



TRAY CABLE

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SPECIALTY WIRE



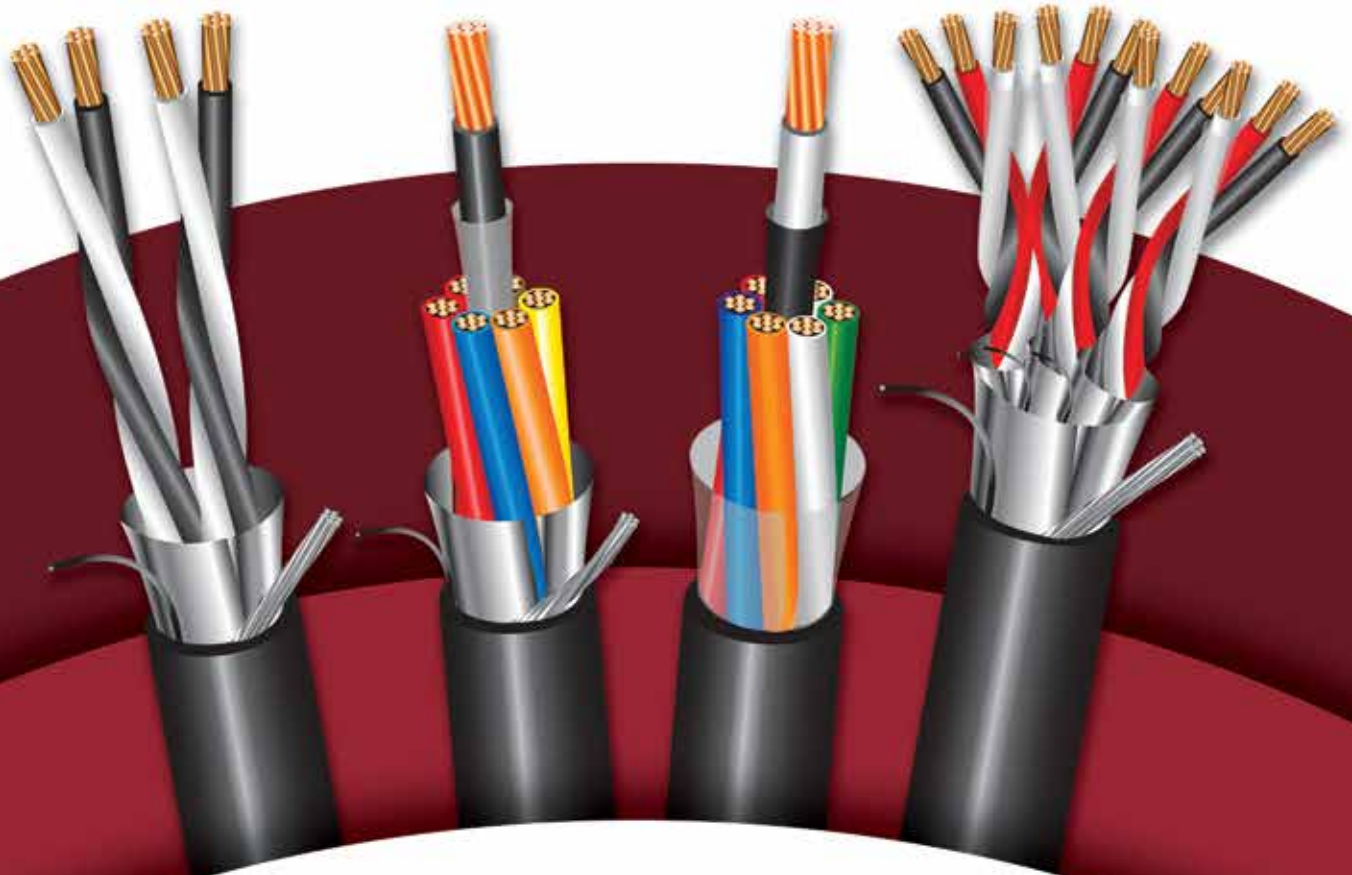
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ADVANCED DIGITAL CABLE INC.

TRAY CABLE



Instrumentation Tray Cable

PLTC/ITC-ER.....	4
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Control and Power Tray Cable

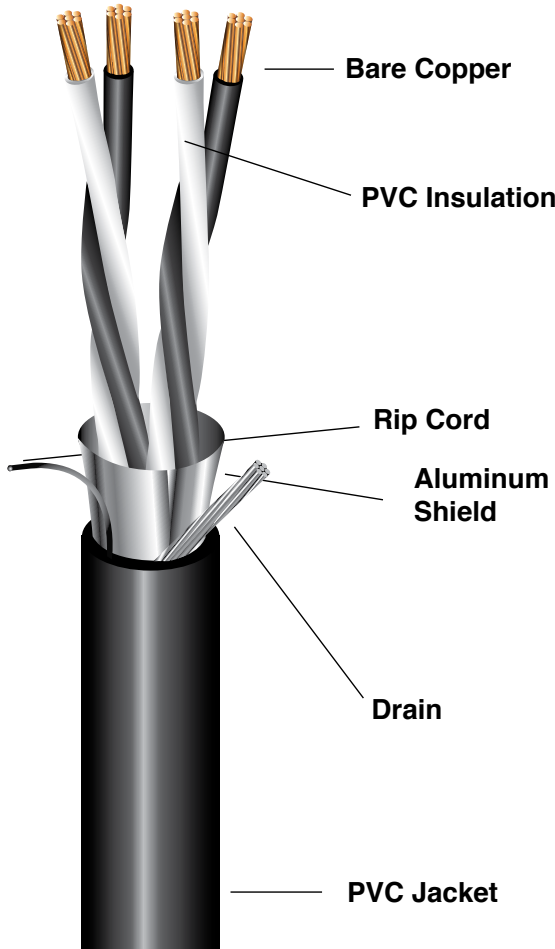
THHN/PVC TC-ER.....	18
XLP/PVC.....	24
XLP/CPE.....	30

Specialty Control Cable

20-10 Control	34
Metering	36
Wind Turbine Cable	38

TYPE PLTC/ITC-ER - INSTRUMENTATION TRAY CABLE

Pairs with Overall Shield PVC Insulation with Overall PVC Jacket
20 - 16 AWG • 300 Volts • 105°C



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC. XX
 AWG X PR OS (UL) TYPE PLTC/ITC-ER
 105C 300V E179334 SUN RES DIR BUR
 FT4/IEEE1202”



DESCRIPTION

ADC's Type PLTC/ITC-ER pairs with an overall shield have a PVC insulation with an overall sunlight resistant PVC jacket.

APPLICATIONS

Class 1 Division 2 Industrial Hazardous Locations. For use in cable tray, raceway and conduit. For use with audio, intercom, control, energy management, and alarm circuits. For use where sunlight resistance is required.

CONSTRUCTION

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

Insulation: PVC Thickness: Per UL 13 Table 7.3

Cabling: Pairs are cabled with staggered lays.

Overall Shield: Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

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: Method 1 - Black and White (White conductor in each pair printed alphanumerically for easy identification)

INDUSTRY LISTINGS & STANDARDS

UL Listed as PLTC/ITC per UL Standard 13 and 2250
 Rated -25°C to 105°C
 Direct Burial
 OSHA Acceptable
 NEC Article 725
 CSA FT4
 IEEE1202 70,000 BTU Flame Test
 ASTM - All Applicable Standards
 ICEA S-73-532



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 IC1115

PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

TYPE PLTC/ITC-ER - INSTRUMENTATION TRAY CABLE

Pairs with Overall Shield PVC Insulation with Overall PVC Jacket
20 - 16 AWG • 300 Volts • 105°C

Conductor Data

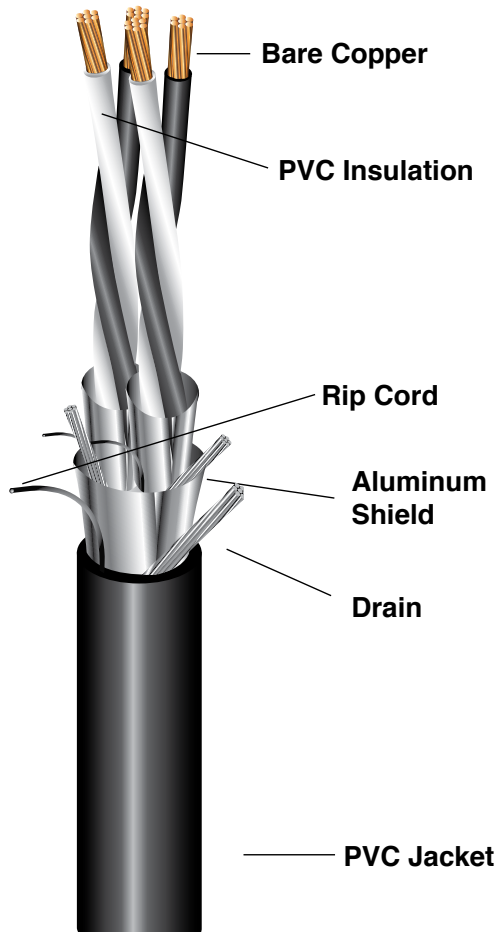
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Approximate O.D. (Inches)
20	7	15	.068
18	7	15	.076
16	7	15	.087

Cable Data

20 AWG					18 AWG					16 AWG				
No. of Pairs	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Pairs.	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Pairs.	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.
1	12001POS	35	.210	23	1	18001POS	35	.225	28	1	16001POS	35	.250	37
2	12002POS	35	.253	35	2	18002POS	40	.349	52	2	16002POS	40	.313	60
4	12004POS	50	.422	77	4	18004POS	50	.460	97	4	16004POS	50	.509	127
8	12008POS	50	.530	127	8	18008POS	50	.575	162	8	16008POS	60	.680	233
12	12012POS	60	.640	189	12	18012POS	60	.710	245	12	16012POS	60	.716	328
16	12016POS	60	.732	235	16	18016POS	60	.810	304	16	16016POS	70	.922	438

TYPE PLTC/ITC-ER - INSTRUMENTATION TRAY CABLE

Shielded Pairs with Overall Shield PVC Insulation with Overall PVC Jacket
20 - 16 AWG • 300 Volts • 105°C



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC. XX
 AWG X PR SPOS (UL) TYPE PLTC/ITC-ER
 105C 300V E179334 SUN RES DIR BUR
 FT4 IEEE1202”



DESCRIPTION

ADC's Type PLTC/ITC-ER shielded pairs with an overall shield have PVC insulation with an overall sunlight resistant PVC jacket.

APPLICATIONS

Class 1 Division 2 Industrial Hazardous Locations. For use in cable tray, raceway and conduit. For use with audio, intercom, control, energy management, and alarm circuits. For use where sunlight resistance is required.

CONSTRUCTION

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

Insulation: **PVC** Thickness: Per UL 13 Table 7.3

Cabling: Pairs are cabled with staggered lays and wrapped with a foil free edge aluminum mylar tape. A stranded tinned copper drain wire is pulled in under each tape.

Overall Shield: Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

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: Method 1 - Black and White (White conductor in each pair printed alphanumerically for easy identification)

INDUSTRY LISTINGS & STANDARDS

UL Listed as PLTC/ITC per UL Standard 13 and 2250
 Rated -25°C to 105°C
 Direct Burial
 OSHA Acceptable
 NEC Article 725
 CSA FT4
 IEEE1202 70,000 BTU Flame Test
 ASTM - All Applicable Standards
 ICEA S-73-532



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PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

TYPE PLTC/ITC-ER - INSTRUMENTATION TRAY CABLE

Shielded Pairs with Overall Shield PVC Insulation with Overall PVC Jacket
20 - 16 AWG • 300 Volts • 105°C

Conductor Data

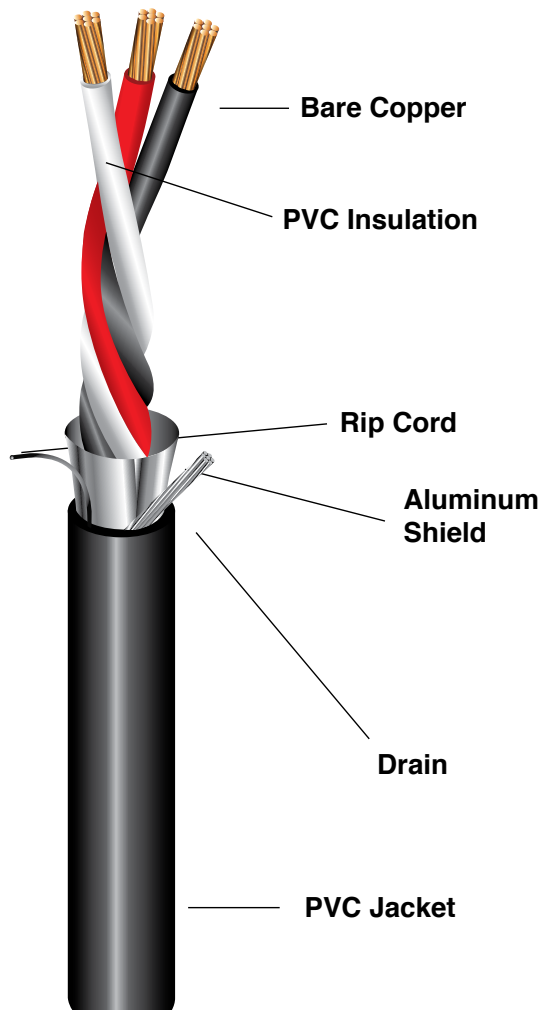
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Approximate O.D. (Inches)
20	7	15	.068
18	7	15	.076
16	7	15	.087

Cable Data

20 AWG					18 AWG					16 AWG				
No. of Pairs	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Pairs.	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Pairs.	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.
	12002SPOS	35	.253	39	2	18002SPOS	40	.362	61	2	16002SPOS	35	.305	66
4	12004SPOS	50	.422	82	4	18004SPOS	50	.465	106	4	16004SPOS	50	.515	137
8	12008SPOS	50	.532	139	8	18008SPOS	50	.590	184	8	16008SPOS	60	.680	254
12	12012SPOS	60	.648	206	12	18012SPOS	60	.718	272	12	16012SPOS	60	.800	359
16	12016SPOS	60	.732	262	16	18016SPOS	60	.810	347	16	16016SPOS	70	.922	479

TYPE PLTC/ITC-ER - INSTRUMENTATION TRAY CABLE

Triads with Overall Shield PVC Insulation with Overall PVC Jacket
20 - 16 AWG • 300 Volts • 105°C



CABLE IDENTIFICATION

"ADVANCED DIGITAL CABLE INC. XX
 AWG X PR SPOS (UL) TYPE PLTC/ITC-ER
 105C 300V E179334 SUN RES DIR BUR
 FT4 IEEE1202"



DESCRIPTION

ADC's Type PLTC/ITC-ER triads with an overall shield have a PVC insulation, aluminum tape shield with drain wire and an overall sunlight resistant PVC jacket.

APPLICATIONS

Class 1 Division 2 Industrial Hazardous Locations. For use in cable tray, raceway and conduit. For use with audio, intercom, control, energy management, and alarm circuits. For use where sunlight resistance is required.

CONSTRUCTION

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

Insulation: PVC Thickness: Per UL 13 Table 7.3

Cabling: Triads are cabled with staggered lay.

Overall Shield: Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

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: Method 1 - Black, White and Red (White conductor in each triad printed alphanumerically for easy identification)

INDUSTRY LISTINGS & STANDARDS

UL Listed as PLTC/ITC per UL Standard 13 and 2250
 Rated -25°C to 105°C
 Direct Burial
 OSHA Acceptable
 NEC Article 725
 CSA FT4
 IEEE1202 70,000 BTU Flame Test
 ASTM - All Applicable Standards



TYPE PLTC/ITC-ER - INSTRUMENTATION TRAY CABLE

Triads with Overall Shield PVC Insulation with Overall PVC Jacket
20 - 16 AWG • 300 Volts • 105°C

Conductor Data

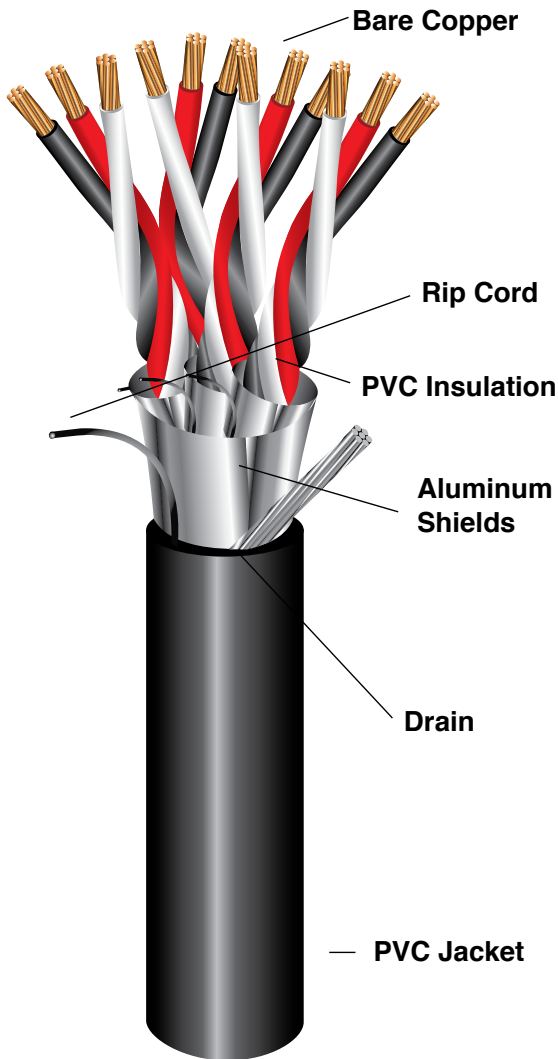
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Approximate O.D. (Inches)
20	7	15	.068
18	7	15	.076
16	7	15	.087

Cable Data

20 AWG					18 AWG					16 AWG				
No. of Triads	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Triads	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Triads.	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.
1	12001TOS	35	.221	33	1	18001TOS	35	.238	39	1	16001TOS	35	.261	51
2	12002TOS	40	.360	61	2	18002TOS	50	.420	82	2	16002TOS	50	.463	107
4	12004TOS	50	.445	105	4	18004TOS	50	.490	130	4	16004TOS	50	.540	175
8	12008TOS	50	.560	176	8	18008TOS	60	.642	237	8	16008TOS	60	.715	325
12	12012TOS	60	.685	260	12	18012TOS	60	.759	333	12	16012TOS	60	.842	462

TYPE PLTC/ITC-ER - INSTRUMENTATION TRAY CABLE

Shielded Triads with Overall Shield PVC Insulation with Overall PVC Jacket
20 - 16 AWG • 300 Volts • 105°C



CABLE IDENTIFICATION

"ADVANCED DIGITAL CABLE INC. XX
 AWG X TRIAD STOS (UL) TYPE PLTC/ITC-
 ER 105C 300V E179334 SUN RES DIR
 BUR FT4 IEEE1202"



DESCRIPTION

ADC's Type PLTC/ITC-ER shielded triads with an overall shield have a PVC insulation with an overall sunlight resistant PVC jacket.

