



Product: [3054A](#)

Inst, 24 Tri #16+22 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC ITC CMG

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Product Description

UL Instrumentation, 24 Triad 16+22AWG (7x24+7x30) Bare Copper, PVC Insulation E1 Color Code, 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, ...), 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) | 24 | 16 AWG | 7x24 | BC - Bare Copper |
| Comm Wire(s) | 1 | 22 AWG | 7x30 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|--------------|--------------------------|--------------------|--------------------------------|
| Triad(s) | PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | Black, White, Red and Numbered |
| Comm Wire(s) | PVC - Polyvinyl Chloride | 0.015 in (0.38 mm) | Orange |

Inner Shield

| Element | Shield Type |
|--------------|-------------|
| Comm Wire(s) | No Shield |

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 | 0.073 in (1.9 mm) | 1.230 in (31.24 mm) | Yes |

| | |
|-----------------------------------|---------------------|
| Overall Cable Diameter (Nominal): | 1.230 in (31.24 mm) |
|-----------------------------------|---------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond |
|--------------|-------------------------------|-------------------------------|
| Pair(s) | 3.7 Ohm/1000ft (12 Ohm/km) | 54 pF/ft (180 pF/m) |
| Comm Wire(s) | 14.7 Ohm/1000ft (48.2 Ohm/km) | |

Voltage

| UL Voltage Rating |
|---|
| 300 V (CMG, PLTC, UL AWM 2464), 150 V (ITC) |

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|------------------|-------------------|
| 12.3 in (312 mm) | 12.3 in (312 mm) |

| | |
|--------------------|--------------------|
| Max. Pull Tension: | 2615 lbs (1186 kg) |
| Bulk Cable Weight: | 1025 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial |
| Flammability / Reaction to Fire: | UL1685 (FT4 Loading), FT4, T-29-520, 1202 |
| 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 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

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| Update and Revision: | Revision Number: 0.311 Revision Date: 01-11-2024 |
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