# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



# 9L28010 Flat - Gray Ribbon 9L280XX Series



For more Information please call

1-800-Belden1



# **Description:**

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

# **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Conductors	AWG	Stranding	Conductor Material
10	28	7x36	TC - Tinned Copper

Conductor Spacing Center to Center: .050 +/- .002

Conductor Spacing Outside Center to Outside .45 +/- .008

Center:

#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.254

Insulation Resistance: >10, 000 Megaohms

# **Outer Shield**

#### **Outer Shield Material:**

Outer Shield Material Unshielded

# **Overall Cabling**

Overall Nominal Thickness: .035 +/- .003

Overall Nominal Width: .50 +/- .008

# **Mechanical Characteristics (Overall)**

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

# **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

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

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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)**

# **Electrical Characteristics (Overall)**

# Nom. Characteristic Impedance:

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

#### Nom. Inductance:

Description	Inductance (µH/m)			
@ 1 MHz (GS)	0.95149			
@ 1 MHz (GSG)	0.6562			

#### Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/m)
@ 1 kHz (GSG)	59.058
@ 1 MHz (GS)	32.81
@ 1 MHz (GSG)	49.215

# Nominal Velocity of Propagation:

Description	VP (%)
	72

# Nominal Delay:

# Delay (ns/m) 1.40 NS/FT. (GSG)

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 68.2 OHMS/1000 FT. MAX.

# Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
10	9.1868
20	15.7488
30	21.3265
40	27.2323
50	32.1538
60	39.372
70	42.653
80	45.934
90	51.8398
100	55.777

#### Max. Operating Voltage - UL:

Voltage 300 V RMS

#### Max. Recommended Current:

Current
1 Amp per conductor @ 20°C

**Dielectric Withstand Voltage:** 2, 000 V RMS

Typical Unbalanced Crosstalk:

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Description	Pulse Rise Time (NS) (MHz)	Near End % (MHz)	Far End % (MHz)
10 ft. sample length	3	4.8	7
10 ft. sample length	5	3.5	4.7
10 ft. sample length	7	3	3

# Notes (Overall)

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

# **Polarity Identification (Overall)**

Polarity Identification: **RED POLARITY STRIPE ON #1 CONDUCTOR** 

#### **Related Documents:**

No related documents are available for this product

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9L28010 008H100	30 MT	0.544 KG	GRAY		10 #28 STR PVC RIBBON
9L28010 008H300	91 MT	1.633 KG	GRAY		10 #28 STR PVC RIBBON

Revision Number: 1 Revision Date: 05-14-2007

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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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