APPLICATIONS

Class 1 Division 2 Industrial Hazardous Locations. For use in cable tray, raceway and conduit. For use with audio, intercom, control, energy management, and alarm circuits. For use where sunlight resistance is required.

CONSTRUCTION

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

Insulation: Thickness: Per UL 13 Table 7.3

Cabling: Triads are cabled with staggered lays and wrapped with a foil free edge aluminum mylar tape. A stranded tinned copper drain wire is under each tape.

Overall Shield: Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

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: Method 1 - Black, White and Red (White conductor in each triad printed alphanumerically for easy identification)

INDUSTRY LISTINGS & STANDARDS

UL Listed as PLTC/ITC per UL Standard 13 and 2250
 Rated -25°C to 105°C
 Direct Burial
 OSHA Acceptable
 NEC Article 725
 CSA FT4
 IEEE1202 70,000 BTU Flame Test
 ASTM - All Applicable Standards



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PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

TYPE PLTC/ITC-ER - INSTRUMENTATION TRAY CABLE

Shielded Triads with Overall Shield PVC Insulation with Overall PVC Jacket
20 - 16 AWG • 300 Volts • 105°C

Conductor Data			
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Approximate O.D. (Inches)
20	7	15	.068
18	7	15	.076
16	7	15	.087

Cable Data														
20 AWG					18 AWG					16 AWG				
No. of Triads	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Triads	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Triads	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.
2	12002STOS	40	.372	61	2	18002STOS	50	.422	87	2	16002STOS	50	.472	114
4	12004STOS	50	.449	104	4	18004STOS	50	.486	138	4	16004STOS	50	.559	189
8	12008STOS	50	.567	176	8	18008STOS	60	.642	253	8	16008STOS	60	.719	353
12	12012STOS	60	.690	260	12	18012STOS	60	.758	356	12	16012STOS	60	.840	504

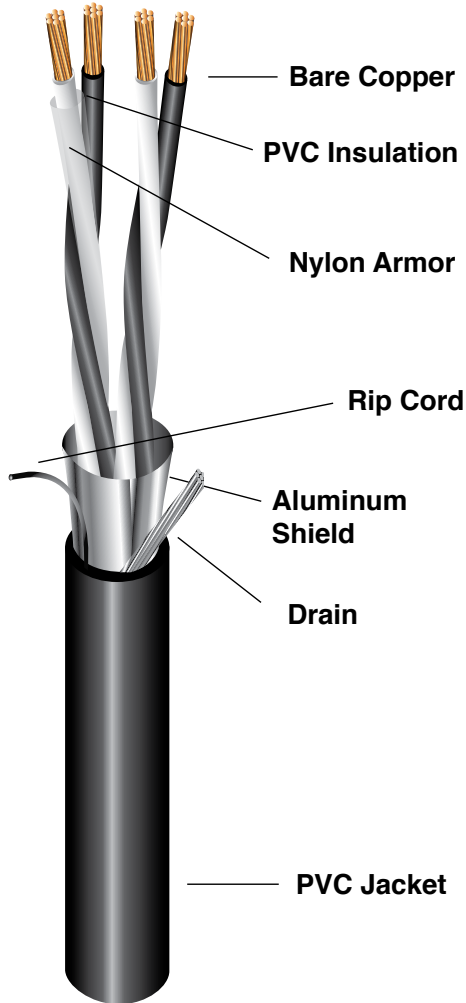


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PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

TYPE TC-ER - INSTRUMENTATION TRAY CABLE

Pairs with Overall Shield PVC/Nylon Insulation with Overall PVC Jacket
18 - 16 AWG • 600 Volts • 90°C Dry/Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC. XX
 AWG X TYPE TFN PAIRS WITH OVERALL
 SHIELD (UL) TYPE TC OR TC-ER-JP 90C
 SUN RES DIR BUR 600V FT4/IEEE1202
 E195597 MADE IN THE USA”



DESCRIPTION

ADC's Type TC-ER pairs with an overall shield have a PVC/ Nylon 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.

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: PVC Thickness: Per UL 66 Table 4.7

Conductor Jacket: Nylon Thickness: Per UL 66 paragraph 9.1

Cabling: Pairs are cabled with a staggered lay and cabled together

Overall Shield: Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

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: Method 1 - Black and White (White conductor in each pair printed alphanumerically for easy identification)

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

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



TYPE TC-ER - INSTRUMENTATION TRAY CABLE

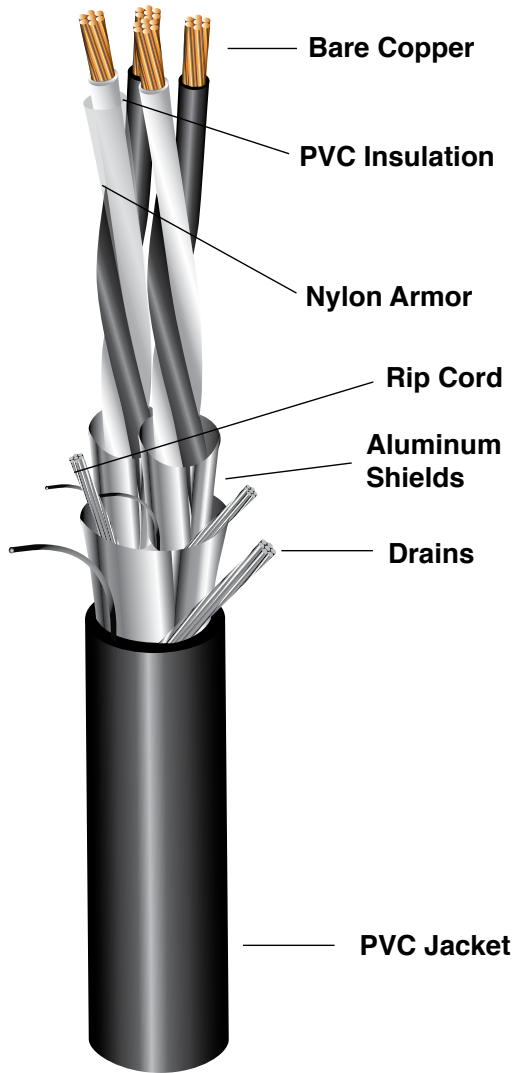
Pairs with Overall Shield PVC/Nylon Insulation with Overall PVC Jacket
18 - 16 AWG • 600 Volts • 90°C Dry/Wet

Conductor Data				
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Nylon Armor (Mils)	Approximate O.D. (Inches)
18	7	15	5	.088
16	7	15	5	.097

Cable Data									
18 AWG					16 AWG				
No. of Pairs	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	No. of Pairs.	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.
1	6801POS	45	.265	35	1	6601POS	45	.290	45
2	6802POS	45	.310	54	2	6602POS	45	.330	70
3	6803POS	45	.407	77	3	6603POS	45	.360	95
4	6804POS	45	.488	99	4	6604POS	60	.573	147
6	6806POS	60	.550	146	6	6606POS	60	.610	195
8	6808POS	60	.651	188	8	6608POS	60	.730	252
12	6812POS	60	.770	261	12	6612POS	80	.910	387
16	6816POS	80	.914	364	16	6616POS	80	1.020	491

TYPE TC-ER - INSTRUMENTATION TRAY CABLE

Shielded Pairs with Overall Shield PVC/Nylon Insulation with Overall PVC Jacket
18 - 16 AWG • 600 Volts • 90°C Dry/Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE, INC. XX
 AWG XX TYPE TFN SPOS (UL) TYPE TC
 OR TC-ER-JP 90C SUN RES DIR BUR
 600V FT4/IEEE1202 E195597 MADE IN
 USA”



DESCRIPTION

ADC's Type TC-ER shielded pairs with an overall shield have a PVC/Nylon 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.

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: PVC Thickness: Per UL 66 Table 4.7

Conductor Jacket: Nylon Thickness: Per UL 66 paragraph 9.1

Cabling: Pairs are cabled with stagger lays and wrapped with foil free edge aluminum mylar tape with a flexible tinned copper drain wire.

Overall Shield: Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

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: Method 1 - Black and White (White conductor in each pair printed alphanumerically for easy identification)

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



TYPE TC-ER - INSTRUMENTATION TRAY CABLE

Shielded Pairs with Overall Shield PVC/Nylon Insulation with Overall PVC Jacket
18 - 16 AWG • 600 Volts • 90°C Dry/Wet

Conductor Data				
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Nylon Armor (Mils)	Approximate O.D. (Inches)
18	7	15	5	.086
16	7	15	5	.097

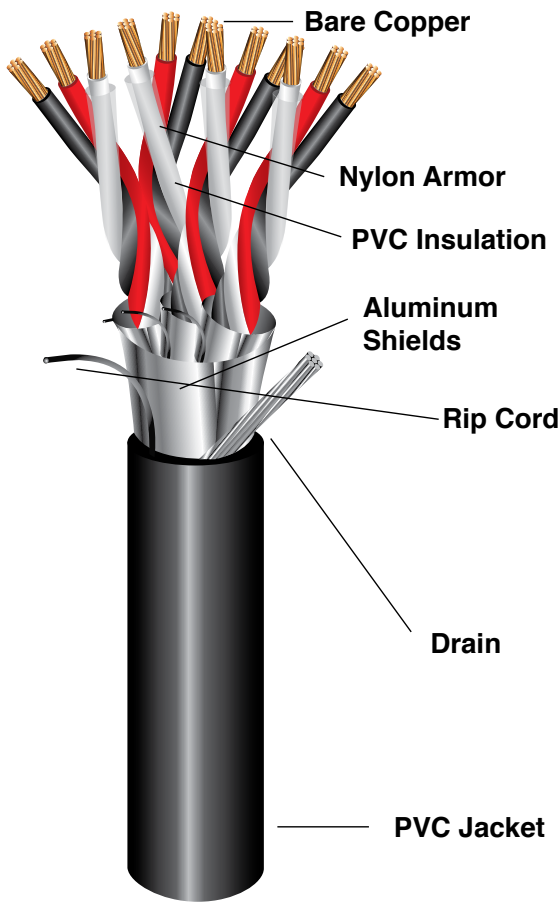
Cable Data									
18 AWG					16 AWG				
No. of Pairs	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./M Ft.	No. of Pairs.	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./M Ft.
2	6802SPOS	45	.305	57	2	6602SPOS	45	.345	76
3	6803SPOS	45	.453	80	3	6603SPOS	45	.367	102
4	6804SPOS	45	.497	99	4	6604SPOS	60	.580	158
6	6806SPOS	60	.561	163	6	6606SPOS	60	.620	212
8	6808SPOS	60	.666	211	8	6608SPOS	60	.740	275
12	6812SPOS	60	.790	294	12	6612SPOS	80	.916	421
16	6816SPOS	80	.929	411	16	6616SPOS	80	1.034	537

INSTRUMENTATION TRAY CABLE



TYPE TC-ER - INSTRUMENTATION TRAY CABLE

Shielded Triads with Overall Shield PVC/Nylon Insulation with Overall PVC Jacket
18 - 16 AWG • 600 Volts • 90°C Dry/Wet



CABLE IDENTIFICATION

"ADVANCED DIGITAL CABLE, INC. XX
 AWG XX TYPE TFN STOS (UL) TYPE TC
 OR TC-ER-JP 90C SUN RES DIR BUR
 600V FT4/IEEE1202 E195597 MADE IN
 USA"



DESCRIPTION

ADC's Type TC-ER shielded pairs with an overall shield have a PVC/Nylon 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.

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: PVC Thickness: Per UL 66 table 4.7 for TFN.

Conductor Jacket: Nylon Thickness: Per UL 66 paragraph 9.1 for TFN.

Cabling: Triads are cabled with staggered lays and wrapped with a foil free edge aluminum mylar tape. A stranded tinned copper drain wire is under each tape.

Overall Shield: Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

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: Method 1 - Black, White and Red (White conductor in each triad printed alphanumerically for easy identification)

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



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PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

TYPE TC-ER - INSTRUMENTATION TRAY CABLE

Shielded Triads with Overall Shield PVC/Nylon Insulation with Overall PVC Jacket
18 - 16 AWG • 600 Volts • 90°C Dry/Wet

Conductor Data				
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Nylon Armor (Mils)	Approximate O.D. (Inches)
18	7	15	5	.086
16	7	15	5	.098

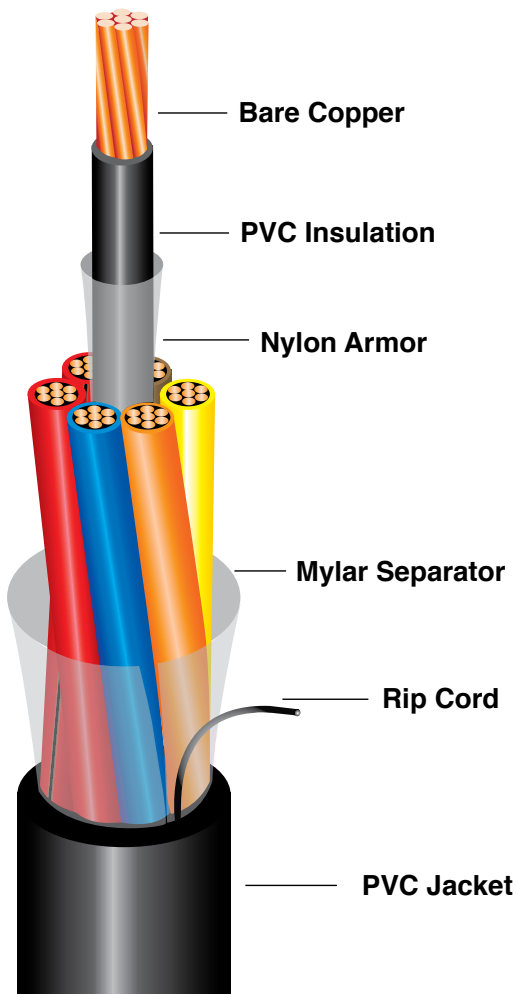
Cable Data									
18 AWG					16 AWG				
No. of Triads	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./M Ft.	No. of Triads	Part Number	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./M Ft.
1	6801TOS	45	.279	45	1	6601TOS	45	.307	57
4	6804STOS	60	.557	157	4	6604STOS	60	.623	207
8	6808STOS	60	.707	275	8	6608STOS	60	.795	368
12	6812STOS	80	.862	419	12	6612STOS	80	.984	561



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

TYPE TC-ER - CONTROL & POWER TRAY CABLE

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



CABLE IDENTIFICATION

18-16 AWG

"ADVANCED DIGITAL CABLE, INC. XX AWG
 XX TYPE TFN CDRS (UL) TYPE TC OR TC-
 ER-JP 90C SUN RES DIR BUR 600V FT4/
 IEEE1202 E195597 MADE IN USA"

14-10 AWG

"ADVANCED DIGITAL CABLE, INC. XX AWG
 XX TYPE THHN CDRS (UL) TYPE TC OR TC-
 ER-JP 90C SUN RES DIR BUR 600V FT4/
 IEEE1202 E195597 MADE IN USA"



DESCRIPTION

ADC's Type TC-ER multi-conductor cables have a PVC/Nylon 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: PVC Thickness: Per UL 83 table 10 for THHN/THWN, UL 66 table 4.7 for TFN.

Conductor Jacket: Nylon Thickness: Per UL 83 table 13 for THHN/THWN, UL 66 paragraph 9.1 for TFN.

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. 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, Table E-2 Standard. 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

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



TYPE TC-ER - CONTROL & POWER TRAY CABLE

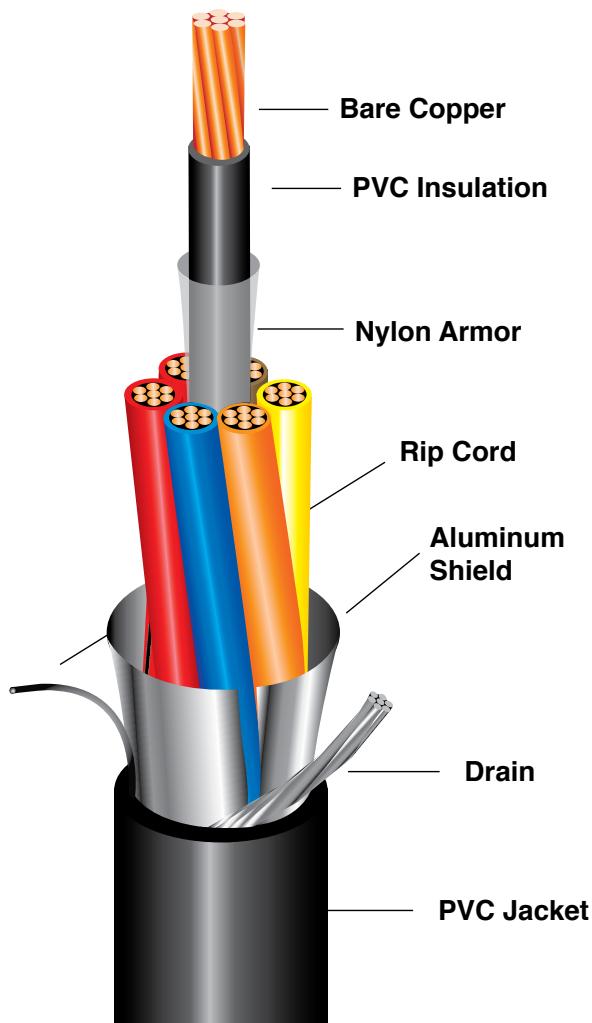
Unshielded PVC/Nylon Insulation with Overall PVC Jacket
18 - 10 AWG • 600 Volts • 90°C Dry/Wet

Conductor Data				
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Nylon Armor (Mils)	Approximate O.D. (Inches)
18	7	15	5	.086
16	7	15	5	.097
14	7	15	5	.111
12	7	15	5	.132
10	7	20	5	.166

Cable Data																				
18 AWG					16 AWG				14 AWG				12 AWG				10 AWG			
# of CDS	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 Flat	6802F	45	.176x .262	41	6602F	45	.188x .286	49	6402F	45	.203x .316	64	6202F	45	.222x .360	83	6102F	45	.257x .424	115
2 Round	6802	45	.266	46	6602	45	.290	54	6402	45	.320	71	6202	45	.358	92	6102	45	.428	127
3	6803	45	.279	50	6603	45	.305	66	6403	45	.337	87	6203	45	.378	113	6103	45	.453	167
3 w/Grd	6803B	45	.279	55	6603B	45	.305	74	6403B	45	.337	99	6203B	45	.378	133	6103B	45	.453	197
4	6804	45	.301	60	6604	45	.330	79	6404	45	.366	107	6204	45	.412	145	6104	45	.496	212
5	6805	45	.322	71	6605	45	.359	94	6405	45	.399	129	6205	45	.450	175	6105	60	.575	269
6	6806	45	.348	85	6606	45	.388	109	6406	45	.433	147	6206	45	.490	199	6106	60	.625	317
7	6807	45	.348	89	6607	45	.388	118	6407	45	.433	162	6207	45	.490	223	6107	60	.625	352
8	6808	45	.375	99	6608	45	.418	133	6408	45	.468	184	6208	60	.561	268	6108	60	.697	399
9	6809	45	.405	112	6609	45	.449	147	6409	45	.503	221	6209	60	.602	304	6109	60	.727	445
10	6810	45	.435	121	6610	45	.486	162	6410	60	.576	237	6210	60	.652	327	6110	60	.792	490
12	6812	45	.451	156	6612	45	.501	202	6412	60	.593	281	6212	60	.672	388	6112	60	.817	579
15	6815	45	.498	169	6615	60	.585	243	6415	60	.655	340	6215	60	.744	466	6115	80	.949	750
19	6819	60	.554	220	6619	60	.614	296	6419	60	.689	408	6219	60	.784	581	6119	80	.999	918
25	6825	60	.640	279	6625	60	.712	379	6425	60	.802	526	6225	80	.956	796	6125	80	1.150	1122

TYPE TC-ER - CONTROL & POWER TRAY CABLE

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



CABLE IDENTIFICATION

18-16 AWG

"ADVANCED DIGITAL CABLE, INC. XX AWG
 XX TYPE TFN CDRS SHLD (UL) TYPE TC OR
 TC-ER-JP 90C SUN RES DIR BUR 600V FT4/
 IEEE1202 E195597 MADE IN USA"

14-10 AWG

"ADVANCED DIGITAL CABLE, INC. XX AWG
 XX TYPE THHN CDRS SHLD (UL) TYPE TC OR
 TC-ER-JP 90C SUN RES DIR BUR 600V FT4/
 IEEE1202 E195597 MADE IN USA"



DESCRIPTION

ADC's Type TC-ER shielded multi-conductor cables have a PVC/Nylon insulation, aluminum shield and drain wire with an overall gas and oil resistant PVC jacket.

