



Product: [1474A](#)

Inst, 2 Pr #18+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC ITC CMG

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Product Description

UL Instrumentation, 2 Pair 18+22AWG (7x26+7x30) Bare Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC ITC CMG AWM 2464 SUN RES

Technical Specifications

Product Overview

|                        |                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...),low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS),programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Construction Details

Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Pair(s)      | 2               | 18 AWG | 7x26      | BC - Bare Copper |
| Comm Wire(s) | 1               | 22 AWG | 7x30      | BC - Bare Copper |

Insulation

| Element      | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code    |
|--------------|--------------------------|--------------------|--------------------------|---------------|
| Pair(s)      | PVC - Polyvinyl Chloride | 0.019 in (0.48 mm) | 0.083 in (2.1 mm)        | ICEA Chart E1 |
| Comm Wire(s) | PVC - Polyvinyl Chloride | 0.019 in (0.48 mm) | 0.066 in (1.7 mm)        | Orange        |

Inner Shield

| Element      | Shield Type | Material                | Coverage | Drainwire Type   | Notes     |
|--------------|-------------|-------------------------|----------|------------------|-----------|
| Pair(s)      | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 20 AWG (7x28) TC | each pair |
| Comm Wire(s) | No Shield   |                         |          |                  |           |

Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 18 AWG (7x26) TC |

Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter      | Ripcord |
|--------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.053 in (1.3 mm) | 0.443 in (11.3 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.443 in (11.3 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR            | Nom. Inner Shield DCR         | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                  |
|--------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------------------------|-------------------------------|
| Pair(s)      | 6.66 Ohm/1000ft               | 8.48 Ohm/1000ft (27.8 Ohm/km) | 51 pF/ft (170 pF/m)           | 92 pF/ft (300 pF/m)                             | 11 Amps per conductor @ 30°C  |
| Comm Wire(s) | 17.2 Ohm/1000ft (56.4 Ohm/km) |                               |                               |                                                 | 9.6 Amps per conductor @ 30°C |

Voltage

|                   |
|-------------------|
| UL Voltage Rating |
|-------------------|

300 V (PLTC, CMG, AWM 2464), 150 V (ITC)

Mechanical Characteristics

Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 105°C          | -30°C to +105°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 5.3 in (130 mm) | 5.3 in (130 mm)   |

|                    |                   |
|--------------------|-------------------|
| Max. Pull Tension: | 134 lbs (60.8 kg) |
| Bulk Cable Weight: | 85 lbs/1000ft     |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial                                                              |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, FT4, T-29-520, IEEE 1202 FT4                                                                         |
| NEC / UL Compliance:             | Article 725, Article 727, Article 800, CMG, ITC, PLTC                                                                     |
| AWM Compliance:                  | AWM 2464                                                                                                                  |
| CEC / C(UL) Compliance:          | CMG                                                                                                                       |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                           |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.621 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color       | Putup Type | Length   | UPC          | Footnote |
|---------------|-------------|------------|----------|--------------|----------|
| 1474A 0107500 | Black       | Reel       | 7,500 ft | 612825115366 | C Z      |
| 1474A 0061000 | Blue, Light | Reel       | 1,000 ft | 612825115342 | C        |
| 1474A 0067500 | Blue, Light | Reel       | 7,500 ft | 612825115359 | C        |

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