

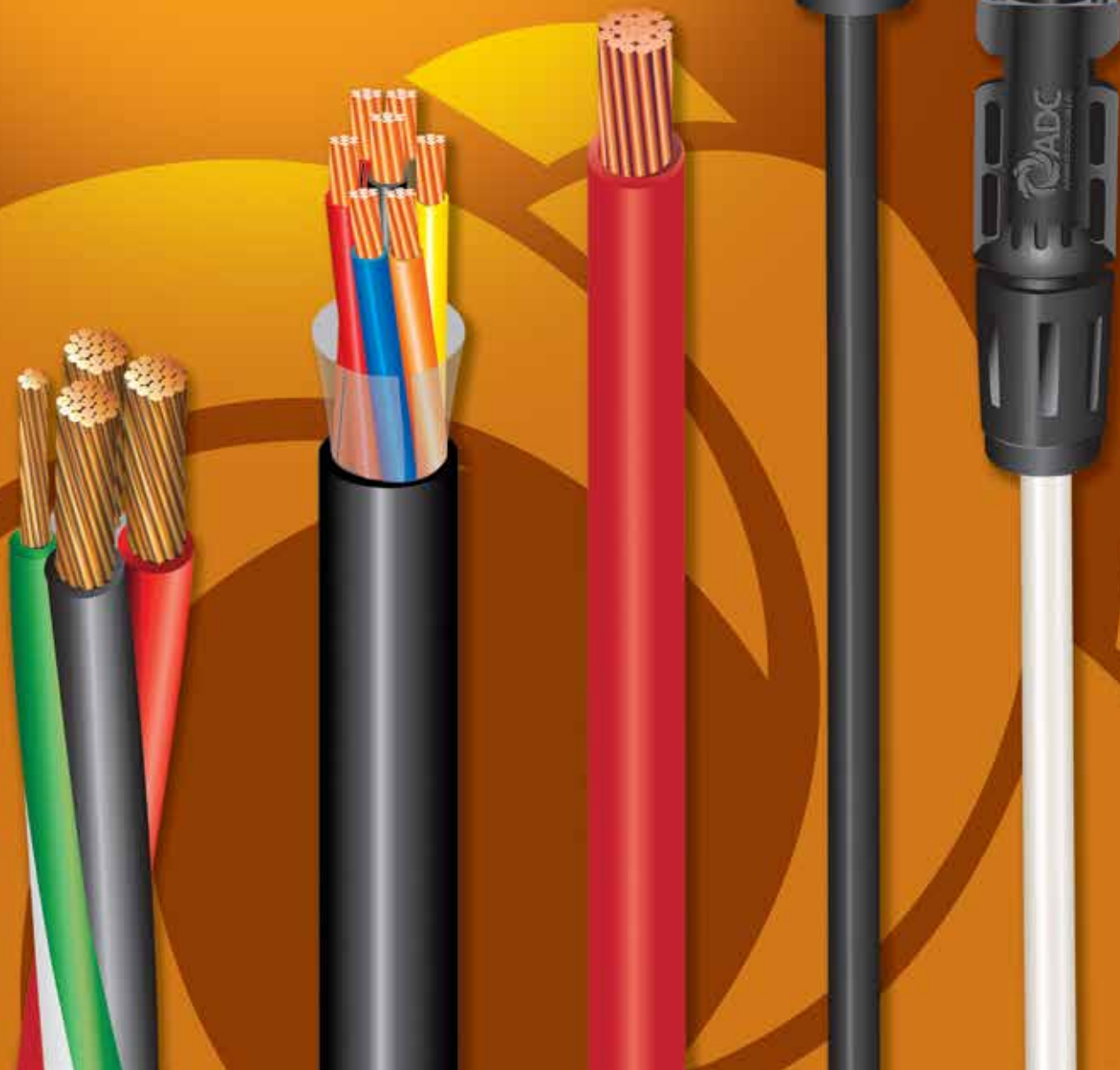


ADC

ADVANCED DIGITAL CABLE INC.

RENEWABLE ENERGY

WIRE & CABLE CATALOG





ADVANCED DIGITAL CABLE INC.

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

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ABOUT ADC

Advanced Digital Cable (ADC) was founded in 1997 and began making coaxial cable for the booming digital cable market. Since that time ADC has grown to be a key manufacturer of not only digital coaxial cable but a wide range of cables designed and built for renewable energy applications.

ADC was built from the ground up with progressive and innovative technology and equipment. Its people represent over 500 years of wire and cable experience promising an unsurpassed dedication to developing and manufacturing the highest quality products in the industry. ADC is committed to continuous improvement and its Quality Management System is ISO 9001:2015 Registered ensuring that our cables meet the highest levels of quality.

ADC proudly manufactures all of its cable in the USA and we are committed to manufacture and deliver quality wire and cable for many renewable energy applications.

USE-2 POWER CABLE

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



— Bare Copper

— XLPE Insulation



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 SUN RES DIR BUR 600V c(UL) RW90 1KV RoHS”

Description

Single conductor, 90C Wet/Dry. 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 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 B-3. Class B Stranding per ASTM B-8.

Insulation: Chemically cross-linked polyethylene

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

Industry Listings & Standards

UL Listed as XLP USE-2 or RHH/RHW-2 per Standards 854 and 44

ICEA S-95-658/NEMA WC-70

Federal Specification A-A-59544

90°C Wet/Dry -40°C Rated

Gasoline and Oil Resistant II

C(UL)US RW90 1000V Listed

Sunlight Resistant

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' | Ampacity 90°C Wet/Dry |
|-------------|---------|--------|-----------------------------|---------------------|--------------------------------|-----------------------|
| 314 | 14 | 7 | 45 | .161 | 22 | 35 |
| 312 | 12 | 7 | 45 | .181 | 30 | 40 |
| 310 | 10 | 7 | 45 | .204 | 45 | 55 |
| 308 | 8 | 7 | 60 | .264 | 73 | 80 |
| 306 | 6 | 7 | 60 | .301 | 107 | 105 |
| 304 | 4 | 7 | 60 | .349 | 161 | 140 |
| 303 | 3 | 7 | 60 | .377 | 189 | 165 |
| 302 | 2 | 7 | 60 | .409 | 244 | 190 |
| 301 | 1 | 19 | 80 | .489 | 305 | 220 |
| 3010 | 1/0 | 19 | 80 | .522 | 372 | 260 |
| 3020 | 2/0 | 19 | 80 | .566 | 460 | 300 |
| 3030 | 3/0 | 19 | 80 | .616 | 568 | 350 |
| 3040 | 4/0 | 19 | 80 | .672 | 713 | 405 |
| 30250 | 250 MCM | 37 | 95 | .748 | 853 | 455 |
| 30300 | 300 MCM | 37 | 95 | .795 | 1017 | 505 |
| 30350 | 350 MCM | 37 | 95 | .851 | 1167 | 570 |
| 30400 | 400 MCM | 37 | 95 | .896 | 1333 | 615 |
| 30500 | 500 MCM | 37 | 95 | .979 | 1638 | 700 |
| 30600 | 600 MCM | 61 | 110 | 1.086 | 1823 | 780 |
| 30750 | 750 MCM | 61 | 110 | 1.188 | 2476 | 885 |