APPLICATIONS

Appropriate for use where shielding from electro-static interference is required in power, control and lighting circuits in a broad range of commercial and industrial 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.

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: PVC Thickness: Per UL 83 table 10 for THHN/THWN, UL 66 table 4.7 for TFN.

Conductor Jacket: Nylon Thickness: Per UL 83 table 13 for THHN/THWN, UL 66 paragraph 9.1 for TFN.

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

Overall Shield: Aluminum mylar tape providing 100% coverage with a flexible stranded tinned copper drain wire.

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, Table E-2 Standard. 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
 *UL 1277 requires a ground or three conductors to be rated ER



TYPE TC-ER - CONTROL & POWER CABLE

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

Conductor Data				
Size AWG	Stranding	PVC Insulation Thickness (Mils)	Nylon Armor (Mils)	Approximate O.D. (Inches)
18	7	15	5	.086
16	7	15	5	.098
14	7	15	5	.113
12	7	15	5	.132
10	7	20	5	.167

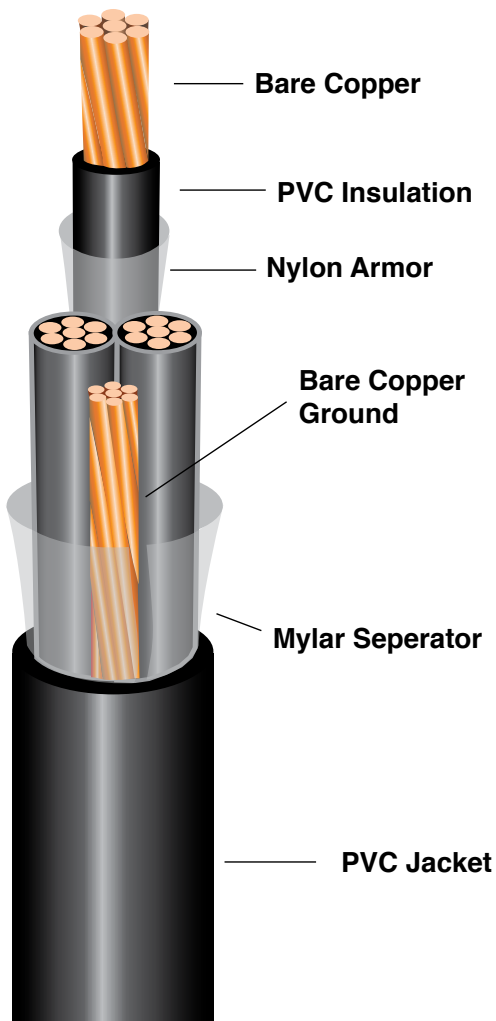
Cable Data																				
18 AWG					16 AWG				14 AWG				12 AWG				10 AWG			
# of CDRS	Part #	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part #	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part #	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	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	6802SD	45	.266	54	6602SD	45	.290	62	6402SD	45	.320	85	6202SD	45	.358	107	6102SD	45	.428	142
3	6803SD	45	.279	62	6603SD	45	.305	80	6403SD	45	.337	102	6203SD	45	.378	128	6103SD	45	.453	182
4	6804SD	45	.301	72	6604SD	45	.330	94	6404SD	45	.366	122	6204SD	45	.412	160	6104SD	45	.496	227
5	6805SD	45	.322	83	6605SD	45	.359	109	6405SD	45	.399	144	6205SD	45	.450	195	6105SD	60	.575	284
6	6806SD	45	.348	97	6606SD	45	.388	124	6406SD	45	.433	162	6206SD	60	.490	219	6106SD	60	.625	332
7	6807SD	45	.348	101	6607SD	45	.388	132	6407SD	45	.433	180	6207SD	60	.490	243	6107SD	60	.625	370
8	6808SD	45	.375	111	6608SD	45	.418	148	6408SD	60	.468	204	6208SD	60	.561	288	6108SD	60	.677	417
9	6809SD	45	.405	124	6609SD	45	.449	162	6409SD	60	.503	241	6209SD	60	.602	324	6109SD	60	.727	463
10	6810SD	45	.435	136	6610SD	60	.486	178	6410SD	60	.576	257	6210SD	60	.652	347	6110SD	80	.792	515
12	6812SD	45	.451	171	6612SD	60	.501	220	6412SD	60	.593	291	6212SD	60	.672	408	6112SD	80	.817	604
15	6815SD	60	.498	198	6615SD	60	.585	262	6415SD	60	.655	360	6215SD	60	.744	486	6115SD	80	.949	780
19	6819SD	60	.554	238	6619SD	60	.614	316	6419SD	60	.689	433	6219SD	80	.784	606	6119SD	80	.999	943
25	6825SD	60	.640	298	6625SD	60	.712	404	6425SD	80	.802	554	6225SD	80	.956	820	6125SD	80	1.16	1130

CONTROL & POWER TRAY CABLE



TYPE TC-ER - CONTROL & POWER TRAY CABLE

PVC/Nylon Insulation with Overall PVC Jacket
8 AWG - 500 MCM • 600 Volts • 90°C Dry/Wet



CABLE IDENTIFICATION

"ADVANCED DIGITAL CABLE, INC. XX AWG
 XX TYPE THHN CDRS W/ GRND (UL) TYPE TC
 OR TC-ER-JP 90C SUN RES DIR BUR 600V
 FT4/IEEE1202 E195597 MADE IN USA"



DESCRIPTION

ADC's Type TC-ER cables constructed in two, three or four conductors have a PVC/Nylon 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 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.

Insulation: PVC Thickness: Per UL 83 table 10 for THHN/THWN.

Conductor Jacket: Nylon Thickness: Per UL 83 table 13 for THHN/THWN.

Grounding Conductor: Concentric Stranded Bare Copper

*Insulated Ground Available Upon Request

Cabling: Two 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



TYPE TC-ER - CONTROL & POWER CABLE

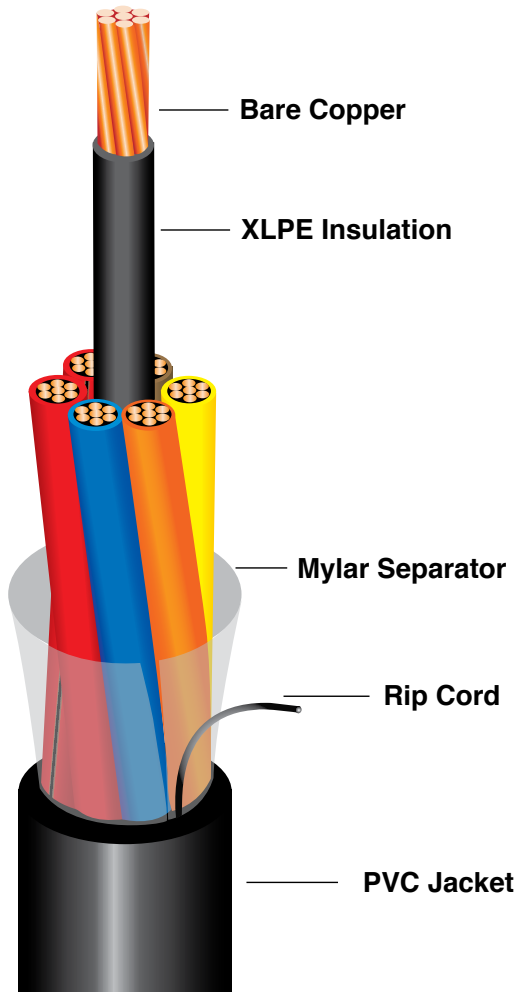
PVC/Nylon Insulation with Overall PVC Jacket
8 AWG - 500 MCM • 600 Volts • 90°C Dry/Wet

Cable Data						
8 AWG - 500 MCM						
Size AWG	Part Number	Number of Conductors	Ground Size AWG	Overall Jacket Thickness (Mils)	Approximate O.D. (IN)	Approximate Weight Lbs./M Ft.
8	60803	3	-	60	.588	248
	60803B	3	10		.588	280
	60804	4	-		.642	318
	60804B	4	10		.642	349
6	60603	3	-	60	.669	355
	60603B	3	8		.669	405
	60604	4	-		.729	456
	60604B	4	8		.729	506
4	60403	3	-	80	.862	580
	60403B	3	8		.862	629
	60404	4	-		.939	745
	60404B	4	8		.939	794
2	60203	3	-	80	.990	844
	60203B	3	6		.990	922
	60204	4	-		1.081	1093
	60204B	4	6		1.081	1171
1	60103	3	-	80	1.125	1068
	60103B	3	6		1.125	1147
	60104	4	-		1.231	1388
	60104B	4	6		1.231	1466
1/0	601003	3	-	80	1.196	1275
	601003B	3	6		1.196	1353
	601004	4	-		1.310	1660
	601004B	4	6		1.310	1738
2/0	602003	3	-	80	1.291	1553
	602003B	3	6		1.291	1631
	602004	4	-		1.416	2027
	602004B	4	6		1.416	2105
3/0	603003	3	-	80	1.399	1896
	603003B	3	4		1.399	2022
	603004	4	-		1.536	2480
	603004B	4	4		1.536	2605
4/0	604003	3	-	80	1.520	2351
	604003B	3	4	80	1.520	2477
	604004	4	-	110	1.730	3178
	604004B	4	4	110	1.730	3303
250	6025003	3	-	110	1.727	2898
	6025003B	3	4		1.727	3024
	6025004	4	-		1.894	3786
	6025004B	4	4		1.894	3911
300	6030003	3	-	110	1.829	3418
	6030003B	3	3		1.829	3577
	6030004	4	-		2.006	4476
	6030004B	4	3		2.006	4635
350	6035003	3	-	110	1.950	3875
	6035003B	3	3		1.950	4033
	6035004	4	-		2.141	5086
	6035004B	4	3		2.141	5245
400	6040003	3	-	110	2.047	4397
	6040003B	3	3		2.047	4556
	6040004	4	-		2.249	5781
	6040004B	4	3		2.249	5940
500	6050003	3	-	110	2.226	5364
	6050003B	3	2		2.226	5563
	6050004	4	-		2.448	7066
	6050004B	4	2		2.448	7265

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

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

PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

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

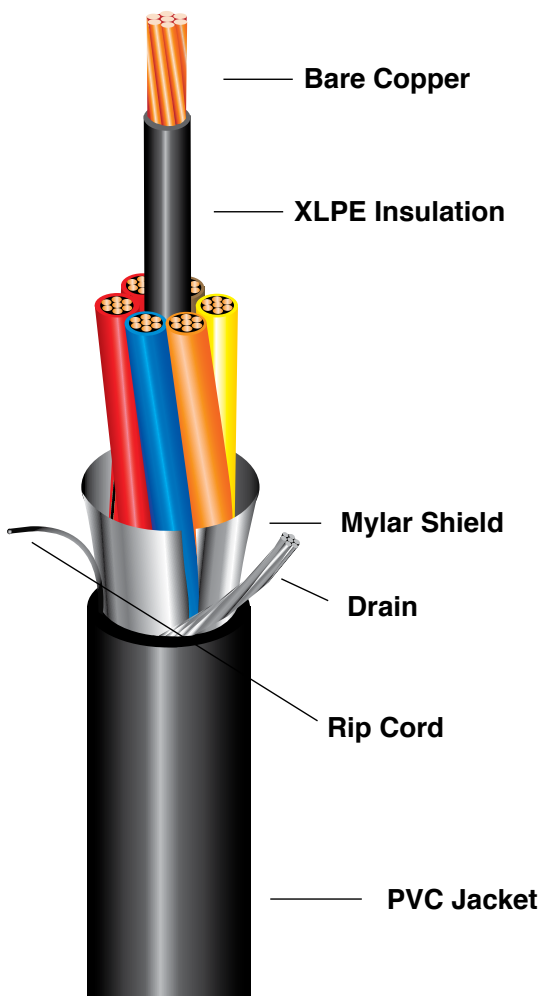
Size AWG	Strands	XLPE Insulation Thickness (Mils)	Approximate O.D. (Inches)
18	7	30	.106
16	7	30	.118
14	7	30	.133
12	7	30	.152
10	7	30	.176

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

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

PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

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

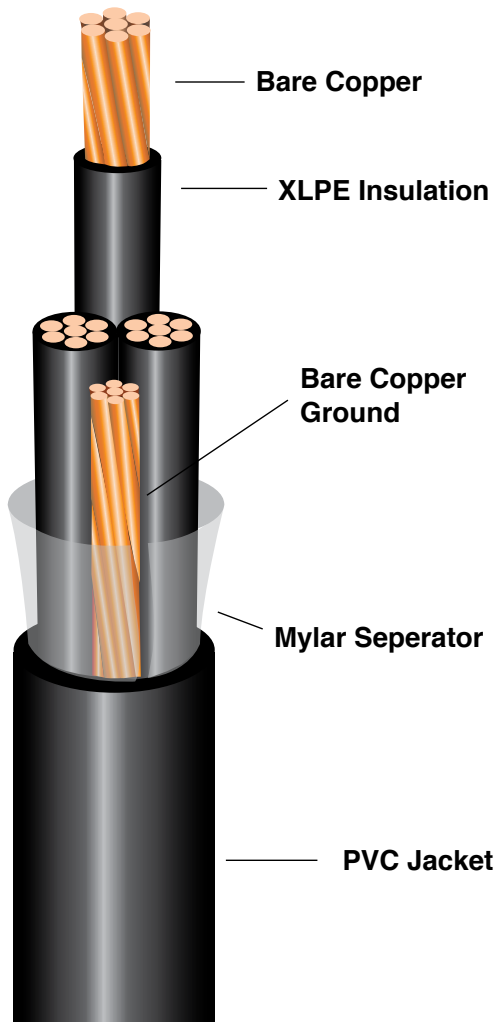
Cable Data

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

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



TYPE TC-ER - CONTROL & POWER TRAY CABLE

XLPE Insulation with Overall PVC Jacket
12 - 2 AWG • 600 Volts • 90°C Dry/Wet

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

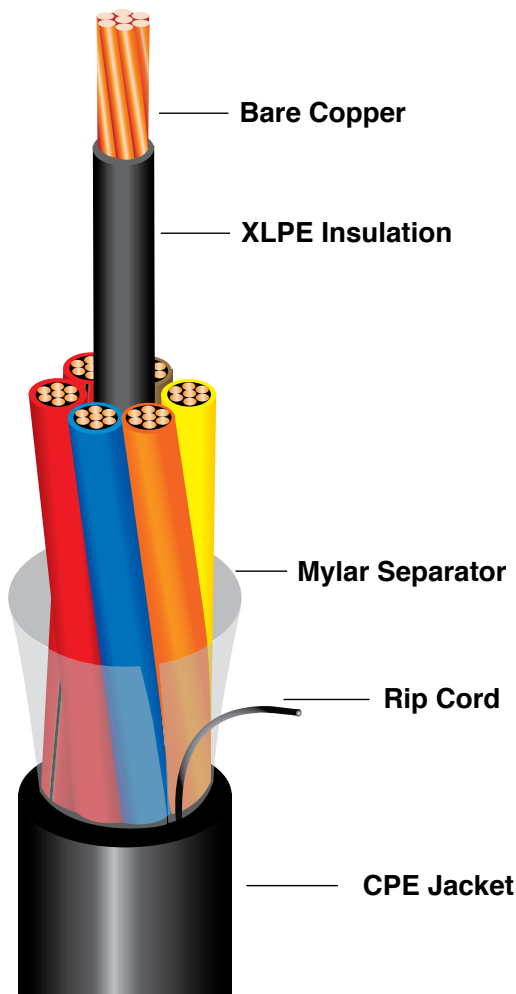
Cable Data					
12 AWG - 2 AWG w/Bare Ground Wire					
Size AWG	Part Number	Number of Conductors	Overall Jacket Thickness (Mils)	Approximate O.D. (IN)	Approximate Weight Lbs./M Ft.
12 w/12 AWG Ground	5202B	2	45	.398	104
	5203B	3	45	.423	131
	5204B	4	45	.461	161
10 w/10 AWG Ground	5102B	2	45	.446	146
	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

PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

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



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

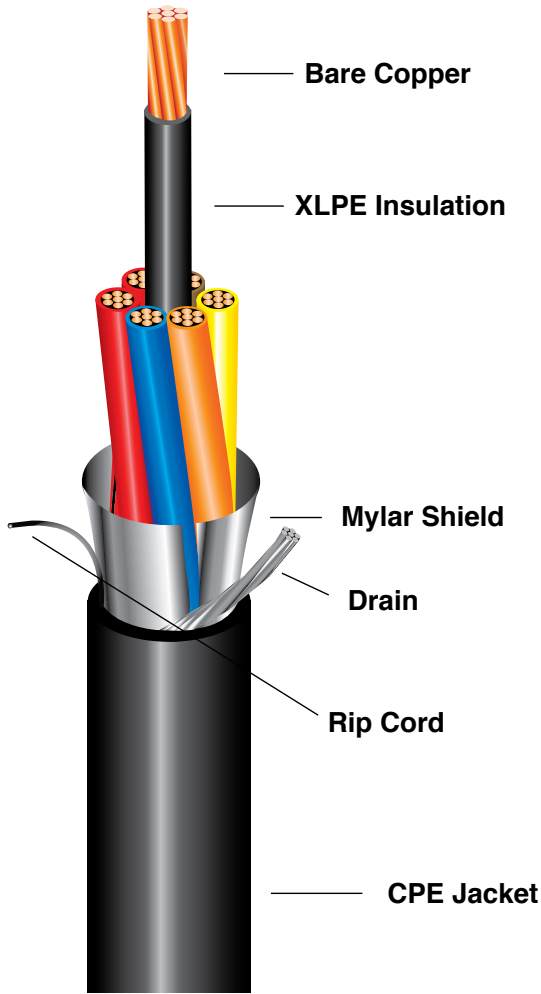
Size AWG	Strands	XLPE Insulation Thickness (Mils)	Approximate O.D. (Inches)
18	7	30	.106
16	7	30	.118
14	7	30	.133
12	7	30	.152
10	7	30	.176

