Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9L28009 Flat - Gray Ribbon 9L280XX Series



For more Information please call

1-800-Belden1



General Description:

Plenum (Y/N):

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.

applications. The cable provides reliable mass-termination to standard IDC connectors.				
Physical Characteristics (Overall)				
Conductor AWG:				
# Conductors AWG Stranding Conductor Material				
9 28 7x36 TC - Tinned Copper				
Total Number of Conductors:	9			
Conductor Spacing Center to Center:	.050 +/002			
Conductor Spacing Outside Center to Outside Center: .40 +/008				
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 Cable Overall Nominal Thickness:	.035 +/003			
Overall Nominal Width:	.45 +/006			
Mechanical Characteristics (Overall)				
Operating Temperature Range: -40°C To +105°C				
Bulk Cable Weight:	14.882 Kg/Km			
Applicable Specifications and Agency Compliance (C	verall)			
Applicable Standards & Environmental Programs				
UL Rating:	105°C, 300 V RMS, VW-1			
CSA Rating:	105°C, 300 V RMS, FT1			
EU Directive 2011/65/EU (ROHS II):	Yes			
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				

No

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Surface Printing (Overall)

Surface Printing:

BELDEN-T 28 AWG CSA AWM I A 105°C 300 V FT1 LL7874 (UL LOGO) AWM STYLE 2651 VW-1 E12683

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:

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: 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
9L28009 008H100	100 FT	1.100 LB	GRAY		9 #28 STR PVC RIBBON (SMI 80)
9L28009 008H300	300 FT	4.200 LB	GRAY		9 #28 STR PVC RIBBON

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9L28009 Flat - Gray Ribbon 9L280XX Series

Revision Date: 09-14-2012 Revision Number: 2

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