

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

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	.0075

Insulation Resistance: > 10,000 Megaohms

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Overall Cabling

Overall Nominal Thickness: .027 +/- .002

Overall Nominal Width: 1.25 +/- .011

Mechanical Characteristics (Overall)

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

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL AWM Style:	2678
UL Rating:	105°C, 150 V, VW-1
CSA Specification:	AWM I A 105°C 150 V FT1
CSA Rating:	105°C, 150 V, 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

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)

Surface Printing: BELDEN-T 30 AWG CSA AWM I A 105°C 150 V FT1 LL7874 (UL LOGO)
AWM STYLE 2678 VW-1 E12683

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

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	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	3.100 LB	GRAY		50 #30 STR PVC RIBBON

Gray Ribbon 9L300XX Series

.025" Pitch, 30 AWG, PVC

Product Description

Belden's miniaturized .025" pitch extruded gray ribbon cable provides higher signal density, greater design flexibility, and an alternative to the expensive Teflon® transmission cables. The cable is manufactured to precise tolerances which allows for mass-termination to standard .050" contact IDC connectors while assuring consistent and reliable electrical characteristics. With the miniaturization of the interconnects, significant reduction in components can be achieved. The cable is constructed of stranded 30 AWG (7x38) tinned copper conductors. Insulation material consists of Gray PVC, with a Red polarity stripe for proper circuit alignment. Standard conductor counts are 26 and 50; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

Color Code: Gray with Red polarity stripe.

Application: Internal interconnection or internal wiring of electronic equipment.

Physical Specifications

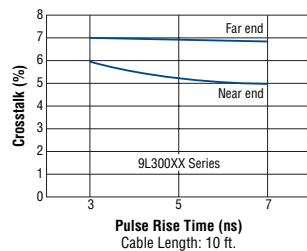
Conductor	30 AWG (7x38) Tinned Copper
Insulation	.0075" Nom. Wall Gray PVC
Pitch	.025" ± .002"
Temperature Rating	-40 to +105°C
Flammability Rating	UL: VW-1, CSA: FT1
UL Approval	File #E12683, Style 2678
CSA Approval	File #LL7874, CSA AWM I A 105°C 150V FT1
Packaging	H100, H300

Electrical Specifications

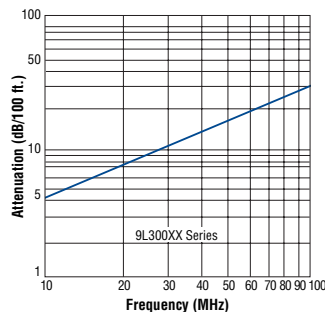
Voltage Rating	150V RMS
Current Rating	.5A
Conductor Resistance	108Ω/1000 ft.
Insulation Resistance	>1 x 10 ¹⁰ Ω • 10 ft. (3m)
Impedance*	70Ω
Capacitance* (@ 1 MHz)	24 pF/ft. (79 pF/m)
Inductance* (@ 1 MHz)	.14 μH/ft. (.46 μH/m)
Propagation Delay*	1.52 ns/ft. (4.99 ns/m)

*Test Configuration: G-S-G (ground-signal-ground).

Unbalanced Crosstalk



Attenuation



Teflon is a DuPont trademark.



Part No.	No. of Cond.	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9L30026	26	.650 ±.010	16.51 ±.25	.625 ±.007	15.88 ±.18
9L30050[†]	50	1.250 ±.011	31.75 ±.28	1.225 ±.009	31.12 ±.23

[†]Available in H100 packaging only.

Dimensions