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

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



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

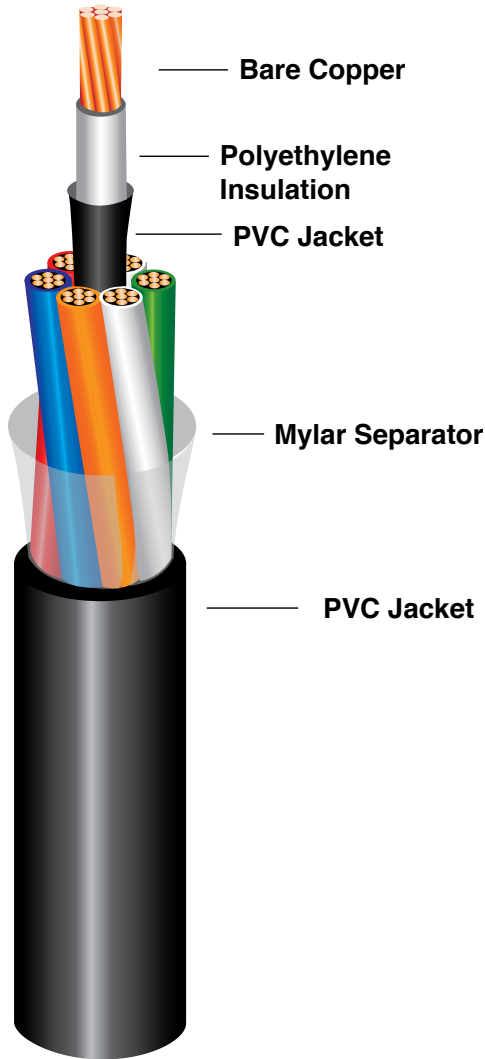
Cable Data																				
18 AWG					16 AWG				14 AWG				12 AWG				10 AWG			
# of COPS	Part #	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./M Ft.	Part #	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./M Ft.	Part #	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./M Ft.	Part #	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

20-10 CONTROL - SPECIALTY CONTROL CABLE

Unshielded/Shielded Polyethylene/PVC Insulation with Overall PVC Jacket
14 - 10 AWG • 600 Volts • 75°C



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE YYYY* XX AWG
 XC PE/PVC 20-10 CONTROL CABLE 600V”

*YYYY Denotes year of manufacture



DESCRIPTION

ADC's 20-10 Control Cable is polyethylene insulated, PVC jacketed conductors cabled together with an overall PVC Jacket.

APPLICATIONS

For use as a general control cable for conveying signals between devices interfaced directly with the electrical power system. Suitable for open air ducts or conduit, tray, and direct burial installation.

CONSTRUCTION

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

Insulation: 20 Mils transparent Linear Low Density Polyethylene

Conductor Jacket: 10 Mils Color Coded PVC

Cabling: 2 conductor assembled flat or round. Three or more conductors cabled with fillers as needed.

Separator: Mylar

Shielded Cables: 5 Mil Corrugated Copper Tape

Overall Jacket: Black Direct Burial PVC. Thickness per ICEA S-73-532/NEMA WC-57 Table 4-1

Color Code: ICEA Method 1, Table E-2 Standard. ICEA Method 1 Tables E-1, E-3 & Method 4.

INDUSTRY LISTINGS & STANDARDS

ANSI/ICEA S-73-532
 NEMA WC 57
 ASTM - All Applicable Standards
 Rated 75°C



20-10 CONTROL - SPECIALTY CONTROL CABLE

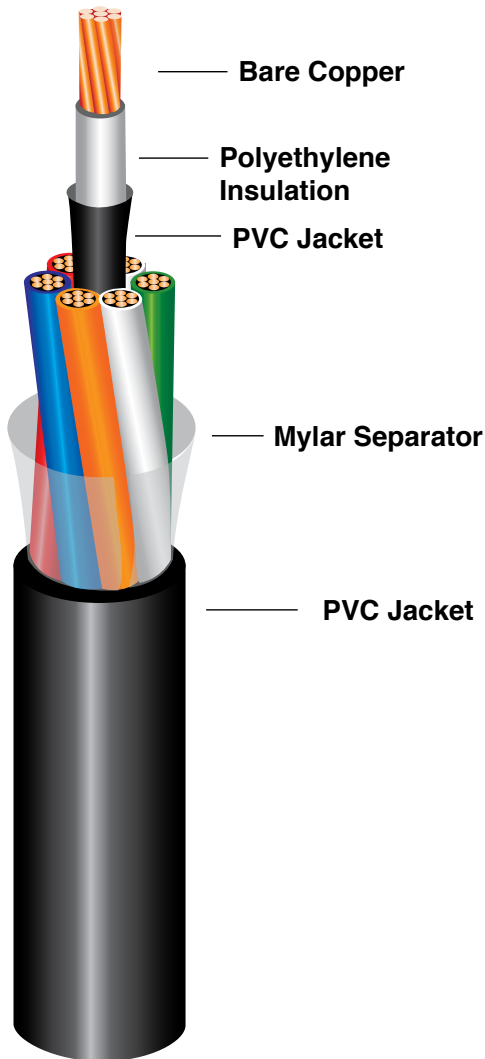
Unshielded/Shielded Polyethylene/PVC Insulation with Overall PVC Jacket
14 - 10 AWG • 600 Volts • 75°C

Unshielded Cable Data												
14 AWG					12 AWG				10 AWG			
# of Conds.	Part No.	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part No.	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part No.	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.
2 Flat	140221F	45	.223x .356	61	120221F	45	.242x .394	80	100221F	45	.266x .442	111
2 Round	140221	45	.355	62	120221	45	.398	82	100221	45	.446	113
3	140321	45	.382	81	120321	45	.423	110	100321	45	.475	154
4	140421	45	.415	101	120421	45	.461	139	100421	60	.549	212
5	140521	45	.435	121	120521	45	.484	167	100521	60	.576	254
6	140621	45	.458	134	120621	45	.491	193	100621	60	.584	294
7	140721	45	.492	160	120721	60	.579	240	100721	60	.651	340
8	140821	60	.555	196	120821	60	.617	270	100821	60	.695	384
9	140921	60	.582	216	120921	60	.647	300	100921	60	.730	427
10	141021	60	.607	237	121021	60	.706	332	101021	60	.763	470
11	141121	60	.630	257	121121	60	.717	358	101121	60	.793	513
12	141221	60	.652	277	121221	60	.727	386	101221	80	.863	586
Shielded Cable Data												
2	140221SD	45	.375	86	120221SD	45	.413	109	100221SD	45	.461	144
3	140321SD	45	.397	106	120321SD	45	.438	137	100321SD	45	.490	186
4	140421SD	45	.430	129	120421SD	45	.476	171	100421SD	60	.564	250
5	140521SD	45	.450	150	120521SD	45	.499	199	100521SD	60	.591	292
6	140621SD	45	.500	177	120621SD	60	.588	253	100621SD	60	.650	350
7	140721SD	45	.507	195	120721SD	60	.594	278	100721SD	60	.666	389
8	140821SD	60	.570	233	120821SD	60	.632	313	100821SD	60	.710	433
9	140921SD	60	.597	254	120921SD	60	.662	343	100921SD	60	.745	479
10	141021SD	60	.650	282	121021SD	60	.717	380	101021SD	60	.800	529
11	141121SD	60	.655	300	121121SD	60	.723	406	101121SD	60	.808	568
12	141221SD	60	.667	322	121221SD	60	.742	440	101221SD	80	.878	647



METERING CABLE - SPECIALTY CONTROL CABLE

Polyethylene/PVC Insulation with Overall PVC Jacket
12 - 9 AWG • 600 Volts • 90°C



CABLE IDENTIFICATION

"ADVANCED DIGITAL CABLE XX AWG XC
 METERING CABLE 600V SUN RES DIR BUR"



DESCRIPTION

ADC's Metering Cable is polyethylene insulated, PVC jacketed conductors cabled together with an overall sunlight resistant direct burial PVC Jacket.

APPLICATIONS

For use as a general control cable for conveying signals between devices interfaced directly with the electrical power system. Suitable for open air ducts or conduit, tray, and direct burial installation.

CONSTRUCTION

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

Insulation: 20 Mils transparent Linear Low Density Polyethylene

Conductor Jacket: 10 Mils PVC

Cabling: Conductors cabled with fillers as needed.

Separator: Clear Mylar

Overall Jacket: Black Direct Burial, Sunlight Resistant PVC. Thickness per ICEA S-73-532/NEMA WC-57 Table 4-1

Color Code: ICEA Method 1, Table E-2 Standard. ICEA Method 1 Tables E-1, E-3 & Method 4.

INDUSTRY LISTINGS & STANDARDS

ANSI/ICEA S-73-532
 NEMA WC 57
 ASTM - All Applicable Standards
 Rated 90°C



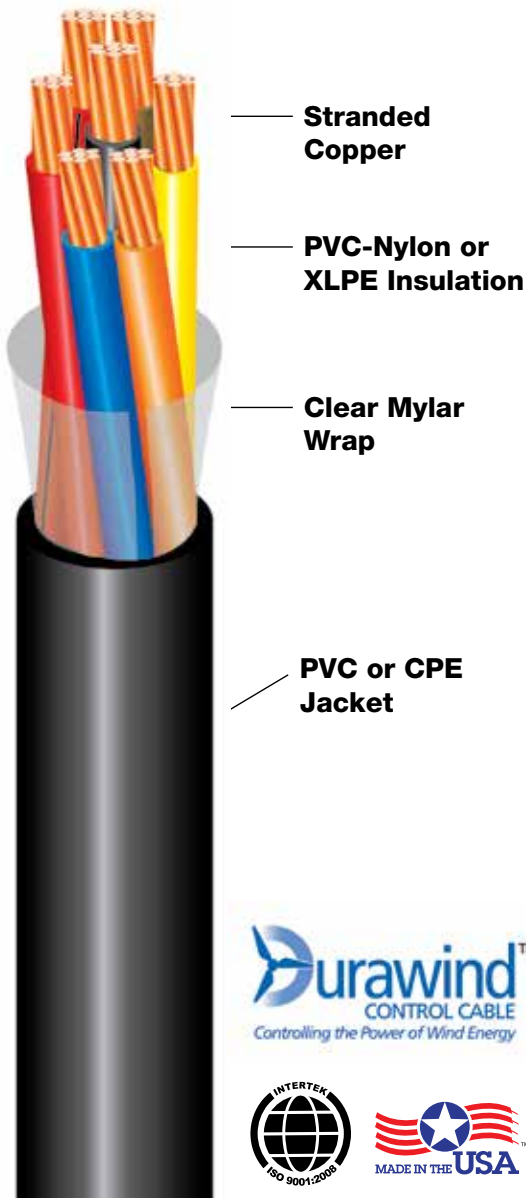
METERING CABLE - SPECIALTY CONTROL CABLE

Polyethylene/PVC Insulation with Overall PVC Jacket
12 - 9 AWG • 600 Volts • 90°C

Unshielded Cable Data												
12 AWG					10 AWG				9 AWG			
# of Conds.	Part No.	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part No.	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.	Part No.	OA Jkt. Thick. (MILS)	Appr. O.D. (IN)	Appr. Weight Lbs./ M Ft.
2	320221	45	.398	82	300221	45	.446	113	390221	45	.477	135
3	320321	45	.423	110	300321	45	.475	154	390321	45	.509	187
4	320421	45	.461	139	300421	60	.549	212	390421	60	.587	255
5	320521	45	.484	167	300521	60	.576	254	390521	60	.615	307
6	320621	45	.491	193	300621	60	.584	294	390621	60	.625	356
7	320721	60	.579	240	300721	60	.651	340	390721	60	.698	413
8	320821	60	.617	270	300821	60	.695	384	390821	60	.745	467
9	320921	60	.647	300	300921	60	.730	427	390921	60	.783	520
10	321021	60	.706	332	301021	60	.763	470	391021	80	.860	604
11	321121	60	.717	358	301121	60	.793	513	391121	80	.892	657
12	321221	60	.727	386	301221	80	.863	586	391221	80	.925	711

WTTC WIND CABLE

Type TC, WTTC Wind Cable Constructions
UL 1277, UL2277



Construction Capabilities:

Conductor: 18- 4/0 AWG, Tinned or Bare Copper

Insulation:

Listed Types THW, THW-2, THHW, THHN, THWN, THWN-2, TFN or TFFN conductors, or Unlisted conductors similar to Types TFN or TFFN rated 90°C wet or dry. Listed Types XHHW, XHHW-2, RHH, RHW, RHW-2, RFH-2, FFH-2, RFHH-2 or RFHH-3 conductors, or Unlisted conductors similar to Types RFH-2, FFH-2, RFHH-2 or RFHH-3, except rated 90°C wet or dry. The cable may consist of any combination of conductor sizes provided that all conductors are of the same material.

Identification:

Conductors will be marked using Method 2 and 4 color codes. The wire shall be identified by surface marking indicating the manufacturer's identification, conductor size, voltage rating, UL symbol and type designations, and sequential footage marking.

Available Colors: Black

Ground Wire: A non-insulated bare copper ground is available for all constructions

Shielding Options:

Overall Foil Shield, Individual and overall foil shield, Overall copper tape (corrugated or helical)

Application:

Multiconductor, Pair, or Triad Instrumentation and Control Cable rated 1000volts WTTC and 600volts TC

Insulations: UL 44, UL 854, UL 83, UL 66

Overall: UL 1277, UL 2277

Additional Approvals:

-40°C cold bend
 Gas and Oil II
 Torsion Tested
 FT4/IEEE1202



Cable Data

Insul/Jkt	WTTC*	TC	TC-ER	DIR BUR	Temp Wet/Dry	Additional Ratings***
PVC-Nylon/PVC	YES	YES	YES	YES	90C/90C	Sun Res, UL 1685, FT4, IEEE 1202, TC 600V, WTTC 1000V
XLPE/PVC	YES	YES	YES	YES	90C/90C	Sun Res, UL 1685, FT4, IEEE 1202, TC 600V, WTTC 1000V, 2000V employing RHW-2 cond
XLPE/CPE	YES	YES	YES	YES**	90C/90C	Sun Res, UL 1685, FT4, IEEE 1202, TC 600V, WTTC 1000V, 2000V employing RHW-2 cond
PVC-Nylon/CPE	YES	YES	YES	YES**	90C/90C	Sun Res, UL 1685, FT4, IEEE 1202, TC 600V, WTTC 1000V

*WTTC can not be marked direct burial or Exposed Run. ** Dir Bur on CPE 16awg and larger.*** XLPE construction must use VW-1 singles to comply with Flame Tests

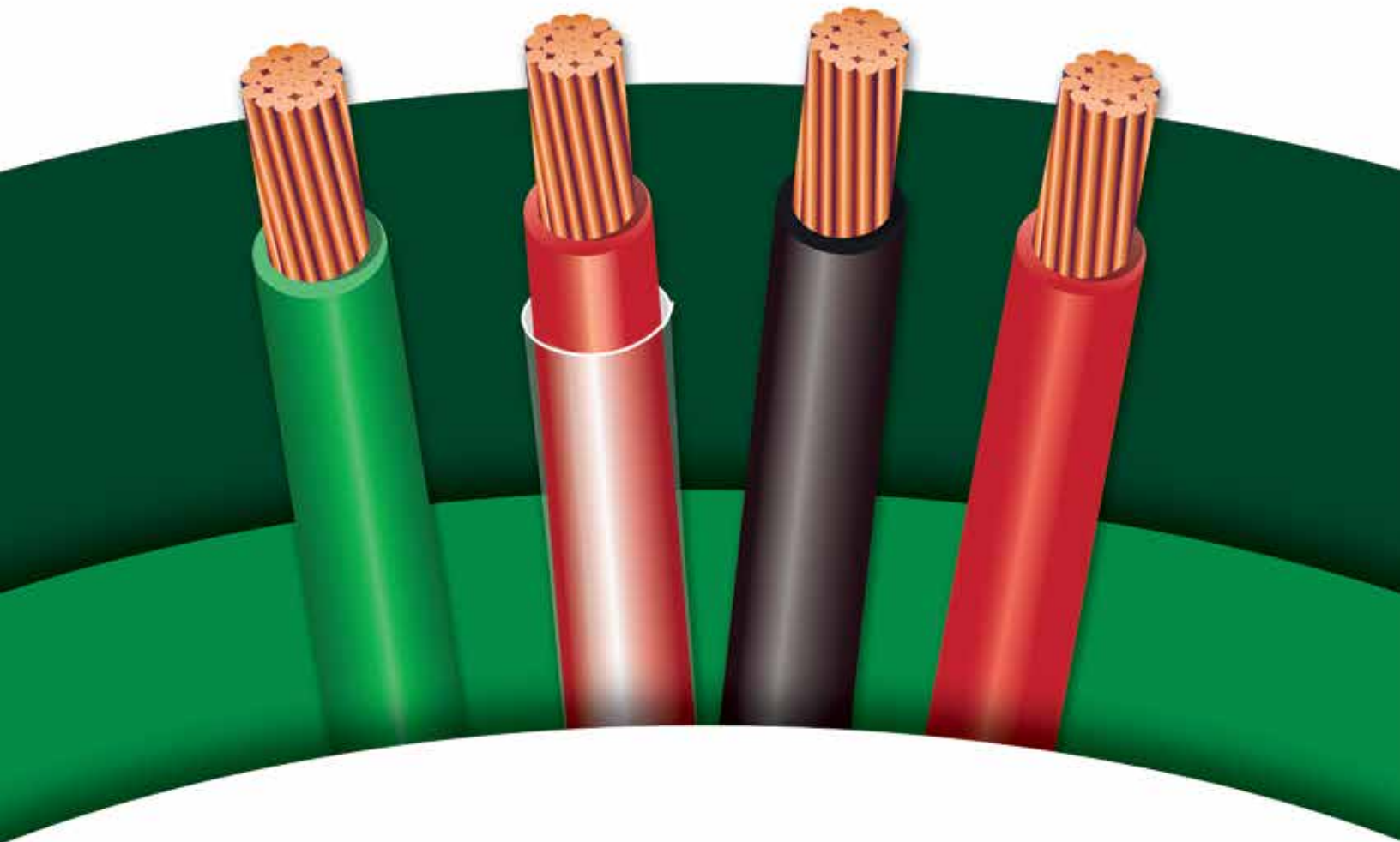
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ADVANCED DIGITAL CABLE INC.

