

# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

## 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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Bulk Cable Weight:	44.646 Kg/Km
Max. Recommended Pulling Tension:	160.135 N
Min. Bend Radius/Minor Axis:	44.450 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 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 ( $\mu$ H/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
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#### 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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