



Product: <u>9L28010</u> ☑

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, #28-10c, PVC Ins

Product Description

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, 10 Conductor, 28 AWG (7x36) Tinned Copper, PVC Insulation

Technical Specifications

Product Overview

Suitable Applications:			Intern	Internal interconnection, internal wiring of electronic equipment, reliable mass-termination to standard IDC connectors			
Construction Details							
Conductor	Conductor						
Element	No. of Elements	Size	Stranding	Material			
Conductor(s) 10 28 AWG 7x36		7x36	TC - Tinned Copper				
Insulation							
Element	Material		Nom. Thickn	ess Nom. Insulatio	on Diameter	Color Code	Notes
Conductor(s) PVC - Polyvinyl Chloride 0.010 in).010 in (0.25	mm) 0.035 in (0.89 m	nm)	Gray	A Red Stripe over the first conductor	
Conductor Spacing Center-Center: .050 +/-			050 +/002 in				
Conductor Spacing Center-Center Outside:			.450 +	.450 +/008 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	
300 V	

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.	
2.5 in (64 mm)	
Bulk Cable Weight:	12 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: 0.488 Revision Date: 01-20-2023

Part Numbers

Variants

ltem #	Color	Length	UPC
9L28010 008H100	Gray	100 ft	612825221593
9L28010 008H300	Gray	300 ft	612825221609

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