



Product: [1050A](#)

Inst, 8 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, 8 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 | AWG | Stranding | Material         |
|---------|-------------------|-----|-----------|------------------|
| Pair(s) | 8                 | 18  | 7x26      | BC - Bare Copper |

Insulation

| Element | Material                                  | Thickness [in.] | Color Code            |
|---------|-------------------------------------------|-----------------|-----------------------|
| Pair(s) | PVC/Nylon - Polyvinyl Chloride/Nylon Skin | 0.021           | Black, White Numbered |

Inner Shield Material

| Element | Shield Type | Material    | Coverage | Drainwire Type   | Notes                              |
|---------|-------------|-------------|----------|------------------|------------------------------------|
| Pair(s) | Tape        | Alum / Poly | 100%     | 20 AWG (7x28) TC | Extra polyester tape for isolation |

Outer Shield Material

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

Outer Jacket Material

| Material                 | Thickness | Nom. Diameter | Ripcord |
|--------------------------|-----------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.063 in  | 0.675 in      | Yes     |

|                           |          |
|---------------------------|----------|
| Cable Diameter (Nominal): | 0.675 in |
|---------------------------|----------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR |
|---------|--------------------|
| Pair(s) | 5.86 Ohm/1000ft    |

|                       |                 |
|-----------------------|-----------------|
| Nom Outer Shield DCR: | 4.47 Ohm/1000ft |
|-----------------------|-----------------|

Voltage

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

Mechanical Characteristics

Temperature

| UL Rating          | Operating                |
|--------------------|--------------------------|
| 90°C Dry, 90°C Wet | -30C to 90C Dry, 75C wet |

**Bend Radius**

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 6.75 in         | 8.1 in            |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 350 lbs        |
| Bulk Cable Weight: | 236 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 336, Article 760, NPLF, TC-ER                                                                   |
| 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)                                                                         |
| Other Standard Compliance(s):   | ICEA S-73-532 (WC57), S-61-402                                                                          |

**History**

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.367 Revision Date: 07-28-2020 |
|----------------------|--------------------------------------------------|

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