BELDEN

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

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		

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

Nominal Characteristic Impedance
52 Ohm

Current

Max. Recommended Current [A]
4 Amps per Conductor at 25ºC

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 001U1000	Brown	UnReel	1,000 ft	612825206149

Footnote:	C - CRATE REEL PUT-UP.

History

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