

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



For more Information  
please call

1-800-Belden1



### General 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)
PE - Polyethylene	0.381

#### 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

### Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 17.858 Kg/Km

Max. Recommended Pulling Tension: 182.376 N

Min. Bend Radius/Minor Axis: 44.450 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

## METRIC MEASUREMENT VERSION

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

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

#### Plenum/Non-Plenum

Plenum (Y/N): No

#### Electrical Characteristics (Overall)

##### Nom. Inductance:

Inductance (µH/m)  
0.6562

##### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)  
82.025

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

Capacitance (pF/m)  
131.24

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
149.286

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

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

Voltage  
400 V RMS

##### Max. Recommended Current:

Current  
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	1,000 FT	14.000 LB	CHROME		4 #25 PE SH PVC
8434 060100	100 FT	2.000 LB	CHROME		4 #25 PE SH PVC
8434 0601000	1,000 FT	14.000 LB	CHROME	C	4 #25 PE SH PVC
8434 060500	500 FT	7.000 LB	CHROME		4 #25 PE SH PVC

##### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 11-13-2012

© 2015 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.