# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



# 8441 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information please call

1-800-Belden1



# **Description:**

Overall braid, 22 AWG stranded (7x30) TC conductors, PVC insulation, twisted pair, polyester tape + TC braid shield (86% coverage), stranded TC drain wire, PVC jacket.

# **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>
1	22	7x30	TC - Tinned Copper

#### Insulation

### Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.015

### **Outer Shield**

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

	Outer Shield Material	
Braid	TC - Tinned Copper	86

#### **Outer Shield Drain Wire AWG:**

AWG	Stranding	<b>Drain Wire Conductor Material</b>
22	19x34	TC - Tinned Copper

## **Outer Jacket**

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

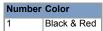
Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.025

#### **Overall Cable**

Overall Cabling Separator Material:	Polyester Tape
Overall Nominal Diameter:	0.194 in.

### **Pair**

# Pair Color Code Chart:



# Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.000	6.000

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C	
UL Temperature Rating:	80°C (UL AWM Style 2095)	
Bulk Cable Weight:	25 lbs/1000 ft.	
Max. Recommended Pulling Tension:	49 lbs.	
Min. Bend Radius (Install)/Minor Axis:	2 in.	

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Applicable Openifications and Appenie Openification (Openie)				
Applicable Specifications and Agency Compliance (Overall)				
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	CMG			
CEC/C(UL) Specification:	CMG			
AWM Specification:	UL Style 2095 (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):	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			
Flame Test				
UL Flame Test:	UL1685 FT4 Loading			
Plenum/Non-Plenum				
Plenum (Y/N):	No			

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)
45

Nom. Inductance:

Inductance (µH/ft) 0.20

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
49

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
86

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 16.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 5

Max. Operating Voltage - UL:

Voltage 300 V RMS (UL AWM Style 2095)

Max. Recommended Current:

Current
2.9 Amps per conductor @ 25°C

### **Related Documents:**

No related documents are available for this product

## **Put Ups and Colors:**

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### 8441 Multi-Conductor - Audio, Control and Instrumentation Cable

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8441 010U1000	1,000 FT	27.000 LB	BLACK		2 #22 PVC SH PVC
8441 010U500	500 FT	14.000 LB	BLACK		2 #22 PVC SH PVC
8441 010100	100 FT	3.300 LB	BLACK		2 #22 PVC SH PVC
8441 0101000	1,000 FT	27.000 LB	BLACK	С	2 #22 PVC SH PVC
8441 010500	500 FT	14.000 LB	BLACK	С	2 #22 PVC SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 07-03-2008

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