

**Product:** [8417](#) 

Audio & Instrumentation, 1 Conductor 25 AWG, TC, O/A Foil, CM



**Product Description**

25 AWG stranded (7x33) Tinned Copper/Tinned Copper Covered Steel conductor, FPE insulation, double Beldfoil® shield (100% coverage), 26 AWG stranded TC drain wire, PVC jacket.

**Technical Specifications**

**Product Overview**

Suitable Applications:	Audio Connecting Cable
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**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	7x33	TC+TCCS - Tinned Copper (High Conductivity) + Tinned Copper Covered Steel (High Conductivity)	0.021 in	1

Conductor Count:	1
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**Insulation**

Material	Nominal Diameter	Nominal Wall Thickness
PE - Polyethylene (Foam)	0.061 in	0.02 in

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	26	7x34
Tape	2	Bi-Laminate (Alum+Poly)	Beldfoil®	100%			

Table Notes:	Paper Tape
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**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.14 in	0.026 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
45.5 Ohm/1000ft	20.2 Ohm/1000ft	20.2 Ohm/1000ft

**Capacitance**

<b>Nom. Capacitance Conductor to Shield</b>
29 pF/ft

**Impedance**

<b>Nominal Characteristic Impedance</b>
48 Ohm

**Current**

<b>Max. Recommended Current [A]</b>
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1.5 Amps per Conductor at 25°C

## Voltage

### Non-UL Voltage Rating

100 V RMS

## Temperature Range

Non-UL Temp Rating:	80°C
Operating Temp Range:	-20°C To +80°C

## Mechanical Characteristics

Bulk Cable Weight:	9 lbs/1000ft
Max. Pull Tension:	9.5 lbs
Min Bend Radius (Overall):	1.5 in
Min Bend Radius/Minor Axis:	1.5 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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## Plenum/Non-Plenum

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

### Variants

Item #	Color	Putup Type	Length	UPC
8417 060250	Gray	Reel	250 ft	612825206484

## Product Notes

Notes:	Outer Shield Separator Material: Paper Tape
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## History

Update and Revision:	Revision Number: 0.271 Revision Date: 02-16-2021
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