

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

For more Information  
please call

1-800-Belden1



### General Description:

Overall braid, 22 AWG stranded (7x30) TC conductors, PVC insulation, twisted pair, polyester tape + TC braid shield (85% coverage), stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	22	7x30	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.381

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	85.000

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	19x34	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.635

#### Overall Cable

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 4.928 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2095)

Bulk Cable Weight: 37.205 Kg/Km

Max. Recommended Pulling Tension: 217.962 N

Min. Bend Radius/Minor Axis: 50.800 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

METRIC MEASUREMENT VERSION

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

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2095 (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):	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
CSA Flame Test:	FT4

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

45

### Nom. Inductance:

Inductance (µH/m)

0.6562

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

160.769

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

282.166

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

54.1365

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

16.405

### Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2095)

### Max. Recommended Current:

Current

2.9 Amps per conductor @ 25°C

## Put Ups and Colors:

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

## METRIC MEASUREMENT VERSION

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

8441 0101000	1,000 FT	27.000 LB	BLACK	C	BRAID 2 #22 PVC SH PVC
8441 010500	500 FT	14.000 LB	BLACK	C	BRAID 2 #22 PVC SH PVC
8441 0105000	5,000 FT	135.000 LB	BLACK		BRAID 2 #22 PVC SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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