



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

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	Nom. Wall Thickness (in.)
Flammarrest®	LS PVC - Low Smoke Polyvinyl Chloride	.017

Overall Cabling

Overall Nominal Diameter: 0.127 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.750	6.860

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 (Install)/Minor Axis:	1.300 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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 (µH/ft)

.15

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

35

Nom. Capacitance Cond. to Other Conductor & 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

9451P Multi-Conductor - Single-Pair Cable

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 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 0105000	5,000 FT	75.000 LB	BLACK	C	FSPR #22 FEP PLENUM PVC

Notes:

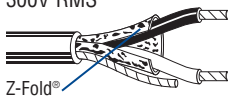
C = CRATE REEL PUT-UP.

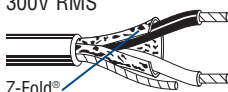
Overall Beldfoil® Shield


Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire

Plenum • FEP Insulation • Red FEP Jacket																				
 <p>Z-Fold®</p>	300V RMS	88761	NEC:	1	Black,	100†	30.5	2.7	1.2	.006	.15	.014	.36	.119	3.02	35	115	67	220	
			CMP		Red	U-500†	U-152.4	7.5	3.4											
			CEC:			500†	152.4	7.5	3.4											
			CMP FT6			U-1000†	U-304.8	15.0	6.8											
						1000†	304.8	12.0	5.4											

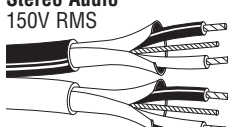
Plenum • FEP Insulation • Red Fluorocopolymer Jacket																				
 <p>Z-Fold®</p>	300V RMS	87761	NEC:	1	Black,	500†	152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220	
			CMP		Red	1000†	304.8	11.0	5.0											
			CEC:																	
			CMP FT6																	

Plenum • FEP Insulation • Natural Flammarrest® Jacket																				
 <p>Z-Fold®</p>	300V RMS	82761	NEC:	1	Black,	U-500†	U-152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220	
			CMP		Red	U-1000†	U-304.8	14.0	6.4											
			CEC:			1000†	304.8	11.0	5.0											
			CMP FT6																	

Plenum • FEP Insulation • Flammarrest Jacket (Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Purple or White)																				
	300V RMS 60°C	9451P <small>new</small>	NEC:	1	Black,	U-1000	U-304.8	15.0	6.8	.007	.18	.017	.43	.127	3.23	35	115	67	220	
			CMP		Red	5000	1524.0	75.0	34.0											
			CEC:																	
			CMP FT6																	

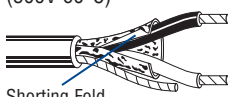
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.


22 AWG Stranded (19x34) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire

PVC Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray)																				
	Stereo Audio	1504A	NEC:	2	Black,	U-1000	U-304.8	32.0	14.5	.010	.25	.020	.51	.143	3.63	57	187	100	328	
	150V RMS		CM		Red	2000††	609.8	64.0	29.0					x	x					
			CEC:												.286	7.26				
			CM																	

††2000 ft. put-up available in Red & Gray or Red & Green only.
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

20 AWG Stranded (7x28) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket																				
 <p>Shorting Fold</p>	UL AWM Style 2092 (300V 60°C)	8762	NEC:	1	Black,	100	30.5	3.2	1.5	.016	.41	.028	.71	.204	5.18	27	89	49	161	
			CM		Clear	250	76.2	6.3	2.8											
			CEC:			U-500	U-152.4	12.0	5.5											
			CM			500	152.4	12.0	5.5											
						U-1000	U-304.8	23.0	10.5											
						1000	304.8	23.0	10.5											
						2000	609.6	46.0	20.9											

	UL AWM Style 2092 (300V 60°C)	9464	NEC:	1	Black,	U-500	U-152.4	17.0	7.7	.016	.41	.035	.89	.214	5.44	27	89	49	161
			CM		Clear	U-1000	U-304.8	32.0	14.5										
			CEC:																
			CM																

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

TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.