



**Product:** [9486](#)

High Perform Instr, 1 Pr #18 Str TC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC

[Request Sample](#)

### Product Description

High Performance Instrumentation, 1 Pair 18AWG (19x32) Tinned Copper, PVC-NYL Insulation E2 Color Code, 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 |
|------------------------|--|

#### Construction Details

##### Conductor

| Element | No. of Elements | Size | Stranding | Material           |
|---------|-----------------|------|-----------|--------------------|
| Pair(s) | 1               | 18   | 19x30     | TC - Tinned Copper |

##### Insulation

| Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code  |
|--|--------------------|--------------------------|-------------|
| PVC/Nylon - Polyvinyl Chloride + Nylon | 0.016 in (0.41 mm) | 0.088 in (2.2 mm)        | Black & Red |

##### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter      | Ripcord |
|--------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.048 in (1.2 mm) | 0.275 in (6.99 mm) | Yes     |

#### Electrical Characteristics

##### Electricals

| Nom. Conductor DCR | Max. Current                  |
|--------------------|-------------------------------|
| 7.29 Ohm/1000ft    | 15 Amps per Conductor at 25°C |

##### Voltage

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

#### Mechanical Characteristics

##### Temperature

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

##### Bend Radius

| Stationary Min.   | Installation Min. |
|-------------------|-------------------|
| 1.08 in (27.4 mm) | 1.35 in (34.3 mm) |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 50 lbs (23 kg) |
| Bulk Cable Weight: | 40 lbs/1000ft  |

#### Standards and Compliance

|                            |  |
|----------------------------|--|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, Burial |
|----------------------------|--|

|                                  |   |
|----------------------------------|---|
| Flammability / Reaction to Fire: | UL 1685 UL loading, IEEE 1202 FT4   |
| CPR Compliance:                  | CPR Euroclass: Eca  |
| NEC / UL Compliance:             | Article 336, Article 760, NPLF, TC  |
| 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) |
| UK Regulation Compliance:        | UKCA Mark   |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)   |

## Product Notes

|        |  |
|--------|--|
| Notes: | Alternate color coding available upon request. |
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## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.585 Revision Date: 02-15-2024 |
|----------------------|--|

## Part Numbers

### Variants

| Item #       | Color | UPC          | Footnote |
|--------------|-------|--------------|----------|
| 9486 0101000 | Black | 612825253778 | C        |

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