

8643 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information
please call

1-800-Belden1



General Description:

30 AWG stranded (7x38) tinned copper conductors, conductors cabled around textile strength member, polypropylene insulation, paper separator, tinned copper braid shield (95% shield coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
3	30	7x38	TC - Tinned Copper	0.3048

Total Number of Conductors: 3

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.152

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.3556

Overall Cable

Overall Cabling Fillers: Textile Strength Member

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	White

Overall Cabling Separator Material: Paper Tape

Overall Nominal Diameter: 2.438 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +105°C

Non-UL Temperature Rating: 105°C

Bulk Cable Weight: 11.906 Kg/Km

Max. Recommended Pulling Tension: 100.085 N

Min. Bend Radius/Minor Axis: 25.400 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

METRIC MEASUREMENT VERSION

8643 Multi-Conductor - Audio, Control and Instrumentation Cable

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):	10/01/2005
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

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
82.025

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
141.083

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
323.178

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
36.4191

Max. Operating Voltage - Non-UL:

Voltage
200 V RMS

Max. Recommended Current:

Current
0.9 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8643 060100	100 FT	1.100 LB	CHROME		BRAID 3 #30 PP BRD PVC
8643 060250	250 FT	2.750 LB	CHROME		BRAID 3 #30 PP BRD PVC

Revision Number: 2 Revision Date: 09-26-2012

© 2019 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 2014/35/EU).

8643 Multi-Conductor - Audio, Control and Instrumentation Cable