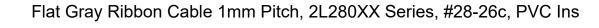


## Product: <u>2L28026</u> ☑



## **Product Description**

Flat Gray Ribbon Cable 1.00mm Pitch, 2L280XX Series, 26 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 use
Physical Characteristics (Overall)	
Conductor	
AWG Stranding Material	
28 7x36 TC - Tinned Copper	
Conductor Count:	26
nsulation	
Material Nominal Wall Thick	ness
PVC - Polyvinyl Chloride 0.010 in	
Color Chart	
Color	
Gray	
Table Notes:	First Conductor has Black Stripe
Construction and Dimensions	
Conductor Spacing Center-Center:	.0394 +/003 in
Conductor Spacing Center-Center Outside:	.984 +/008 in
OuterJacket1, Nominal Width:	1.020 +/008 in

#### **Electrical Characteristics**

Conductor D	CR
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Nominal	Conductor DC

68.2 Ohm/1000ft

#### Capacitance

Element	Nom. Capacitance Conductor	to Conductor
@ 1 kHz (GSG)	20 pF/ft	
@ 1 MHz (GS)	9.5 pF/ft	
@ 1 MHz (GSG)	16.5 pF/ft	
Min Insulation Resistance:		10,000 MOhm

#### Inductance

Element	Nominal Inductance
@ 1 MHz (GS)	0.24 µH/ft

#### Impedance

Nominal Balanced Characteristic Impedance Description	Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
(GS)	130 Ohm	(GS)
(GSG)	90 Ohm	(GSG)

## High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	3.3 dB/100ft
20 MHz	5.1 dB/100ft
30 MHz	7 dB/100ft
40 MHz	8.3 dB/100ft
50 MHz	9.8 dB/100ft
60 MHz	11.6 dB/100ft
70 MHz	13.1 dB/100ft
80 MHz	14.2 dB/100ft
90 MHz	16.4 dB/100ft
100 MHz	17.6 dB/100ft
Table Notes:	

#### Delay

 Nominal Delay
 Nominal Velocity of Propagation (VP) [%]

 1.47 ns/ft
 69%

#### Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time (ns)
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

#### Current

Max. Recommended Current	[A]
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1 Amp per Conductor at 20°C

#### Voltage

Dielectric Withstand Voltage	UL Voltage Rating
2000 V	300 V

## Temperature Range

Operating Te	mperature Range:	-40°C to +105°C

## **Mechanical Characteristics**

Bulk Cable Weight:	30 lbs/1000ft
Min. Bend Radius During Installation:	0.5 in
Min. Bend Radius/Minor Axis:	0.5 in

#### **Standards**

UL AWM Style Compliance:	AWM 2651
CSA AWM Compliance:	IA

## **Applicable Environmental and Other Programs**

EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
CA Prop 65 (CJ for Wire and Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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#### Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	300 V
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum (Y/N): History	No

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