



Product: <u>2L28050</u> ☑

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

Physical Characteristics (Overall)

Material	Nominal Wall Thickness
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:	1.929 +/012 in
OuterJacket1, Nominal Width:	1.964 +/012 in
OuterJacket1, Nom Thick Flat Section:	0.0394 in

Electrical Characteristics

Nominal Conductor DCR

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:	2

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

-40°C to +105°C

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 Rang	e:
---------------------	----

Mechanical Characteristics

Bulk Cable Weight:	57 lbs/1000ft
Min. Bend Radius During Installation:	1.4 in
Min. Bend Radius/Minor Axis:	1.4 in

Standards

UL AWM Style Compliance:	2651
CSA AWM Compliance:	IA

Applicable Environmental and Other Programs

Yes
Yes

Suitability

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
2L28050 008H100	Gray	100 ft	612825127567

History

Update and Revision:

Revision Number: 0.328 Revision Date: 12-15-2021

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Flat Cables category:

Click to view products by Belden manufacturer:

Other Similar products are found below :

 F28-A25G
 F28-A34G
 F28-A36G
 FST-23A-15
 AYT1510-US
 171-37G
 902220736002000
 902220736006000
 28100-0614
 9L28010-008

 H300
 9L28014-008-H300
 F28-A24G
 F28-A60G
 28100-0571
 28100-0602
 28100-0664
 336506-100SF
 336518
 336537-CUT

 LENGTH
 3447/10-100
 362514100MSF
 40WDY00005
 AYT51163
 336506-300
 C374910
 3625/24100M
 3749/10-100
 375630
 3-971111-6

 1-1437356-3
 812504
 5-1437214-8
 3355/15
 40WBY00007
 3609/12
 5111196336
 607.5689.087
 607.5689.091
 3801/04
 8124/04
 3801/12

 3625/22100MSF
 902220736005000
 902220736004000
 C3811/10-100
 3625/22-30M
 3319/10-300
 65-TF268M
 C3365/18-100