Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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!
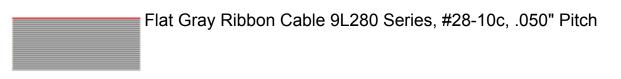

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Part Number: 9L28010

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

Inductance

Element	Nominal Inductance
@ 1 MHz (GS)	0.29 µH/ft
@ 1 MHz (GSG)	0.2 µH/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

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

Part Number

Variants

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