



**Product:** [1121A](#) 

Inst, 1 Tri #18 Str BC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC-ER 150V NPLF 90C Dry/Wet

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## Product Description

UL Instrumentation, 1 Triad 18AWG (7x26) Bare Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

## 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, ...), RTD, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, actuators, positioners

### Construction Details

#### Conductor

| Element  | No. of Elements | Size   | Stranding | Material         |
|----------|-----------------|--------|-----------|------------------|
| Triad(s) | 1               | 18 AWG | 7x26      | BC - Bare Copper |

#### Insulation

| Element  | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code       |
|----------|--|--------------------|--------------------------|------------------|
| Triad(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.022 in (0.56 mm) | 0.088 in (2.2 mm)        | Black, Red, Blue |

#### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 20 AWG (7x28) TC |

#### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter      | Ripcord |
|--------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.290 in (7.37 mm) | Yes     |

Overall Cable Diameter (Nominal): 0.290 in (7.37 mm)

### Electrical Characteristics

#### Electricals

| Element  | Nom. Conductor DCR | Max. Current                 |
|----------|--------------------|------------------------------|
| Triad(s) | 6.93 Ohm/1000ft    | 14 Amps per conductor @ 30°C |

Nom Outer Shield DCR: 7.46 Ohm/1000ft (24.5 Ohm/km)

#### Voltage

| UL Voltage Rating           |
|-----------------------------|
| 600 V (TC-ER), 150 V (NPLF) |

### Mechanical Characteristics

#### Temperature

| UL Temperature     | Operating             |
|--------------------|-----------------------|
| 90°C Dry, 90°C Wet | -30°C to 90°C Dry/Wet |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.5 in (89 mm)  | 3.5 in (89 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 81 lbs (37 kg) |
| Bulk Cable Weight: | 52 lbs/1000ft  |

## Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial  |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, FT4, IEEE 1202 FT4   |
| CPR Compliance:                  | CPR Euroclass: Eca  |
| NEC / UL Compliance:             | Article 336, Article 760, NPLF, TC-ER   |
| 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) |
| UK Regulation Compliance:        | UKCA Mark   |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)   |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.613 Revision Date: 04-10-2026 |
|----------------------|--|

## Part Numbers

### Variants

| Item #         | Color | Putup Type | Length    | UPC          | Footnote |
|----------------|-------|------------|-----------|--------------|----------|
| 1121A 010500   | Black | Reel       | 500 ft    | 612825358947 | C Z      |
| 1121A 0101000  | Black | Reel       | 1,000 ft  | 612825107163 | C Z      |
| 1121A 01010000 | Black | Reel       | 10,000 ft | 612825107170 | C Z      |

|           |  |
|-----------|--|
| Footnote: | C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN. |
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