



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
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#### 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
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##### 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	Nominal Outer Shield DCR
28.7 Ohm/1000ft	28.7 Ohm/1000ft		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 $\mu$ H/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
Maximum Recommended Pulling Tension:	48 lbs
Minimum Minor Axis Bend Radius:	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
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## 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: 0.387 Revision Date: 02-03-2025
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