



Product: [1065A](#)

Inst, 8 Pr #18 Str BC, PVC-NYL Ins E1, 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, 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)   | 8                 | 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 |

| 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 | 0.064 in (1.6 mm) | 0.635 in (16.1 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.635 in (16.1 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

| Electricals |                    |                             |
|-------------|--------------------|-----------------------------|
| Element     | Nom. Conductor DCR | Max. Current                |
| Pair(s)     | 6.93 Ohm/1000ft    | 7 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. |

|                    |                  |
|--------------------|------------------|
| 7.6 in (190 mm)    | 7.6 in (190 mm)  |
| Max. Pull Tension: | 381 lbs (173 kg) |
| Bulk Cable Weight: | 194 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, TC-ER, NPLF, TFFN                                                                               |
| 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, S-61-402                                                                                                   |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.549 Revision Date: 04-14-2023 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 1065A 0107500 | Black | Reel       | 7,500 ft | 612825105688 |

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