



**Product:** [9342](#) 

High Perform Instr, 1 Pr #16 Str TC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC

 [Request Sample](#)

## Product Description

High Performance Instrumentation, 1 Pair 16AWG (19x29) Tinned Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC

## 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 | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 1               | 16 AWG | 19x29     | TC - Tinned Copper |

#### Insulation

| Element | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code    |
|---------|----------------------------------------|--------------------|--------------------------|---------------|
| Pair(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.022 in (0.56 mm) | 0.101 in (2.57 mm)       | ICEA Chart E2 |

#### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type    |
|-------------|-------------------------|----------|-------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 16 AWG (19x29) TC |

#### Outer Jacket

| Separator    | Material                 | Nom. Thickness    | Nom. Diameter      | Ripcord |
|--------------|--------------------------|-------------------|--------------------|---------|
| Cotton Serve | PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.294 in (7.47 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.294 in (7.47 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Inductance       | Max. Current                   |
|---------|--------------------|-------------------------------|-------------------------------------------------|-----------------------|--------------------------------|
| Pair(s) | 4.45 Ohm/1000ft    | 50 pF/ft (160 pF/m)           | 87 pF/ft (290 pF/m)                             | 0.2 µH/ft (0.66 µH/m) | 6.2 Amps per conductor at 25°C |

|                       |                               |
|-----------------------|-------------------------------|
| Nom Outer Shield DCR: | 4.18 Ohm/1000ft (13.7 Ohm/km) |
|-----------------------|-------------------------------|

#### Voltage

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

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.9 in (74 mm)  | 2.9 in (74 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 40 lbs (18 kg) |
| Bulk Cable Weight: | 52 lbs/1000ft  |

Standards and Compliance

|                                  |                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial                                                  |
| Flammability / Reaction to Fire: | UL 1685 UL Loading, IEEE 1202, FT4                                                                            |
| NEC / UL Compliance:             | Article 336, Article 760, NPLF, TC                                                                            |
| European Directive Compliance:   | 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: 0.590 Revision Date: 04-10-2026 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color | UPC          | Footnote |
|---------------|-------|--------------|----------|
| 9342 0101000  | Black | 612825232056 | C        |
| 9342 010500   | Black | 612825232070 | C        |
| 9342 0105000  | Black | 612825232087 |          |
| 9342 01010000 | Black | 612825232063 |          |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

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