Product: 8410

Microphone Cable, 1 Conductor 25 AWG, TC

Product Description

25 AWG stranded (7x33) composite copper conductor, EPDM rubber insulation, rayon braid + TC braid shield (80% coverage), cotton serve, cotton serve, EPDM rubber jacket.

Technical Specifications

Product Overview

Suitable Applications:	Microphone, Musical Instrument

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	Stranded	TC+TCCS - Tinned Copper (High Conductivity) + Tinned Copper Covered Steel (High Conductivity)	0.021 in	1

Conductor Count:	1

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
EPDM - Ethylene Propylene Diene Monomer	0.154 in	0.058 in

Outer Shield

Type	Material	Coverage [%]
Braid	Rayon®	80%
Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
EPDM - Ethylene Propylene Diene Monomer	0.245 in	0.024 in	Cotton Serve

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
45.1 Ohm/1000ft	45.1 Ohm/1000ft	5.8 Ohm/1000ft	5.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
33 pF/ft

Impedance

Nominal Characteristic Impedance
52 Ohm

Current

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

Voltage

Non-UL Voltage Rating
3000 V DC

Temperature Range

Non-UL Temp Rating:	60°C
Operating Temperature Range:	-30°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	37 lbs/1000ft
Max. Pull Tension:	60 lbs
Min. Bend Radius/Minor Axis:	2.5 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

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
8410 010500	Black	Reel	500 ft	612825206309

History

Update and Revision:	Revision Number: 0.364 Revision Date: 01-10-2024

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