

## 83552 Multi-Conductor - Audio, Control and Instrumentation Cable, 2 Conductors Cabled



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG stranded (7x30) TC conductors, conductors cabled, plenum, FEP insulated, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	22	7x30	TC - Tinned Copper

Total Number of Conductors: 2

**Insulation**

Insulation Material:

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.178

**Outer Shield**

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.3556

**Overall Cable**

Overall Cabling Lay Length & Direction:

Length (mm)
38.09985

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White

Overall Nominal Diameter: 3.581 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 23.811 Kg/Km

Max. Recommended Pulling Tension: 84.516 N

Min. Bend Radius/Minor Axis: 38.100 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

## 83552 Multi-Conductor - Audio, Control and Instrumentation Cable, 2 Conductors Cabld

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
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
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:	NFPA 262
CSA Flame Test:	FT6

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
114.835

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

Capacitance (pF/m)
206.703

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
47.5745

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
24.6075

## Max. Operating Voltage - UL:

Voltage
300 V RMS

## Max. Recommended Current:

Current
2.75 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** Plenum Cables, except for Flamarrest® jacket, are suitable for Outdoor and Direct Burial application.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83552 0021000	305 MT	8.165 KG	RED	C	2#22 FEP SH FEP
83552 002500	152 MT	4.536 KG	RED	C	2#22 FEP SH FEP

## Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 08-21-2012

© 2013 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications

## **83552 Multi-Conductor - Audio, Control and Instrumentation Cable, 2 Conductors Cabld**

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.