

Product: [2L28026](#) 



Flat Gray Ribbon Cable 2L280XX Series, #28-26c, 1mm Pitch, PVC Jkt

Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
28	7x36	TC - Tinned Copper	26

Conductor Count: 26

Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.01 in

Outer Shield Material

Material
No Shield

Outer Jacket Material

Nominal Wall Thickness
.035 in

Construction and Dimensions

Cond Spacing Center-Center:	.039 +/- .003
Cond Spacing Center-Center Outside:	.984 +/- .008
OuterJacket1, Nominal Width:	1.02 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance
68.2 OHMS/1000 FT. MAX. Ohm/1000ft	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

Inductance

Element	Nominal Inductance
@ 1 MHz (GS)	0.24 µH/ft
@ 1 MHz (GSG)	0.16 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

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
69 ns/100m	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 MHz	6.7 MHz	3 ns
10 ft. sample length	3.8 MHz	3.4 MHz	5 ns
10 ft. sample length	3.6 MHz	2.5 MHz	7 ns

High Freq

Frequency [MHz]
10 MHz
20 MHz
30 MHz
40 MHz
50 MHz
60 MHz
70 MHz
80 MHz
90 MHz
100 MHz

Current

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

Voltage

Dielectric Withstand Voltage	UL Voltage Rating
2,000 V RMS	300 V RMS

Temperature Range

Operating Temp Range:	-40°C To +105°C
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Mechanical Characteristics

Bulk Cable Weight:	30 lbs/1000ft
Min Bend Radius (Overall Cable):	1.04
Min Bend Radius/Minor Axis:	0.5 in

Standards

UL Rating:	AWM Style 2651
CSA Rating:	I A

Applicable Environmental and Other Programs

EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-07-01
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	VW-1
CSA Flammability:	FT1
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Length	UPC
2L28026 008H100	Gray	100 ft	612825127550

Product Notes

Notes:	GSG=Ground-Signal-Ground Mode
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History

Update and Revision:	Revision Number: 0.226 Revision Date: 04-28-2020
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