



Product: <u>9L28016</u> ☑

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, #28-16c, PVC Ins

Product Description

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, 16 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 (Overall)

Conductor

Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.010 in

Color Chart



Table Notes: First Conductor has Red Stripe

Construction and Dimensions

Cond Spacing Center-Center:	.050 +/002 in
Cond Spacing Center-Center Outside:	.750 +/008 in
OuterJacket1, Nominal Width:	.800 +/008 in
OuterJacket1, Nom Thick Flat Section:	0.035 in

Electrical Characteristics

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

Inductance

Element	Nominal Inductance
@ 1 MHz (GS)	0.29 µH/ft
@ 1 MHz (GSG)	0.2 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: GSG=Ground-Signal-Ground Mode

Delay

Nominal Delay

1.4 ns/ft

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 Temp Range: -40°C to +105°C

Mechanical Characteristics

Bulk Cable Weight:	19 lbs/1000ft
Min Bend Radius During Installation:	2.7 in

Standards

UL AWM Style Compliance:	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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-07-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor: Yes				
	Suitability - Indoor:	Yes		

Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
CSA Flammability:	FT1
UL voltage rating:	300 V

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Length	UPC
9L28016 008H100	Gray	100 ft	612825221647

History

Update and Revision:	Revision Number: 0.303 Revision Date: 08-07-2020

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