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## General Description:

Thermostat & Control Cable, Riser-CMR, 2-22 AWG stranded tinned copper pairs with foamed polyolefin insulation, Individually Beldfoil® shielded and PVC jacket

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2       | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors: 4

### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material                    |
|-----------------------|--|
| Datalene®             | FHDPE - Foam High Density Polyethylene |

### Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100.000      |

Inner Shield Drain Wire AWG:

| AWG | Stranding | Conductor Material |
|-----|-----------|--------------------|
| 22  | 7x30      | TC - tinned copper |

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

### Overall Cable

Overall Nominal Diameter: 5.131 mm

### Pair

Pair Color Code Chart:

| Number | Color         |
|--------|---------------|
| 1      | Black & White |
| 2      | Green & Red   |

## Mechanical Characteristics (Overall)

|                                   |                |
|-----------------------------------|----------------|
| Operating Temperature Range:      | -20°C To +75°C |
| UL Temperature Rating:            | 75°C           |
| Bulk Cable Weight:                | 34.675 Kg/Km   |
| Max. Recommended Pulling Tension: | 240.203 N      |
| Min. Bend Radius/Minor Axis:      | 50.800 mm      |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMR        |
| CEC/C(UL) Specification:              | CMG        |
| EU Directive 2011/65/EU (ROHS II):    | Yes        |
| EU CE Mark:                           | Yes        |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 02/01/2006 |

## METRIC MEASUREMENT VERSION

## 5541PT Multi-Conductor - Thermostat & Control

|                                   |     |
|-----------------------------------|-----|
| EU Directive 2002/96/EC (WEEE):   | Yes |
| EU Directive 2003/11/EC (BFR):    | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS):       | Yes |

### Flame Test

|                   |               |
|-------------------|---------------|
| UL Flame Test:    | UL 1666 Riser |
| C(UL) Flame Test: | FT4           |

### Plenum/Non-Plenum

|                |        |
|----------------|--------|
| Plenum (Y/N):  | No     |
| Plenum Number: | 6541PT |

## Electrical Characteristics (Overall)

### Nom. Inductance:

**Inductance (µH/m)**  
0.68901

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/m)**  
55.449

### Nominal Velocity of Propagation:

**VP (%)**  
78

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)**  
47.575

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 41.669 Ohm/km

### Max. Operating Voltage - UL:

**Voltage**  
300 V RMS

### Max. Recommended Current:

**Current**  
8.1 Amps per conductor @ 25°C

### Input/Unfitted Impedance:

**Impedance (Ohm)**  
100.000

## Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc               |
|----------------|----------|-------------|-------|-------|-------------------------|
| 5541PT 0011000 | 1,000 FT | 25.000 LB   | BROWN | C     | 2 FS PR #22 FHDPE FRPVC |

### Notes:

C = CRATE REEL PUT-UP.

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