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1-800-Belden1



## 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 (Overall)

### Conductor

#### AWG:

# Conductors	AWG	Stranding	Conductor Material
50	28	7x36	TC - Tinned Copper

Conductor Spacing Center to Center: .0394 +/- .002

Conductor Spacing Outside Center to Outside Center: 1.929 +/- .012

### Insulation

#### Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.010

Insulation Resistance: >10,000 Megaohms

### Outer Shield

#### Outer Shield Material:

Outer Shield Material
Unshielded

### Overall Cable

Overall Nominal Thickness: .0354 +/- .0031

Overall Nominal Width: 1.965 +/- .012

## Mechanical Characteristics (Overall)

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

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	07/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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### Flame Test

UL Flame Test:	VW-1
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CSA Flame Test:	FT1
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Surface Printing (Overall)

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Description	Impedance (Ohm)
(GS)	130
(GSG)	90

### Nom. Inductance:

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

### Nom. Capacitance Conductor to Conductor:

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

### Nominal Velocity of Propagation:

Description	VP (%)
	69

### Nominal Delay:

Delay (ns/ft)
1.47 NS/FT. (GSG)

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
68.2 OHMS/1000 FT. MAX.

### Nom. Attenuation:

Freq. (MHz)	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

### Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

### Max. Recommended Current:

Current
1 Amp per conductor @ 20°C

Dielectric Withstand Voltage:	2, 000 V RMS
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### Typical Unbalanced Crosstalk:

Description	Pulse Rise Time (NS) (MHz)	Near End % (MHz)	Far End % (MHz)
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

## Notes (Overall)

**Notes:** GSG=Ground-Signal-Ground Mode

## Polarity Identification (Overall)

**Polarity Identification:** BLACK POLARITY STRIPE ON #1 CONDUCTOR

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2L28050 008H100	100 FT	6.000 LB	GRAY		50 #28 STR PVC RIBBON

Revision Number: 1    Revision Date: 05-14-2007

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