



Product: [1052A](#)

Inst, 16 Pr #18 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry/Wet

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### Product Description

UL Instrumentation, 16 Pair 18AWG (7x26) Bare Copper, PVC-NYL Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry/Wet 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 | Size   | Stranding | Material         |
|---------|-------------------|--------|-----------|------------------|
| Pair(s) | 16                | 18 AWG | 7x26      | BC - Bare Copper |

##### Insulation

| Element | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code    |
|---------|--|--------------------|--------------------------|---------------|
| Pair(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.022 in (0.56 mm) | 0.088 in (2.2 mm)        | ICEA Chart E1 |

##### Inner Shield

| Element | Shield Type | Material                | Coverage | Drainwire Type   | Notes   |
|---------|-------------|-------------------------|----------|------------------|---|
| Pair(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 20 AWG (7x28) TC | each pair, extra polyester tape for isolation |

##### 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 | 0.084 in (2.1 mm) | 0.898 in (22.8 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.898 in (22.8 mm) |
|-----------------------------------|--------------------|

#### Electrical Characteristics

##### Electricals

| Element | Nom. Conductor DCR | Nom. Inner Shield DCR         | Max. Current                |
|---------|--------------------|-------------------------------|-----------------------------|
| Pair(s) | 6.66 Ohm/1000ft    | 8.48 Ohm/1000ft (27.8 Ohm/km) | 6 Amps per conductor @ 30°C |

##### Voltage

| UL Voltage Rating           |
|-----------------------------|
| 600 V (TC-ER), 150 V (NPLF) |

#### Mechanical Characteristics

##### Temperature

| UL Temperature | Operating |
|----------------|-----------|
|                |           |

90°C Dry, 90°C Wet -30°C to 90°C Dry/Wet

#### Bend Radius

| Stationary Min.  | Installation Min. |
|------------------|-------------------|
| 10.8 in (274 mm) | 10.8 in (274 mm)  |

|                    |                  |
|--------------------|------------------|
| Max. Pull Tension: | 752 lbs (341 kg) |
| Bulk Cable Weight: | 447 lbs/1000ft   |

#### Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial  |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, FT4, IEEE 1202 FT4   |
| NEC / UL Compliance:             | Article 336, Article 760, NPLF, TC-ER   |
| 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)   |
| Other Standard Compliance(s):    | ICEA S-73-532 (WC57), S-61-402  |

#### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.563 Revision Date: 04-14-2023 |
|----------------------|--|

#### Part Numbers

##### Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 1052A 0102500 | Black | Reel       | 2,500 ft | 612825105411 |
| 1052A 0107500 | Black | Reel       | 7,500 ft | 612825105435 |

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