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1-800-Belden1



General Description:

Belden's miniaturized .025" pitch gray ribbon cable provides higher signal density and greater design flexibility. The cable is manufactured to precise tolerances which allows for mass-termination to standard IDC connectors.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
50	30	7x38	TC - Tinned Copper

Total Number of Conductors: 50

Conductor Spacing Center to Center: .025 +/- .002

Conductor Spacing Outside Center to Outside Center: 1.225 +/- .009

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.008

Insulation Resistance: > 10,000 Megaohms

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Overall Cable

Overall Nominal Thickness: .122 +/- .002

Overall Nominal Width: 1.25 +/- .007

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 33 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 0.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Rating: UL AWM Style 2678

CSA Specification: AWM I A 105°C 150 V FT1

CSA Rating: 105°C, 150 V, 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

MIL Order #39 (China RoHS): Yes

Flame Test

UL Flame Test: VW-1

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)	105
(GSG)	70

Nom. Inductance:

Description	Inductance (µH/ft)
@ 1 MHz (GS)	.21
@ 1 MHz (GSG)	.14

Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/ft)
@ 1 kHz (GS)	18
@ 1 kHz (GSG)	32
@ 1 MHz (GS)	14
@ 1 MHz (GSG)	24

Nominal Velocity of Propagation:

Description	VP (%)
	66

Nominal Delay:

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

Nom. Conductor DC Resistance:

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

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	5.4
20	9.5
30	14.1
40	18
50	20.1
60	24.9
70	26.5
80	30
90	30.6
100	33

Max. Operating Voltage - UL:

Voltage
150 V RMS

Max. Recommended Current:

Current
0.5 Amps per conductor @ 20°C

Typical Unbalanced Crosstalk:

Description	Pulse Rise Time (NS) (MHz)	Near End % (MHz)	Far End % (MHz)
10 ft. sample length	3	6	7.1
10 ft. sample length	5	5.4	7
10 ft. sample length	7	5	6.6

Notes (Overall)

Notes: GSG=Ground-Signal-Ground Mode

Polarity Identification (Overall)

Polarity Identification: RED POLARITY STRIPE ON #1 CONDUCTOR

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9L30050 008H100	100 FT	3.400 LB	GRAY		50 #30 STR PVC RIBBON

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