



**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	No. of Elements	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 Impedence	Nom. Delay	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
68.2 Ohm/1000ft (224 Ohm/km)	20 pF/ft (66 pF/m)	130 Ohm	1.47 ns/ft	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) [dB/100ft]
10	3.3
20	5.1
30	7
40	8.3
50	9.8
60	11.6
70	13.1
80	14.2
90	16.4
100	17.6

High Frequency Table (Nominal/Typical) 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 (83 kg/km)
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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: 0.582 Revision Date: 01-15-2026
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Part Numbers

Variants

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

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