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General 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
40	28	7x36	TC - Tinned Copper

Total Number of Conductors: 40

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

Conductor Spacing Outside Center to Outside Center: 1.535 +/- .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: 1.571 +/- .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 Directive 2011/65/EU (ROHS II):	Yes
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
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test: VW-1

CSA Flame Test: FT1

Plenum/Non-Plenum

Plenum (Y/N): No

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

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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