

## 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	Conductor Material
1	22	7x30	TC - Tinned Copper

#### Insulation

##### Insulation Material:

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

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	86

##### 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 (in.)
PVC - Polyvinyl Chloride	.025

#### Overall Cable

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 0.194 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red

##### 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.

### 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
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### 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:

## 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	C	2 #22 PVC SH PVC
8441 010500	500 FT	14.000 LB	BLACK	C	2 #22 PVC SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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