



Product: [8402](#)

Microphone Cable, 2 Conductor 20 AWG, TC



### Product Description

20 AWG stranded (26x34) high-conductivity TC conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, CSPE - Chlorosulphonated Polyethylene 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
20	26x34	TC - Tinned Copper (High Conductivity)	0.083 in	2

Conductor Count:	2
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##### Insulation

Material	Nominal Diameter
EPDM - Ethylene Propylene Diene Monomer	0.083 in

##### Color Chart

Number	Color
1	White
2	Black

##### Outer Shield

Type	Material	Coverage [%]
Braid	Rayon®	85%
Braid	Tinned Copper (TC)	85%

##### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
CSPE - Chlorosulphonated Polyethylene	0.263 in	0.035 in	Cotton Serve

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR
10.2 Ohm/1000ft	10.2 Ohm/1000ft		3 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
0.18 µH/ft

## Impedance

<b>Nominal Characteristic Impedance</b>
52 Ohm

## Current

<b>Max. Recommended Current [A]</b>
4 Amps per Conductor at 25°C

## Voltage

<b>Non-UL Voltage Rating</b>
600 V RMS

## Temperature Range

Non-UL Temp Rating:	60°C
Operating Temperature Range:	-20°C To +60°C

## Mechanical Characteristics

Bulk Cable Weight:	50 lbs/1000ft
Maximum Recommended Pulling Tension:	98 lbs
Minimum Minor Axis Bend Radius:	2.63 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
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Flammability, LSOH, Toxicity Testing

UL Flammability:	VW-1
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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
8402 001500	Brown	Reel	500 ft	612825206101
8402 001U1000	Brown	UnReel	1,000 ft	612825206149

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

Update and Revision:	Revision Number: 0.378 Revision Date: 02-03-2025
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