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. REV0618

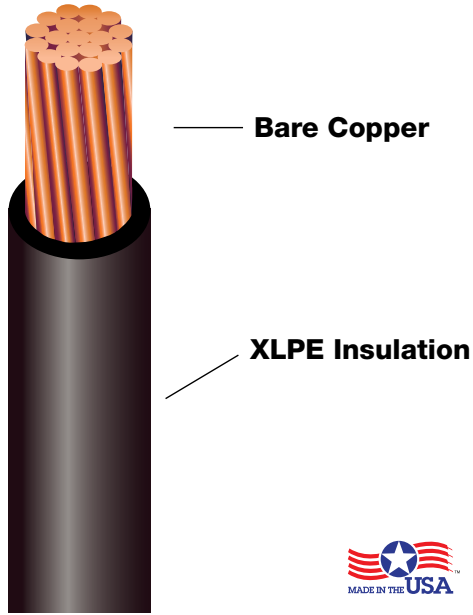
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USE-2 POWER CABLE



RHW-2 or RHH - 2000V

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



Cable Identification

“ADVANCED DIGITAL CABLE, INC. 10 AWG XLP
(UL) TYPE RHH OR RHW-2 2KV 90C (-40C) GR II
SR E218985 RoHS”

Description

ADC's RHW-2 or RHH is a single conductor stranded copper 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: Conforms to ASTM B-8 Class B with other classes available upon request.

Insulation: Cross-linked polyethylene

Colors: Black- Other colors available upon request. Consult factory for minimum requirements.

Industry Listings & Standards

90°C Wet or Dry
ICEA S-95-658/NEMA WC70
Federal Specification A-A-59544
Meets UL 44 & 854 Requirements
RoHS Compliant
Sunlight Resistant
CT Rated and/or VW-1 Rated available upon request



Cable Data

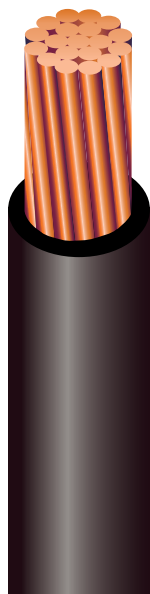
| Part Number | AWG | Strand | Insulation Thickness (mils) | Nominal O.D. (inch) | Approximate Net Weight lbs/1M' |
|-------------|---------|--------|-----------------------------|---------------------|--------------------------------|
| 314RH | 14 | 7 | 60 | .191 | 24 |
| 312RH | 12 | 7 | 60 | .211 | 33 |
| 310RH | 10 | 7 | 60 | .234 | 46 |
| 308RH | 8 | 7 | 70 | .284 | 73 |
| 306RH | 6 | 7 | 70 | .321 | 106 |
| 304RH | 4 | 7 | 70 | .369 | 156 |
| 303RH | 3 | 7 | 70 | .397 | 195 |
| 302RH | 2 | 7 | 70 | .429 | 236 |
| 301RH | 1 | 19 | 90 | .509 | 311 |
| 3010RH | 1/0 | 19 | 90 | .542 | 379 |
| 3020RH | 2/0 | 19 | 90 | .586 | 468 |
| 3030RH | 3/0 | 19 | 90 | .636 | 576 |
| 3040RH | 4/0 | 19 | 90 | .692 | 722 |
| 30250RH | 250 MCM | 37 | 105 | .768 | 863 |
| 30300RH | 300 MCM | 37 | 105 | .815 | 1028 |
| 30350RH | 350 MCM | 37 | 105 | .871 | 1179 |
| 30400RH | 400 MCM | 37 | 105 | .916 | 1345 |
| 30500RH | 500 MCM | 37 | 105 | .999 | 1652 |
| 30600RH | 600 MCM | 61 | 120 | 1.106 | 1988 |
| 30750RH | 750 MCM | 61 | 120 | 1.208 | 2492 |

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600V Rated PV

Cross-Linked Polyethylene Insulated
14 - 750 MCM • 600 Volts • -40°C to 90°C Wet and 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 GR11 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 and Dry Rated

Gasoline and Oil Resistant II

RoHS Compliant

Sunlight Resistant

VW-1 Flame Rating Optional



Cable Data

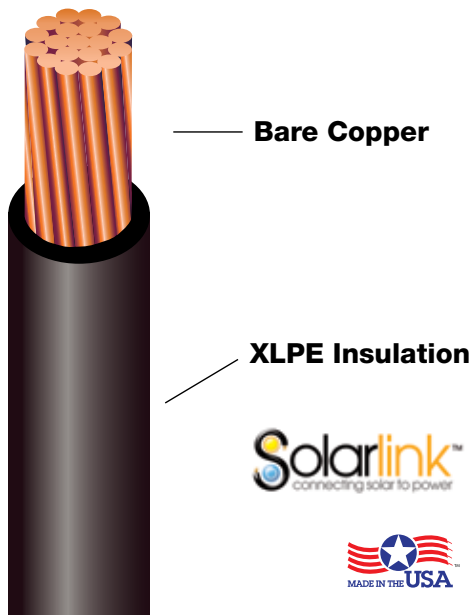
| Part Number | AWG | Strand | Insulation Thickness (mils) | Nominal O.D. (inch) | Approximate Net Weight lbs/1M' |
|-------------|---------|--------|-----------------------------|---------------------|--------------------------------|
| 314NPV | 14 | 7 | 60 | .191 | 24 |
| 312NPV | 12 | 7 | 60 | .212 | 33 |
| 310NPV | 10 | 7 | 60 | .234 | 46 |
| 308NPV | 8 | 7 | 75 | .294 | 74 |
| 306NPV | 6 | 7 | 75 | .331 | 107 |
| 304NPV | 4 | 7 | 75 | .379 | 161 |
| 303NPV | 3 | 7 | 75 | .407 | 197 |
| 302NPV | 2 | 7 | 75 | .439 | 243 |
| 301NPV | 1 | 19 | 95 | .478 | 306 |
| 3010NPV | 1/0 | 19 | 95 | .552 | 383 |
| 3020NPV | 2/0 | 19 | 95 | .596 | 471 |
| 3030NPV | 3/0 | 19 | 95 | .646 | 581 |
| 3040NPV | 4/0 | 19 | 95 | .702 | 727 |
| 30250NPV | 250 MCM | 37 | 110 | .778 | 868 |
| 30300NPV | 300 MCM | 37 | 110 | .825 | 1034 |
| 30350NPV | 350 MCM | 37 | 110 | .881 | 1185 |
| 30400NPV | 400 MCM | 37 | 110 | .926 | 1352 |
| 30500NPV | 500 MCM | 37 | 110 | 1.009 | 1659 |
| 30600NPV | 600 MCM | 61 | 125 | 1.116 | 1824 |
| 30750NPV | 750 MCM | 61 | 125 | 1.218 | 2500 |

