

**Product:** [8700](#) 

Special Audio, #28 TC coax, BC Braid, PVC Jacket, CMH



### Product Description

Miniature, 28 AWG solid .013" tinned copper conductor, polypropylene insulation, bare copper braid shield (90% coverage), PVC jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
28	Solid	TC - Tinned Copper	0.013 in	1

Conductor Count:

##### Insulation

Material	Nominal Diameter
PP - Polypropylene	0.023 in

##### Outer Shield

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	92%

##### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.054 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
66.9 Ohm/1000ft	66.9 Ohm/1000ft	28.7 Ohm/1000ft	28.7 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
55.2 pF/ft

##### Inductance

Nominal Inductance
0.049 $\mu$ H/ft

##### Impedance

Nominal Characteristic Impedance
32 Ohm

##### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	2.5 dB/100ft
10 MHz	7.7 dB/100ft

50 MHz	17.2 dB/100ft
100 MHz	24.5 dB/100ft
200 MHz	34.8 dB/100ft
400 MHz	50 dB/100ft
700 MHz	66 dB/100ft
900 MHz	75 dB/100ft
1000 MHz	79 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66%

#### Voltage

UL Voltage Rating
300 V RMS

#### Temperature Range

Non-UL Temp Rating:	105°C
Operating Temp Range:	-30°C To +105°C

#### Mechanical Characteristics

Bulk Cable Weight:	3 lbs/1000ft
Max. Pull Tension:	7 lbs
Min. Bend Radius/Minor Axis:	0.5 in

#### Standards

NEC/(UL) Compliance:	CMH
CEC/C(UL) Compliance:	CMH
CPR Euroclass:	Eca

#### 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:	No
MII Order #39 (China RoHS):	Yes

#### Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
CSA Flammability:	FT1
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Part Number

#### Variants

Item #	Color	Put-Up Type	Length	UPC
8700 010250	Black	Reel	250 ft	612825214397

#### History

Update and Revision:	Revision Number: 0.319 Revision Date: 12-15-2021
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