

METRIC MEASUREMENT VERSION

9L28040 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				
40 28 7x36 TC - Tinned Copper				
Total Number of Conductors:	40			
Conductor Spacing Center to Center:	.050 +/002			
Conductor Spacing Outside Center to Outside Center:	1.95 +/012			
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:	2.00 +/012			
Mechanical Characteristics (Overall)				
Operating Temperature Range:	-40°C To +105°C			
Bulk Cable Weight:	77.386 Kg/Km			
Applicable Specifications and Agency Con	npliance (Overall)			
Applicable Standards & Environmental Progra	ms			
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			

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

9L28040 Flat - Gray Ribbon 9L280XX Series

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	
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	
	La alla di	

@ 1 MHz (GSG)	49.215
@ 1 MHz (GS)	32.81

Nominal Velocity of Propagation:

Description VP (%)



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:

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

9L28040 Flat - Gray Ribbon 9L280XX Series

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: 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	Item Desc
9L28040 008H100	30 MT	2.540 KG	GRAY		40 #28 STR PVC RIBBON(SMI80)

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

© 2013 Belden. Inc All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.