



**Product:** [61P1802](#) 

Inst PVC/PVC, 2 Pr #18 Str BC, PVC-NYL Ins E1, OS, Blk PVC Jkt, TC-ER  
NPLF 90C Dry 75C Wet

## Product Description

UL Instrumentation, 2 Pair 18AWG (7x26) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, TC-ER NPLF 90C Dry 75C 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 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element | No. of Elements | Size   | Stranding | Material         |
|---------|-----------------|--------|-----------|------------------|
| Pair(s) | 2               | 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 mm              | ICEA Chart E1 |

#### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 22 AWG (7x30) TC |

#### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter | Ripcord |
|--------------------------|-------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.405 in      | Yes     |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.405 in |
|-----------------------------------|----------|

### Electrical Characteristics

#### Electricals

| Nom. Conductor DCR | Max. Current                    |
|--------------------|---------------------------------|
| 6.66 Ohm/1000ft    | 14.4 Amps per Conductor at 30°C |

#### Voltage

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

### Mechanical Characteristics

#### Temperature

| UL Temperature     | Operating              |
|--------------------|------------------------|
| 90°C Dry, 75°C Wet | Wet/Dry: -30°C to 90°C |

#### Bend Radius

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

|                    |                    |
|--------------------|--------------------|
| 4.86 in (123 mm)   | 4.86 in            |
| Max. Pull Tension: | 98.7 lbs (44.8 kg) |
| Bulk Cable Weight: | 67 lbs/1000ft      |

Standards and Compliance

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| Environmental Suitability:       | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial |
| Flammability / Reaction to Fire: | UL 1685 UL Loading, IEEE 1202 FT4                           |
| NEC / UL Compliance:             | Article 336, Article 760, NPLF, TC-ER                       |
| CEC / C(UL) Compliance:          | .                                                           |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.86 Revision Date: 08-07-2026 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #          | UPC          |
|-----------------|--------------|
| 61P1802 0105000 | 612825363439 |

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