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please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, twisted pair, FEP insulation, overall Beldfoil shield (100% coverage), 22 AWG stranded TC drain wire, Flamarrest® jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors: 2

#### Insulation

Insulation Material:

| Insulation Material                  | Wall Thickness (in.) |
|--------------------------------------|----------------------|
| FEP - Fluorinated Ethylene Propylene | .007                 |

#### Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22  | 7x30      | TC - Tinned Copper            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material                 |
|-------------------------|---------------------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride |

#### Overall Cable

Overall Nominal Diameter: 0.127 in.

#### Pair

Pair Color Code Chart:

| Number | Color       |
|--------|-------------|
| 1      | Black & Red |

### Mechanical Characteristics (Overall)

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -20°C To +75°C  |
| UL Temperature Rating:            | 60°C            |
| Bulk Cable Weight:                | 14 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 27 lbs.         |
| Min. Bend Radius/Minor Axis:      | 1.250 in.       |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMP        |
| CEC/C(UL) Specification:              | CMP        |
| 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): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |

## 9451P Multi-Conductor - Single-Pair Cable

|                                   |     |
|-----------------------------------|-----|
| 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:  | NFPA 262 |
| CSA Flame Test: | FT6      |

### Plenum/Non-Plenum

|                    |      |
|--------------------|------|
| Plenum (Y/N):      | Yes  |
| Non-Plenum Number: | 9451 |

### Electrical Characteristics (Overall)

#### Nom. Inductance:

**Inductance (µH/ft)**

#### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/ft)**

#### Nom. Capacitance Cond. to Other Conductor & Shield:

**Capacitance (pF/ft)**

#### Nominal Velocity of Propagation:

**VP (%)**

#### Nominal Delay:

**Delay (ns/ft)**

#### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**

#### Nominal Outer Shield DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**

#### Max. Operating Voltage - UL:

**Voltage**

#### Max. Recommended Current:

**Current**

### Notes (Overall)

**Notes:** The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

### Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color       | Notes | Item Desc               |
|----------------|----------|-------------|-------------|-------|-------------------------|
| 9451P N3UU1000 | 1,000 FT | 16.000 LB   | GREEN, MIL  |       | FSPR #22 FEP PLENUM PVC |
| 9451P N3U5000  | 5,000 FT | 75.000 LB   | GREEN, MIL  | C     | FSPR #22 FEP PLENUM PVC |
| 9451P 001U1000 | 1,000 FT | 16.000 LB   | BROWN       |       | FSPR #22 FEP PLENUM PVC |
| 9451P 0015000  | 5,000 FT | 75.000 LB   | BROWN       | C     | FSPR #22 FEP PLENUM PVC |
| 9451P 002U1000 | 1,000 FT | 16.000 LB   | RED         |       | FSPR #22 FEP PLENUM PVC |
| 9451P 0025000  | 5,000 FT | 75.000 LB   | RED         | C     | FSPR #22 FEP PLENUM PVC |
| 9451P 003U1000 | 1,000 FT | 16.000 LB   | ORANGE      |       | FSPR #22 FEP PLENUM PVC |
| 9451P 0035000  | 5,000 FT | 75.000 LB   | ORANGE      | C     | FSPR #22 FEP PLENUM PVC |
| 9451P 004U1000 | 1,000 FT | 16.000 LB   | YELLOW      |       | FSPR #22 FEP PLENUM PVC |
| 9451P 0045000  | 5,000 FT | 75.000 LB   | YELLOW      | C     | FSPR #22 FEP PLENUM PVC |
| 9451P 006U1000 | 1,000 FT | 16.000 LB   | BLUE, LIGHT |       | FSPR #22 FEP PLENUM PVC |
| 9451P 0065000  | 5,000 FT | 75.000 LB   | YELLOW      | C     | FSPR #22 FEP PLENUM PVC |
| 9451P 007U1000 | 1,000 FT | 16.000 LB   | VIOLET      |       | FSPR #22 FEP PLENUM PVC |
| 9451P 0075000  | 5,000 FT | 75.000 LB   | VIOLET      | C     | FSPR #22 FEP PLENUM PVC |
| 9451P 008U1000 | 1,000 FT | 16.000 LB   | GRAY        |       | FSPR #22 FEP PLENUM PVC |
| 9451P 0085000  | 5,000 FT | 75.000 LB   | GRAY        | C     | FSPR #22 FEP PLENUM PVC |
| 9451P 009U1000 | 1,000 FT | 16.000 LB   | WHITE       |       | FSPR #22 FEP PLENUM PVC |

## 9451P Multi-Conductor - Single-Pair Cable

|                |          |           |       |   |                         |
|----------------|----------|-----------|-------|---|-------------------------|
| 9451P 0095000  | 5,000 FT | 75.000 LB | WHITE | C | FSPR #22 FEP PLENUM PVC |
| 9451P 010U1000 | 1,000 FT | 16.000 LB | BLACK |   | FSPR #22 FEP PLENUM PVC |
| 9451P 0101000  | 1,000 FT | 15.000 LB | BLACK |   | FSPR #22 FEP PLENUM PVC |
| 9451P 0105000  | 5,000 FT | 75.000 LB | BLACK | C | FSPR #22 FEP PLENUM PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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