

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

 For more Information  
 please call

1-800-Belden1

**General 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

**Total Number of Conductors:** 4
**Insulation****Insulation Material:**

Insulation Material	Wall Thickness (mm)
S-R PVC - Semi-Rigid Polyvinyl Chloride	0.279

**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	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.838

**Overall Cable**
**Overall Nominal Diameter:** 4.394 x 7.112 mm
**Pair****Pair Color Code Chart:**

Number	Color
1	Black & White
2	Black & Yellow

**Mechanical Characteristics (Overall)**
**Operating Temperature Range:** -20°C To +80°C

**UL Temperature Rating:** 80°C (UL AWM Style 2464)

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<b>Bulk Cable Weight:</b>	44.646 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	160.135 N
<b>Min. Bend Radius/Minor Axis:</b>	44.450 mm

**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 Directive 2011/65/EU (ROHS II):</b>	Yes
<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/m)

0.311695

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)

164.05

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

Capacitance (pF/m)

311.695

**Nominal Velocity of Propagation:**

VP (%)

60

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)

49.215

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:** 42.653 Ohm/km

**Max. Operating Voltage - UL:**

Voltage

300 V RMS (UL AWM Style 2464)

**Max. Recommended Current:**

Current

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2.3 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9406 T35U1000	305 MT	14.515 KG	BEIGE, PALE FAWN		2 #22 FS PR PVC PVC
9406 T35U500	152 MT	7.484 KG	BEIGE, PALE FAWN		2 #22 FS PR PVC PVC
9406 T35100	30 MT	1.724 KG	BEIGE, PALE FAWN		2 #22 FS PR PVC PVC
9406 T351000	305 MT	14.969 KG	BEIGE, PALE FAWN	C	2 #22 FS PR PVC PVC
9406 T35500	152 MT	7.711 KG	BEIGE, PALE FAWN		2 #22 FS PR PVC PVC

**Notes:**

C = CRATE REEL PUT-UP.

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