BUILDING WIRE



Building Wire

XHHW-2	40
USE-2	42
RHW-2	43
THW-2	44
THNN/THWN-2	45
Bare Copper	46

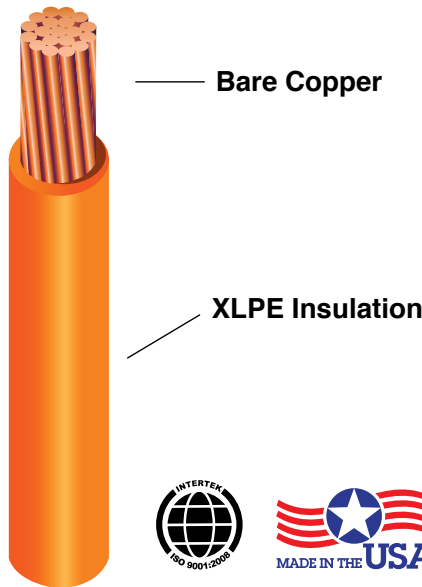
Canadian

RW90	47
RWU90 RHW-2	48

XHHW-2 - BUILDING WIRE

Cross-Linked Polyethylene Insulated

14 AWG - 750 MCM • 600/1000 Volts • 90°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE, INC. XX AWG XLP (UL) TYPE XHHW-2 1000V GR11 SR 90C (-40C) c(UL) RW90 600V E218985 RoHS”

CT Print Legend

“ADVANCED DIGITAL CABLE, INC. XX AWG XLP (UL) TYPE XHHW-2 FOR CT USE 1000V GR11 SR 90C (-40C) c(UL) RW90 600V E218985 RoHS”

DESCRIPTION

ADC's XHHW-2 is insulated with chemically cross-linked polyethylene insulation.

APPLICATIONS

Appropriate for use in general purpose wiring for lighting and power in residential, commercial, and industrial buildings. (Hospital Grade) Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less.

CONSTRUCTION

Conductors: Annealed stranded bare copper per ASTM B3 and B8. Class B Stranding per ASTM B8.

Insulation: Chemically cross-linked polyethylene

Colors: Black, Brown, Orange, Yellow, Green, White, Red. Consult factory for other colors

INDUSTRY LISTINGS & STANDARDS

UL Listed as XHHW-2 per Standard 44
 ICEA S-95-658/NEMA WC-70
 90°C Wet/Dry -40°C Rated
 Gasoline and Oil Resistant II - GR11
 C(UL) RW90 600V Listed
 Sunlight Resistant - SR
 RoHS Compliant
 CT Rated 1/0 and larger
 SIS Rated 14-10 AWG
 *Non CT rated and VW-1 available upon request



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
214	14	7	30	.131	18	12.69
212	12	7	30	.151	27	20.16
210	10	7	30	.174	40	32.05
208	8	7	45	.234	66	51.00
206	6	7	45	.271	95	81.00
204	4	7	45	.319	145	128.90
203	3	7	45	.347	185	162.50
202	2	7	45	.379	225	204.90
201	1	19	55	.439	290	258.00
2010CT	1/0	19	55	.472	361	326.00
2020CT	2/0	19	55	.516	450	411.00
2030CT	3/0	19	55	.566	561	518.00
2040CT	4/0	19	55	.622	718	653.00
20250CT	250 MCM	37	65	.688	847	772.00
20300CT	300 MCM	37	65	.735	1006	926.00
20350CT	350 MCM	37	65	.791	1169	1081.00
20400CT	400 MCM	37	65	.836	1329	1235.00
20500CT	500 MCM	37	65	.919	1646	1544.00
20600CT	600 MCM	61	80	1.026	2051	1853.00
20750CT	750 MCM	61	80	1.128	2532	2309.00

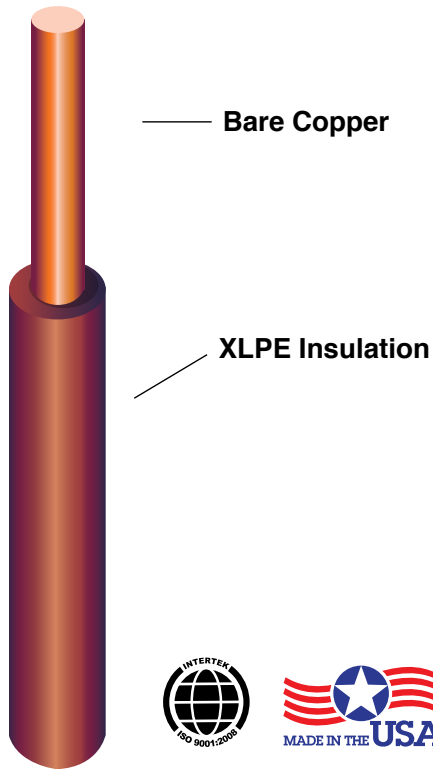
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XHHW-2 - BUILDING WIRE

Cross-Linked Polyethylene Insulated
14 - 10 AWG • 600/1000 Volts • 90°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE, INC. XX AWG
 XLP (UL) TYPE XHHW-2 1000V GR II SR 90C
 (-40C) c(UL) RW90 600V E218985 RoHS”

DESCRIPTION

ADC's XHHW-2 has a chemically cross-linked polyethylene insulation.

APPLICATIONS

Appropriate for use in general purpose wiring for lighting and power in residential, commercial, and industrial buildings. (Hospital Grade)
 Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less.

CONSTRUCTION

Conductors: Solid annealed uncoated copper per ASTM B-3.

Insulation: Chemically cross-linked polyethylene

Colors: Black, Brown, Orange, Yellow, Green, White, Red. Consult factory for other colors

INDUSTRY LISTINGS & STANDARDS

UL Listed as XHHW-2 per Standard 44

ICEA S-95-658/NEMA WC-70

90°C Wet/Dry -40°C Rated

Gasoline and Oil Resistant II - GR II

C(UL) RW90 600V Listed

Sunlight Resistant - SR

RoHS Compliant

*VW-1 Rated Cable is available upon request.



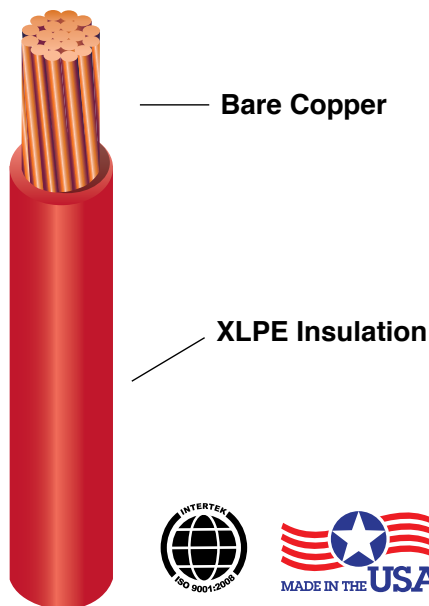
Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
214S	14	Solid	30	.124	18	12.43
212S	12	Solid	30	.141	27	19.76
210S	10	Solid	30	.162	40	31.43
208S	8	Solid	45	.218	61	49.97
206S	6	Solid	45	.252	93	79.46
204S	4	Solid	45	.294	142	127.00

XLP USE-2 OR RHH/RHW-2 - BUILDING WIRE

Cross-Linked Polyethylene Insulated

14 AWG - 750 MCM • 600/1000 Volts • 90°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE, INC. XX AWG
XLP 90C (-40C) E197262 (UL) TYPE RHH OR
RHW-2 GR II SR OR USE-2 OIL RES II DIR
BUR 600V c(UL) RW90 1KV--RoHS”

DESCRIPTION

ADC's USE-2 is insulated with chemically cross-linked polyethylene insulation.

APPLICATIONS

Appropriate for use in general purpose wiring for lighting and power in residential, commercial, and industrial buildings. Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less.

CONSTRUCTION

Conductors: Annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: Chemically cross-linked polyethylene

Colors: Black, Green, White, Red. Consult factory for other colors

INDUSTRY LISTINGS & STANDARDS

UL Listed as XLP USE-2 or RHH/RHW-2 per Standard 44 and 854
ICEA S-95-658/NEMA WC-70
Federal spec A-A-59544
90°C Wet/Dry -40°C Rated
Gasoline and Oil Resistant II -GR II
C(UL) RW90 1000V Listed
Sunlight Resistant -SR
Direct Burial
RoHS Compliant
CT Rated and/or VW-1 Rated available upon request



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
314	14	7	45	.161	22	12.69
312	12	7	45	.181	30	20.16
310	10	7	45	.204	45	32.05
308	8	7	60	.264	73	51.00
306	6	7	60	.301	107	81.00
304	4	7	60	.349	161	128.90
303	3	7	60	.377	189	162.50
302	2	7	60	.409	244	204.90
301	1	19	80	.489	305	258.00
3010	1/0	19	80	.522	372	326.00
3020	2/0	19	80	.566	460	411.00
3030	3/0	19	80	.616	568	518.00
3040	4/0	19	80	.672	713	653.00
30250	250 MCM	37	95	.748	853	772.00
30300	300 MCM	37	95	.795	1017	926.00
30350	350 MCM	37	95	.851	1167	1081.00
30400	400 MCM	37	95	.896	1333	1235.00
30500	500 MCM	37	95	.979	1638	1544.00
30600	600 MCM	61	110	1.086	1823	1853.00
30750	750 MCM	61	110	1.188	2476	2309.00

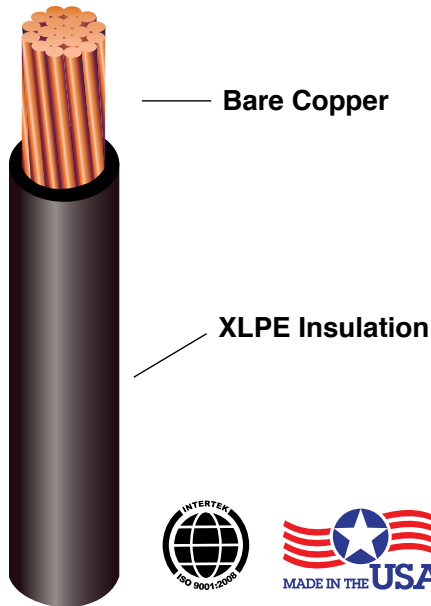
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RHW-2 OR RHH - BUILDING WIRE

Cross-Linked Polyethylene Insulated
14 AWG - 750 MCM • 2000 Volts • 90°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC. XX AWG
 XLP (UL) Type RHH OR RHW-2 2KV 90C
 (-40C) GR11 SR E218985---RoHS”

DESCRIPTION

ADC's single conductor stranded copper is insulated with chemically cross-linked polyethylene.

APPLICATIONS

Suitable for use in lighting and power applications and for other general purpose wiring applications. Suitable for use in circuits not exceeding 2000 volts. May be installed in raceway, duct, and sunlight resistant applications such as aerial installations.

CONSTRUCTION

Conductors: Annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: Cross-linked polyethylene

Colors: Black. Consult factory for other colors.

INDUSTRY LISTINGS & STANDARDS

90°C wet or dry RHW-2 2000V
 ICEA S-95-658/NEMA WC70
 Federal Specification A-A-59544
 Meets UL 44 & 854 Requirements
 Sunlight Resistant - SR
 Gasoline and Oil Resistant II - GR11
 RoHS Compliant

*CT Rated Available Upon Request



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
314RH	14	7	60	.191	24	12.69
312RH	12	7	60	.211	33	20.16
310RH	10	7	60	.234	46	32.05
308RH	8	7	70	.284	73	51.00
306RH	6	7	70	.321	106	81.00
304RH	4	7	70	.369	156	128.90
303RH	3	7	70	.399	191	162.50
302RH	2	7	70	.429	236	204.90
301RH	1	19	90	.512	311	258.00
3010RH	1/0	19	90	.550	383	326.00
3020RH	2/0	19	90	.595	475	411.00
3030RH	3/0	19	90	.645	589	518.00
3040RH	4/0	19	90	.705	749	653.00
30250RH	250 MCM	37	105	.783	871	772.00
30300RH	300 MCM	37	105	.840	1189	926.00
30350RH	350 MCM	37	105	.887	1241	1081.00
30400RH	400 MCM	37	105	.938	1357	1235.00
30500RH	500 MCM	37	105	1.019	1674	1544.00
30600RH	600 MCM	61	120	1.127	2064	1853.00
30750RH	750 MCM	61	120	1.238	2549	2309.00

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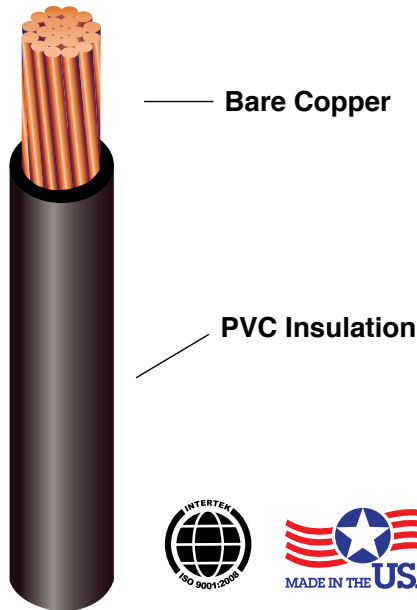
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THW-2 WIRE - BUILDING WIRE

PVC Insulated

14 AWG - 750 MCM • 600 Volts • 90°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE, INC. XX AWG
600V 90C (UL) Type THW OR THW-2 GR11 SR
VW-1 E208489”

DESCRIPTION

ADC's THW-2 is a single conductor stranded or solid copper insulated with moisture and flame retardent, sunlight resistant PVC.

APPLICATIONS

Suitable for use in conduits or other recognized raceways for services, feeders and branch circuit wiring.

CONSTRUCTION

Conductors: Conforms to ASTM B-3 and B-8.

Insulation: Polyvinyl chloride conforming to UL 1581

Colors: Black, Green, White, Red. Consult factory for other colors

INDUSTRY LISTINGS & STANDARDS

UL 83, 1581

VW-1 Flame test designation on all sizes

NEMA WC-5/ICEA S-61-402

Caltrans 86-2.08

90°C wet or dry

Sunlight Resistant - SR

Oil Resistant II - GR11

CT use 1/0 AWG and larger

RoHS Compliant



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
514	14	7	30	.131	19	12.69
514S	14	Solid	30	.124	18	12.43
512	12	7	30	.151	27	20.16
512S	12	Solid	30	.141	26	19.76
510	10	7	30	.174	41	32.05
510S	10	Solid	30	.162	39	31.43
508	8	7	45	.234	68	51.00
508S	8	Solid	45	.218	57	50.20
506	6	7	60	.301	112	81.00
504	4	7	60	.349	166	128.90
502	2	7	60	.409	248	204.90
501	1	19	80	.492	325	258.00
5010	1/0	19	80	.530	400	326.00
5020	2/0	19	80	.575	493	411.00
5030	3/0	19	80	.625	608	518.00
5040	4/0	19	80	.685	752	653.00
50250	250 MCM	37	95	.763	908	772.00
50300	300 MCM	37	95	.820	1075	926.00
50350	350 MCM	37	95	.867	1244	1081.00
50400	400 MCM	37	95	.918	1411	1235.00
50500	500 MCM	37	95	.999	1741	1544.00
50600	600 MCM	61	110	1.107	2108	1853.00
50750	750 MCM	61	110	1.218	2599	2309.00

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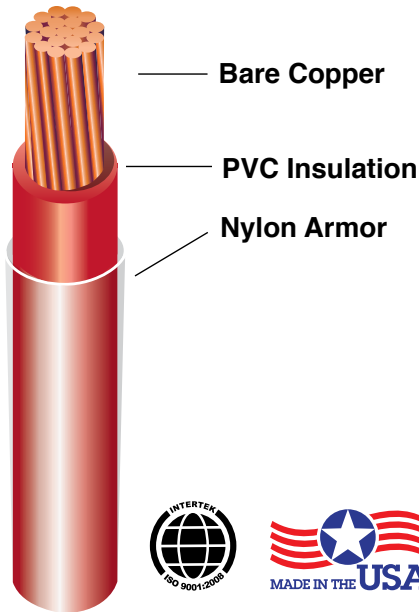
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THHN/THWN-2 - BUILDING WIRE

PVC/Nylon Insulated
18 - 2 AWG • 600 Volts • 90°C Dry and 75°C Wet



DESCRIPTION

ADC's THHN is a single conductor PVC Insulated with a Nylon Jacket.

APPLICATIONS

Appropriate for use conduit and cable trays for general purpose wiring, lighting and power - residential, commercial, and industrial buildings.

CONSTRUCTION

Stranded bare copper conductor per ASTM B-3, B-8. Available in 7 or 19 stranded versions as well as tinned copper.

18-16 AWG Thickness per UL66 Table 4.7 14 AWG and larger per UL83 Table 10 PVC with Nylon Armor

Black, Green, White, Red, Brown, Orange, Yellow. Consult factory for other colors. Print on one side with a contrasting ink. An extruded stripe and other colors are available upon request.

INDUSTRY LISTINGS & STANDARDS

UL Listed per Standard Subject 83 and 66

90°C Rated MTW 1063

105°C Rated AWM 1316 for 18 and 16 AWG

Gasoline and Oil Resistant II - GR II

RoHS Compliant



CABLE IDENTIFICATION

18-16 AWG Solid

"ADVANCED DIGITAL CABLE, INC. XX AWG TFN (UL) 600V 90C GR II OR AWM STYLE 1316 105C E195596"

18-16 AWG Stranded

"ADVANCED DIGITAL CABLE, INC. XX AWG TFFN (UL) 600V 90C GR II OR MTW AWM STYLE 1316 105C E195596"

14-10 AWG Solid

"ADVANCED DIGITAL CABLE, INC. 14 AWG THHN/THWN-2 (UL) 600V 90C VW-1 GR II E208489"

14-2 AWG Stranded

"ADVANCED DIGITAL CABLE, INC. 14 AWG THHN/THWN-2 (UL) 600V 90C VW-1 GR II OR MTW E208489"

Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
418	18	7	15	5	.086	7.5	5.0
418S	18	Solid	15	5	.080	7	4.94
416	16	7	15	5	.097	11	8.04
416S	16	Solid	15	5	.091	10	7.85
414	14	19	15	5	.111	16	12.64
414S	14	Solid	15	5	.104	15	12.49
412	12	19	15	5	.130	25	20.02
412S	12	Solid	15	5	.121	23	19.86
410	10	19	20	5	.167	39	32.03
408	8	19	30	5	.213	64	50.90
406	6	19	30	5	.256	97	81.00
404	4	19	40	6	.327	155	128.66
403	3	19	40	6	.355	191	162.50
402	2	19	40	6	.388	238	204.90

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 IC1220

PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

BARE COPPER - BUILDING WIRE

Soft Drawn Bare Copper
14 AWG - 750 MCM



DESCRIPTION

Fully annealed soft drawn bare copper

APPLICATIONS

Bare Copper conductors are used in overhead electrical transmission and distribution systems for grounding electrical systems.

