



Product: [1092A](#)

Inst, 16 Tri #20+22 Str BC, PVC Ins E1, IS/OS, Bk PVC Jkt, 300V PLTC ITC CMG

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Product Description

UL Instrumentation, 16 Triad 20+22AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, Individual & 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) | 16 | 20 AWG | 7x28 | 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 | 0.018 in (0.46 mm) | Black, White, Red and Numbered |
| Comm Wire(s) | PVC - Polyvinyl Chloride | 0.019 in (0.48 mm) | Orange |

Inner Shield

| Element | Shield Type | Material | Coverage | Drainwire Type |
|--------------|-------------|-------------------------|----------|------------------|
| Triad(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 22 AWG (7x30) TC |
| Comm Wire(s) | No Shield | | | |

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 | 0.064 in (1.6 mm) | 0.858 in (21.8 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.858 in (21.8 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Shield | Max. Current |
|--------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------|
| Triad(s) | 9.5 Ohm/1000ft (31 Ohm/km) | 30 pF/ft (98 pF/m) | 55 pF/ft (180 pF/m) | 3 Amps per conductor @ 25°C |
| 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. |
|-----------------|-------------------|
| 8.6 in (220 mm) | 8.6 in (220 mm) |

| | |
|--------------------|------------------|
| Max. Pull Tension: | 841 lbs (381 kg) |
| Bulk Cable Weight: | 403 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance |
| 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 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) |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.537 Revision Date: 02-03-2025 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 1092A 0101000 | Black | Reel | 1,000 ft | 612825106289 | |
| 1092A 0102500 | Black | Reel | 2,500 ft | 612825106296 | |
| 1092A 0105000 | Black | Reel | 5,000 ft | 612825106319 | C Z |

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