# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



# 2L28026 Flat - Gray Ribbon 2L280XX Series





For more Information please call

1-800-Belden1



# **General 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:

v26 TC Tinned Conner	_
x36 TC - Tinned Copper	
nductors:	
Center to Center:	
Outside Center to Outsid	e

#### Insulation

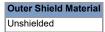
### **Insulation Material:**

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

Insulation Resistance: >10,000 Megaohms

## **Outer Shield**

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



## **Overall Cable**

Overall Nominal Thickness:	.035 +/003
Overall Nominal Width:	1.020

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +105°C
Bulk Cable Weight:	44.646 Kg/Km
Min. Bend Radius/Minor Axis:	12.700 mm

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

# **Applicable Standards & Environmental Programs**

UL Rating:	AWM Style 2651
CSA Rating:	I A
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

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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)	
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**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)	130
(GSG)	90

#### Nom. Inductance:

Description	Inductance (µH/m)
@ 1 MHz (GS)	0.78744
@ 1 MHz (GSG)	0.52496

### Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/m)
@ 1 kHz (GSG)	65.62
@ 1 MHz (GS)	31.1695
@ 1 MHz (GSG)	54.1365

## Nominal Velocity of Propagation:

	-
Description	VP (%)
	69

## **Nominal Delay:**

Delay (ns/m) 1.47 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	10.8273
20	16.7331
30	22.967
40	27.2323
50	32.1538
60	38.0596
70	42.9811
80	46.5902
90	53.8084
100	57.7456

#### Max. Operating Voltage - UL:

Voltage 300 V RMS

#### Max. Recommended Current:

Current

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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	4.3	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 Number: 2 Revision Date: 10-15-2012

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