INDUSTRY LISTINGS & STANDARDS

ASTM-B3 for soft-drawn solid copper wire
 ASTM-B8 for soft-drawn concentric lay stranded copper wire
 ASTM-B787 for combination unilay stranded wire



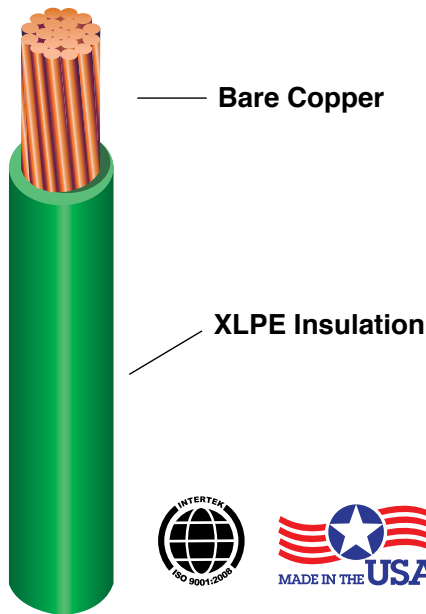
Cable Data

Part Number	AWG	Number of Strands	Nominal Circular Mil Area	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'
BC14	14	Solid	4105	.0641	12.43
BC12	12	Solid	6529	.0808	19.76
BC10	10	Solid	10362	.102	31.43
BC08	8	Solid	16510	.129	49.97
BC06	6	Solid	26240	.162	79.46
BC107S	10	7	10108	.114	31.00
BC087S	8	7	16510	.146	51.00
BC067S	6	7	26240	.184	81.00
BC047S	4	7	41740	.232	128.90
BC037S	3	7	52620	.260	162.50
BC027S	2	7	66360	.292	204.90
BC0119S	1	19	83690	.332	258.00
BC01019S	1/0	19	105600	.373	326.00
BC02019S	2/0	19	133100	.419	411.00
BC03019S	3/0	19	167800	.470	518.00
BC04019S	4/0	19	211600	.528	653.00
BC25037S	250	37	250000	.558	772.00
BC30037S	300	37	300000	.611	926.00
BC35037S	350	37	350000	.661	1081.00
BC40037S	400	37	400000	.706	1235.00
BC50037S	500	37	500000	.789	1544.00
BC60061S	600	61	600000	.893	1853.00
BC75061S	750	61	750000	.998	2309.00



RW90 600V - CANADIAN BUILDING WIRE

Cross-Linked Polyethylene Insulated
14 AWG - 750 MCM • 600 Volts • 90°C Dry and Wet



CABLE IDENTIFICATION

"ADVANCED DIGITAL CABLE, INC. XX AWG XLP 600V 90C (-40C) GR II SR E218985 (UL) TYPE XHHW-2 OR c(UL) RW90 - CSA LL 111578 - RoHS"

CT Print Legend

"ADVANCED DIGITAL CABLE, INC. XX AWG XLP 600V 90°C (-40C) GR II SR E218985 (UL) TYPE XHHW-2 FOR CT USE OR c(UL) RW90 - CSA LL 111578 - RoHS"

DESCRIPTION

ADC's RW90 is insulated with chemically cross-linked polyethylene insulation.

APPLICATIONS

Appropriate for use in general purpose wiring for lighting and power in residential, commercial, and industrial buildings. Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less.

CONSTRUCTION

Conductors: 14AWG - 750 MCM fully annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: Chemically cross-linked polyethylene

Colors: Black, Brown, Orange, Yellow, Green, White, Red.

INDUSTRY LISTINGS & STANDARDS

CSA Listed CSA Spec C22.2, No. 38 RW90 600V

ICEA S-95-658/NEMA WC-70

90°C Wet/Dry -40°C Rated

Gasoline and Oil Resistant II - GRII

C(UL) RW90 600V Listed

Sunlight Resistant - SR

RoHS Compliant

CT Rated 1/0 and larger (Non CT and VW-1 rated available upon request)



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
214C	14	7	30	.131	18	12.69
212C	12	7	30	.151	27	20.16
210C	10	7	30	.174	40	32.05
208C	8	7	45	.234	66	51.00
206C	6	7	45	.271	95	81.00
204C	4	7	45	.319	145	128.90
203C	3	7	45	.349	185	162.50
202C	2	7	45	.379	225	204.90
201C	1	19	55	.432	290	258.00
2010CCT	1/0	19	55	.472	361	326.00
2020CCT	2/0	19	55	.516	450	411.00
2030CCT	3/0	19	55	.566	561	518.00
2040CCT	4/0	19	55	.622	718	653.00
20250CCT	250 MCM	37	65	.688	847	772.00
20300CCT	300 MCM	37	65	.735	1006	926.00
20350CCT	350 MCM	37	65	.791	1169	1081.00
20400CCT	400 MCM	37	65	.836	1329	1235.00
20500CCT	500 MCM	37	65	.919	1646	1544.00
20600CCT	600 MCM	61	80	1.026	2051	1853.00
20750CCT	750 MCM	61	80	1.128	2512	2309.00

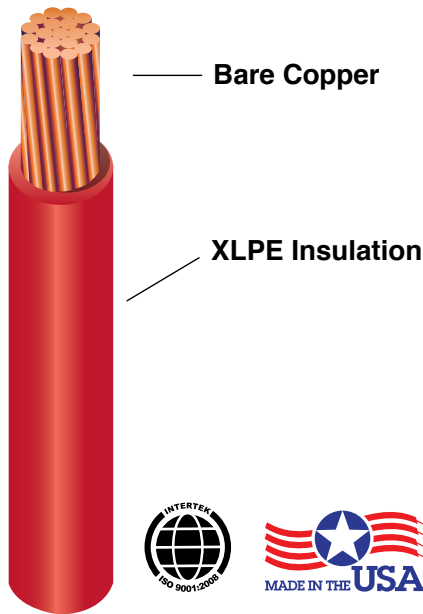
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RWU90 RHW-2 - CANADIAN BUILDING WIRE

Cross-Linked Polyethylene Insulated
14 AWG - 750 MCM • 90°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE, INC. “XX” AWG XLP (UL) TYPE RHW-2 2KV OR c(UL) RWU90 1KV 90C (-40C) GR11 SR E218985---RoHS”

DESCRIPTION

ADC’s RWU90 single conductor is insulated with chemically cross-linked polyethylene insulation.

APPLICATIONS

Appropriate for use in general purpose wiring for lighting and power - residential, commercial, and industrial buildings. Suitable for applications that require superior flame retardance.

CONSTRUCTION

Conductors: Annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: Chemically cross-linked polyethylene

Colors: Black, Brown, Orange, Yellow, Green, White, Red.

INDUSTRY LISTINGS & STANDARDS

CSA/cUL Listed RWU90-1KV UL-RHW-2 2KV CSA Standard C22.2, No. 38-05

ICEA S-95-658/NEMA WC-70

RWU90 - 1000V

RHW-2 - 2000V

90°C Wet/Dry -40°C Rated

Gasoline and Oil Resistant II - GR11

Sunlight Resistant - SR

RoHS Compliant

CT Rated on 1/0 and larger available upon request



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
314C	14	7	60	.191	24	12.69
312C	12	7	60	.211	33	20.16
310C	10	7	60	.234	47	32.05
308C	8	7	80	.304	77	51.00
306C	6	7	80	.341	112	81.00
304C	4	7	80	.389	166	128.90
303C	3	7	80	.419	203	162.50
302C	2	7	80	.449	250	204.90
301C	1	19	95	.522	320	258.00
3010C	1/0	19	95	.560	395	326.00
3020C	2/0	19	95	.605	488	411.00
3030C	3/0	19	95	.655	604	518.00
3040C	4/0	19	95	.715	750	653.00
30250C	250 MCM	37	110	.793	895	772.00
30300C	300 MCM	37	110	.850	1056	926.00
30350C	350 MCM	37	110	.897	1228	1081.00
30400C	400 MCM	37	110	.948	1390	1235.00
30500C	500 MCM	37	110	1.029	1722	1544.00
30600C	600 MCM	61	125	1.137	2070	1853.00
30750C	750 MCM	61	125	1.248	2558	2309.00

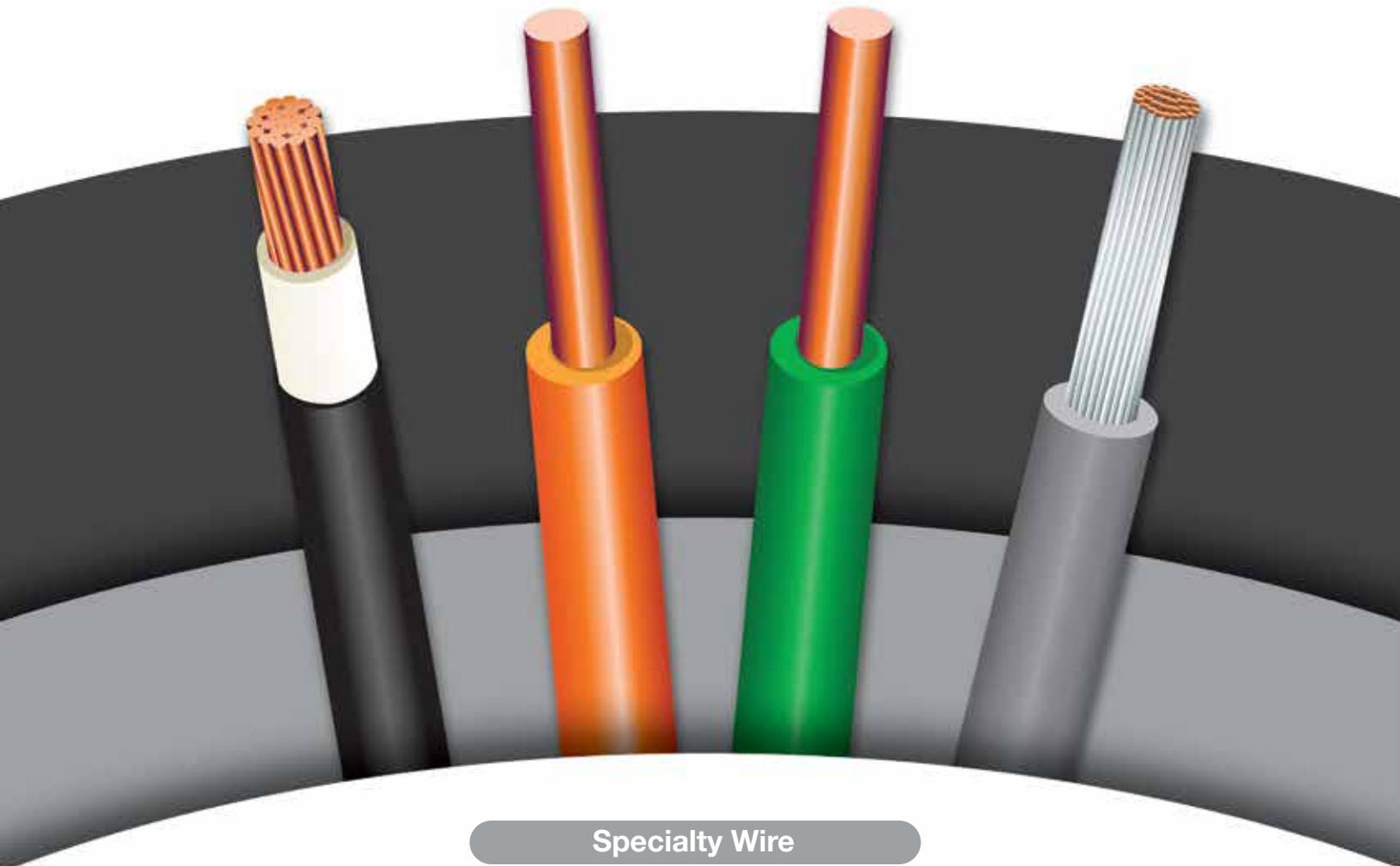
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SPECIALTY WIRE



Specialty Wire

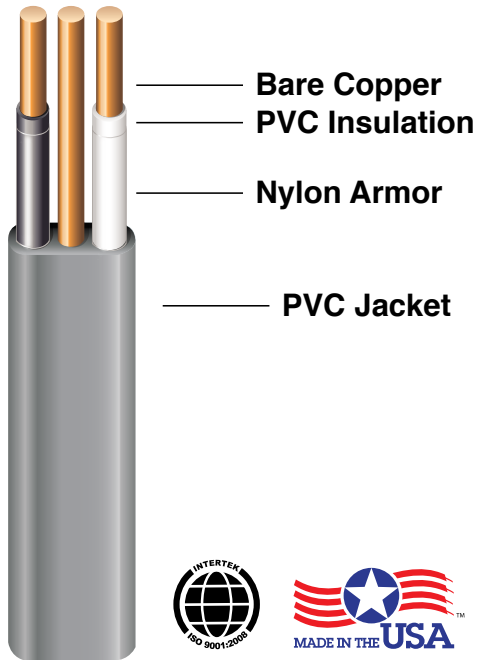
- UFB 50
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- Transformer Riser 52
- Weather Resistant Line WIRE 53
- Pipeline Tracer 54
- Cathodic Protection 56

Photovoltaic Wire

- SolarLink™ Wire..... 59

UF-B - SPECIALTY WIRE

PVC Insulated with an Overall PVC Jacket
14 - 10 AWG • 600 Volts • 75°C Dry and Wet



CABLE IDENTIFICATION

"XX AWG 2 CDR WITH XX AWG GROUND
 (UL) TYPE UF-B 600V SUNLIGHT RESISTANT
 E316973"

DESCRIPTION

ADC's UFB is PVC/Nylon insulated in a flat configuration with an overall PVC jacket.

APPLICATIONS

For use underground, wet, dry, or corrosive locations as specified by NEC 300.5. Generally used as a feeder for outdoor pumps and lighting.

CONSTRUCTION

PVC/Nylon insulation over annealed solid copper conductor. Available with or without ground. Gray PVC Sunlight Resistant extruded over assembly.

INDUSTRY LISTINGS & STANDARDS

UL 83
 UL 493
 ASTM-B3
 NEC - Article 340
 RoHS

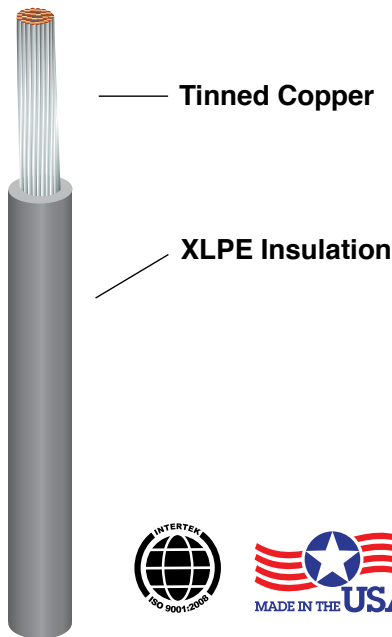


Cable Data

Part Number	AWG	Insulation Thickness	Nylon Thickness	Ground	Jacket Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
1402UFB	14	15	5	14	30	.168 x .400	60.0	37.5
1202UFB	12	15	5	12	30	.185 x .450	94.5	59.5
1002UFB	10	20	5	10	30	.215 x .515	155.7	94.7
1402UF	14	15	5	-	30	.168 x .354	43.6	25.0
1202UF	12	15	5	-	30	.185 x .386	70.8	39.7
1002UF	10	20	5	-	30	.215 x .440	119.5	63.1

SIS - SPECIALTY WIRE

Cross-Linked Polyethylene Insulated 18 - 2 AWG • 600 Volts



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC. XX AWG
XLP (UL) TYPE SIS XHHW-2 VW-1 90C 600V
GRII SR E218985---RoHS”

18-16 AWG

“ADC XX AWG XLP E178258B U AWM 3173
125C 600V OR 3237 105C 1000V - CSA
188472 CL1251 600V OR AWM I A/B 125C
600V FT2 -- SUITABLE FOR “SWITCHBOARD
WIRE”

DESCRIPTION

ADC's SIS is a single conductor stranded tinned copper insulated with thermosetting, chemically cross-linked polyethylene.

APPLICATIONS

Suitable for use in switchboard wiring as well as panel boards, distribution boards and industrial control panels.

CONSTRUCTION

Conductors: Tin Plated Copper. Bare Copper available upon request.

Insulation: Thermosetting chemically cross-linked polyethylene per UL 44

Colors: Gray, Black, Red, White and Green

INDUSTRY LISTINGS & STANDARDS

18-16 AWG UL Style 3173 - -40°C to 125°C Non VW-1

14-2 AWG SIS - -40°C to 90°C VW-1

Gasoline and Oil Resistant II - GRII

Sunlight Resistant - SR

RoHS Compliant

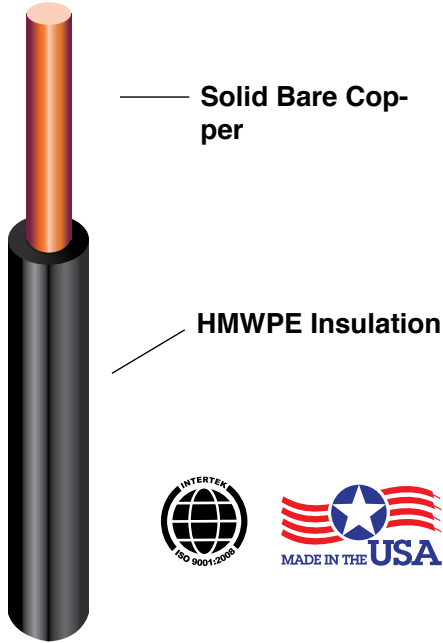


Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	UL Style
A7318-16T	18	16/30	30	.106	8	3173/3343
A7316-26T	16	26/30	30	.119	12	3173/3343
SIS-214	14	41/30	30	.137	18	SIS
SIS-212	12	65/30	30	.157	27	SIS
SIS-210	10	105/30	30	.178	41	SIS
SIS-208	8	133/29	45	.252	68	SIS
SIS-206	6	133/27	45	.295	102	SIS
SIS-204	4	133/25	45	.348	155	SIS
SIS-202	2	133/23	45	.425	233	SIS

TRANSFORMER RISER WIRE - SPECIALTY WIRE

High Molecular Weight Polyethylene Insulated
8-4 AWG • Solid Bare Copper



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE, INC XX AWG
 TRANSFORMER RISER WIRE MADE IN THE
 USA”

DESCRIPTION

ADC's Transformer Riser Wire is a single conductor, solid or stranded soft drawn copper insulated with high molecular weight polyethylene insulation.

APPLICATIONS

Appropriate for use in reducing faults caused by cross leads, vibrations and atmospheric conditions.

CONSTRUCTION

Conductors: Annealed solid or stranded bare copper per ASTM B3. Class B Stranding per ASTM B8.