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2kV Rated PV

Cross-Linked Polyethylene Insulated
14 - 750 MCM • 2000 Volts • -40°C to 90°C Wet and 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 GR11 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 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: 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 and 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' |
|-------------|---------|--------|-----------------------------|---------------------|--------------------------------|
| 3142NPV | 14 | 7 | 75 | .221 | 28 |
| 3122NPV | 12 | 7 | 75 | .242 | 38 |
| 3102NPV | 10 | 7 | 75 | .264 | 51 |
| 3082NPV | 8 | 7 | 85 | .314 | 78 |
| 3062NPV | 6 | 7 | 85 | .351 | 112 |
| 3042NPV | 4 | 7 | 85 | .399 | 166 |
| 3032NPV | 3 | 7 | 85 | .427 | 203 |
| 3022NPV | 2 | 7 | 85 | .459 | 249 |
| 3012NPV | 1 | 19 | 105 | .539 | 323 |
| 30102NPV | 1/0 | 19 | 105 | .572 | 390 |
| 30202NPV | 2/0 | 19 | 105 | .616 | 480 |
| 30302NPV | 3/0 | 19 | 105 | .667 | 590 |
| 30402NPV | 4/0 | 19 | 105 | .722 | 737 |
| 302502NPV | 250 MCM | 37 | 120 | .798 | 879 |
| 303002NPV | 300 MCM | 37 | 120 | .845 | 1045 |
| 303502NPV | 350 MCM | 37 | 120 | .901 | 1198 |
| 304002NPV | 400 MCM | 37 | 120 | .946 | 1365 |
| 305002NPV | 500 MCM | 37 | 120 | 1.029 | 1673 |
| 306002NPV | 600 MCM | 61 | 135 | 1.136 | 2011 |
| 307502NPV | 750 MCM | 61 | 135 | 1.238 | 2518 |

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Dual Pass 600V Rated PV

Cross-Linked Polyethylene Insulated • PVC Jacketed
14 - 750 MCM • 600 Volts • 105°C Dry and 90°C Wet



- Bare Copper
- XLPE Insulation
- PVC Jacket



Cable Identification

“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' |
|-------------|---------|--------|-----------------------------|-------------------------|---------------------|--------------------------------|
| 314DPV | 14 | 7 | 45 | 30 | .221 | 33 |
| 312DPV | 12 | 7 | 45 | 30 | .240 | 43 |
| 310DPV | 10 | 7 | 45 | 30 | .264 | 56 |
| 308DPV | 8 | 7 | 60 | 30 | .324 | 90 |
| 306DPV | 6 | 7 | 60 | 30 | .361 | 125 |
| 304DPV | 4 | 7 | 60 | 30 | .409 | 183 |
| 303DPV | 3 | 7 | 60 | 30 | .440 | 218 |
| 302DPV | 2 | 7 | 60 | 30 | .469 | 267 |
| 301DPV | 1 | 19 | 80 | 30 | .552 | 350 |
| 3010DPV | 1/0 | 19 | 80 | 30 | .582 | 417 |
| 3020DPV | 2/0 | 19 | 80 | 30 | .626 | 508 |
| 3030DPV | 3/0 | 19 | 80 | 30 | .676 | 621 |
| 3040DPV | 4/0 | 19 | 80 | 30 | .732 | 770 |
| 30250DPV | 250 MCM | 37 | 95 | 30 | .808 | 920 |
| 30300DPV | 300 MCM | 37 | 95 | 30 | .855 | 1089 |
| 30350DPV | 350 MCM | 37 | 95 | 30 | .911 | 1244 |
| 30400DPV | 400 MCM | 37 | 95 | 30 | .956 | 1414 |
| 30500DPV | 500 MCM | 37 | 95 | 30 | 1.039 | 1727 |
| 30600DPV | 600 MCM | 61 | 110 | 30 | 1.116 | 2046 |
| 30750DPV | 750 MCM | 61 | 110 | 30 | 1.218 | 2557 |

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. REV0821

Dual Pass 2kV Rated PV

Cross-Linked Polyethylene Insulated • PVC Jacketed
14 - 750 MCM • 2000 Volts • 105°C Dry and 90°C Wet



- Bare Copper
- XLPE Insulation
- PVC Jacket



Cable Identification

“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' |
|-------------|---------|--------|-----------------------------|-------------------------|---------------------|--------------------------------|
| 3142DPV | 14 | 7 | 60 | 30 | .251 | 39 |
| 3122DPV | 12 | 7 | 60 | 30 | .270 | 49 |
| 3102DPV | 10 | 7 | 60 | 30 | .294 | 65 |
| 3082DPV | 8 | 7 | 70 | 30 | .344 | 95 |
| 3062DPV | 6 | 7 | 70 | 30 | .381 | 130 |
| 3042DPV | 4 | 7 | 70 | 30 | .429 | 188 |
| 3032DPV | 3 | 7 | 70 | 30 | .457 | 228 |
| 3022DPV | 2 | 7 | 70 | 30 | .489 | 277 |
| 3012DPV | 1 | 19 | 90 | 30 | .569 | 358 |
| 30102DPV | 1/0 | 19 | 90 | 30 | .602 | 427 |
| 30202DPV | 2/0 | 19 | 90 | 30 | .646 | 519 |
| 30302DPV | 3/0 | 19 | 90 | 30 | .696 | 633 |
| 30402DPV | 4/0 | 19 | 90 | 30 | .752 | 784 |
| 302502DPV | 250 MCM | 37 | 105 | 30 | .828 | 934 |
| 303002DPV | 300 MCM | 37 | 105 | 30 | .875 | 1104 |
| 303502DPV | 350 MCM | 37 | 105 | 30 | .931 | 1260 |
| 304002DPV | 400 MCM | 37 | 105 | 30 | .976 | 1431 |
| 305002DPV | 500 MCM | 37 | 105 | 30 | 1.059 | 1745 |
| 306002DPV | 600 MCM | 61 | 120 | 30 | 1.166 | 2097 |
| 307502DPV | 750 MCM | 61 | 120 | 30 | 1.268 | 2612 |

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USE-2 POWER CABLE

Cross-Linked Polyethylene Insulated
8 - 1000 MCM • 600 Volts • 90°C Dry and Wet



8000 Series
Aluminum

XLPE Insulation



Cable Identification

“ADVANCED DIGITAL CABLE, INC. XXAWG (xxmm²)
AA-8000 AL COMPACT XLP 90C (-40C) E197262
(UL) TYPE RHH OR RHW-2 OR USE-2 GR11 SR DIR
BUR 600V c(UL) RW90 1KV RoHS”

Description

Single conductor, 90C Wet/Dry. Insulated with chemically cross-linked polyethylene insulation.

