




2L28050 Flat - Gray Ribbon 2L280XX Series

			<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
---	---	--	---

Description:

Belden's 1.00mm pitch gray ribbon cable was designed for the disk drive market where the 2.00mm IDC connector is widely used.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Conductors	50
Total Number of Conductors	50
AWG	28
Stranding	7x36
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PVC - Polyvinyl Chloride
Nom. Insulation Wall Thickness	.010 in.
Insulation Resistance	>10, 000 Megaohms

SPACING:

Conductor Spacing Center to Center	.0394 +/- .002 in.
Conductor Spacing Outside Center to Outside Center	1.929 +/- .012 in.

OVERALL:

Overall Nominal Width	1.965 +/- .012 in.
Overall Nominal Thickness	.0354 +/- .0031 in.

OUTER SHIELD:

Outer Shield Material	Unshielded
-----------------------	------------

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +105°C
-----------------------------	-----------------

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

UL AWM Style	2651
UL Rating	105°C, 300 V RMS, VW-1
CSA Specification	AWM I A 105°C 300 V FT1
CSA Rating	105°C, 300 V RMS, FT1

2L28050 Flat - Gray Ribbon 2L280XX Series

EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	07/01/2005

FLAME TEST:

UL Flame Test	VW-1
CSA Flame Test	FT1

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
--------------	---

POLARITY IDENTIFICATION:

Polarity Identification	BLACK POLARITY STRIPE ON #1 CONDUCTOR
-------------------------	---------------------------------------

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance :

Description	Nom. Characteristic Impedance (Ohms)
(GS)	130
(GSG)	90

Nom. Inductance :

Description	Nominal Inductance (μH/ft)
@ 1 MHz (GS)	.24
@ 1 MHz (GSG)	.16

Nom. Capacitance Conductor to Conductor :

Description	Nom. Capacitance Conductor to Conductor (pF/ft)
@ 1 kHz (GSG)	20
@ 1 MHz (GS)	9.5
@ 1 MHz (GSG)	16.5

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
	69

Nominal Delay	1.47 NS/FT. (GSG) ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	68.2 OHMS/1000 FT. MAX. Ohms/1000 ft
Nom. Attenuation :	

2L28050 Flat - Gray Ribbon 2L280XX Series

Description	Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	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

Typical Unbalanced Crosstalk :

Description	Pulse Rise Time (NS)	Near End (%)	Far End (%)	Typical Unbalanced Crosstalk (dB)
10 ft. sample length	3	4.3	6.7	
10 ft. sample length	5	3.8	3.4	
10 ft. sample length	7	3.6	2.5	

Max. Operating Voltage - Non-UL 300 V RMS

Max. Recommended Current 1 Amp per conductor @ 20°C

Dielectric Withstand Voltage 2,000 V RMS

NOTES:

Notes GSG=Ground-Signal-Ground Mode

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
2L28050 008H100	50 #28 STR PVC RIBBON	H100	5.6	GRAY	
2L28050 008R300	50 #28 STR PVC RIBBON	R300	16.8	GRAY	

Revision Number: 1 Revision Date: 05-30-2006

2L28050 Flat - Gray Ribbon 2L280XX Series

© Copyright 2006 Belden, Inc
All Rights Reserved.

Although Belden ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein 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 "AS IS" 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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure 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. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.