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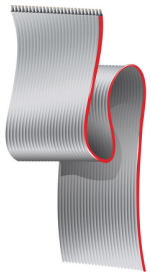

Product: 9L28016

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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	16	28 AWG	7x36	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Conductor(s)	PVC - Polyvinyl Chloride	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 +/- .002 in
Conductor Spacing Center-Center Outside:	.750 +/- .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	0.29 µH/ft (0.95 µH/m)	72%	1 Amp per Conductor at 20ºC
	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

High Frequency Table (Nominal/Typical) Notes:	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.
2.7 in (69 mm)

Bulk Cable Weight:	19 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	VW-1
AWM Compliance:	AWM 2651, AWM 1/11, A
CEC / C(UL) Compliance:	.
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: 0.485 Revision Date: 09-07-2025

Part Numbers

Variants

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

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