



Product: [3043A](#)

Inst, 2 Pr #16+22 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC-ER
ITC-ER CMG

[Request Sample](#)

Product Description

UL Instrumentation, 2 Pair 16+22AWG (7x24+7x30) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 SUN RES DIR BUR

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 | Number of Element | AWG | Stranding | Material |
|-----------|-------------------|-----|-----------|------------------|
| Pair(s) | 2 | 16 | 7x24 | BC - Bare Copper |
| Comm Wire | 1 | 22 | 7x30 | BC - Bare Copper |

Insulation

| Element | Material | Thickness | Nom. Insulation Diameter | Color Code |
|-----------|--------------------------|-----------|--------------------------|---------------------------|
| Pair(s) | PVC - Polyvinyl Chloride | 0.017 in | 0.091 | Black, White and Numbered |
| Comm Wire | PVC - Polyvinyl Chloride | 0.019 in | | Orange |

Outer Shield Material

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

Outer Jacket Material

| Material | Thickness | Nom. Diameter | Ripcord |
|--------------------------|-----------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.053 in | 0.455 in | Yes |

| | |
|---------------------------|----------|
| Cable Diameter (Nominal): | 0.455 in |
|---------------------------|----------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) |
|-----------|--------------------|-------------------------------|---|
| Pair(s) | 4.2 Ohm/1000ft | 37 pF/ft | 67 pF/ft |
| Comm Wire | 14.7 Ohm/1000ft | | |

| | |
|-----------------------|--------------|
| Nom Outer Shield DCR: | 4 Ohm/1000ft |
|-----------------------|--------------|

Voltage

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

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|-----------|
|-----------|-----------|

| | |
|-------|-----------------|
| 105°C | -30°C to +105°C |
|-------|-----------------|

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.5 in | 4.6 in |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 83 lbs |
| Bulk Cable Weight: | 102 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial |
| Flammability / Fire Resistance: | UL1685 (FT4 Loading), FT4, 1202 |
| NEC / UL Compliance: | Article 725, Article 727, Article 800, CMG, PLTC-ER, ITC-ER |
| AWM Compliance: | 2464 |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), 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: 0.163 Revision Date: 09-30-2020 |
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