Applications

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

Construction

Conductors: ACM 8000 Series Aluminum class B compact stranded per ASTM B836/B801

Insulation: Chemically cross-linked polyethylene

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

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 Specification A-A-59544

90°C Wet/Dry -40°C Rated

Gasoline and Oil Resistant II

C(UL)US RW90 1000V Listed

Sunlight Resistant

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' | Aluminum Weight per lbs/1M' |
|-------------|----------|--------|-----------------------------|---------------------|--------------------------------|-----------------------------|
| 308AL | 8 | 7 | 60 | .254 | 32 | 15.5 |
| 306AL | 6 | 7 | 60 | .289 | 44 | 24.7 |
| 304AL | 4 | 7 | 60 | .333 | 62 | 39.3 |
| 303AL | 3 | 7 | 60 | .358 | 75 | 49.5 |
| 302AL | 2 | 7 | 60 | .388 | 90 | 62.5 |
| 301AL | 1 | 8 | 80 | .459 | 120 | 79 |
| 3010AL | 1/0 | 10 | 80 | .496 | 146 | 100 |
| 3020AL | 2/0 | 12 | 80 | .536 | 176 | 125 |
| 3030AL | 3/0 | 16 | 80 | .583 | 213 | 157 |
| 3040AL | 4/0 | 19 | 80 | .635 | 260 | 198 |
| 30250AL | 250 MCM | 23 | 95 | .704 | 314 | 234 |
| 30300AL | 300 MCM | 22 | 95 | .756 | 367 | 281 |
| 30350AL | 350 MCM | 26 | 95 | .797 | 420 | 328 |
| 30400AL | 400 MCM | 37 | 95 | .849 | 475 | 376 |
| 30500AL | 500 MCM | 37 | 95 | .926 | 580 | 471 |
| 30600AL | 600 MCM | 61 | 110 | 1.033 | 705 | 565 |
| 30750AL | 750 MCM | 61 | 110 | 1.128 | 861 | 706 |
| 301000AL | 1000 MCM | 61 | 110 | 1.280 | 1119 | 941 |

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. REV0919

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USE-2 POWER CABLE



RHW-2 or RHH - 2000V

Cross-Linked Polyethylene Insulated
8- 1000 MCM • 2000 Volts • 90°C Dry and Wet



8000 Series Aluminum

XLPE Insulation



Cable Identification

“ADVANCED DIGITAL CABLE, INC. XX AWG (xxmm²) AA-8000 AL COMPACT XLP 90C (-40C) E197262 (UL) TYPE RHH OR RHW-2 2KV OR USE-2 600V GR11 SR DIR BUR c(UL) RW90 2KV RoHS”

Description

ADC’s RHW-2 or RHH is a single conductor stranded aluminum 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: ACM 8000 Series Aluminum class B compact stranded per ASTM B836/B801

Insulation: Cross-linked polyethylene

Colors: Black- Other colors available upon request. Consult factory for minimum requirements.

Industry Listings & Standards

- 90°C Wet or Dry
- ICEA S-95-658/NEMA WC70
- Federal Specification A-A-59544
- Meets UL 44 & 854 Requirements
- FT2 Flame Rated
- RoHS Compliant
- Sunlight Resistant
- 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' | Aluminium Weight per lbs/1M' |
|-------------|----------|--------|-----------------------------|---------------------|--------------------------------|------------------------------|
| 308ALRH | 8 | 7 | 70 | .274 | 36 | 15.5 |
| 306ALRH | 6 | 7 | 70 | .309 | 48 | 24.7 |
| 304ALRH | 4 | 7 | 70 | .353 | 67 | 39.3 |
| 303ALRH | 3 | 7 | 70 | .378 | 79 | 49.5 |
| 302ALRH | 2 | 7 | 70 | .408 | 96 | 62.5 |
| 301ALRH | 1 | 8 | 90 | .479 | 128 | 78.4 |
| 3010ALRH | 1/0 | 10 | 90 | .516 | 153 | 99.4 |
| 3020ALRH | 2/0 | 12 | 90 | .556 | 175 | 125 |
| 3030ALRH | 3/0 | 16 | 90 | .603 | 220 | 157 |
| 3040ALRH | 4/0 | 19 | 90 | .655 | 270 | 199 |
| 30250ALRH | 250 MCM | 23 | 105 | .724 | 330 | 234 |
| 30300ALRH | 300 MCM | 22 | 105 | .776 | 380 | 281 |
| 30350ALRH | 350 MCM | 26 | 105 | .817 | 430 | 328 |
| 30400ALRH | 400 MCM | 37 | 105 | .869 | 490 | 376 |
| 30500ALRH | 500 MCM | 37 | 105 | .946 | 600 | 471 |
| 30600ALRH | 600 MCM | 61 | 120 | 1.053 | 720 | 565 |
| 30750ALRH | 750 MCM | 61 | 120 | 1.148 | 880 | 706 |
| 301000ALRH | 1000 MCM | 61 | 120 | 1.300 | 1140 | 941 |

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. REV0919



2kV Rated PV

Cross-Linked Polyethylene Insulated
8 - 1000 MCM • 2000 Volts • -40°C to 90°C Wet and Dry



8000 Series Aluminum

XLPE Insulation



Cable Identification

“ADVANCED DIGITAL CABLE, INC. XX AWG (xxmm²) AA-8000 AL COMPACT XLP (UL) PV WIRE OR RHW-2 2000V OR USE-2 600V 90C 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 2,000 volt rating. For use in grounded interconnection and ungrounded Photovoltaic power systems.

