



Product: <u>9L28310</u> ☑

Shielded Flat Ribbon Cable .050" Pitch, 9L283XX Series, #28-10c, PVC Ins, O/A Foil Tape, PVC Jacket

Product Description

Shielded Flat Ribbon Cable .050" Pitch, 9L283XX Series, 10 Conductor, 28 AWG (7x36) Tinned Copper, Gray PVC Insulation, Beldfoil® Tape, Black PVC Jacket

Technical Specifications

Product Overview Suitable Applications: Internal interconnection, internal wiring of electronic equipment, reliable mass-termination to standard IDC connectors, noisy evnvironments **Physical Characteristics (Overall)** Conductor AWG Stranding Material 28 7x36 TC - Tinned Copper Conductor Count: 10 Insulation Nominal Wall Thickness Material PVC - Polyvinyl Chloride 0.010 in Color Chart Color Gray Table Notes: First Conductor has Red Stripe **Outer Shield** Coverage [%] Drainwire Material Drainwire AWG Drainwire Construction n x D Туре Material Material Trade Name Tape Bi-Laminate (Alum+Poly) Beldfoil® 100% TC - Tinned Copper 28 7x36 Outer Jacket Nominal Wall Thickness Material PVC - Polyvinyl Chloride 0.038 in **Construction and Dimensions** 000

Conductor Spacing Center-Center:	.050 +/002 in
Conductor Spacing Center-Center Outside:	.450 +/008 in
OuterJacket1, Nominal Width:	.570 in
OuterJacket1, Nom Thick Flat Section:	0.115 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 68.2 Ohm/1000ft

Capacitance

Element	Nom. Capacitance Conductor to Conductor
@ 1 kHz (GSG) with shield grounded	70 pF/ft
@ 1 MHz (GSG) with shield grounded	50 pF/ft
Min Insulation Resistance:	10,000 MOhm

Min Insulation Resistance:

Inductance

Element	Nominal Induct
@ 1 MHz (GSG) with shield grounded	0.11 µH/ft

Impedance

Nominal Balanced Characteristic Impedance Description	Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
(GSG) with shield grounded	45 Ohm	(GSG) with shield grounded

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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	6 dB/100ft
20 MHz	9.5 dB/100ft
30 MHz	12.5 dB/100ft
40 MHz	14.9 dB/100ft
50 MHz	17.2 dB/100ft
60 MHz	19 dB/100ft
70 MHz	21.5 dB/100ft
80 MHz	23 dB/100ft
90 MHz	24.5 dB/100ft
100 MHz	26 dB/100ft
Table Notes:	

GSG=Ground-Signal-Ground Mode

Delay

Nominal Delay Nominal Velocity of Propagation (VP) [%] 1.7 ns/ft 60%

Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time (ns)
10 ft. sample length with ground connected to shield	1.5	2	3 ns
10 ft. sample length with ground connected to shield	0.9	1.5	5 ns
10 ft. sample length with ground connected to shield	0.7	1.2	7 ns

Current

Max. Recommended Current [A]

1 Amp per Conductor at 20°C

Voltage

Dielectric Withstand Voltage	UL Voltage Rating
2000 V	300 V

Temperature Range

Operating Temperature Range:	-20°C to +105°C
Mechanical Characteristics	

Bulk Cable Weight: 47 lbs/1000ft Min. Bend Radius During Installation: 1.75 in Min. Bend Radius/Minor Axis: 0.75 in

Standards

UL AWM Style Compliance:	AWM 20081
CSA AWM Compliance:	II A

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes

EU Directive Compliance:	Yes
EU CE Mark:	Yes
CA Prop 65 (CJ for Wire and Cable):	Yes
MII Order #39 (China RoHS):	Yes
Suitability	
Suitability - Indoor:	Yes
Flammability, LS0H, Toxicity Tes	sting
UL Flammability:	VW-1
UL Flammability: UL voltage rating:	VW-1 300 V
UL voltage rating:	
UL voltage rating: Plenum/Non-Plenum	300 V

Item #	Color	Put-Up Type	Length	UPC
9L28310 010100	Black	Reel	100 ft	612825221739
Footnote:				E - MAY CONT
History				
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Update and Revis	ion:			Revision Number

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