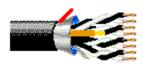


# Product: <u>3050A</u> ☑



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

😭 Request Sample

# **Product Description**

UL Instrumentation, 16 Pair 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,), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **Construction Details**

#### Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Pair(s)      | 16              | 16 AWG | 7x24      | BC - Bare Copper |
| Comm Wire(s) | 1               | 22 AWG | 7x30      | BC - Bare Copper |

#### Insulation

| Element      | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code                |
|--------------|--------------------------|--------------------|--------------------------|---------------------------|
| Pair(s)      | PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.090 in (2.3 mm)        | Black, White and Numbered |
| Comm Wire(s) | PVC - Polyvinyl Chloride | 0.019 in (0.48 mm) |                          | Orange                    |

#### Inner Shield

| E | lemen | t | Sh | ield | Тур | e |
|---|-------|---|----|------|-----|---|
|   |       |   | _  |      |     | - |

Comm Wire(s) No Shield

## Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Таре        | Bi-Laminate (Alum+Poly) | 100%     | 16 AWG (7x24) TC |

#### Outer Jacket

| Material                          | Nom. Thickness    | Nom. Diameter      | Ripcord |
|-----------------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride          | 0.063 in (1.6 mm) | 0.819 in (20.8 mm) | Yes     |
| Overall Cable Diameter (Nominal): | 0.819 in (20.8 m  | m)                 |         |

### **Electrical Characteristics**

#### Electricals

| Element      | Nom. Conductor DCR            | Max. Current                |
|--------------|-------------------------------|-----------------------------|
| Pair(s)      | 4.2 Ohm/1000ft (14 Ohm/km)    | 8 Amps per conductor @ 30°C |
| Comm Wire(s) | 14.7 Ohm/1000ft (48.2 Ohm/km) |                             |

## Voltage

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

## **Mechanical Characteristics**

#### Temperature

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

#### Bend Radius

| Stationary Min. Installati |                  |
|----------------------------|------------------|
| 8.2 in (210 mm) 8.2 in (21 | 0 mm)            |
| Max. Pull Tension:         | 661 lbs (300 kg) |
| Bulk Cable Weight:         | 439 lbs/1000ft   |

## **Standards and Compliance**

| Environmental Suitability:        | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial                                                              |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                       |
| European Directive<br>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: 0.62 Revision Date: 01-11-2024

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