

Part Number: 8451

Audio & Instrumentation, 1 Pair 22 AWG, TC, O/A Foil, CM



Product Description

1 Pair 22 AWG stranded (7x30) TC conductors, polypropylene insulation, paper wrap, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

Technical Specifications

Product Overview

Product Overview		
Environmental Space:	Indoor - Riser	
Physical Characteristics (Overall)		
Conductor		
AWG Stranding Material No. of Pairs		
22 7x30 TC - Tinned Copper 1		
Conductor Count:	2	
Total Number of Pairs:	1	
Conductor Size:	22 AWG	
Insulation		
Material Nominal Wall Thickness		
PP - Polypropylene 0.008 in		

Color Chart

Number	Color
1	Black & Red

Outer Shield Material

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum/Polyester	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	22	7x30 mm

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.138 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
14.5 Ohm/1000ft	14.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
34 pF/ft	67 pF/ft
Shielding:	Foil(s) or Copper Tape(s)

Inductance

Nominal Inductance

Impedance

Nominal Characteristic Impedance
45 Ohm

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.5 ns/ft	66 %

Current

Max. Recommended Current [A]
2.9 Amps per conductor @ 25°C

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

Operating remp realige.	Operating Temp Range:	-20°C To +75°C
-------------------------	-----------------------	----------------

Mechanical Characteristics

Bulk Cable Weight:	15 lbs/1000ft
Max Recommended Pulling Tension:	27 lbs
Min Bend Radius/Minor Axis:	1.5 in

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Illuool.	103

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft	
CSA Flammability:	FT4	
UL voltage rating:	300 V RMS	

Plenum/Non-Plenum

Plenu	ım (Y/N):	No

Part Number

Variants

Item #	Color	Footnote
8451 010100	Black	
8451 0101000	Black	С
8451 01010000	Black	
8451 01015000	Black	

8451 010500	Black	
8451 0105000	Black	
8451 010U1000	Black	
8451 010U500	Black	
8451.01305	Black	
8451 0081000	Gray	С
8451 008500	Gray	
8451 008U1000	Gray	
8451 008U500	Gray	

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2018 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.