



**Product:** [1031A](#)

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

[Request Sample](#)

Product Description

UL Instrumentation, 1 Triad 16AWG (7x24) 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) | 1               | 16 AWG | 7x24      | BC - Bare Copper |

Insulation

| Element  | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code    |
|----------|--------------------------|--------------------|--------------------------|---------------|
| Triad(s) | PVC - Polyvinyl Chloride | 0.019 in (0.48 mm) | 0.095 in (2.4 mm)        | ICEA Chart E1 |

Outer Shield

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

Outer Jacket

| Separator               | Material                 | Nom. Thickness    | Nom. Diameter      | Ripcord |
|-------------------------|--------------------------|-------------------|--------------------|---------|
| PP - Polypropylene Tape | PVC - Polyvinyl Chloride | 0.042 in (1.1 mm) | 0.308 in (7.82 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.308 in (7.82 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element  | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                 |
|----------|--------------------|-------------------------------|-------------------------------------------------|------------------------------|
| Triad(s) | 4.2 Ohm/1000ft     | 54.1 pF/ft (177 pF/m)         | 97.3 pF/ft (319 pF/m)                           | 18 Amps per conductor @ 30°C |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|-----------------|-------------------|

|                    |                 |
|--------------------|-----------------|
| 3.6 in (91 mm)     | 3.6 in (91 mm)  |
| Max. Pull Tension: | 130 lbs (59 kg) |
| Bulk Cable Weight: | 63 lbs/1000ft   |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial                                                              |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, FT4, IEEE 1202 FT4                                                                                   |
| 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: 0.611 Revision Date: 01-04-2024 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #         | Color       | Putup Type | Length    | UPC          | Footnote |
|----------------|-------------|------------|-----------|--------------|----------|
| 1031A 0101000  | Black       | Reel       | 1,000 ft  | 612825104902 | C        |
| 1031A 0105000  | Black       | Reel       | 5,000 ft  | 612825104926 | C Z      |
| 1031A 01010000 | Black       | Reel       | 10,000 ft | 612825104919 | C Z      |
| 1031A 0061000  | Blue, Light | Reel       | 1,000 ft  | 612825104889 | C        |
| 1031A 00610000 | Blue, Light | Reel       | 10,000 ft | 612825104896 | C        |

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