



Part Number: 9L26016



Flat Gray Ribbon Cable 9L260XX Series

Product Description

Belden .050" pitch gray ribbon cable was designed for general purpose electronic interconnect applications. The cable provides reliable mass-termination to standard IDC connectors.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Material	Construction n x D	No. of Conductors
26	TC - Tinned Copper	Stranded	16

Conductor Count:	16
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Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.01 in

Color Chart

Color
Gray

Outer Shield Material

Material
Unshielded

Outer Jacket Material

Nominal Wall Thickness
0.039 in

Construction and Dimensions

Cond Spacing Center-Center:	0.05 in
OuterJacket1, Nominal Width:	0.8 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
43 Ohm/1000ft	2.1 Ohm/1000ft

Capacitance

Element	Nom. Capacitance Conductor to Conductor
@ 1 kHz (GSG)	23 pF/ft
@ 1 MHz (GS)	11 pF/ft
@ 1 MHz (GSG)	18 pF/ft

Inductance

Element	Nominal Inductance
@ 1 MHz (GS)	0.23 µH/ft
@ 1 MHz (GSG)	0.15 µH/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
135 Ohm	(GS)
90 Ohm	(GSG)

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	3.9 dB/100ft
20 MHz	6.4 dB/100ft
30 MHz	8.7 dB/100ft
40 MHz	13 dB/100ft
50 MHz	16.9 dB/100ft
60 MHz	20.1 dB/100ft
70 MHz	22.5 dB/100ft
80 MHz	23.9 dB/100ft
90 MHz	25.1 dB/100ft
100 MHz	26.4 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.48 ns/ft	67.60 %

Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time (ns)
10 ft. sample length	5.2 MHz	6.2 MHz	3 MHz
10 ft. sample length	4.2 MHz	5 MHz	5 MHz
10 ft. sample length	3.3 MHz	3.8 MHz	7 MHz

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]
per conductor @ 20°C: 1.5 A

Voltage

Dielectric Withstand Voltage	UL Voltage Rating
2000 V RMS	300 V RMS

Temperature Range

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

Bulk Cable Weight:	25 lbs/1000ft
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Min Bend Radius (Overall Cable):	2.08
Min Bend Radius/Installation:	2.07 in

Dimensions (WxHxD)

Width
2.05

Standards

UL Rating:	105°C, 300 V RMS, VW-1
UL AWM Style:	2651
CSA Rating:	AWM 2651
CSA AWM Specification:	I A 105C 300V

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-07-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
CSA Flammability:	FT1

Part Number

Plenum (Y/N):	No
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Variants

Item #	Color
9L26016 008H100	GRAY

Product Notes

Notes:	GS=Ground-Signal Mode; GSG=Ground-Signal-Ground Mode
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