



Product: <u>9L28009</u> ☑

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, #28-9c, PVC Ins

Product Description

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, 9 Conductor, 28 AWG (7x36) Tinned Copper, PVC Insulation

Technical Specifications

Product Overview

Suitable Applications:	Internal interconnection, internal wiring of electronic equipment, reliable mass-termination to standard IDC connectors
Physical Characteristics (Overa	11)
Conductor	
AWG Stranding Material	
28 7x36 TC - Tinned Copper	
Conductor Count:	9
nsulation	
Material Nominal Wall Th	ickness
PVC - Polyvinyl Chloride 0.010 in	
Color Chart	
Color	
Color	
Grav	
Gray	
	First Conductor has Red Stripe
	First Conductor has Red Stripe
Table Notes:	First Conductor has Red Stripe .050 +/002 in
Table Notes:	
Table Notes: Construction and Dimensions Cond Spacing Center-Center:	.050 +/002 in

Electrical Characteristics

Conductor DCR

Nominal Conduct	or DCR
68.2 Ohm/1000ft	

Capacitance

Element	Nom. Capacitance Conductor to Conductor
@ 1 kHz (GSG)	18 pF/ft
@ 1 MHz (GS)	10 pF/ft
@ 1 MHz (GSG)	15 pF/ft

Inductance

Element	Nominal Inductance
@ 1 MHz (GS)	0.29 µH/ft
@ 1 MHz (GSG)	0.2 µH/ft

Impedance

Nominal Balanced Characteristic Impedance Description	Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
(GS)	150 Ohm	(GS)
(GSG)	105 Ohm	(GSG)

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	2.8 dB/100ft
20 MHz	4.8 dB/100ft
30 MHz	6.5 dB/100ft
40 MHz	8.3 dB/100ft
50 MHz	9.8 dB/100ft
60 MHz	12 dB/100ft
70 MHz	13 dB/100ft
80 MHz	14 dB/100ft
90 MHz	15.8 dB/100ft
100 MHz	17 dB/100ft
Table Notes:	

Delay

Nominal Delay

1.40 ns/ft

Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time (ns)
10 ft. sample length	4.8	7	3 ns
10 ft. sample length	3.5	4.7	5 ns
10 ft. sample length	3	3	7 ns

Current

Max. Recommended Current [A]

1 Amp per Conductor at 20°C

Voltage

Dielectric Withstand Voltage	UL Voltage Rating
2000 V	300 V

Temperature Range

Operating Temp Range:	-40°C to +105°C
Mechanical Characteristics	

Bulk Cable Weight:	10 lbs/1000ft
Min Bend Radius/Minor Axis:	2.5 in

Standards

UL AWM Style Compliance:	2651
CSA AWM Compliance:	IA

Applicable Environmental and Other Programs

EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-07-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:

Flammability, LS0H, Toxicity Testing

Yes

UL Flammability:	VW-1
CSA Flammability:	FT1
UL voltage rating:	300 V

Plenum/Non-Plenum

Plenum (Y/N):

Part Number

Va	ria	nts

ltem #	Color	Length	UPC
9L28009 008H100	Gray	100 ft	612825221579
9L28009 008H300	Gray	300 ft	612825221586

History

Update and Revision: Revision Number: 0.241 Revision Date: 08-07-2020

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