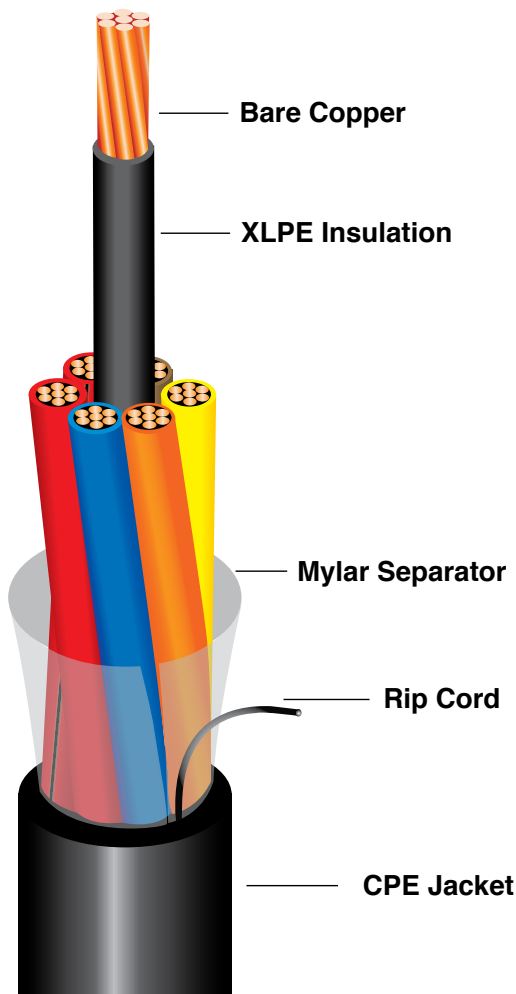


TYPE TC-ER - CONTROL & POWER TRAY CABLE

Unshielded 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 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 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 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.

Separator: Mylar

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 -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

Unshielded 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 COBS	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	51802	45	.306	42	51602	45	.330	52	51402	45	.360	66	51202	45	.398	87	51102	45	.446	118
3	51803	45	.324	53	51603	45	.350	67	51403	45	.382	87	51203	45	.423	116	51103	45	.475	162
4	51804	45	.350	65	51604	45	.379	82	51404	45	.415	108	51204	45	.461	147	51104	60	.549	222
5	51805	45	.366	76	51605	45	.397	97	51405	45	.435	128	51205	45	.484	176	51105	60	.576	266
6	51806	45	.411	85	51606	45	.447	110	51406	45	.492	148	51206	60	.579	204	51106	60	.651	308
7	51807	45	.411	97	51607	45	.447	127	51407	45	.492	171	51207	60	.579	254	51107	60	.651	357
8	51808	45	.438	108	51608	45	.476	142	51408	60	.555	208	51208	60	.617	285	51108	60	.695	403
9	51809	45	.459	120	51609	45	.500	158	51409	60	.582	230	51209	60	.647	316	51109	60	.730	448
10	51810	45	.479	131	51610	60	.553	188	51410	60	.607	252	51210	60	.676	347	51110	60	.763	493
12	51812	60	.545	169	51612	60	.593	219	51412	60	.652	294	51212	60	.727	407	51112	80	.863	615
15	51815	60	.594	202	51615	60	.648	264	51415	60	.715	357	51215	60	.799	498	51115	80	.945	751
19	51819	60	.653	246	51619	60	.713	323	51419	60	.788	440	51219	80	.922	652	51119	80	1.042	929
25	51825	60	.732	310	51625	60	.801	411	51425	80	.927	598	51225	80	1.036	833	51125	80	1.210	1180