



Product: [8413](#)

Microphone Cable, 2 Conductor 24 AWG, TC

Product Description

24 AWG stranded (45x40) TC alloy conductors, EPDM rubber insulation, conductive textile wrap (100% coverage), TC braid shield (60% coverage), cotton spiral, EPDM jacket.

Technical Specifications

Product Overview

Suitable Applications:	Ruggedized, deployable microphone for studio or live performance; Balanced analog audio
------------------------	---

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Conductors
24	45x40	TCA - Tinned Copper Alloy	0.024 in	2
Conductor Count:			2	

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
EPDM - Ethylene Propylene Diene Monomer	0.065 in	0.016 in

Color Chart	
Number	Color
1	White
2	Black

Outer Shield		
Type	Material	Coverage [%]
Tape	Textile (Conductive)	100%
Braid	Tinned Copper (TC)	60%

Outer Jacket			
Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
EPDM - Ethylene Propylene Diene Monomer	0.199 in	0.017 in	Cotton Serve

Electrical Characteristics

Conductor DCR		
Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance
28.7 Ohm/1000ft	28.7 Ohm/1000ft	
		Nominal Outer Shield DCR
		11.38 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
30 pF/ft	55 pF/ft

Inductance	
Nominal Inductance	
0.19 µH/ft	

Impedance

Nominal Characteristic Impedance
55 Ohm

Current

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

Voltage

Non-UL Voltage Rating
300 V RMS

Temperature Range

Non-UL Temp Rating:	90°C
Operating Temperature Range:	-40°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	25 lbs/1000ft
Max. Pull Tension:	48 lbs
Min. Bend Radius/Minor Axis:	2 in

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2011/65/EU (RoHS 2):	No
EU Directive 2015/863/EU (RoHS 2 amendment):	No
EU Directive Compliance:	No
EU CE Mark:	No

Suitability

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

Plenum/Non-Plenum

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

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
8413 010100	Black	Reel	100 ft	612825206422
8413 010500	Black	Reel	500 ft	612825206408
8413 010U500	Black	UnReel	500 ft	612825206439

History

Update and Revision:	Revision Number: 0.386 Revision Date: 02-15-2024
----------------------	--

© 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[8413 010U500](#) [8413 010500](#) [8413 010100](#)