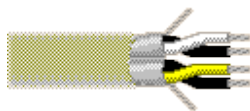


## 9406 Multi-Conductor - Audio, Control and Instrumentation Cable



### Description:

22 AWG stranded (7x30) TC conductors, semi-rigid PVC insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

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

#### Insulation

##### Insulation Material:

Insulation Material
S-R PVC - Semi-Rigid Polyvinyl Chloride

#### 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
22

Inner Shield Drain Wire Stranding: 7x30

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
PVC - Polyvinyl Chloride

#### Overall Cabling

Overall Nominal Diameter: 0.173 x 0.280 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & White
2	Black & Yellow

##### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.250	9.600

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

## 9406 Multi-Conductor - Audio, Control and Instrumentation Cable

<b>UL Temperature Rating:</b>	80°C (UL AWM Style 2464)
<b>Bulk Cable Weight:</b>	31 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	36 lbs.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	2.800 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMG
<b>CEC/C(UL) Specification:</b>	CMG
<b>AWM Specification:</b>	UL Style 2464 (300 V 80°C)
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	10/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Flame Test

<b>C(UL) Flame Test:</b>	FT4
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#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

50

#### Nom. Inductance:

Inductance (µH/ft)

0.095

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

50

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

Capacitance (pF/ft)

95

#### Nominal Velocity of Propagation:

VP (%)

60

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

15

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:** 13 Ohm/1000 ft

#### Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2464)

#### Max. Recommended Current:

## 9406 Multi-Conductor - Audio, Control and Instrumentation Cable

**Current**

2.3 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9406 T35U1000	1,000 FT	32.000 LB	BEIGE, PALE FAWN		2 #22 FS PR PVC PVC
9406 T35U500	500 FT	16.500 LB	BEIGE, PALE FAWN		2 #22 FS PR PVC PVC
9406 T35100	100 FT	3.800 LB	BEIGE, PALE FAWN		2 #22 FS PR PVC PVC
9406 T351000	1,000 FT	33.000 LB	BEIGE, PALE FAWN	C	2 #22 FS PR PVC PVC
9406 T35500	500 FT	17.000 LB	BEIGE, PALE FAWN		2 #22 FS PR PVC PVC

**Notes:**

C = CRATE REEL PUT-UP.

# Individually Shielded

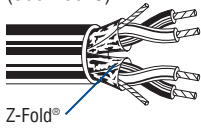
Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		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 w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire

**Semi-rigid PVC Insulation • Pale Fawn Beige PVC Jacket** (Shielded Pairs Parallel under Jacket)

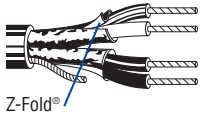
UL AWM Style 2464 (300V 80°C)	<b>9406</b>	NEC:	2	Black & White,	100	30.5	3.8	1.7	15.0Ω/M'	13.0Ω/M'	.173	4.39	50	60%	50	164	95	312
		CMG			U-500	U-152.4	16.5	7.5	49.2Ω/km	42.7Ω/km	x	x						
		CEC:			500	152.4	17.0	7.7			.280	7.11						
		CMG FT4			U-1000	U-304.8	32.0	14.5										
					1000	304.8	33.0	15.0										



**22 AWG** Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 24 AWG Stranded TC Drain Wire

**Polypropylene Insulation • Chrome PVC Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

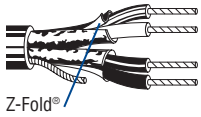
300V RMS 60°C	<b>8723</b>	NEC:	2	Red & Black,	100	30.5	2.3	1.0	15.0Ω/M'	16.6Ω/M'	.160	4.06	45	66%	35	115	62	203
		CM			U-500	U-152.4	10.5	4.8	49.2Ω/km	54.5Ω/km								
		CEC:			500	152.4	10.0	4.5										
		CM			U-1000	U-304.8	20.0	9.1										
					1000	304.8	20.0	9.1										
					1640	499.9	32.8	14.9										
					U-2000	U-609.6	38.0	17.2										
					2000	609.6	40.0	18.2										
					3280	999.7	65.6	29.8										
					5000	1524.0	95.0	43.2										
		10000	3048.0	200.0	90.9													



For Plenum versions of 8723, see 88723, 87723 or 82723.

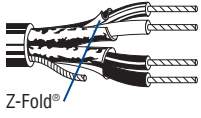
**Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

300V RMS 60°C	<b>8723SB</b>	NEC:	2	Red & Black,	1000	304.8	26.0	11.8	14.7Ω/M'	15.0Ω/M'	.196	4.98	45	66%	35	115	62	203
		CMG-LS			U-1000	U-304.8	20.0	9.1	48.2Ω/km	49.2Ω/km								
		CEC:		Green & White														
		CMG-LS FT4																
		Limited Smoke																



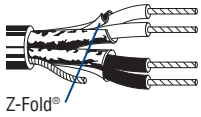
**Plenum • FEP Insulation • Natural Flammarrest® Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

300V RMS, Non-conduit	<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	18.1										



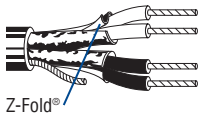
**Plenum • FEP Insulation • Red FEP Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

300V RMS, Non-conduit	<b>88723</b>	NEC:	2	Red & Black,	100†	30.5	3.4	1.5	16.0Ω/M'	14.7Ω/M'	.148	3.76	40	69%	35	115	67	220
		CMP			500†	152.4	11.0	5.0	52.5Ω/km	48.2Ω/km								
		CEC:			1000†	304.8	19.0	8.6										
		CMP FT6																



**Plenum • FEP Insulation • Red Fluorocopolymer Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

300V RMS, Non-conduit	<b>87723</b>	NEC:	2	Red & Black,	500†	152.4	11.0	5.0	14.7Ω/M'	15.0Ω/M'	.148	3.76	40	69%	35	115	67	220
		CMP			1000†	304.8	20.0	9.1	48.2Ω/km	49.2Ω/km								
		CEC:																
		CMP FT6																



DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • 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 show.