



**Product:** [8410](#)

Microphone Cable, 1 Conductor 25 AWG, TC

Product Description

25 AWG stranded (7x33) composite copper conductor, EPDM rubber insulation, rayon braid + TC braid shield (80% coverage), cotton serve, cotton serve, EPDM rubber jacket.

Technical Specifications

Product Overview

Suitable Applications:	Microphone, Musical Instrument
------------------------	--------------------------------

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	Stranded	TC+TCCS - Tinned Copper (High Conductivity) + Tinned Copper Covered Steel (High Conductivity)	0.021 in	1
Conductor Count:		1		

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
EPDM - Ethylene Propylene Diene Monomer	0.154 in	0.058 in

Outer Shield		
Type	Material	Coverage [%]
Braid	Rayon®	80%
Braid	Tinned Copper (TC)	80%

Outer Jacket			
Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
EPDM - Ethylene Propylene Diene Monomer	0.245 in	0.024 in	Cotton Serve

Electrical Characteristics

Conductor DCR			
Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
45.1 Ohm/1000ft	45.1 Ohm/1000ft	5.8 Ohm/1000ft	5.8 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Shield	
33 pF/ft	

Impedance	
Nominal Characteristic Impedance	
52 Ohm	

Current	
Max. Recommended Current [A]	
1.9 Amps per Conductor at 25°C	

Voltage

Non-UL Voltage Rating
3000 V DC

Temperature Range

Non-UL Temp Rating:	60°C
Operating Temperature Range:	-30°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	37 lbs/1000ft
Max. Pull Tension:	60 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MIL Order #39 (China RoHS):	Yes

Suitability

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

Plenum/Non-Plenum

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

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
8410 010500	Black	Reel	500 ft	612825206309

History

Update and Revision:	Revision Number: 0.364 Revision Date: 01-10-2024
----------------------	--

© 2024 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.