluminum Mylar with a tinned copper drain

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 as 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

Shielded 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	5802SD	45	.306	42	5602SD	45	.330	53	5402SD	45	.360	67	5202SD	45	.398	89	5102SD	45	.446	120
3	5803SD	45	.324	52	5603SD	45	.350	67	5403SD	45	.382	86	5203SD	45	.423	117	5103SD	45	.475	160
4	5804SD	45	.350	62	5604SD	45	.379	81	5404SD	45	.415	106	5204SD	45	.461	147	5104SD	60	.549	220
5	5805SD	45	.366	73	5605SD	45	.397	95	5405SD	45	.435	126	5205SD	45	.484	173	5105SD	60	.576	262
6	5806SD	45	.441	81	5606SD	45	.447	116	5406SD	45	.492	144	5206SD	60	.579	217	5106SD	60	.651	304
7	5807SD	45	.411	92	5607SD	45	.447	123	5407SD	45	.492	165	5207SD	60	.579	248	5107SD	60	.651	350
8	5808SD	45	.438	103	5608SD	45	.476	137	5408SD	60	.555	202	5208SD	60	.617	278	5108SD	60	.695	404
9	5809SD	45	.459	114	5609SD	45	.500	153	5409SD	60	.582	223	5209SD	60	.647	308	5109SD	60	.730	437
10	5810SD	45	.479	124	5610SD	60	.553	183	5410SD	60	.607	243	5210SD	60	.676	337	5110SD	60	.763	481
12	5812SD	60	.545	160	5612SD	60	.593	209	5412SD	60	.652	284	5212SD	60	.727	396	5112SD	80	.863	599
15	5815SD	60	.594	191	5615SD	60	.648	251	5415SD	60	.715	344	5215SD	60	.799	482	5115SD	80	.945	729
19	5819SD	60	.653	231	5619SD	60	.713	307	5419SD	60	.788	443	5219SD	80	.922	627	5119SD	80	1.042	901
25	5825SD	60	.732	291	5625SD	60	.801	390	5425SD	80	.927	571	5225SD	80	1.036	803	5125SD	80	1.219	1184