

**Product: 8402** ☑





# **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

# **Physical Characteristics (Overall)**

### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
20	26x34	TC - Tinned Copper (High Conductivity)	0.083 in	2
Conduc	ctor Count	2		

### 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

### Impedance

**Nominal Characteristic Impedance** 52 Ohm

#### Current

Max. Recommended Current [A]

4 Amps per Conductor at 25°C

### Voltage

Non-UL Voltage Rating 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
Max. Pull Tension:	98 lbs
Min. Bend Radius/Minor Axis:	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	

## Flammability, LS0H, Toxicity Testing

UL Flammability: VW-1

### Plenum/Non-Plenum

Plenum (Y/N): No

### **Related Part Numbers**

### Variants

Item #	Color	Put-Up Type	Length	UPC
8402 001500	Brown	Reel	500 ft	612825206101
8402 001U100	Brown	UnReel	1,000 ft	612825206149
Footnote:				C - CRATE REI

# **History**

Update and Revision:	Revision Number: 0.377 Revision Date: 02-15-2024

# © 2024 Belden, Inc

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.