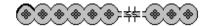
# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



# 2L28026 Flat - Gray Ribbon 2L280XX Series



For more Information please call

1-800-Belden1



## **Description:**

Belden's 1.00mm pitch gray ribbon cable was designed for the disk drive market where the 2.00mm IDC connector is widely used.

# **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Conductors	AWG	Stranding	Conductor Material
26	28	7x36	TC - Tinned Copper

Total Number of Conductors: 26

Conductor Spacing Center to Center: .0394 +/- .002

Conductor Spacing Outside Center to Outside .984 +/- .008

Center:

#### 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: .0354 +/- .0031

Overall Nominal Width: 1.02 +/- .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

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# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



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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)	130
(GSG)	90

#### Nom. Inductance:

Description	Inductance (µH/ft)
@ 1 MHz (GS)	.24
@ 1 MHz (GSG)	.16

#### Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/ft)	
@ 1 kHz (GSG)	20	
@ 1 MHz (GS)	9.5	
@ 1 MHz (GSG)	16.5	

# Nominal Velocity of Propagation:

Description	VP (%)
	69

### **Nominal Delay:**

Delay (ns/ft)
Dolay (113/11)
1.47 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	3.3
20	5.1
30	7
40	8.3
50	9.8
60	11.6
70	13.1
80	14.2
90	16.4
100	17.6

# Max. Operating Voltage - Non-UL:

Voltage	
300 V RMS	Ī

#### Max. Recommended Current:

Current
1 Amp per conductor @ 20°C

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

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# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



#### 2L28026 Flat - Gray Ribbon 2L280XX Series

#### Typical Unbalanced Crosstalk:

Description	Pulse Rise Time (NS) (MHz)	Near End % (MHz)	Far End % (MHz)
10 ft. sample length	3	4.3	6.7
10 ft. sample length	5	3.8	3.4
10 ft. sample length	7	3.6	2.5

## **Notes (Overall)**

Notes: GSG=Ground-Signal-Ground Mode

#### **Polarity Identification (Overall)**

Polarity Identification:

**BLACK POLARITY STRIPE ON #1 CONDUCTOR** 

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc	
2L28026 008H100	100 FT	3.100 LB	GRAY		26 #28 STR PVC RIBBON	

Revision Date: 02-20-2009 Revision Number: 1

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