



**Product:** [6661PT](#)

Thermostat & Control, #24-2pr, TC, Individ. Foil, CMP

Product Description

Thermostat & Control Cable, Plenum-CMP, 2-24 AWG solid tinned copper pairs with foam FEP insulation, Individually Beldfoil® shielded and Flamarrest® jacket

Technical Specifications

Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Thermostat, Control, Noisy Environment |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 2               | 24 AWG | Solid     | TC - Tinned Copper |

Insulation

| Element | Material                                    | Nom. Thickness     | Nom. Insulation Diameter | Color Code                 |
|---------|---|--------------------|--------------------------|----------------------------|
| Pair(s) | FEP - Fluorinated Ethylene Propylene (Foam) | 0.013 in (0.33 mm) | 0.047 in (1.2 mm)        | Black & White, Green & Red |

Inner Shield

| Shield Type | Material                | Coverage | Drainwire Type    |
|-------------|-------------------------|----------|-------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (Solid) TC |

Outer Shield

| Material  |
|-----------|
| No Shield |

Outer Jacket

| Material                       | Nom. Thickness     | Nom. Diameter |
|--------------------------------|--------------------|---------------|
| PVDF - Polyvinylidene Fluoride | 0.015 in (0.38 mm) | 0.155 in      |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.155 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Inner Shield DCR         | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current                    |
|--------------------|-------------------------------|-------------------------------|---|-------------------------------|------------------------|---------------------------------|
| 32.8 Ohm/1000ft    | 20.8 Ohm/1000ft (68.2 Ohm/km) | 34.9 pF/ft (115 pF/m)         | 62.8 pF/ft (206 pF/m)                           | 60 Ohm                        | 53%                    | 1.68 Amps per Conductor at 30°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V             |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------|
|----------------|-----------|

|      |                |
|------|----------------|
| 75°C | -20°C to +75°C |
|------|----------------|

Bend Radius

| Stationary Min.   | Installation Min. |
|-------------------|-------------------|
| 1.55 in (39.4 mm) | 1.55 in           |

|                    |                    |
|--------------------|--------------------|
| Max. Pull Tension: | 27.1 lbs (12.3 kg) |
| Bulk Cable Weight: | 16 lbs/1000ft      |

Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor - Plenum, Indoor   |
| Flammability / Reaction to Fire: | NFPA 262 (UL 910), FT6  |
| NEC / UL Compliance:             | Article 800, CMP  |
| CEC / C(UL) Compliance:          | CMP   |
| 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)   |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.474 Revision Date: 03-04-2024 |
|----------------------|--|

Part Numbers

Variants

| Item #         | Color | UPC          | Footnote |
|----------------|-------|--------------|----------|
| 6661PT 0011000 | Brown | 612825178828 | C        |

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