



Product: [1031A](#)

Inst, 1 Tri #16 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

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Product Description

UL Instrumentation, 1 Triad 16AWG (7x24) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER 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 | Number of Element | AWG | Stranding | Material |
|----------|-------------------|-----|-----------|------------------|
| Triad(s) | 1 | 16 | 7x24 | BC - Bare Copper |

Insulation

| Element | Material | Thickness [in.] | Color Code |
|----------|--------------------------|-----------------|-------------------|
| Triad(s) | PVC - Polyvinyl Chloride | 0.017 | Black, White, Red |

Outer Shield Material

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------|----------|------------------|
| Tape | Alum / Poly | 100% | 18 AWG (7x26) TC |

Outer Jacket Material

| Material | Thickness | Nom. Diameter | Ripcord |
|--------------------------|-----------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.042 in | 0.299 in | Yes |

| | |
|---------------------------|----------|
| Cable Diameter (Nominal): | 0.299 in |
|---------------------------|----------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) |
|---------|--------------------|-------------------------------|---|
| Pair(s) | 3.7 Ohm/1000ft | 54.1 pF/ft | 97.3 pF/ft |

| | |
|-----------------------|----------------|
| Nom Outer Shield DCR: | 4.9 Ohm/1000ft |
|-----------------------|----------------|

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.9 in | 3 in |

| | |
|--------------------|---------------|
| Max. Pull Tension: | 61 lbs |
| Bulk Cable Weight: | 56 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial |
| Flammability / Fire Resistance: | UL1685 (FT4 Loading), FT4, 1202 |
| NEC / UL Compliance: | Article 725, Article 727, Article 800, CMG, PLTC-ER, ITC-ER |
| AWM Compliance: | 2464 |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.358 Revision Date: 07-31-2020 |
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