Construction

Conductors: ACM 8000 Series Aluminum class B compact stranded per ASTM B836/B801

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 and 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' | Aluminum Weight per lbs/1M' |
|--------------|----------|--------|-----------------------------|---------------------|--------------------------------|-----------------------------|
| 3082ALNPV | 8 | 7 | 85 | .304 | 42 | 15.5 |
| 3062ALNPV | 6 | 7 | 85 | .339 | 55 | 24.7 |
| 3042ALNPV | 4 | 7 | 85 | .383 | 75 | 39.3 |
| 3032ALNPV | 3 | 7 | 85 | .408 | 88 | 49.5 |
| 3022ALNPV | 2 | 7 | 85 | .438 | 104 | 62.5 |
| 3012ALNPV | 1 | 8 | 105 | .509 | 137 | 78.4 |
| 30102ALNPV | 1/0 | 10 | 105 | .546 | 164 | 99.4 |
| 30202ALNPV | 2/0 | 12 | 105 | .586 | 195 | 125 |
| 30302ALNPV | 3/0 | 16 | 105 | .633 | 234 | 157 |
| 30402ALNPV | 4/0 | 19 | 105 | .685 | 283 | 198 |
| 302502ALNPV | 250 MCM | 23 | 120 | .754 | 339 | 234 |
| 303002ALNPV | 300 MCM | 22 | 120 | .806 | 395 | 281 |
| 303502ALNPV | 350 MCM | 26 | 120 | .847 | 449 | 328 |
| 304002ALNPV | 400 MCM | 37 | 120 | .899 | 505 | 376 |
| 305002ALNPV | 500 MCM | 37 | 120 | .976 | 613 | 471 |
| 306002ALNPV | 600 MCM | 61 | 135 | 1.083 | 742 | 565 |
| 307502ALNPV | 750 MCM | 61 | 135 | 1.178 | 900 | 706 |
| 3010002ALNPV | 1000 MCM | 61 | 135 | 1.330 | 1164 | 941 |

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. REV0821

Bare Copper

Soft Drawn Stranded and Solid Bare Copper
14 - 750 MCM



— **Stranded
Bare Copper**

Description

ADC's Soft Drawn Bare Copper

Applications

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

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 | 0.0641 | 12.00 |
| BC12 | 12 | Solid | 6529 | 0.0808 | 20.00 |
| BC10 | 10 | Solid | 10362 | 0.102 | 31.00 |
| BC08 | 8 | Solid | 16510 | 0.129 | 50.00 |
| BC06 | 6 | Solid | 26240 | 0.162 | 79.00 |
| BC087S | 8 | 7 | 16510 | 0.146 | 51.00 |
| BC067S | 6 | 7 | 26240 | 0.184 | 81.00 |
| BC047S | 4 | 7 | 41740 | 0.232 | 129.00 |
| BC037S | 3 | 7 | 52620 | 0.260 | 163.00 |
| BC027S | 2 | 7 | 66360 | 0.292 | 205.00 |
| BC0119S | 1 | 19 | 83690 | 0.332 | 258.00 |
| BC01019S | 1/0 | 19 | 105600 | 0.373 | 326.00 |
| BC02019S | 2/0 | 19 | 133100 | 0.419 | 411.00 |
| BC03019S | 3/0 | 19 | 167800 | 0.470 | 518.00 |
| BC04019S | 4/0 | 19 | 211600 | 0.528 | 653.00 |
| BC25037S | 250 | 37 | 250000 | 0.558 | 772.00 |
| BC30037S | 300 | 37 | 300000 | 0.611 | 926.00 |
| BC35037S | 350 | 37 | 350000 | 0.661 | 1081.00 |
| BC40037S | 400 | 37 | 400000 | 0.706 | 1235.00 |
| BC50037S | 500 | 37 | 500000 | 0.789 | 1544.00 |
| BC60061S | 600 | 61 | 600000 | 0.893 | 1853.00 |
| BC75061S | 750 | 61 | 750000 | 0.998 | 2309.00 |

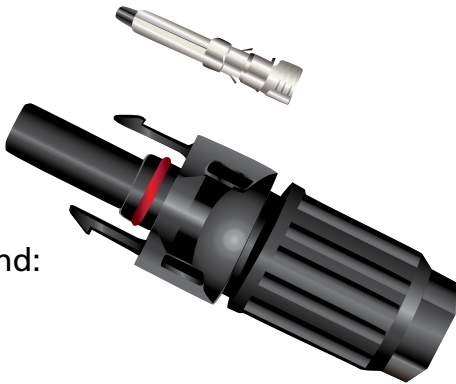
The information contained on this specification is intended to be used as a guide in product selection and is believed to be reliable. ADC has made every effort to ensure the data shown above is accurate at the time of publication. This specification is subject to change anytime without notice. REV0618

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

Solar Panel Connectors



Jack (Female) End:



Plug End:

Mechanical Specs:

Length: 2-1/4"

Diameter: 3/4"

Material: Body PPO/PA 66 (UL94/PA66)

Contact: Tin Plated Copper Alloy

Locking Retaining Force: 40 lbs

Temperature Rating: -40 to 85°C

Conformity Standards:

UL1703, NEC2008, IEC 61215, 61746,
AND 61730, EN50521, ROHS Compliant

Wire Size Range: #10, #12, #14 AWG

Strain Relief: Compression Gland w/Lock

Mateability: Fully intermateable with MC4
UV/Ozone resistant

Crimp Tool: Standard "U" terminal crimper
ADC PN ATL-4500

Electrical Specs:

Voltage Rating: 1,500VDC (IEC, CEI)

1500VDC (UL)

Current Rating: 25A (14 AWG)

36A (12 AWG)

50A (10 AWG)

Contact Resistance: </=0.2 M Ohms

Test Voltage (max): 3,000 VDC (1min) (UL)

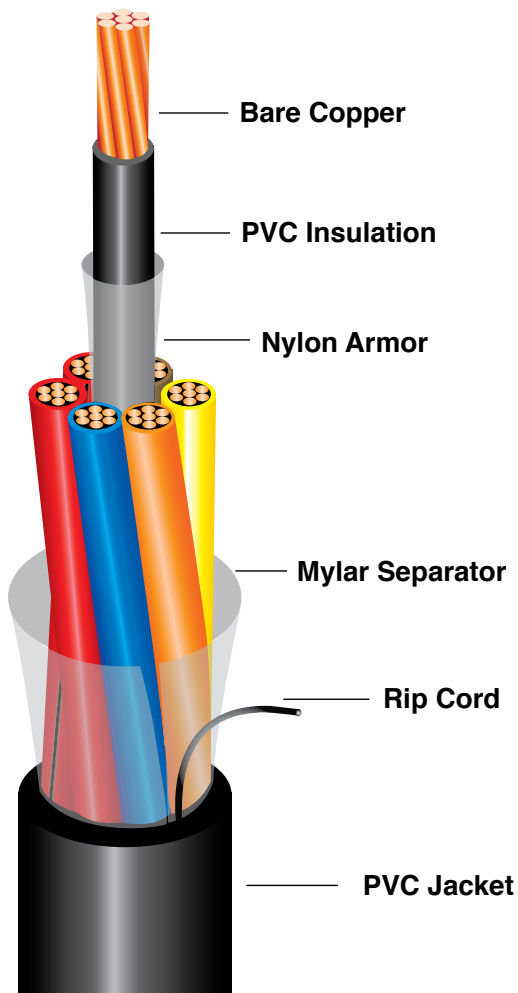
Connector Information

| ADC Part No. | Description | Packaging |
|----------------|--------------------------------------|-------------|
| MC4-15P MALE | Male PV Conector, MC-4 Compatible | 100 per bag |
| MC4-14P-FEMALE | Female PV Connector, MC-4 Compatible | 100 per bag |