Insulation: High Molecular Weight Polyethylene

Colors: Black

INDUSTRY LISTINGS & STANDARDS

ASTM - All applicable standards
 ANSI/ICEA S-70-547

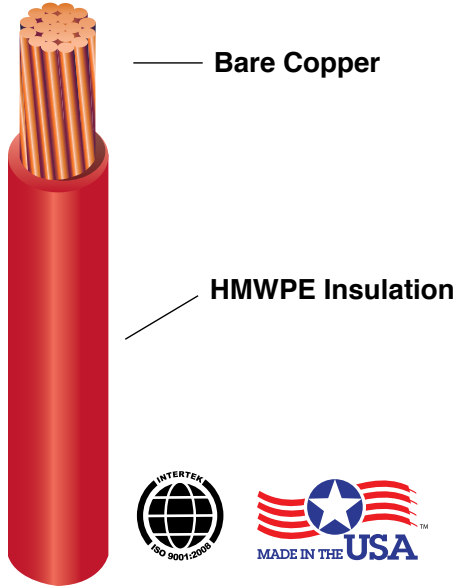


Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
608SHLPE	8	Solid	110	.348	84	50.2
606SHLPE	6	Solid	110	.382	118	79.8
604SHLPE	4	Solid	110	.424	172	126.9

WEATHER RESISTANT LINE WIRE - SPECIALTY WIRE

Polyethylene Insulated
6 AWG - 500 MCM • 75°C



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE, INC. XX AWG
 LINE WIRE 75C”

DESCRIPTION

ADC's Weather Resistant Line Wire is insulated with a high molecular weight polyethylene.

APPLICATIONS

Overhead distribution systems where protection from environmental elements is required.

CONSTRUCTION

Soft, Medium Hard, or Hard Drawn bare copper with weather resistant high molecular weight polyethylene insulation.

INDUSTRY LISTINGS & STANDARDS

ASTM B-1 Hard Drawn
 ASTM B-2 Medium Hard-Drawn
 ASTM B-3 Soft Drawn
 ASTM B-8 Concentric-Lay Stranded Copper Conductors
 ICEA S-70-547
 75°C Rated



Cable Data

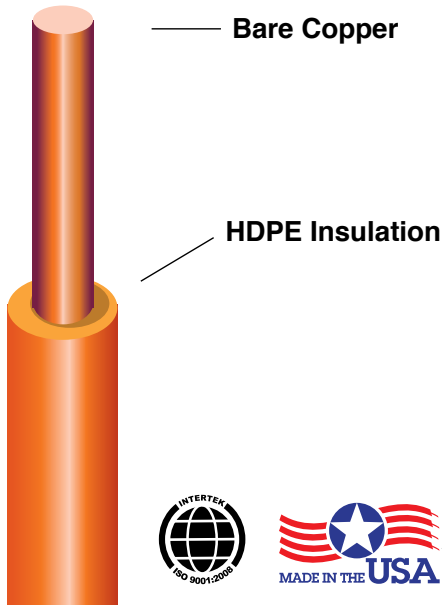
Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
106SHMPE	6	Solid	30	.222	87	79.46
106HMPE	6	Stranded	30	.244	90	81.00
104SHMPE	4	Solid	30	.264	136	127.00
104HMPE	4	Stranded	30	.292	141	128.90
103SHMPE	3	Solid	45	.319	175	160.00
102SHMPE	2	Solid	45	.348	219	201.80
102HMPE	2	Stranded	45	.382	227	204.90
101HMPE	1	Stranded	45	.418	284	258.00
1010HMPE	1/0	Stranded	60	.493	364	326.00
1020HMPE	2/0	Stranded	60	.539	454	411.00
1030HMPE	3/0	Stranded	60	.590	567	518.00
1040HMPE	4/0	Stranded	60	.648	708	653.00
10250HMPE	250	Stranded	60	.695	834	772.00
10300HMPE	300	Stranded	60	.750	994	926.00
10350HMPE	350	Stranded	60	.801	1157	1081.00
10500HMPE	500	Stranded	80	.973	1661	1544.00

SPECIALTY WIRE



PIPELINE TRACER WIRE - SPECIALTY WIRE

Bare Copper Conductor High Density Polyethylene Insulated
14-8 AWG • 75°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC Size AWG
 PIPELINE TRACER/TONE WIRE”

DESCRIPTION

ADC's Pipeline Tracer Wire has a bare copper conductor covered with a high density polyethylene insulation.

APPLICATIONS

Appropriate for direct burial or within plastic pipe to aid in the detection and tracing of underground pipe systems. Excellent for resisting abrasion, crush, chemical, oil and moisture.

CONSTRUCTION

Conductors: Soft annealed solid copper per ASTM B-3.

Insulation: High density, high molecular weight polyethylene providing resistance to moisture and abrasion.

Colors: Black, Brown, Orange, Yellow, Green, White, Red, Gray, Blue. Print on one side with a contrasting ink. An extruded stripe is available upon request.

INDUSTRY LISTINGS & STANDARDS

75°C Wet/Dry
 Direct Burial
 Moisture Resistant
 Chemical Resistant
 Oil Resistant
 Impact, Crush, and Abrasion Resistant.
 ASTM B-3
 Sequential Footage Printed



Cable Data

Part Number	AWG	Insulation Thickness (mils) 30v/600v	Nominal O.D. (inch) 30/45 mils	Approximate Ship Weight lbs/1M' 30/45 mils
114/114-45	14	30/45	.124/.154	16/19
112/112-45	12	30/45	.141/.171	24/27
110/110-45	10	30/45	.162/.192	37/40
108/108-45	8	30/45	.188/.218	56/60

Conductor Data

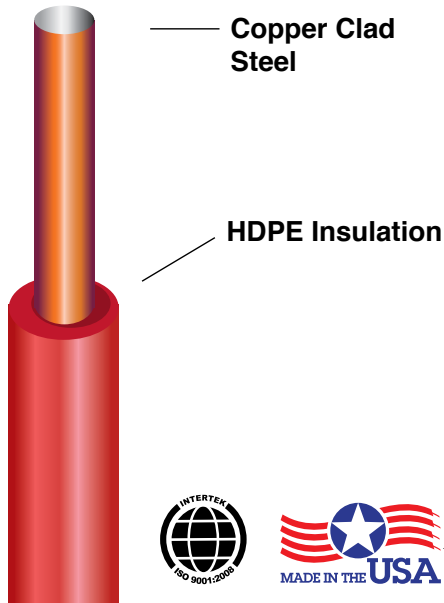
Size AWG	Tensile psi	Breakload lbf
14	38,500	124
12	38,500	197
10	38,500	313
8	37,000	479

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PIPELINE TRACER WIRE - SPECIALTY WIRE

Copper Clad Steel Conductor High Density Polyethylene Insulated
14 - 8 AWG • 75°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC Size AWG
 PIPELINE TRACER/TONE WIRE”

DESCRIPTION

ADC's Pipeline Tracer Wire has a flexible 21% IACS copper clad steel conductor covered with a high density polyethylene insulation.

APPLICATIONS

Appropriate for direct burial or within plastic pipe to aid in the detection and tracing of underground pipe systems. Excellent for resisting abrasion, crush, chemical, oil and moisture.

CONSTRUCTION

Conductors: 21% IACS conductivity, flexible, low carbon steel bonded with copper cladding. Conforms to ASTM B-910.

Insulation: High density, high molecular weight polyethylene providing resistance to moisture and abrasion.

Colors: Black, Brown, Orange, Yellow, Green, White, Red, Gray, Blue. Print on one side with a contrasting ink. An extruded stripe is available upon request.

INDUSTRY LISTINGS & STANDARDS

75°C Wet/Dry
 ASTM B-910
 Direct Burial
 Moisture Resistant
 Chemical Resistant
 Oil Resistant
 Impact, Crush, and Abrasion Resistant.
 Sequential Footage Printed



Cable Data

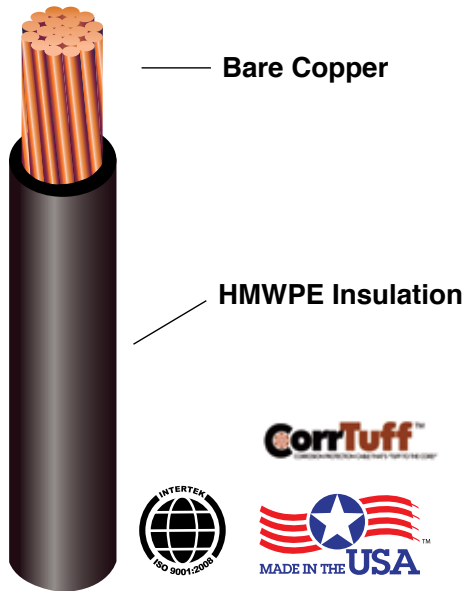
Part Number	AWG	Insulation Thickness (mils) 30v/600v	Nominal O.D. (inch) 30/45 mils	Approximate Ship Weight lbs/1M' 30/45 mils
114CCS/114CCS-45	14	30/45	.124/.154	15/18
112CCS/112CCS-45	12	30/45	.141/.171	22/25
110CCS/110CCS-45	10	30/45	.162/.192	34/37

Conductor Data

Size AWG	Diameter inch	Temper	Steel Grade	Copper Grade lbf	Min. Break Load psi	Min. Tensile Strength % lbs/mft	Min. Elongation Ω/mft	Nominal Weight	Nominal DCR at 20° C
14	0.0641	Hard	1010	102	387	120000	15%	11.17	12.01947
12	0.0808	Hard	1010	102	615	120000	15%	17.75	7.564472
10	0.1019	Hard	1010	102	979	120000	15%	28.23	4.756122

CATHODIC PROTECTION - SPECIALTY WIRE

High Molecular Weight Polyethylene
14 - 4/0 AWG • 600 Volts • 75°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC Size AWG
 HMWPE Cathodic Protection Cable 600V 75C”

DESCRIPTION

ADC's cathodic protection cable is insulated with black high molecular weight polyethylene (HMWPE) compound which gives this cable excellent abrasion, crush, chemical, oil and moisture resistance.

APPLICATIONS

Appropriate for use in direct burial cathodic protection systems.

CONSTRUCTION

Conductors: Annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: High molecular weight polyethylene (HMWPE)*. *HMWPE is available in High, Medium and Low Density

Colors: Black with print on one side with a contrasting ink. Other colors and Sequential foot markings available upon request.

INDUSTRY LISTINGS & STANDARDS

75°C Dry/Wet
 Direct Burial
 ASTM D-1248
 RoHS Compliant

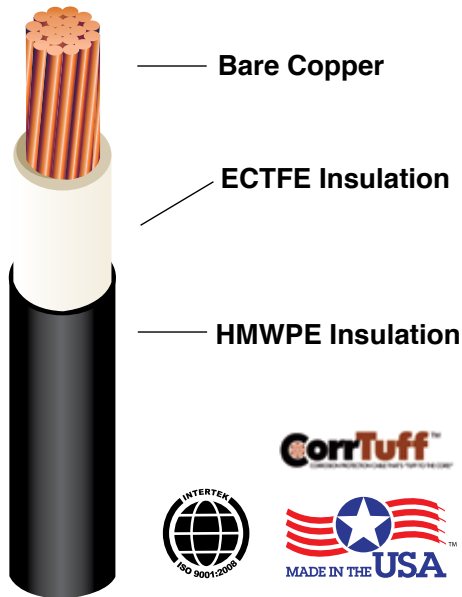


Cable Data					
Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal Diameter (inches)	Approximate Net Weight lbs/1M'
214HLPE	14	7	110	.293	40
212HLPE	12	7	110	.312	50
210HLPE	10	7	110	.335	66
208HLPE	8	7	110	.366	89
206HLPE	6	7	110	.412	134
204HLPE	4	7	110	.452	181
202HLPE	2	7	110	.512	267
201HLPE	1	19	125	.582	327
2010HLPE	1/0	19	125	.623	413
2020HLPE	2/0	19	125	.669	504
2030HLPE	3/0	19	125	.720	622
2040HLPE	4/0	19	125	.778	769



CATHODIC PROTECTION - SPECIALTY WIRE

Halar™ / High Molecular Weight Polyethylene
14 - 4/0 AWG • 600 Volts • 75°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC Size AWG
 ECTFE/HMWPE Cathodic Protection Cable
 600V”

DESCRIPTION

ADC's ECTFE cathodic protection cable has a Halar™ insulation combined with a high molecular weight polyethylene final insulation.

APPLICATIONS

Appropriate for use in cathodic protection systems that require a deep anode lead wire where chlorine and hydrogen gases are generated. This cable can be installed directly in fresh, brackish or salt water.

CONSTRUCTION

Conductors: Annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: ECTFE (Halar™) insulation with HMWPE* final insulation overcoat. *HMWPE is available in High, Medium and Low Density

Colors: Black with print on one side with a contrasting ink. Other colors and Sequential foot markings available upon request.

INDUSTRY LISTINGS & STANDARDS

75°C Dry/Wet
 Direct Burial
 ASTM D-1248
 RoHS Compliant



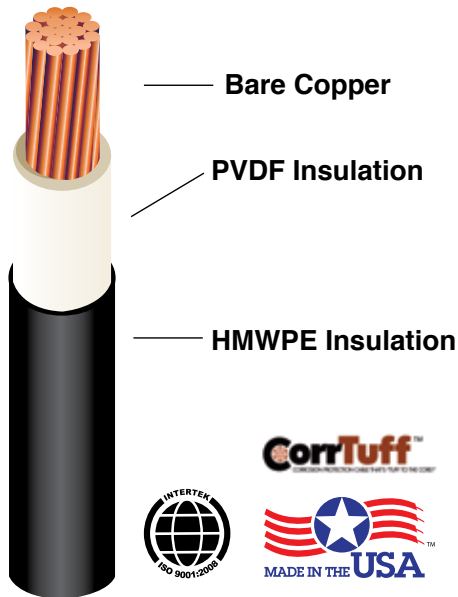
Cable Data

Part Number	AWG	Strand	ECTFE Insulation Thickness (mils)	HMWPE Insulation Thickness (mils)	Nominal Diameter (inches)	Approximate Net Weight lbs/1M'
214HHPE	14	7	20	65	.243	43
212HHPE	12	7	20	65	.262	47
210HHPE	10	7	20	65	.286	64
208HHPE	8	7	20	65	.316	81
206HHPE	6	7	20	65	.354	128
204HHPE	4	7	20	65	.402	173
202HHPE	2	7	20	65	.462	256
201HHPE	1	19	20	65	.502	319
2010HHPE	1/0	19	20	65	.543	393
2020HHPE	2/0	19	20	65	.589	487
2030HHPE	3/0	19	20	65	.640	601
2040HHPE	4/0	19	20	65	.695	749

Halar™ is a registered Trademark of Solvay

CATHODIC PROTECTION - SPECIALTY WIRE

Kynar™ / High Molecular Weight Polyethylene
14 - 4/0 AWG • 600 Volts • 75°C Dry and Wet



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC Size AWG
 PVDF/HMWPE Cathodic Protection Cable
 600V”

DESCRIPTION

ADC's PVDF cathodic protection cable has a Kynar™ insulation combined with a high molecular weight polyethylene final insulation.

APPLICATIONS

Appropriate for use in cathodic protection systems that require a deep anode lead wire where chlorine and hydrogen gases are generated. This cable can be installed directly in fresh, brackish or salt water.

CONSTRUCTION

Conductors: Annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: PVDF (Kynar™) insulation with HMWPE* final insulation overcoat. *HMWPE is available in High, Medium and Low Density

Colors: Black with print on one side with a contrasting ink. Other colors and Sequential foot markings available upon request.

INDUSTRY LISTINGS & STANDARDS

75°C Dry/Wet
 Direct Burial
 ASTM D-1248
 RoHS Compliant



Cable Data

Part Number	AWG	Strand	ECTFE Insulation Thickness (mils)	HMWPE Insulation Thickness (mils)	Nominal Diameter (inches)	Approximate Net Weight lbs/1M'
214KHPE	14	7	20	65	.243	45
212KHPE	12	7	20	65	.262	49
210KHPE	10	7	20	65	.286	66
208KHPE	8	7	20	65	.316	83
206KHPE	6	7	20	65	.354	130
204KHPE	4	7	20	65	.402	175
202KHPE	2	7	20	65	.462	258
201KHPE	1	19	20	65	.502	320
2010KHPE	1/0	19	20	65	.543	395
2020KHPE	2/0	19	20	65	.589	489
2030KHPE	3/0	19	20	65	.640	611
2040KHPE	4/0	19	20	65	.695	752

Kynar™ is a registered Trademark of Arkema



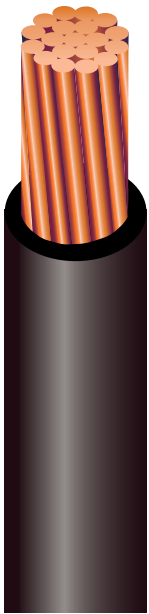
The information contained on this specification is intended to be used a guide in product selection and is believed to be reliable.

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 IC0115

PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

600 V RATED UL 4703 - PV PHOTOVOLTAIC WIRE

Cross-Linked Polyethylene Insulated
14 - 750 MCM • 600 Volts • -40°C to 90°C Wet or Dry



Bare Copper

XLPE Insulation



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC. XX AWG (UL) PV WIRE OR RHW-2 OR USE-2 90°C WET OR DRY (-40C) 600V SR GRII DIRECT BURIAL RoHS E324841”

DESCRIPTION

ADC's **Solarlink** brand Photovoltaic cable has a chemically cross-linked polyethylene insulation.

APPLICATIONS

For use in grounded interconnection and ungrounded Photovoltaic power systems.

CONSTRUCTION

Conductors: Stranded bare copper conductor per ASTM B-3, B-8. Available in 7 or 19 stranded versions as well as tinned copper.

Insulation: Chemically Cross-linked polyethylene

Colors: Black, Green, White, Red. Print on one side with a contrasting ink. An extruded stripe and other colors are available upon request.

