



**Product:** [1030A](#)

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

[Request Sample](#)

## Product Description

UL Instrumentation, 1 Pair 16AWG (7x24) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER CMG 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 | Number of Element | Size   | Stranding | Material         |
|---------|-------------------|--------|-----------|------------------|
| Pair(s) | 1                 | 16 AWG | 7x24      | BC - Bare Copper |

#### Insulation

| Element | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code    |
|---------|--------------------------|--------------------|--------------------------|---------------|
| Pair(s) | PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.091 in (2.3 mm)        | Black & White |

#### Outer Shield

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

#### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      | Ripcord |
|--------------------------|--------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.037 in (0.94 mm) | 0.259 in (6.58 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.259 in (6.58 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR         | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                 |
|---------|----------------------------|-------------------------------|---|------------------------------|
| Pair(s) | 4.2 Ohm/1000ft (14 Ohm/km) | 61 pF/ft (200 pF/m)           | 114 pF/ft (374 pF/m)                            | 11 Amps per Conductor @ 25°C |

#### Voltage

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

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

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

|                |                |
|----------------|----------------|
| 2.6 in (66 mm) | 2.6 in (66 mm) |
|----------------|----------------|

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 40 lbs        |
| Bulk Cable Weight: | 40 lbs/1000ft |

## Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance  |
| Flammability / Reaction to Fire: | UL1685 (FT4 Loading), FT4, IEEE 1202 FT4  |
| NEC / UL Compliance:             | Article 725, Article 727, Article 800, CMG, PLTC-ER, ITC-ER   |
| AWM Compliance:                  | AMW 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: 0.402 Revision Date: 12-15-2021 |
|----------------------|--|

## Variants

| Item #         | Color       | Putup Type | Length    | UPC/EAN       |
|----------------|-------------|------------|-----------|---------------|
| 1030A 01020000 | Black       |            |           | 612825104773  |
| 1030A.00305    | Black       | Reel       | 305 m     | 8719605000002 |
| 1030A 0101000  | Black       | Reel       | 1,000 ft  | 612825104759  |
| 1030A 0105000  | Black       | Reel       | 5,000 ft  | 612825104780  |
| 1030A 01010000 | Black       | Reel       | 10,000 ft | 612825104766  |
| 1030A 0061000  | Blue, Light | Reel       | 1,000 ft  | 612825104728  |
| 1030A 0065000  | Blue, Light | Reel       | 5,000 ft  | 612825104742  |
| 1030A 00610000 | Blue, Light | Reel       | 10,000 ft | 612825104735  |

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