

Product: [8441](#) 



Audio, Control and Instrumentation, 1 Pair 22 AWG Stranded, Shielded, CMG

Product Description

Overall braid, 1 Pair 22 AWG stranded (7x30) TC conductors, PVC insulation, twisted pair, polyester tape, TC braid shield (85% coverage), stranded TC drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Audio, Control and Instrumentation Cable
------------------------	------------------------------------------

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.015 in

Color Chart

Number	Color
1	Black & Red

Outer Shield Material

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Braid	TC - Tinned Copper	85 %	TC - Tinned Copper	22	19x34

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
PVC - Polyvinyl Chloride	0.194 in	0.025 in	Polyester Tape

Construction and Dimensions

Cabling

Filler
Polyester Tape

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
16.5 Ohm/1000ft	5 Ohm/1000ft

Capacitance

--	--

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
49 pF/ft	86 pF/ft

Inductance

Nominal Inductance
0.2 µH/ft

Impedance

Nominal Characteristic Impedance
45 Ohm

Current

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

Voltage

UL Voltage Rating
300 V RMS (UL AWM Style 2095)

Temperature Range

UL Temp Rating:	80°C (UL AWM Style 2095)
Operating Temp Range:	-20°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	25 lbs/1000ft
Max Recommended Pulling Tension:	49 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
UL AWM Style:	UL Style 2095 (300 V 80°C)
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
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):	2005-04-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
-----------------------	-----

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS (UL AWM Style 2095)

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
8441 010100	Black	Reel	100 ft	612825207184
8441 0101000	Black	Reel	1,000 ft	612825207191
8441 010500	Black	Reel	500 ft	612825207207
8441 0105000	Black	Reel	5,000 ft	612825207153
8441 010U1000	Black	UnReel	1,000 ft	612825207160
8441 010U500	Black	UnReel	500 ft	612825207610

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

Product Notes

Notes:	Overall Cabling Separator Material: Polyester Tape
--------	----------------------------------------------------

History

Update and Revision:	Revision Number: 0.253 Revision Date: 04-08-2020
----------------------	--------------------------------------------------

© 2020 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.