



Product: [3130A](#)

Inst, 36 Tri #16 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER
150V NPLF 90C Dry 75C Wet

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Product Description

UL Instrumentation, 36 Triad 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry 75C 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) | 36 | 16 AWG | 7x24 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|----------|--|--------------------|--------------------------------|
| Triad(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.022 in (0.56 mm) | Black, White, Red and Numbered |

Inner Shield

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

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 16 AWG (7x24) TC |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|--------------------|---------------------|---------|
| PVC - Polyvinyl Chloride | 0.110 in (2.79 mm) | 1.773 in (45.03 mm) | Yes |

| | |
|-----------------------------------|---------------------|
| Overall Cable Diameter (Nominal): | 1.773 in (45.03 mm) |
|-----------------------------------|---------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Inner Shield DCR |
|----------|-------------------------------|-------------------------------|
| Triad(s) | 3.67 Ohm/1000ft (12.0 Ohm/km) | 4.99 Ohm/1000ft (16.4 Ohm/km) |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------|
|----------------|-----------|

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

Bend Radius

| Stationary Min. | Installation Min. |
|------------------|-------------------|
| 17.7 in (450 mm) | 17.7 in (450 mm) |

| | |
|--------------------|--------------------|
| Max. Pull Tension: | 3600 lbs (1600 kg) |
| Bulk Cable Weight: | 1839 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 |
| European Directive Compliance: | EU CE Mark |

History

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| Update and Revision: | Revision Number: 0.208 Revision Date: 01-04-2024 |
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