



Product: [3044A](#)

Inst, 2 Tri #16+22 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC ITC CMG

Request Sample

Product Description

UL Instrumentation, 2 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) | 2 | 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 | 0.016 in (0.41 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 | 0.053 in (1.3 mm) | 0.474 in (12.0 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.474 in (12.0 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR |
|--------------|-------------------------------|
| Pair(s) | 3.7 Ohm/1000ft (12 Ohm/km) |
| 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. |
|-----------------|-------------------|
| 4.7 in (120 mm) | 4.7 in (120 mm) |

| | |
|--------------------|------------------|
| Max. Pull Tension: | 259 lbs (117 kg) |
| Bulk Cable Weight: | 120 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance |
| Flammability / Reaction to Fire: | UL1685 (FT4 Loading), FT4, 1202 |
| NEC / UL Compliance: | Article 725, Article 727, Article 800, CMG, ITC, PLTC |
| AWM Compliance: | AWM 2464 |
| CEC / C(UL) Compliance: | CMG |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.56 Revision Date: 01-11-2024 |
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