



Product: [3035A](#)

Inst, 16 Pr #18+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC ITC CMG

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Product Description

UL Instrumentation, 16 Pair 18+22AWG (7x26+7x30) 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, ...), 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 | 18 AWG | 7x26 | 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) | 0.074 in (1.9 mm) | Black, White and Numbered |
| Comm Wire(s) | PVC - Polyvinyl Chloride | 0.019 in (0.48 mm) | | Orange |

Inner Shield

| Element | Shield Type | Material | Coverage | Drainwire Type |
|--------------|-------------|-------------------------|----------|------------------|
| Pair(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 20 AWG (7x28) TC |
| Comm Wire(s) | No Shield | | | |

Outer Shield

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

Outer Jacket

| Material | Nom. Diameter | Ripcord |
|--------------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.789 in (20.0 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.789 in (20.0 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Max. Current |
|--------------|-------------------------------|-------------------------------|
| Pair(s) | 5.86 Ohm/1000ft (19.2 Ohm/km) | 2.5 Amps per conductor @ 25°C |
| Comm Wire(s) | 18 Ohm/1000ft (59 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. | Installation Min. |
|-----------------|-------------------|
| 7.9 in (200 mm) | 7.9 in (200 mm) |

| | |
|--------------------|------------------|
| Max. Pull Tension: | 725 lbs (329 kg) |
| Bulk Cable Weight: | 455 lbs/1000ft |

Standards and Compliance

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

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| Update and Revision: | Revision Number: 0.153 Revision Date: 01-11-2024 |
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