INDUSTRY LISTINGS & STANDARDS

UL Listed as PV per UL Standard 4703
RHW-2 per UL Standard 44 and USE-2 per UL Standard 854
-40°C/90°C Wet or Dry Rated
Gasoline and Oil Resistant II
RoHS Compliant
Sunlight Resistant
VW-1 Flame Rating Optional



Cable Data

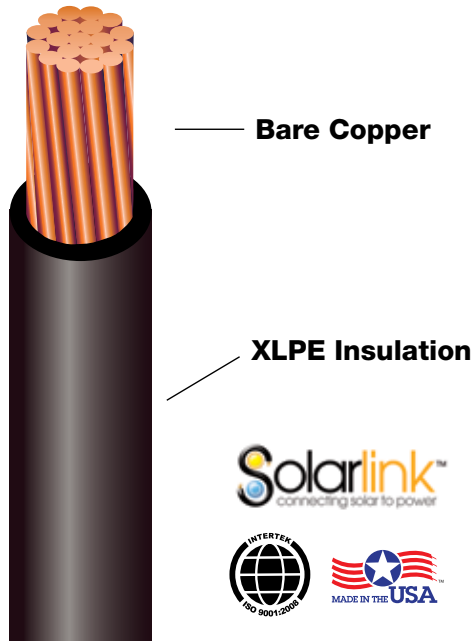
Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
314NPV	14	7	60	.191	24	12.78
312NPV	12	7	60	.212	33	20.20
310NPV	10	7	60	.234	46	32.05
308NPV	8	7	75	.294	74	51.05
306NPV	6	7	75	.331	107	80.90
304NPV	4	7	75	.379	161	128.90
303NPV	3	7	75	.407	197	162.50
302NPV	2	7	75	.439	243	204.90
301NPV	1	19	95	.478	306	258.00
3010NPV	1/0	19	95	.552	383	326.00
3020NPV	2/0	19	95	.596	471	411.00
3030NPV	3/0	19	95	.646	581	518.00
3040NPV	4/0	19	95	.702	727	653.00
30250NPV	250 MCM	37	110	.778	868	772.00
30300NPV	300 MCM	37	110	.825	1034	926.00
30350NPV	350 MCM	37	110	.881	1185	1081.00
30400NPV	400 MCM	37	110	.926	1352	1235.00
30500NPV	500 MCM	37	110	1.009	1659	1544.00
30600NPV	600 MCM	61	110	1.116	1824	1853.00
30750NPV	750 MCM	61	110	1.218	2500	2309.00

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

PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

1kV RATED UL 4703 - PV PHOTOVOLTAIC WIRE

Cross-Linked Polyethylene Insulated
14 - 750 MCM • 1000 Volts • -40°C to 90°C Wet or Dry



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC. XX AWG (UL)
 PV WIRE OR RHW-2 2000V OR USE-2 600V 90°C
 WET OR DRY (-40C) SR GRII DIRECT BURIAL RoHS
 E324841”

DESCRIPTION

ADC's **Solarlink** brand Photovoltaic cable has a chemically cross-linked polyethylene insulation.

APPLICATIONS

Appropriate for use in solar power applications that require 1,000 volt rating. For use in grounded interconnection and ungrounded Photovoltaic power systems.

CONSTRUCTION

Conductors: Stranded bare copper conductor per ASTM B-3, B-8. Available in 7 or 19 stranded versions as well as tinned copper.

Insulation: Chemically Cross-linked polyethylene

Colors: Black, Green, White, Red. Print on one side with a contrasting ink. An extruded stripe and other colors are available upon request.

INDUSTRY LISTINGS & STANDARDS

UL Listed as PV per UL Standard 4703
 RHW-2 per UL Standard 44 and USE-2 per UL Standard 854
 -40°C/90°C Wet or Dry Rated
 Gasoline and Oil Resistant II
 RoHS Compliant
 Sunlight Resistant
 VW-1 Flame Rating Optional



Cable Data

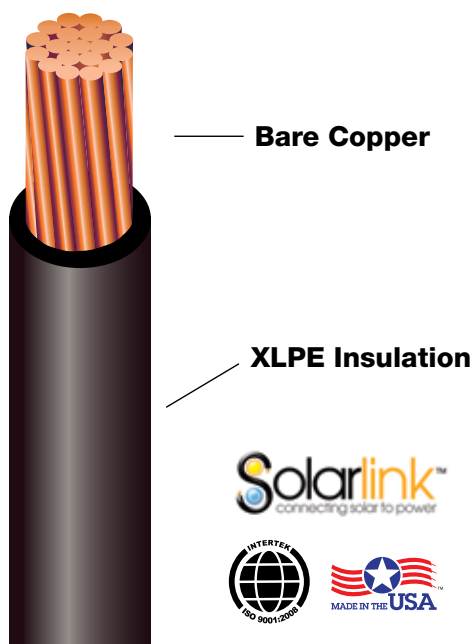
Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
3141NPV	14	7	75	.221	28	12.78
3121NPV	12	7	75	.242	38	20.20
3101NPV	10	7	75	.264	51	32.05
3081NPV	8	7	85	.314	78	51.05
3061NPV	6	7	85	.351	112	80.90
3041NPV	4	7	85	.399	166	128.90
3031NPV	3	7	85	.427	203	162.50
3021NPV	2	7	85	.459	249	204.90
3011NPV	1	19	105	.539	323	258.00
30101NPV	1/0	19	105	.572	390	326.00
30201NPV	2/0	19	105	.616	480	411.00
30301NPV	3/0	19	105	.667	590	518.00
30401NPV	4/0	19	105	.722	737	653.00
302501NPV	250 MCM	37	120	.798	879	772.00
303001NPV	300 MCM	37	120	.845	1045	926.00
303501NPV	350 MCM	37	120	.901	1198	1091.00
304001NPV	400 MCM	37	120	.946	1365	1235.00
305001NPV	500 MCM	37	120	1.029	1673	1544.00
306001NPV	600 MCM	61	135	1.136	2011	1853.00
307501NPV	750 MCM	61	135	1.238	2518	2309.00

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2kV RATED UL 4703 - PV PHOTOVOLTAIC WIRE

Cross-Linked Polyethylene Insulated
14 - 750 MCM • 2000 Volts • -40°C to 90°C Wet or Dry



CABLE IDENTIFICATION

“ADVANCED DIGITAL CABLE INC. XX AWG (UL)
PV WIRE OR RHW-2 2000V OR USE-2 600V 90°C
WET OR DRY (-40C) SR GRII DIRECT BURIAL RoHS
E324841”

DESCRIPTION

ADC's **Solarlink** brand Photovoltaic cable has a chemically cross-linked polyethylene insulation.

APPLICATIONS

Appropriate for use in solar power applications that require 1,000 volt rating. For use in grounded interconnection and ungrounded Photovoltaic power systems.

CONSTRUCTION

Conductors: Stranded bare copper conductor per ASTM B-3, B-8. Available in 7 or 19 stranded versions as well as tinned copper.

Insulation: Chemically Cross-linked polyethylene

Colors: Black, Green, White, Red. Print on one side with a contrasting ink. An extruded stripe and other colors are available upon request.

INDUSTRY LISTINGS & STANDARDS

UL Listed as PV per UL Standard 4703
RHW-2 per UL Standard 44 and USE-2 per UL Standard 854
-40°C/90°C Wet or Dry Rated
Gasoline and Oil Resistant II
RoHS Compliant
Sunlight Resistant
VW-1 Rated Flame Rating Optional



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
3142NPV	14	7	75	.221	28	12.78
3122NPV	12	7	75	.242	38	20.20
3102NPV	10	7	75	.264	51	32.05
3082NPV	8	7	85	.314	78	51.05
3062NPV	6	7	85	.351	112	80.90
3042NPV	4	7	85	.399	166	128.90
3032NPV	3	7	85	.427	203	162.50
3022NPV	2	7	85	.459	249	204.90
3012NPV	1	19	105	.539	323	258.00
30102NPV	1/0	19	105	.572	390	326.00
30202NPV	2/0	19	105	.616	480	411.00
30302NPV	3/0	19	105	.667	590	518.00
30402NPV	4/0	19	105	.722	737	653.00
302502NPV	250 MCM	37	120	.798	879	772.00
303002NPV	300 MCM	37	120	.845	1045	926.00
303502NPV	350 MCM	37	120	.901	1198	1081.00
304002NPV	400 MCM	37	120	.946	1365	1235.00
305002NPV	500 MCM	37	120	1.029	1673	1544.00
306002NPV	600 MCM	61	135	1.136	2011	1853.00
307502NPV	750 MCM	61	135	1.238	2518	2309.00

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DUAL PASS 600 V RATED UL 4703 - PV PHOTOVOLTAIC WIRE

Cross-Linked Polyethylene Insulated • PVC Jacketed
18 - 750 MCM • 600 Volts • 105°C Dry and 90°C Wet



- Bare Copper
- XLPE Insulation
- PVC Jacket



CABLE IDENTIFICATION

18-16 AWG:

“ADVANCED DIGITAL CABLE INC. XX AWG (UL) PV WIRE 600V 90C WET OR 105C DRY SUN RES UV RATED VW-1 DIRECT BURIAL RoHS E324841”

14 AWG-750 MCM:

“ADVANCED DIGITAL CABLE INC. XX AWG (UL) PV WIRE 600V 90C WET OR 105C DRY SUN RES UV RATED VW-1 OR RHW-2 DIRECT BURIAL RoHS E324841”

DESCRIPTION

ADC's **Solarlink** brand Photovoltaic cable has a chemically cross-linked polyethylene insulation with a sunlight resistant PVC jacket..

APPLICATIONS

Appropriate for use in solar power applications that require 600 volt rating. For use in grounded interconnection and ungrounded Photovoltaic power systems.

CONSTRUCTION

Conductors: Stranded bare copper conductor per ASTM B-3, B-8. Available in 7 or 19 stranded versions as well as tinned copper.

Insulation: White Chemically Cross-linked polyethylene with colored sunlight resistant PVC jacket.

Colors: Black, Green, White, Red. Print on one side with a contrasting ink. An extruded stripe and other colors are available upon request.

INDUSTRY LISTINGS & STANDARDS

UL Listed as PV per UL Standard 4703
 RHW-2 per UL Standard 44 and USE-2 per UL Standard 854
 90°C Wet/105°C Dry Rated
 Gasoline and Oil Resistant II
 RoHS Compliant
 Sunlight Resistant
 VW-1 Rated



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
318DPV	18	7	45	30	.196	21	5.40
316DPV	16	7	45	30	.208	25	7.97
314DPV	14	7	45	30	.221	33	12.78
312DPV	12	7	45	30	.240	43	20.20
310DPV	10	7	45	30	.264	56	32.05
308DPV	8	7	60	30	.324	90	51.05
306DPV	6	7	60	30	.361	125	80.90
304DPV	4	7	60	30	.409	183	128.90
303DPV	3	7	60	30	.440	218	162.50
302DPV	2	7	60	30	.469	267	204.90
301DPV	1	19	80	30	.552	350	258.00
3010DPV	1/0	19	80	30	.582	417	326.00
3020DPV	2/0	19	80	30	.626	508	411.00
3030DPV	3/0	19	80	30	.676	621	518.00
3040DPV	4/0	19	80	30	.732	770	653.00
30250DPV	250 MCM	37	95	30	.808	920	772.00
30300DPV	300 MCM	37	95	30	.855	1089	926.00
30350DPV	350 MCM	37	95	30	.911	1244	1081.00
30400DPV	400 MCM	37	95	30	.956	1414	1235.00
30500DPV	500 MCM	37	95	30	1.039	1727	1544.00
30600DPV	600 MCM	61	110	30	1.116	2046	1853.00
30750DPV	750 MCM	61	110	30	1.218	2557	2309.00

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DUAL PASS 1kV RATED UL 4703 - PV PHOTOVOLTAIC WIRE

Cross-Linked Polyethylene Insulated • PVC Jacketed
18 - 750 MCM • 1000 Volts • 105°C Dry and 90°C Wet



- Bare Copper
- XLPE Insulation
- PVC Jacket



CABLE IDENTIFICATION

18-16 AWG:

“ADVANCED DIGITAL CABLE INC. XX AWG (UL) PV WIRE 2KV 90C WET OR 105C DRY SUN RES UV RATED VW-1 DIRECT BURIAL RoHS E324841”

14 AWG-750 MCM:

“ADVANCED DIGITAL CABLE INC. XX AWG (UL) PV WIRE 2KV 90C WET OR 105C DRY SUN RES UV RATED VW-1 OR RHW-2 DIRECT BURIAL RoHS E324841”

DESCRIPTION

ADC's *Solarlink* brand Photovoltaic cable has a chemically cross-linked polyethylene insulation with a sunlight resistant PVC jacket..

APPLICATIONS

Appropriate for use in solar power applications that require 1,000 volt rating. For use in grounded interconnection and ungrounded Photovoltaic power systems.

CONSTRUCTION

Conductors: Stranded bare copper conductor per ASTM B-3, B-8. Available in 7 or 19 stranded versions as well as tinned copper.

Insulation: White Chemically Cross-linked polyethylene with colored sunlight resistant PVC jacket.

Colors: Black, Green, White, Red. Print on one side with a contrasting ink. An extruded stripe and other colors are available upon request.

INDUSTRY LISTINGS & STANDARDS

UL Listed as PV per UL Standard 4703
 RHW-2 per UL Standard 44 and USE-2 per UL Standard 854
 90°C Wet/105°C Dry Rated
 Gasoline and Oil Resistant II
 RoHS Compliant
 Sunlight Resistant
 VW-1 Rated



Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
3181DPV	18	7	60	30	.226	27	5.40
3161DPV	16	7	60	30	.238	32	7.97
3141DPV	14	7	60	30	.251	39	12.78
3121DPV	12	7	60	30	.270	49	20.20
3101DPV	10	7	60	30	.294	65	32.05
3081DPV	8	7	70	30	.344	95	51.05
3061DPV	6	7	70	30	.381	130	80.90
3041DPV	4	7	70	30	.429	188	128.90
3031DPV	3	7	70	30	.457	228	162.50
3021DPV	2	7	70	30	.489	277	204.90
3011DPV	1	19	90	30	.569	358	258.00
30101DPV	1/0	19	90	30	.602	427	326.00
30201DPV	2/0	19	90	30	.646	519	411.00
30301DPV	3/0	19	90	30	.696	633	518.00
30401DPV	4/0	19	90	30	.752	784	653.00
302501DPV	250 MCM	37	105	30	.828	934	772.00
303001DPV	300 MCM	37	105	30	.875	1104	926.00
303501DPV	350 MCM	37	105	30	.931	1260	1081.00
304001DPV	400 MCM	37	105	30	.976	1431	1235.00
305001DPV	500 MCM	37	105	30	1.059	1745	1544.00
306001DPV	600 MCM	61	120	30	1.166	2097	1853.00
307501DPV	750 MCM	61	120	30	1.268	2612	2309.00

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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DUAL PASS 2kV RATED UL4703 - PV PHOTOVOLTAIC WIRE

Cross-Linked Polyethylene Insulated • PVC Jacketed
18 - 750 MCM • 2000 Volts • 105°C Dry and 90°C Wet



- Bare Copper
- XLPE Insulation
- PVC Jacket



CABLE IDENTIFICATION

18-16 AWG:
 "ADVANCED DIGITAL CABLE INC. XX AWG (UL) PV WIRE 2KV 90C WET OR 105C DRY SUN RES UV RATED VW-1 DIRECT BURIAL RoHS E324841"

14 AWG-750 MCM:
 "ADVANCED DIGITAL CABLE INC. XX AWG (UL) PV WIRE 2KV 90C WET OR 105C DRY SUN RES UV RATED VW-1 OR RHW-2 DIRECT BURIAL RoHS E324841"

DESCRIPTION

ADC's **Solarlink** brand Photovoltaic cable has a chemically cross-linked polyethylene insulation with a sunlight resistant PVC jacket..

APPLICATIONS

Appropriate for use in solar power applications that require 2,000 volt rating. For use in grounded interconnection and ungrounded Photovoltaic power systems.

CONSTRUCTION

Conductors: Stranded bare copper conductor per ASTM B-3, B-8. Available in 7 or 19 stranded versions as well as tinned copper.

Insulation: White Chemically Cross-linked polyethylene with colored sunlight resistant PVC jacket.

Colors: Black, Green, White, Red. Print on one side with a contrasting ink. An extruded stripe and other colors are available upon request.

INDUSTRY LISTINGS & STANDARDS

UL Listed as PV per UL Standard 4703
 RHW-2 per UL Standard 44 and USE-2 per UL Standard 854
 90°C Wet/105°C Dry Rated
 Gasoline and Oil Resistant II
 RoHS Compliant
 Sunlight Resistant
 VW-1 Rated



Cable Data							
Part Number	AWG	Strand	Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs/1M'	Copper Weight per lbs/1M'
3182DPV	18	7	60	30	.226	27	5.40
3162DPV	16	7	60	30	.238	32	7.97
3142DPV	14	7	60	30	.251	39	12.78
3122DPV	12	7	60	30	.270	49	20.20
3102DPV	10	7	60	30	.294	65	32.05
3082DPV	8	7	70	30	.344	95	51.05
3062DPV	6	7	70	30	.381	130	80.90
3042DPV	4	7	70	30	.429	188	128.90
3032DPV	3	7	70	30	.457	228	162.50
3022DPV	2	7	70	30	.489	277	204.90
3012DPV	1	19	90	30	.569	358	258.00
30102DPV	1/0	19	90	30	.602	427	326.00
30202DPV	2/0	19	90	30	.646	519	411.00
30302DPV	3/0	19	90	30	.696	633	518.00
30402DPV	4/0	19	90	30	.752	784	653.00
302502DPV	250 MCM	37	105	30	.828	934	772.00
303002DPV	300 MCM	37	105	30	.875	1104	926.00
303502DPV	350 MCM	37	105	30	.931	1260	1081.00
304002DPV	400 MCM	37	105	30	.976	1431	1235.00
305002DPV	500 MCM	37	105	30	1.059	1745	1544.00
306002DPV	600 MCM	61	120	30	1.166	2097	1853.00
307502DPV	750 MCM	61	120	30	1.268	2612	2309.00

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



Color Code Chart

ICEA Method E1(K-1)

Cond. #	Base Color	First Stripe Color	Second Stripe Color
1	Black	-	-
2	White	-	-
3	Red	-	-
4	Green	-	-
5	Orange	-	-
6	Blue	-	-
7	White	Black	-
8	Red	Black	-
9	Green	Black	-
10	Orange	Black	-
11	Blue	Black	-
12	Black	White	-
13	Red	White	-
14	Green	White	-
15	Blue	White	-
16	Black	Red	-
17	White	Red	-
18	Orange	Red	-
19	Blue	Red	-
20	Red	Green	-
21	Orange	Green	-
22	Black	White	Red
23	White	Black	Red
24	Red	Black	White
25	Green	Black	White

Pair cables are Black, White and numbered. Triad cables are Black, White, Red and numbered.

ICEA Method E2(K-2)

Cond. #	Base Color	Tracer Color
1	Black	-
2	Red	-
3	Blue	-
4	Orange	-
5	Yellow	-
6	Brown	-
7	Red	Black
8	Blue	Black
9	Orange	Black
10	Yellow	Black
11	Brown	Black
12	Black	Red
13	Blue	Red
14	Orange	Red
15	Yellow	Red
16	Brown	Red
17	Black	Blue
18	Red	Blue
19	Orange	Blue
20	Yellow	Blue
21	Brown	Blue
22	Black	Orange
23	Red	Orange
24	Blue	Orange
25	Yellow	Orange

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered. There are no Green or White conductors or stripes.

Method 4 - All Conductors Black

Conductor	Conductor Printing
1st	"1 - One"
2nd	"2 - Two"
3rd	"3 - Three"
4th	"4 - Four"
5th	"5 - Five"

PART NUMBER INDEX

Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number
201	40	5207	25	6212	19	51106	31	60803	23
201	47	5208	25	6215	19	51107	31	60804	23
202	40	5209	25	6219	19	51108	31	100221	35
202	47	5210	25	6225	19	51109	31	100321	35
203	40	5212	25	6402	19	51110	31	100421	35
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