

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



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

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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)
.15

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
35

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

Capacitance (pF/ft)
67

## Nominal Velocity of Propagation:

VP (%)
69

## Nominal Delay:

Delay (ns/ft)
1.47

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14.1

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14.3

## Max. Operating Voltage - UL:

Voltage
300 V RMS

## Max. Recommended Current:

Current
2.9 Amps per conductor @ 25°C

## 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

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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 010500	500 FT	8.500 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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