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. REV0618

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
 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 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 per UL Standard 1277*

Rated -40°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 |

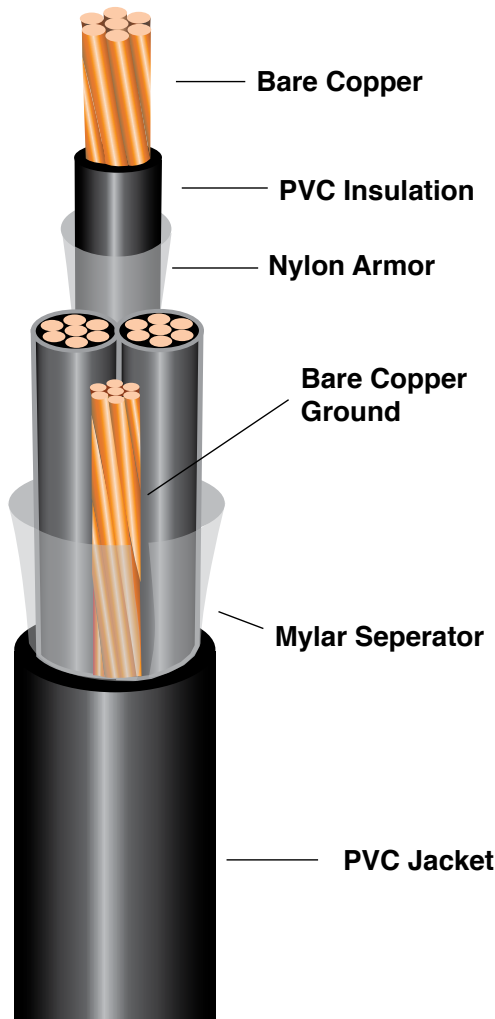
Cable Data

| 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 FL. | Part # | OA Jkt. Thick. (MILS) | Appr. O.D. (IN) | Appr. Weight Lbs./M FL. | Part # | OA Jkt. Thick. (MILS) | Appr. O.D. (IN) | Appr. Weight Lbs./M FL. | Part # | OA Jkt. Thick. (MILS) | Appr. O.D. (IN) | Appr. Weight Lbs./M FL. | Part # | OA Jkt. Thick. (MILS) | Appr. O.D. (IN) | Appr. Weight Lbs./M FL. |
| 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 |
| 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 | 6120 | 80 | 1.051 | 975 |

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. REV0618

TYPE TC-ER - CONTROL & POWER TRAY CABLE

PVC/Nylon Insulation with Overall PVC Jacket
12 - 2 AWG • 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 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. Concentric 7 strand. Concentric 19 strand available upon request.

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 per UL Standard 1277*

Rated -40°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

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

| Conductor Data | | | | |
|----------------|-----------|---------------------------------|--------------------|---------------------------|
| Size AWG | Stranding | PVC Insulation Thickness (Mils) | Nylon Armor (Mils) | Approximate O.D. (Inches) |
| 12 | 7 | 15 | 5 | .132 |
| 10 | 7 | 20 | 5 | .167 |
| 8 | 7 | 30 | 5 | .212 |
| 6 | 7 | 30 | 5 | .256 |
| 4 | 7 | 40 | 6 | .326 |
| 2 | 7 | 40 | 6 | .387 |

| 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 | 60802F | 2 FL | 60 | .332x.544 | 180 |
| | 60802 | 2 | 60 | .544 | 199 |
| | 60803 | 3 | 60 | .580 | 283 |
| | 60804 | 4 | 60 | .635 | 352 |
| 6 | 60602F | 2 FL | 60 | .380x.636 | 255 |
| | 60602 | 2 | 60 | .636 | 299 |
| | 60603 | 3 | 60 | .675 | 400 |
| | 60604 | 4 | 60 | .741 | 506 |
| 4 | 60402F | 2 FL | 60 | .450x.778 | 419 |
| | 60402 | 2 | 60 | .778 | 434 |
| | 60403 | 3 | 80 | .867 | 653 |
| | 60404 | 4 | 80 | .952 | 828 |
| 2 | 60202F | 2 FL | 80 | .545x.940 | 587 |
| | 60202 | 2 | 80 | .940 | 676 |
| | 60203 | 3 | 80 | .998 | 948 |
| | 60204 | 4 | 80 | 1.010 | 1206 |

| 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. |
| 12/3 w/12 AWG Ground | 6203B | 3 | 45 | .378 | 145 |
| 10/3 w/10 AWG Ground | 6103B | 3 | 45 | .453 | 212 |
| 8 w/10 AWG Ground | 60802B | 2 | 60 | .548 | 248 |
| | 60803B | 3 | 60 | .593 | 315 |
| | 60804B | 4 | 60 | .635 | 384 |
| 6 w/8 AWG Ground | 60602B | 2 | 60 | .636 | 350 |
| | 60603B | 3 | 60 | .675 | 451 |
| | 60604B | 4 | 60 | .741 | 557 |
| 4 w/8 AWG Ground | 60403B | 3 | 80 | .867 | 704 |
| | 60404B | 4 | 80 | .952 | 879 |
| 2 w/6 AWG Ground | 60202B | 2 | 80 | .940 | 757 |
| | 60203B | 3 | 80 | .998 | 1029 |
| | 60204B | 4 | 80 | 1.010 | 1287 |

