



**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

### 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 25°C

#### 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
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

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

## History

Update and Revision:	Revision Number: 0.363 Revision Date: 12-20-2022
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