



Product: <u>9L28040</u> ☑

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, #28-40c, PVC Ins

Product Description

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, 40 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 connector
Physical Characteristics (Overal	1)
Conductor	
AWG Stranding Material	
28 7x36 TC - Tinned Copper	
Conductor Count:	40
nsulation	
Material Nominal Wall Thic	ckness
PVC - Polyvinyl Chloride 0.010 in	
PVC - Polyvinyl Chloride 0.010 in	
PVC - Polyvinyl Chloride 0.010 in Color Chart Gray Table Notes:	First Conductor has Red Stripe
PVC - Polyvinyl Chloride 0.010 in Color Chart Gray Table Notes:	
PVC - Polyvinyl Chloride 0.010 in color Chart Gray Table Notes: Construction and Dimensions	
PVC - Polyvinyl Chloride 0.010 in Color Chart Gray	First Conductor has Red Stripe
PVC - Polyvinyl Chloride 0.010 in Color Chart Gray Table Notes: Construction and Dimensions Conductor Spacing Center-Center:	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 Re	sistance:	10,000 MOhm

Inductance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
150 Ohm	(GS)
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) [%]

 1.4 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: 52 lbs/1000ft Min. Bend Radius/Minor Axis: 3 in Standards

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

Applicable Environmental and Other Programs

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
CA Prop 65 (CJ for Wire and Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Flammability, LS0H, Toxicity Testing	3
UL Flammability:	VW-1
UL voltage rating:	300 V
Plenum/Non-Plenum	
Plenum (Y/N):	No
Related Part Numbers	No
Related Part Numbers	
Related Part Numbers Variants	
Related Part Numbers Variants Item # Color Length UPC	

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