

**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

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	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

Nom. Capacitance Conductor to Shield
29 pF/ft

#### Impedance

Nominal Characteristic Impedance
48 Ohm

#### Current

Max. Recommended Current [A]

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 Temperature 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

## Standards

CPR Euroclass:	Eca
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## 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 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
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: 0.389 Revision Date: 12-19-2022
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