# **Detailed Specifications & Technical Data**





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

For more Information please call

1-800-Belden1



# **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	<b>Conductor Material</b>
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	Туре	Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

#### Inner Shield Drain Wire AWG:

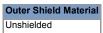


Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

# **Outer Shield**

#### **Outer Shield Material:**



### **Outer Jacket**

#### **Outer Jacket Material:**

**Outer Jacket Material** PVC - Polyvinyl Chloride

# **Overall Cable**

**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



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

# **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°C)
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):	10/01/2005
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	
C(UL) Flame Test:	FT4
Plenum/Non-Plenum	
Plenum (Y/N):	No

# **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 (%)** 

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 15

Ind. Pair Nominal Shield DC Resistance @ 20

13 Ohm/1000 ft

Deg. C:

Max. Operating Voltage - UL:

**Voltage** 300 V RMS (UL AWM Style 2464)

Max. Recommended Current:

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#### **ENGLISH MEASUREMENT VERSION**



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Current 2.3 Amps per conductor @ 25°C

#### **Related Documents:**

No related documents are available for this product

## **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	С	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.

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