SPECIALTY CABLE

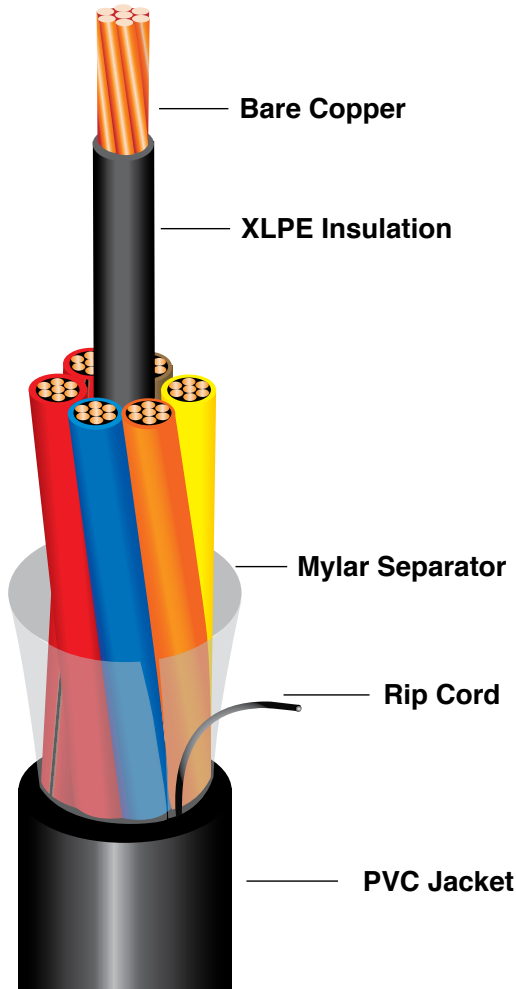


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PHONE: (800) 343 2579 • FAX: (828) 389 3922 • WWW.ADCABLE.COM

TYPE TC-ER - CONTROL & POWER TRAY CABLE

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



CABLE IDENTIFICATION

18-16 AWG

"ADVANCED DIGITAL CABLE, INC. X AWG X
 CDRS TYPE RFH-2 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 TC OR TC-ER (UL) 90C
 WET OR DRY 600V 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 per UL Standard 1277*

Rated -40°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 PVC Jacket
18 - 10 AWG • 600 Volts • 90°C Wet/Dry

Conductor Data

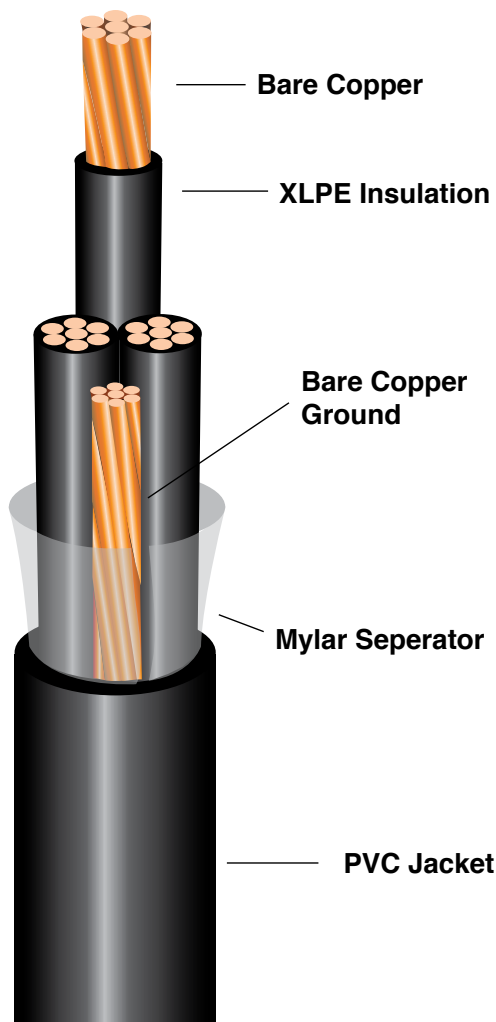
| Size AWG | Strands | XLPE Insulation Thickness (Mils) | Approximate O.D. (Inches) |
|----------|---------|----------------------------------|---------------------------|
| 18 | 7 | 30 | .106 |
| 16 | 7 | 30 | .118 |
| 14 | 7 | 30 | .133 |
| 12 | 7 | 30 | .152 |
| 10 | 7 | 30 | .176 |

Cable Data

| 18 AWG | | | | | 16 AWG | | | | 14 AWG | | | | 12 AWG | | | | 10 AWG | | | |
|-----------|-------------|-----------------------|-----------------|-------------------------|-------------|-----------------------|-----------------|-------------------------|-------------|-----------------------|-----------------|-------------------------|-------------|-----------------------|-----------------|-------------------------|-------------|-----------------------|-----------------|-------------------------|
| # of 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 | 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 | 5120 | 80 | 1.067 | 937 |

TYPE TC-ER - CONTROL & POWER TRAY CABLE

XLPE Insulation with Overall PVC Jacket
12 - 2 AWG • 600 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 90C SUN RES DIR BUR 600V
 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 per UL Standard 1277*

Rated -40°C to 90°C

OSHA Acceptable

NEC Articles 392 & 336

CSA FT4

IEEE 1202 70,000 BTU Flame Test

ASTM - All Applicable Standards

Conductors are VW-1 Rated

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



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Conductor Data

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

Cable Data

8 AWG - 2 AWG

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

Cable Data

12 AWG - 2 AWG w/Bare Ground Wire

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

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

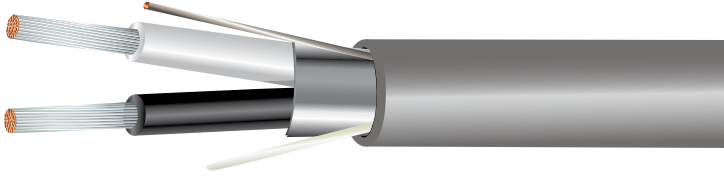
ADC has made every effort to ensure the data shown above is accurate at the time of publication. This specification is subject to change anytime without notice. REV0618

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SPECIALTY CABLE



COMMUNICATION & CONTROL



| PART NO. | AWG/ COND | STRAND | OUTER JKT THICKNESS | | NOMINAL OD | | SHIP WT / 1M' |
|---|---------------|-------------|---------------------|------|------------|------|---------------|
| | | | INCH | mm | INCH | mm | |
| 4-2402* Equal to Belden™ 9841 | 24/1pr | 7x30 TC | .035 | .89 | .232 | 5.89 | 33 |
| 4-2422* Equal to Belden™ 9842 | 24/2pr | 7x30 TC | .035 | .89 | .340 | 8.64 | 51 |
| 22002TSD Equal to Belden™ 8761 | 22/2 | 7x30 TC | .025 | .64 | .175 | 4.44 | 18 |
| 22003TSD Equal to Belden™ 8771 | 22/3 | 7x30 TC | .033 | .84 | .199 | 5.05 | 24 |
| 22022TSD Equal to Belden™ 8723 | 22/4 | 7x30 TC | .025 | .64 | .160 | 4.06 | 19 |
| 22033TSD Equal to Belden™ 8777 | 22/6 | 7x30 TC | .025 | .64 | .273 | 6.93 | 42 |
| 20002TSD Equal to Belden™ 8762 | 20/2 | 7x28 TC | .028 | .71 | .204 | 5.18 | 23 |
| 20003TSD Equal to Belden™ 8772 | 20/3 | 7x28 TC | .033 | .84 | .218 | 5.54 | 32 |
| 21802SD Equal to Belden™ 8760 | 18/2 | 16/30 TC | .028 | .71 | .222 | 5.64 | 26 |
| 21803SD Equal to Belden™ 8770 | 18/3 | 16x30 TC | .033 | .84 | .246 | 6.25 | 39 |
| 318004SD Equal to Belden™ 9418 | 18/4 | 19/30 TC | .035 | .89 | .245 | 6.22 | 49 |
| 21602SD Equal to Belden™ 8719 | 16/2 | 19x29 TC | .032 | .81 | .313 | 7.95 | 49 |
| 14002TSD Equal to Belden™ 8720 | 14/2 | 19x27 TC | .035 | .89 | .355 | 9.02 | 71 |
| 21202SD Equal to Belden™ 8718 | 12/2 | 19x25 TC | .040 | 1.02 | .400 | 10.2 | 100 |

