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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**Part Number: 9L28010**



**Flat Gray Ribbon Cable 9L280 Series, #28-10c, .050" Pitch**

**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
28	TC - Tinned Copper	Stranded	10

Conductor Count:	10
Conductor Size:	28 AWG

**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
0.035 in

**Construction and Dimensions**

Cond Spacing Center-Center:	.050 in
Cond Spacing Center-Center Outside:	.45 in
OuterJacket1, Nominal Width:	.50 in
Print Legend:	BELDEN-T 28 AWG CSA AWM I A 105°C 300 V FT1 LL7874 (UL LOGO) AWM STYLE 2651 VW-1 E12683

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
68.2 Ohm/1000ft

**Capacitance**

Element	Nom. Capacitance Conductor to Conductor
@ 1 kHz (GSG)	18 pF/ft
@ 1 MHz (GS)	10 pF/ft
@ 1 MHz (GSG)	15 pF/ft

Shielding:	Unshielded
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## Inductance

Element	Nominal Inductance
@ 1 MHz (GS)	0.29 $\mu$ H/ft
@ 1 MHz (GSG)	0.2 $\mu$ H/ft

## Impedance

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
150 Ohm	(GS)
105 Ohm	(GSG)

## High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	2.8 dB/100ft
20 MHz	4.8 dB/100ft
30 MHz	6.5 dB/100ft
40 MHz	8.3 dB/100ft
50 MHz	9.8 dB/100ft
60 MHz	12 dB/100ft
70 MHz	13 dB/100ft
80 MHz	14 dB/100ft
90 MHz	15.8 dB/100ft
100 MHz	17 dB/100ft

## Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.4 ns/ft	72 %

## Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time (ns)
10 ft. sample length	4.8 MHz	7 MHz	3 ns
10 ft. sample length	3.5 MHz	4.7 MHz	5 ns
10 ft. sample length	3 MHz	3 MHz	7 ns

## High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
10 MHz	2.5 dB/100m
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 A

## Voltage

Dielectric Withstand Voltage	UL Voltage Rating
2,000 V RMS	300 V RMS

## Temperature Range

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

Bulk Cable Weight:	12 lbs/1000ft
Min Bend Radius/Minor Axis:	2.5 in
Min Bend Radius/Installation:	2.5 in

## Standards

UL Rating:	105°C, 300 V RMS, VW-1
UL AWM Style:	2651
CSA Rating:	105°C, 300 V RMS, FT1
CSA AWM Specification:	I A 105°C 300V FT1

## 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

## Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
CSA Flammability:	FT1
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color
9L28010 008H100	Gray
9L28010 008H300	Gray

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