Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9L28050 Flat - Gray Ribbon 9L280XX Series

For more Information please call

1-800-Belden1



General 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		
50 28 7x36 TC - Tinned Copper		
Total Number of Conductors:	50	
Conductor Spacing Center to Center:	.050 +/002	
Conductor Spacing Outside Center to Outside Center:	2.45 +/012	
Insulation Insulation Material:		
Insulation Material Wall Thickness (in.)		
PVC - Polyvinyl Chloride .010		
Insulation Resistance:	>10,000 Megaohms	
Outer Shield		
Outer Shield Material Outer Shield Material		
Unshielded		
Overall Cable		
Overall Nominal Thickness:	.035 +/003	
Overall Nominal Width:	2.50 +/012	
Mechanical Characteristics (Overall)		
Operating Temperature Range:	-40°C To +105°C	
Bulk Cable Weight:	65 lbs/1000 ft.	
Applicable Specifications and Agency Compliance	e (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 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	

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Plenum/Non-Plenum							
Plenum (Y/N):		No					
Surface Printing (Overall)							
Electrical Characteristics (Ov	erall)						
Nom. Characteristic Impedance:	,						
Description Impedance (Ohm)							
(GS) 150							
(GSG) 105							
Nom. Inductance:							
Description Inductance (µH/ft)							
@ 1 MHz (GSG) .29 @ 1 MHz (GSG) .20	@ 1 MHz (GS) 29						
Nom. Capacitance Conductor to Condu Description Capacitance (pF/ft							
Description Capacitance (pF/ft @ 1 kHz (GSG) 18	<i>)</i>						
@ 1 MHz (GS) 10	-						
@ 1 MHz (GSG) 15	-						
Nominal Velocity of Propagation:							
Description VP (%)							
72							
Nominal Delay:							
Delay (ns/ft)							
1.40 NS/FT. (GSG)							
Nom. Conductor DC Resistance:							
DCR @ 20°C (Ohm/1000 ft)							
68.2 OHMS/1000 FT. MAX.							
Nom. Attenuation:							
Freq. (MHz) Attenuation (dB/100 ft. 10 2.8)						
20 4.8	-						
30 6.5	-						
40 8.3	-						
50 9.8							
60 12							
70 13	-						
80 14 90 15.8	-						
100 17	-						
Max. Operating Voltage - UL:							
Voltage							
300 V RMS							
Max. Recommended Current:							
Current							
1 Amp per conductor @ 20°C							
Dielectric Withstand Voltage:		2, 000 V RM	15				
Typical Unbalanced Crosstalk:		2,000 1 14					
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		.5 4.7					
10 ft. sample length 7	3	3					
Notoo (Ovoroll)							
Notes (Overall)							
Notes: GS=Ground-Signal Mode; 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			
9L28050 008H100	100 FT	7.100 LB	GRAY		50 #28 STR PVC RIBBON		

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