



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		

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			

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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