



Product: [2L28050](#)

Flat Gray Ribbon Cable 1mm Pitch, 2L280XX Series, #28-50c, PVC Ins

Product Description

Flat Gray Ribbon Cable 1.00mm Pitch, 2L280XX Series, 50 Conductor, 28 AWG (7x36) Tinned Copper, PVC Insulation

Technical Specifications

Product Overview

Suitable Applications:	Internal interconnection, internal wiring of electronic equipment, designed for the disk drive market where the 2.00mm IDC connector is widely used
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	50	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)	0.0354 in (0.899 mm)	Gray	A Black Stripe over the first conductor

Conductor Spacing Center-Center:	.0394 +/- .003 in
Conductor Spacing Center-Center Outside:	1.929 +/- .012 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedance	Nom. Delay	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
68.2 Ohm/1000ft	20 pF/ft (66 pF/m)	130 Ohm	1.47 ns/ft (4.82 ns/m)	0.24 µH/ft (0.79 µH/m)	69%	1 Amp per Conductor at 20°C
	9.5 pF/ft (31 pF/m)	90 Ohm		0.16 µH/ft (0.52 µH/m)		
	16.5 pF/ft (54.1 pF/m)					

Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time
10 ft. sample length	4.3	6.7	3 ns
10 ft. sample length	3.8	3.4	5 ns
10 ft. sample length	3.6	2.5	7 ns

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss (Attenuation)
10	3.3 dB/100ft
20	5.1 dB/100ft
30	7 dB/100ft
40	8.3 dB/100ft
50	9.8 dB/100ft
60	11.6 dB/100ft
70	13.1 dB/100ft
80	14.2 dB/100ft
90	16.4 dB/100ft

100	17.6 dB/100ft
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Table Notes:	GSG=Ground-Signal-Ground
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Voltage

UL Voltage Rating

300 V

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.

1.4 in (36 mm)

Bulk Cable Weight:	56 lbs/1000ft
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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: 0.438 Revision Date: 01-20-2023
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Part Numbers

Variants

Item #	Color	Length	UPC
2L28050 008H100	Gray	100 ft	612825127567

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