



For more Information  
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 |
| MIL 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 |

## ENGLISH MEASUREMENT VERSION

### 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.

Revision Number: 1    Revision Date: 07-29-2013

© 2014 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.