



REPRESENTATIVE IMAGE

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

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

[Request Sample](#)

## 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  | Number of Element | 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 | 0.016 in (0.41 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) | 5.86 Ohm/1000ft (19.2 Ohm/km) | 6 Amps per conductor @ 30C |

#### Voltage

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

### Mechanical Characteristics

#### Temperature

| UL Temperature     | Operating                |
|--------------------|--------------------------|
| 90°C Dry, 90°C Wet | -30C to 90C Dry, 75C wet |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|                 |                   |

|                |                |
|----------------|----------------|
| 3.5 in (89 mm) | 3.5 in (89 mm) |
|----------------|----------------|

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

## Standards and Compliance

|                            |  |
|----------------------------|--|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial |
|----------------------------|--|

|                                  |                                 |
|----------------------------------|---------------------------------|
| Flammability / Reaction to Fire: | UL1685 (FT4 Loading), FT4, 1202 |
|----------------------------------|---------------------------------|

|                      |                                       |
|----------------------|---------------------------------------|
| 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) |
|--------------------------------|---|

|                  |                                 |
|------------------|---------------------------------|
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
|------------------|---------------------------------|

|                               |                         |
|-------------------------------|-------------------------|
| Other Standard Compliance(s): | ICEA S-73-532, S-61-402 |
|-------------------------------|-------------------------|

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.393 Revision Date: 12-15-2021 |
|----------------------|--|

## Variants

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

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