# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 9431 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information please call

1-800-Belden1



# **Description:**

22 AWG stranded (7x30) tinned copper conductors, conductors cabled, PVC insulation, PVC jacket.

## **Physical Characteristics (Overall)**

## Conductor

## AWG:

# Conductors	AWG	Stranding	Conductor Material		
20	22	7x30	TC - Tinned Copper		

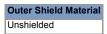
#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.010

#### **Outer Shield**

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



#### **Outer Jacket**

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

Outer Jacket Material		Nom. Wall Thickness (in.)			
	PVC - Polyvinyl Chloride	.040			

#### **Overall Cable**

## Overall Cabling Lay Length & Direction:



#### **Overall Cabling Color Code Chart:**

Color	
Black	
White	
Red	
Green	
Orange	
Blue	
White/Black	
Red/Black	
Green/Black	
Orange/Black	
Blue/Black	
Black/White	
Red/White	
Green/White	
Blue/White	
Black/Red	
White/Red	
Orange/Red	
Blue/Red	
Red/Green	

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## 9431 Multi-Conductor - Audio, Control and Instrumentation Cable

Overall Nominal Diameter: 0.345 in.

Mechanical	Characteristics (	(Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2576)
Bulk Cable Weight:	83.500 lbs/1000 ft.
Max. Recommended Pulling Tension:	180 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.500 in.

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

## **Applicable Standards & Environmental Programs**

	NEC/(UL) Specification:	CMG
	CEC/C(UL) Specification:	CMG
	AWM Specification:	UL Style 2576 (150 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):	04/01/2005
	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
Fla	ime Test	
	UL Flame Test:	FT4
Ple	enum/Non-Plenum	
	Plenum (Y/N):	No

## **Electrical Characteristics (Overall)**

Nom. Inductance:

Inductance (µH/ft) .17

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
34

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 15.6

Max. Operating Voltage - UL:

Voltage 300 V RMS (CMG) 150 V RMS (UL AWM Style 2576)

Max. Recommended Current:

**Current**1.5 Amps per conductor @ 25°C

## **Related Documents:**

No related documents are available for this product

## **Put Ups and Colors:**

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#### 9431 Multi-Conductor - Audio, Control and Instrumentation Cable

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9431 060100	100 FT	9.100 LB	CHROME		20 #22 PVC PVC
9431 0601000	1,000 FT	87.000 LB	CHROME	С	20 #22 PVC PVC
9431 060500	500 FT	44.500 LB	CHROME	С	20 #22 PVC PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-18-2008

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