



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

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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 | 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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