

## 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	Conductor Material
2	22	7x30	TC - Tinned Copper

Total Number of Conductors: 4

**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 Cable**

Overall Nominal Diameter: 4.394 x 7.112 mm

**Pair****Pair Color Code Chart:**

Number	Color
1	Black & White
2	Black & Yellow

**Pair Lay Length & Direction:**

Lay Length (mm)	Twists (twist/m)
31.75	31.498

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

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	46.134 Kg/Km
Max. Recommended Pulling Tension:	160.135 N
Min. Bend Radius/Minor Axis:	71.120 mm

**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/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:**

## METRIC MEASUREMENT VERSION

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

**Voltage**

300 V RMS (UL AWM Style 2464)

**Max. Recommended Current:****Current**

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.

Revision Number: 1    Revision Date: 11-10-2009

© 2012 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.