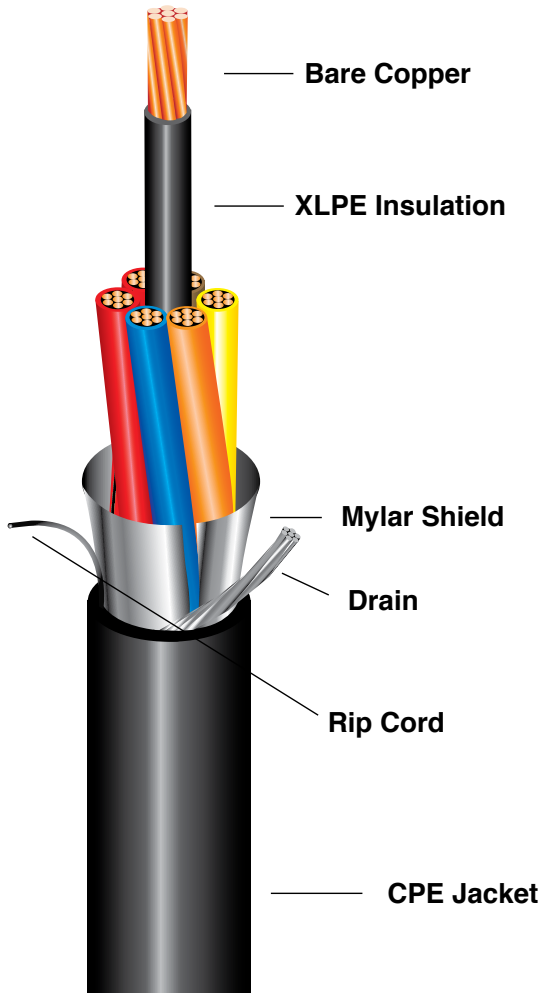


TYPE TC-ER - CONTROL & POWER TRAY CABLE

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



CABLE IDENTIFICATION

18-16 AWG

“ADVANCED DIGITAL CABLE, INC. XX AWG X CDRS TYPE RFH-2 XLP/CPE SHLD TC OR TC-ER (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 XLP/CPE SHLD 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 aluminum tape shield and tinned copper drain wire and an overall flame retardant, sunlight resistant Chlorinated Polyethylene (CPE) 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 flame retardance and moisture/chemical resistance is critical. 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.

Shield: Aluminum mylar with a tinned copper drain

Overall Jacket: A black, flame resistant, Chlorinated Polyethylene (CPE) 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 per UL Standard 1277*

Rated -°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

Shielded XLPE Insulation with Overall CPE 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	51802SD	45	.306	44	51602SD	45	.330	56	51402SD	45	.360	70	51202SD	45	.398	93	51102SD	45	.446	124
3	51803SD	45	.324	55	51603SD	45	.350	71	51403SD	45	.382	91	51203SD	45	.423	122	51103SD	45	.475	168
4	51804SD	45	.350	67	51604SD	45	.379	86	51404SD	45	.415	112	51204SD	45	.461	153	51104SD	60	.549	228
5	51805SD	45	.366	78	51605SD	45	.397	101	51405SD	45	.435	132	51205SD	45	.484	182	51105SD	60	.576	272
6	51806SD	45	.411	87	51606SD	45	.447	114	51406SD	45	.492	152	51206SD	60	.579	210	51106SD	60	.651	314
7	51807SD	45	.411	100	51607SD	45	.447	131	51407SD	45	.492	175	51207SD	60	.579	260	51107SD	60	.651	363
8	51808SD	45	.438	111	51608SD	45	.476	146	51408SD	60	.555	212	51208SD	60	.617	291	51108SD	60	.695	409
9	51809SD	45	.459	123	51609SD	45	.500	162	51409SD	60	.582	234	51209SD	60	.647	322	51109SD	60	.730	454
10	51810SD	45	.479	134	51610SD	60	.553	192	51410SD	60	.607	256	51210SD	60	.676	353	51110SD	60	.763	499
12	51812SD	60	.545	172	51612SD	60	.593	223	51412SD	60	.652	298	51212SD	60	.727	403	51112SD	80	.863	621
15	51815SD	60	.594	205	51615SD	60	.648	268	51415SD	60	.715	361	51215SD	60	.799	504	51115SD	80	.945	757
19	51819SD	60	.653	249	51619SD	60	.713	327	51419SD	60	.788	444	51219SD	80	.922	658	51119SD	80	1.042	936
25	51825SD	60	.732	313	51625SD	60	.801	415	51425SD	80	.927	602	51225SD	80	1.036	839	51125SD	80	1.219	1187



CONTROL & POWER TRAY CABLE