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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, Flammarrest® 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 (mm)
FEP - Fluorinated Ethylene Propylene	0.1778

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
Flammarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 3.226 mm

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: 20.835 Kg/Km

Max. Recommended Pulling Tension: 120.101 N

Min. Bend Radius/Minor Axis: 31.750 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

9451P Multi-Conductor - Single-Pair Cable

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
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 ($\mu\text{H}/\text{m}$)
0.49215

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
114.835

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
219.827

Nominal Velocity of Propagation:

VP (%)
69

Nominal Delay:

Delay (ns/m)
4.82307

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
46.2621

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
46.9183

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 N3UZ1000	1,000 FT	17.000 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 001Z1000	1,000 FT	17.000 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 003Z1000	1,000 FT	17.000 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 004Z1000	1,000 FT	17.000 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 006Z1000	1,000 FT	17.000 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 008Z1000	1,000 FT	17.000 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 009Z1000	1,000 FT	17.000 LB	WHITE		FSPR #22 FEP PLENUM PVC
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 010Z1000	1,000 FT	17.000 LB	BLACK		FSPR #22 FEP PLENUM PVC
9451P 010Z250	250 FT	6.750 LB	BLACK		FSPR #22 FEP PLENUM PVC
9451P 010Z500	500 FT	8.500 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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