


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

Environmental Space:	Indoor (Not Riser or Plenum)
Suitable Applications:	Low-Impedance Audio/Microphone Cable

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
20	26x34	High Conductivity TC - Tinned Copper	0.037 in	4

Conductor Count:	4
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
EPDM - Ethylene Propylene Diene Monomer Rubber	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	TC - Tinned Copper	85 %

Outer Shield Table Note:	Cotton Wrap
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Outer Jacket Material

Material	Nominal Diameter	Separator Material
EPDM - Ethylene Propylene Diene Monomer Rubber	0.294 in	Rayon Braid

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

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

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Suitability

Suitability - Indoor: Yes

Flammability, LSOH, Toxicity Testing

UL voltage rating: 600 V RMS

Plenum/Non-Plenum

Plenum (Y/N): No

Part Number

Variants

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

Footnote: C - CRATE REEL PUT-UP.

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

History

Update and Revision: Revision Number: 0.290 Revision Date: 08-22-2019

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