



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
------------------------	---

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 Impedance	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 μ H/ft (0.79 μ H/m)	69%	1 Amp per Conductor at 20°C
	9.5 pF/ft (31 pF/m)	90 Ohm		0.16 μ H/ft (0.52 μ H/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

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)

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

Part Numbers**Variants**

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

© 2026 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 "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 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.