

## 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 (in.)
S-R PVC - Semi-Rigid Polyvinyl Chloride	0.011

#### 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 (in.)
PVC - Polyvinyl Chloride	0.033

#### Overall Cable

Overall Nominal Diameter: 0.173 x 0.280 in.

#### 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)

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 36 lbs.

Min. Bend Radius/Minor Axis: 1.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/UL Specification: CMG

CEC/C(UL) Specification: CMG

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AWM Specification:	UL Style 2464 (300 V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
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
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### Plenum/Non-Plenum

Plenum (Y/N):	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:

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.

Revision Number: 2    Revision Date: 11-05-2012

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