



## Description:

22 AWG stranded (7x30) TC conductors, plenum, FEP insulation, twisted pairs, individually shielded Beldfoil® (100% coverage), 24 AWG stranded TC drain wire, fluorocopolymer jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material
2	22	7x30	TC - Tinned Copper

### Insulation

#### Insulation Material:

##### Insulation Material

FEP - Fluorinated Ethylene Propylene

### Inner Shield

#### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

#### Inner Shield Drain Wire AWG:

##### AWG

24

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

### Outer Shield

#### Outer Shield Material:

##### Outer Shield Material

Unshielded

### Outer Jacket

#### Outer Jacket Material:

##### Outer Jacket Material

PVDF - Fluorocopolymer

### Overall Cabling

Overall Nominal Diameter: 0.148 in.

### Pair

#### Pair Color Code Chart:

Number	Color
1	Red & Black
2	Green & White

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +150°C

Bulk Cable Weight: 18.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 46 lbs.

Min. Bend Radius (Install)/Minor Axis:	1.500 in.
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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP, PCC
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
C(UL) Flame Test:	FT6

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	8723

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)
40

#### 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

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14.7

#### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
15

#### Nominal Conductor Loop Resistance:

Resistance @ 20°C (Ohm/1000 ft)
34

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

#### Max. Recommended Current:

Current
2.3 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
87723 0021000	1,000 FT	18.000 LB	RED	C	2 SH PR #22 FEP SOLEF
87723 002500	500 FT	11.000 LB	RED	C	2 SH PR #22 FEP SOLEF

**Notes:**

C = CRATE REEL PUT-UP.

# Plenum-Rated


## Individually Shielded Pairs

### Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m


**22 AWG** Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire††

#### Plenum • FEP Insulation • Natural Flamarrest® Jacket


 <p>300V RMS</p>	<b>82723</b>	NEC:	2	Red & Black	U-500	U-152.4	10.5	4.8	14.7Ω/M'	16.6Ω/M'	.153	3.89	36	62%	43	141	75	246
		CMP			U-1000	U-304.8	20.0	9.1	48.2Ω/km	54.5Ω/km								
		CEC:			1000	304.8	19.0	8.6										
		CMP FT6			U-2000	U-609.6	40.0	18.2										

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††82723 has 24 AWG drain wire  
Pairs cabled on common axis to reduce diameter.

 <p>300V RMS</p>	<b>82777</b>	NEC:	3	See Chart 3	U-500	U-152.4	19.5	8.9	14.7Ω/M'	11.3Ω/M'	.237	6.02	46	62%	35	115	76	249
		CMP			U-1000	U-304.8	38.0	17.3	48.2Ω/km	37.1Ω/km								
		CEC:			1000	304.8	39.0	17.7										
		CMP FT6			(Tech Info Section)													

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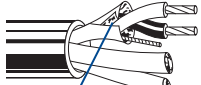
 <p>300V RMS</p>	<b>82778</b>	NEC:	6	See Chart 3	U-500	U-304.8	71.0	32.2	14.7Ω/M'	11.3Ω/M'	.314	7.98	46	62%	35	115	76	249
		CMP			U-1000	U-609.6	142.0	64.4	96.4Ω/km	74.2Ω/km								
		CEC:			(Tech Info Section)													
		CMP FT6																

#### Plenum • FEP Insulation • Red FEP Jacket


 <p>300V RMS</p>	<b>88723</b>	NEC:	2	Red & Black	U-500	U-152.4	3.4	1.5	14.7Ω/M'	16.6Ω/M'	.148	3.76	40	69%	35	115	67	220
		CMP			U-1000	U-304.8	11.0	5.0	48.2Ω/km	54.5Ω/km								
		CEC:			1000	304.8	19.0	8.6										
		CMP FT6			Green & White													

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††88723 has 24 AWG drain wire


 <p>300V RMS</p>	<b>88777</b>	NEC:	3	See Chart 3	U-500	U-152.4	6.0	2.7	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220
		CMP			U-1000	U-304.8	19.0	8.6	48.2Ω/km	37.1Ω/km								
		CEC:			1000	304.8	42.0	19.1										
		CMP FT6			(Tech Info Section)													

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 <p>300V RMS</p>	<b>88778</b>	NEC:	6	See Chart 3	U-500	U-304.8	7.0	3.2	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220
		CMP			U-1000	U-609.6	14.0	6.4	48.2Ω/km	37.1Ω/km								
		CEC:			1000	304.8	75.0	34.1										
		CMP FT6			(Tech Info Section)													


Pairs cabled on common axis to reduce diameter.

#### Plenum • FEP Insulation • Red Fluorocopolymer Jacket


 <p>300V RMS</p>	<b>87723</b>	NEC:	2	Red & Black	U-500	U-152.4	11.0	5.0	14.7Ω/M'	15.0Ω/M'	.148	3.76	40	69%	35	115	67	220
		CMP			U-1000	U-304.8	18.0	8.2	48.2Ω/km	49.2Ω/km								
		CEC:			Green & White													
		CMP FT6																

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††87723 has 24 AWG drain wire.

 <p>300V RMS</p>	<b>87777</b>	NEC:	3	See Chart 3	U-500	U-152.4	18.0	8.2	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220
		CMP			U-1000	U-304.8	40.0	18.2	48.2Ω/km	37.1Ω/km								
		CEC:			(Tech Info Section)													
		CMP FT6																

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 <p>300V RMS</p>	<b>87778</b>	NEC:	6	See Chart 3	U-500	U-152.4	37.5	17.0	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220
		CMP			U-1000	U-304.8	73.0	33.2	48.2Ω/km	37.1Ω/km								
		CEC:			(Tech Info Section)													
		CMP FT6																

Pairs cabled on common axis to reduce diameter.

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

\*Capacitance between conductors.

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