



Product: <u>9L28025</u> ☑

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, #28-25c, PVC Ins

Product Description

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, 25 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 connecto
Physical Characteristics (Overall)	
Conductor	
AWG Stranding Material	
28 7x36 TC - Tinned Copper	
Conductor Count:	25
nsulation	
Material Nominal Wall Thick	ness
PVC - Polyvinyl Chloride 0.010 in	
PVC - Polyvinyl Chloride 0.010 in Color Chart	
Material Nominal Wall Thick PVC - Polyvinyl Chloride 0.010 in Color Chart	First Conductor has Red Stripe
PVC - Polyvinyl Chloride 0.010 in color Chart Color Gray Table Notes:	
PVC - Polyvinyl Chloride 0.010 in color Chart Color Gray	
PVC - Polyvinyl Chloride 0.010 in color Chart Color Gray Table Notes: Construction and Dimensions Conductor Spacing Center-Center:	First Conductor has Red Stripe
PVC - Polyvinyl Chloride 0.010 in color Chart Gray Table Notes: Construction and Dimensions	First Conductor has Red Stripe

Conductor DCR

Nominal Conductor 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	
Min Insulation Resistance: 10,000 M		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 Nation	

Table Notes:

GS=Ground-Signal Mode; GSG=Ground-Signal-Ground Mode

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	J
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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: 29 lbs/1000ft Min. Bend Radius During Installation: 2.5 in Min. Bend Radius/Minor Axis: 2.5 in

Standards

UL AWM Style Compliance:	AWM 2651
CSA AWM Compliance:	IA

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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:	Yes
EU CE Mark:	Yes
CA Prop 65 (CJ for Wire and Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

VW-1
FT1
300 V

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Length	UPC
9L28025 008H100	Gray	100 ft	612825221661

History

Update and Revision:

Revision Number: 0.347 Revision Date: 04-08-2022

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