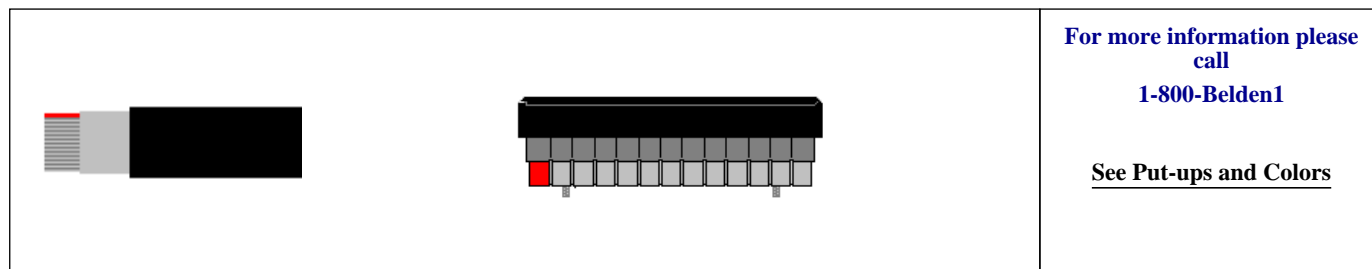


9L28309 Flat - 9L283XX - .050 in. Pitch



Description:

The shielded jacketed 9L283XX series provides shielding from external electrical interference and allows for greater flexibility, ease of termination, while providing exterior protection from the environment.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Conductors	9
Total Number of Conductors	9
AWG	28
Stranding	7x36
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PVC - Polyvinyl Chloride
Nom. Insulation Wall Thickness	.010 in.
Insulation Resistance	>10,000 Mega Ohms

SPACING:

Conductor Spacing Center to Center	.050 +/- .002 in.
Conductor Spacing Outside Center to Outside Center	.40 +/- .008 in.

OVERALL:

Overall Nominal Width	.55 in.
Overall Nominal Thickness	.122 +/- .012 in.

OUTER SHIELD:

Outer Shield Trade Name	Duofoil®
Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil-Polyester Tape-Aluminum Foil
Outer Shield % Coverage	100 %

OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG	2-28
Outer Shield Drain Wire Stranding	7x36
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

9L28309 Flat - 9L283XX - .050 in. Pitch

Outer Jacket Material	PVC - Polyvinyl Chloride
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Outer Jacket Nominal Wall Thickness	.038 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To 105°C
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APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

UL AWM Style	20081
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UL Rating	105°C, 300 V, VW-1
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CSA Specification	AWM II A 105°C 300 V, FT1
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CSA Rating	105°C, 300 V, FT1
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FLAME TEST:

UL Flame Test	VW-1
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CSA Flame Test	FT1
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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SURFACE PRINTING:

Surface Printing	BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683
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POLARITY IDENTIFICATION:

Polarity Identification	RED POLARITY STRIPE ON #1 CONDUCTOR
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance :

Description	Nom. Characteristic Impedance (Ohms)
(GSG) with shield grounded	45

Nom. Inductance :

Description	Nominal Inductance (μH/ft)
@ 1 MHz (GSG) with shield grounded	.11

Nom. Capacitance Conductor to Conductor :

Description	Nom. Capacitance Conductor to Conductor (pF/ft)
@ 1 kHz (GSG) with shield grounded	70
@ 1 MHz (GSG) with shield grounded	50

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
	60

Nominal Delay	1.7 NS/FT. (GSG) with shield grounded
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Nom. Conductor DC Resistance @ 20 Deg. C	68.2 OHMS/1000 FT. MAX.
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Nom. Attenuation :

9L28309 Flat - 9L283XX - .050 in. Pitch

Description	Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
(GSG) with shield grounded	10	6
(GSG) with shield grounded	20	9.5
(GSG) with shield grounded	30	12.5
(GSG) with shield grounded	40	14.9
(GSG) with shield grounded	50	17.2
(GSG) with shield grounded	60	19
(GSG) with shield grounded	70	21.5
(GSG) with shield grounded	80	23
(GSG) with shield grounded	90	24.5
(GSG) with shield grounded	100	26

Typical Unbalanced Crosstalk :

Description	Pulse Rise Time (NS)	Near End (%)	Far End (%)	Typical Unbalanced Crosstalk (dB)
10 ft. sample length with ground connected to shield	3	1.5	2	
10 ft. sample length with ground connected to shield	5	.9	1.5	
10 ft. sample length with ground connected to shield	7	.7	1.2	

Max. Operating Voltage - UL	300 V RMS
Max. Recommended Current	1 Amp @ 20°C
Dielectric Withstand Voltage	2, 000 V RMS

NOTES:

Notes	GSG=Ground-Signal-Ground Mode
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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9L28309 010100	9 #28 PVC FS PVC RIBBON	100	3.9	BLACK	E

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Revision Number: 1 Revision Date: 10-29-2002

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