

Product: [8424](#) 

Microphone Cable, 4 Conductor 20 AWG, TC



Product Description

Microphone 4 Conductor 20 AWG stranded (26x34) high-conductivity tinned copper conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, EPDM rubber jacket.

Technical Specifications

Product Overview

Suitable Applications:	Low-Impedance Audio/Microphone Cable
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors
Conductor(s)	20	26x34	High Conductivity Tinned Copper	0.037 in	4

Conductor Count:	4
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	EPDM - Ethylene Propylene Diene Monomer	0.083 in	0.023 in

Color Chart

Number	Color
1	Black
2	White
3	Red
4	Green

Outer Shield Material

Type	Material	Coverage [%]
Braid	Rayon	
Braid	TC - Tinned Copper	85 %

Outer Jacket Material

Material	Nominal Diameter	Separator Material
EPDM - Ethylene Propylene Diene Monomer	0.294 in	Cotton Serve

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
10.2 Ohm/1000ft	3.2 Ohm/1000ft

Capacitance

Nom. Capacitance Between Conductors in Quad	Nom. Capacitance Conductor to Conductor
59 pF/ft	47 pF/ft

Inductance

Nominal Inductance
0.18 µH/ft

Impedance

Nominal Characteristic Impedance
52 Ohm

Delay

Nominal Velocity of Propagation (VP) [%]
52 %

Current

Max. Recommended Current [A]
3.2 Amps per conductor @ 25°C

Voltage

UL Voltage Rating
600 V RMS

Electrical Characteristics Notes:	2/c 17AWG equivalent DCR when connected to a 3-pin XLR
Other Electrical Characteristic 2:	59 pF/ft - Nom. Cap. Between Cond. In a Quad Config.

Temperature Range

Non-UL Temp Rating:	60°C
Operating Temp Range:	-50°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	61 lbs/1000ft
Max Recommended Pulling Tension:	87 lbs
Min Bend Radius/Minor Axis:	3 in

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL voltage rating:	600 V RMS
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
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8424 010100	Black	Reel	100 ft	612825206606
8424 010250	Black	Reel	250 ft	612825206620
8424 010500	Black	Reel	500 ft	612825206583
8424 010U500	Black	UnReel	500 ft	612825206804
8424 0101000	Black	Reel	1,000 ft	612825206613

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Overall Cabling Separator Material: Rayon Braid. Outer Shield Separator Material: Cotton Wrap. Quad connection scheme: The black and red wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the white and green wires (or remaining wires) are connected together to form the second conductor. Outer Shield Separator Material: Cotton Wrap
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History

Update and Revision:	Revision Number: 0.302 Revision Date: 05-11-2020
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