PRODUCT DESCRIPTION

PVC insulated stranded tinned copper conductors, short overall twist length, aluminum mylar shielding with drain wire and an overall gray PVC jacket.

SPECIFICATIONS

| | |
|----------------|--|
| Conductor | Tinned Copper |
| Insulation | Equal to competitor |
| Jacket | PVC |
| Shield | Aluminum Mylar *90% Tinned Copper Braid |
| NEC Articles | 800 CM 14-12 AWG CL2 |
| Voltage Rating | 300 V |
| Temp. Rating | 75°C |
| Drain Wire | Equal to competitor |

APPLICATIONS

- Security Systems
- Intercom Systems
- Sound/Audio System
- Power-Limited Controls

COLOR CODE CHART

*Equal to competitor

AVAILABLE PUT-UPS

1,000' Reels and Boxes
500' Reels and Boxes
Other lengths available. Please consult your factory representative for availability.

Plenum Options Available Upon Request

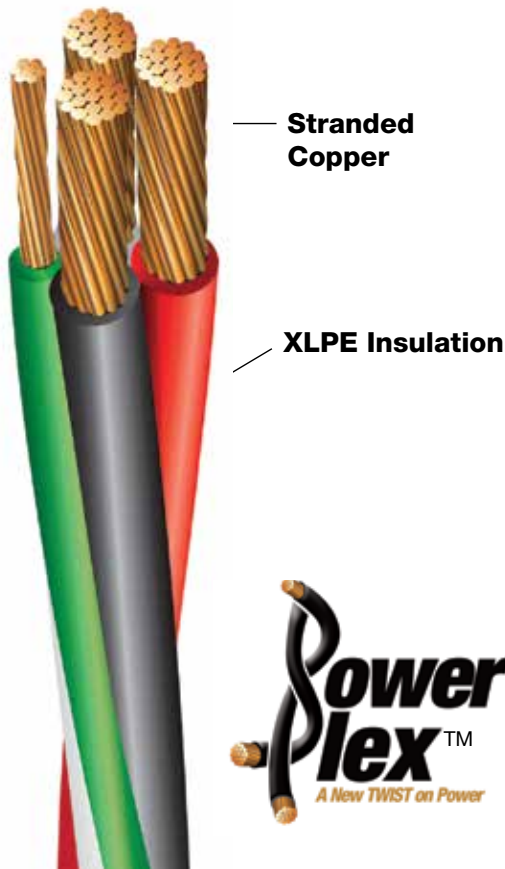


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Power Plex Cable

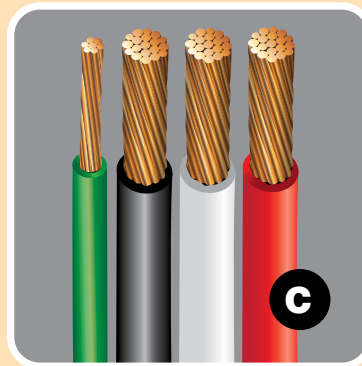
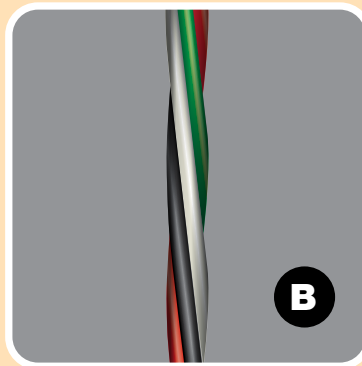
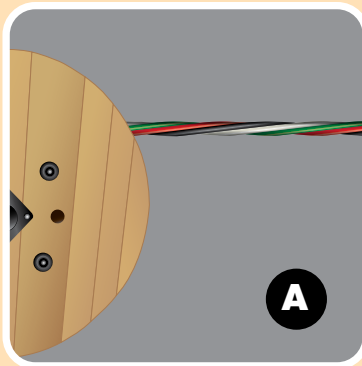


Features:

- Powerplex[™] has been designed to eliminate the tangled mess associated with Paralleled Reels and the costly setup associated with Multiple Reels on a wire pull.
- ADC offers PowerPlex[™] with XHHW-2 or RHH, RHW, USE-2, PV Power Cables in multiple gauge sizes and multiple conductor configurations.
- PowerPlex[™] cables can be run on custom lengths at the factory to meet your cable pull requirements and reduce costly scrap.
- With ADC's fast and dependable manufacturing lead times we can deliver promptly to the project wherever it is located, eliminating the need for costly inventory.



The PowerPlex[™] Advantage



- A. One-Reel Delivery System:** All your cables are twisted together on one reel resulting in less set-up time at the job, reduced scrap and a more uniform cable for ease of pulling.
- B. Reduced Pulling Tension:** PowerPlex[™] cables are constructed with an equal and consistent twist which gives an overall uniform diameter reducing the surface friction within the conduit which results in lower pulling tensions.
- C. Colored Cables:** PowerPlex[™] contains solid colored cables making it easy and safer to identify the phases and eliminating the need for phase tape to identify the conductors.

market solutions



Advanced Digital Cable, Inc (ADC) is a leading manufacturer of wire and cable, providing market solutions for a wide range of industries and applications. Founded in 1997, ADC has grown from a single location in Hayesville, NC into three US locations with over 500,000 square feet of manufacturing and warehousing space. Unlike the competition, ADC is utilizing the most current manufacturing technology and equipment to ensure superior quality. ADC proudly manufactures all of its products in the United States of America and continues to invest in new products, technology, people and capacity to ensure its position as an industry leader. ADC is committed to developing and manufacturing the highest quality products, at the most competitive market prices, with unsurpassed customer service.

Cable & Connectors For:



- Wind Turbine Controls
- Solar Panel Strings
- Solar Collector Boxes
- Photovoltaic Connectors



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