



**Product:** <u>9L28050</u> ☑

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, #28-50c, PVC Ins

# **Product Description**

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, 50 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

### **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	50	28 AWG	7x36	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Conductor(s) PVC - Polyvinyl Chloride 0.010		0.010 in (0.25 mm)	0.035 in (0.89 mm)	Gray	A Red Stripe over the first conductor
Conductor Spacing Center-Center:		.050 +/0	02 in		
Conductor Spacing Center-Center Outside: 2.450		de: 2.450 +/	011 in		

# **Electrical Characteristics**

# Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Delay	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
68.2 Ohm/1000ft	18 pF/ft (59 pF/m)	150 Ohm	1.4 ns/ft (4.6 ns/m)	0.29 μH/ft (0.95 μH/m)	72%	1 Amp per Conductor at 20°C
	10 pF/ft (33 pF/m)	105 Ohm		0.2 μH/ft (0.66 μH/m)		
	15 pF/ft (49 pF/m)					

#### **Unbalanced Crosstalk**

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time
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

# High Frequency (Nominal/Typical)

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

100 17 dB/100ft

Table Notes: GS=Ground-Signal Mode; GSG=Ground-Signal-Ground Mode

### Voltage

UL Voltage Rating

#### **Mechanical Characteristics**

#### Temperature

UL Temperature	Operating	
105°C	-40°C to +105°C	

#### **Bend Radius**

Installation Min. 0.5 in (13 mm)

Bulk Cable Weight: 65 lbs/1000ft

## **Standards and Compliance**

Environmental Suitability:	Indoor
Flammability / Reaction to Fire: VW-1	
AWM Compliance:	AWM 2651, AWM 1/11, A
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance: China RoHS II (GB/T 26572-2011)	

#### History

Update and Revision:	Revision Number: 0.499 Revision Date: 01-20-2023

### **Part Numbers**

#### Variants

Item #	Color	Length	UPC
9L28050 008H100	Gray	100 ft	612825221708

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