Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



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



For more Information please call

1-800-Belden1



Description:

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

-20°C To +80°C

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
2	25	7x33	TC - Tinned Copper

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	100

Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Trade Name		Type	Outer Shield Material	Coverage (%)
	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Jacket

Outer Jacket Material:

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

Overall Cabling

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:

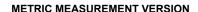
Lay Length (mm)	Twists/ft. (twist/m)
38.09985	26.248

Mechanical Characteristics (Overall)

Operating Temperature Range:

Page 1 of 3 05-10-2011

Detailed Specifications & Technical Data





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

Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	20.240 Kg/Km
Max. Recommended Pulling Tension:	182.376 N
Min. Bend Radius (Install)/Minor Axis:	43.180 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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):	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
MII Order #39 (China RoHS):	Yes
enum/Non-Plenum	

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 62.011 Ohm/km Deg. C:

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 with drain wire. 3 copper, 4 copper-covered steel strands in each conductor.

Related Documents:

No related documents are available for this product

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

Page 2 of 3 05-10-2011

Detailed Specifications & Technical Data





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

8434 0601000	305 MT	5.443 KG	CHROME	С	4 #25 PE SH PVC
8434 060500	152 MT	3.175 KG	CHROME		4 #25 PE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-18-2008

© 2011 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.

Page 3 of 3 05-10-2011