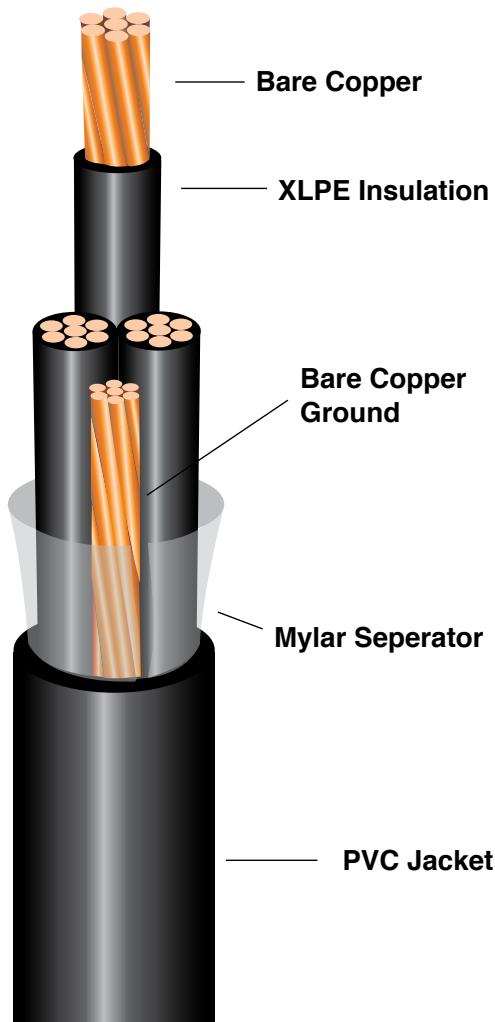


## TYPE TC-ER - CONTROL & POWER TRAY CABLE

XLPE Insulation with Overall PVC Jacket

12 - 2 AWG • 600/1000 Volts • 90°C Dry/Wet



### CABLE IDENTIFICATION

"ADVANCED DIGITAL CABLE, INC. XX AWG  
XX TYPE XHHW-2 CDRS W/ GRND (UL) TYPE  
TC OR TC-ER-JP 90C SUN RES DIR BUR  
1000V FT4/IEEE1202 E195597 MADE IN USA"



### DESCRIPTION

ADC's Type TC-ER cables have a XLPE insulation with an overall gas and oil resistant Polyvinyl Chloride (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 to supply power motors or for connection to other power devices.

### CONSTRUCTION

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

**Insulation:** XLPE Thickness: Per UL 44 table 12 for XHHW-2.

**Grounding Conductor:** Concentric Stranded Bare Copper

\*Insulated Ground Available Upon Request

**Cabling:** Three or more conductors are assembled with fillers in the core as needed. Two conductors are assembled flat parallel or round with fillers as needed.

**Separator:** Mylar

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

**Color Code:** ICEA Method 1, Table E-2. 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

Conductors are VW-1 Rated

\*UL 1277 requires a ground or three conductors to be rated ER



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Conductor Data			
Size AWG	Strands No. / O.D.	XLPE Insulation Thickness (Mils)	Approximate O.D. (Inches)
12	7	30	.152
10	7	30	.175
8	7	45	.236
6	7	45	.274
4	7	45	.322
2	7	45	.382

Cable Data					
8 AWG - 2 AWG					
Size AWG	Part Number	Number of Conductors	Overall Jacket Thickness (Mils)	Approximate O.D. (IN)	Approximate Weight Lbs./M Ft.
8	50802F	2 FL	60	.356x.592	192
	50802	2	60	.596	194
	50803	3	60	.636	260
	50804	4	60	.695	334
6	50602F	2 FL	60	.394x.668	264
	50602	2	60	.672	266
	50603	3	60	.718	370
	50604	4	60	.787	475
4	50402F	2 FL	60	.442x.764	379
	50402	2	60	.768	383
	50403	3	80	.862	570
	50404	4	80	.943	733
2	50202F	2 FL	80	.542x.924	590
	50202	2	80	.930	596
	50203	3	80	.994	837
	50204	4	80	1.089	1085

Cable Data					
12 AWG - 2 AWG w/Bare Ground Wire					
Size AWG	Part Number	Number of Conductors	Overall Jacket Thickness (Mils)	Approximate O.D. (IN)	Approximate Weight Lbs./M Ft.
12 w/12 AWG Ground	5202B	2	45	.398	104
	5203B	3	45	.423	131
	5204B	4	45	.461	161
10 w/10 AWG Ground	5102B	2	45	.446	146
	5103B	3	45	.475	187
	5104B	4	60	.549	245
8 w/10 AWG Ground	50802B	2	60	.596	225
	50803B	3	60	.636	293
	50804B	4	60	.695	363
6 w/8 AWG Ground	50602B	2	60	.672	318
	50603B	3	60	.718	420
	50604B	4	60	.787	525
4 w/8 AWG Ground	50402B	2	60	.768	434
	50403B	3	80	.862	622
	50404B	4	80	.943	783
2 w/6 AWG Ground	50202B	2	80	.930	678
	50203B	3	80	.994	917
	50204B	4	80	1.089	1164

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 IC0221

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