



# 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	lickness	
PVC - Polyvinyl Chloride 0.010 in		
Color Chart		
Color		
Gray		
Table Notes:	First Conductor has Red Stripe	
Construction and Dimensions		
Conductor Spacing Center-Center:	.050 +/002 in	
Conductor Spacing Center-Center Outside:	.400 +/006 in	
OuterJacket1, Nominal Width:	.450 +/006 in	
OuterJacket1, Nom Thick Flat Section:	0.035 in	

#### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR

68.2 Ohm/1000ft

### Capacitance

Element	Nom. Capacitance Cond	ductor to Conductor
@ 1 kHz (GSG)	18 pF/ft	
@ 1 MHz (GS)	10 pF/ft	
@ 1 MHz (GSG)	15 pF/ft	
Min Insulation Re	sistance:	10,000 MOhm

#### Inductance

Element	Nominal Inductance
@ 1 MHz (GS)	0.29 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
 Nominal Velocity of Propagation (VP) [%]

 1.40 ns/ft
 72%

#### 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 Temperature 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:	AWM 2651
CSA AWM Compliance:	IA

### **Applicable Environmental and Other Programs**

300 V

EU Directive Compliance:	Yes
EU CE Mark:	Yes
CA Prop 65 (CJ for Wire and Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Suitability

UL voltage rating:

Suitability - Indoor:	Yes	
Flammability, LS0H, Toxicity Testing		
UL Flammability:	VW-1	

#### Plenum/Non-Plenum

Plenum (Y/N):

#### **Related Part Numbers**

#### Variants

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

#### **History**

Update and Revision: Revision Number: 0.328 Revision Date: 05-05-2023

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