



**Product:** [31T2001](#) 

Inst PVC/PVC, 1 Tri #20 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC  
ITC CMG

## Product Description

UL Instrumentation, 1 Triad 20AWG (7x28) 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, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| Element  | AWG | Stranding | Material         | No. of Pairs |
|----------|-----|-----------|------------------|--------------|
| Triad(s) | 20  | 7x28      | BC - Bare Copper | 1            |

#### Insulation

| Material                 |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Color Chart

| Color                      |
|----------------------------|
| Black & White and Numbered |

#### Outer Jacket

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.231 in         | 0.037 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 11.3 Ohm/1000ft       | 3.74 Ohm/1000ft          |

#### Current

| Max. Recommended Current [A]   |
|--------------------------------|
| 3.8 Amps per Conductor at 25°C |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V             |

### Temperature Range

|                              |                 |
|------------------------------|-----------------|
| UL Temperature Rating:       | 105°C           |
| Operating Temperature Range: | -30°C To +105°C |

### Mechanical Characteristics

|                    |               |
|--------------------|---------------|
| Bulk Cable Weight: | 30 lbs/1000ft |
|--------------------|---------------|

|                                      |          |
|--------------------------------------|----------|
| Maximum Recommended Pulling Tension: | 75.6 lbs |
|--------------------------------------|----------|

Standards

|                          |                |
|--------------------------|----------------|
| NEC/(UL) Compliance:     | CMG, ITC, PLTC |
| CEC/C(UL) Compliance:    | CMG            |
| UL AWM Style Compliance: | AWM 2464       |

Suitability

|                                    |     |
|------------------------------------|-----|
| Suitability - Indoor:              | Yes |
| Suitability - Outdoor:             | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, Toxicity Testing

|                         |                  |
|-------------------------|------------------|
| CSA/C(UL) Flammability: | FT4              |
| IEEE Flammability:      | IEEE 1202        |
| UL voltage rating:      | 300 V RMS (PLTC) |

Related Part Numbers

Variants

| Item #          | UPC          |
|-----------------|--------------|
| 31T2001 0105000 | 612825361121 |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.42 Revision Date: 08-05-2026 |
|----------------------|-------------------------------------------------|

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