

## 8434 Multi-Conductor - Special Audio, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### Description:

25 AWG stranded (7x33) tinned copper/tinned copper covered steel conductors, polyethylene insulation, overall Beldfoil® shield (100% coverage), 25 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
2	25	7x33	3 strands tinned copper + 4 strands tinned copper covered steel

Total Number of Conductors: 4

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)	Dia. (mm)
PE - Polyethylene	0.3302	1.1938

#### Inner Shield

##### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold (foil side out)	100.000

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape (foil side in)	100.000

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
25	7 x 33 awg	3 strands tinned copper + 4 strands tinned copper covered steel

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.508

#### Overall Cable

Overall Nominal Diameter: 4.191 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Shielded: Red & Black
2	Unshielded: Green & White

##### Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)
38.1	26.248

### Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

METRIC MEASUREMENT VERSION

## 8434 Multi-Conductor - Special Audio, Communication and Instrumentation Cable

<b>Bulk Cable Weight:</b>	20.240 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	182.376 N
<b>Min. Bend Radius/Minor Axis:</b>	43.180 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2004
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Plenum/Non-Plenum

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

#### Nom. Inductance:

<b>Inductance (µH/m)</b>
0.6562

#### Nom. Capacitance Conductor to Conductor:

<b>Capacitance (pF/m)</b>
82.025

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

<b>Capacitance (pF/m)</b>
131.24

#### Nom. Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
149.286

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:** 62.011 Ohm/km

#### Max. Operating Voltage - Non-UL:

<b>Voltage</b>
400 V RMS

#### Max. Recommended Current:

<b>Current</b>
1.3 Amps per conductor @ 25°C

### Notes (Overall)

**Notes:** Red and Black pair 100% Beldfoil® shielded (foil side out in contact with drain wire). 3 copper, 4 copper-covered steel strands in each conductor.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8434 060U1000	305 MT	6.350 KG	CHROME		4 #25 PE SH PVC
8434 060100	30 MT	0.907 KG	CHROME		4 #25 PE SH PVC
8434 0601000	305 MT	6.350 KG	CHROME	C	4 #25 PE SH PVC
8434 060500	152 MT	3.175 KG	CHROME		4 #25 PE SH PVC

**Notes:**  
C = CRATE REEL PUT-UP.

## 8434 Multi-Conductor - Special Audio, Communication and Instrumentation Cable

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