

# Jacketed Zip planar cable — 151 series



## description

Spectra-Strip Zip extruded jacketed cables combine the ease of termination, consistent electrical characteristics and reduced space requirements of flat cable with the ruggedness of an extruded protective outer jacket — Spectra-Guard®.

It is available with or without integral EMI/RFI shielding. Spectra-Guard provides excellent abrasion resistance, extremely low crosstalk (see test data), consistent electrical characteristics, and high flexibility, making it ideal for high-speed data processing equipment and high frequency communications systems.

Basic component cable consists of 28 (7X36) uninsulated conductors on .050" centers with an extruded PVC insulation. Both the jacket and cable are made of flame-retardant PVC and are UL listed to 105°C (221°F) and 150 volts. Terminates to standard connectors.

We can also provide fully-tested terminated assemblies. For more information, please consult the factory.

## benefits

- Rugged, flexible protection
- Excellent crosstalk and electrical performance
- Available with or without EMI/RFI shielding
- Terminates to standard IDC connectors
- UL CL2 and CSA

## characteristics

### Physical

Conductors: 28 AWG, 7/36 strands, tinned copper  
 Conductors insulation: Gray PVC, flame retardant  
 Conductor spacing: .050" (1,27) typical  
 Shielding (if applicable): Aluminum/poly or expanded copper mesh  
 Drain wires (if applicable): 28 AWG, 7/36 strand, tinned copper  
 Jacket: Black PVC, 30 mil avg.  
 Consult factory for other available thicknesses

### Electrical

Voltage rating: 150 V  
 Temperature rating: 105°C, (221°F),  
 UL Listed Power Limited  
 Circuit Cable CL2  
 CSA: CSA AWM I/II A105°C (221°F),  
 300 V, FT-1

## 151 series capabilities

- 843-151-2811-XXX Zip cable, jacketed with no shield, no drain wires  
 843-151-2831-XXX Zip cable, jacketed, shielded with aluminum poly, two drain wires  
 843-151-2821-XXX Zip cable, jacketed, shielded with expanded copper mesh

Part Number	Wire Gauge Strand	Description	Temp. Rating	Voltage Rating	Impedance Ohms*	1MHz Capacitance pf/ft (pf/m)*	Propagation Delay ns/ft (ns/m)	Insulation Resistance ohms	UL Style
843-151-2811-XXX	28(7/36)	Extruded PVC jacket	105°C 105°C	150V 300V	90	30 (89)	1.6 (5,6)	10 <sup>10</sup> – 10 ft.	2912 20081
843-151-2831-XXX	28(7/36)	Aluminum/poly shield 2 drain wires with extruded PVC jacket	105°C 105°C	150V 300V	50	40 (131)	1.6 (5,2)	10 <sup>10</sup> – 10 ft.	2912 20081

\*Shield floating (GSG)

\*G-S-G/Shield Grounded

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## order information

Part No. & Description	Part No. & Description	No. of Conductors	Dimension "A"	Dimension "B"	Dimension "C"
Extruded PVC Jacket	Aluminum/Poly Shield with Extruded PVC Jacket (2 drain wires)				
843-151-2811-009	843-151-2831-009	9	.450(11,43)	.400±.007(10,16±0,18)	.510
843-151-2811-010	843-151-2831-010	10	.500(12,70)	.450±.007(11,43±0,18)	.560
843-151-2811-014	843-151-2831-014	14	.700(17,78)	.650±.007(16,51±0,18)	.760
843-151-2811-015	843-151-2831-015	15	.750(19,09)	.700±.011(17,78±0,28)	.810
843-151-2811-016	843-151-2831-016	16	.800(20,32)	.750±.011(20,32±0,28)	.860
843-151-2811-020	843-151-2831-020	20	1.000(25,40)	.950 ± .011(24,13 ±0,28)	1.060
843-151-2811-024	843-151-2831-024	24	1.200(30,48)	1.150±.011(29,21±0,28)	1.260
843-151-2811-025	843-151-2831-025	25	1.250(31,79)	1.200±.011(30,48±0,28)	1.310
843-151-2811-026	843-151-2831-026	26	1.300(33,02)	1.250±.011(31,75±0,28)	1.360
843-151-2811-034	843-151-2831-034	34	1.700(43,18)	1.650±.011(41,90±0,28)	1.760
843-151-2811-036	843-151-2831-036	36	1.800(45,72)	1.750±.015(44,45±0,38)	1.860
843-151-2811-037	843-151-2831-037	37	1.850(46,99)	1.800±.015(45,72±0,38)	1.910
843-151-2811-040	843-151-2831-040	40	2.000(50,80)	1.950±.015(49,53±0,38)	2.060
843-151-2811-050	843-151-2831-050	50	2.500(63,50)	2.450±.015(62,23±0,38)	2.560
843-151-2811-060	843-151-2831-060	60	2.000(76,20)	2.950±.015(74,93±0,38)	3.060
843-151-2811-064	843-151-2831-064	64	3.200(81,28)	3.150±.015(80,01±0,38)	3.260

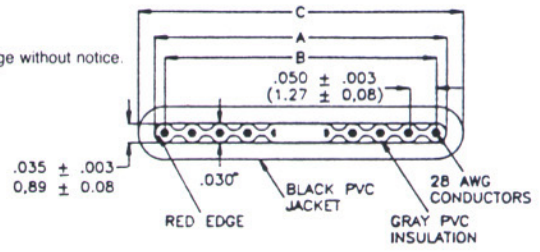
## typical crosstalk characteristics

(10-foot sample, 2-lines driven)

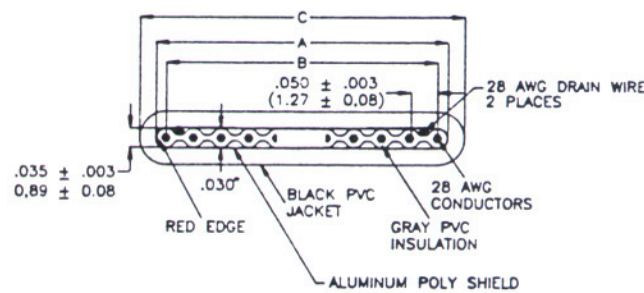
Part Number	Rise Time (ns)	NE %	FE %
843-151-2811 Series	3.0	4.4	1.2
	5.0	4.3	.8
	7.0	4.3	.6
843-151-2831 Series	3.0	.3	.7
	5.0	.2	.5
	7.0	.2	.4

Dimensions and characteristics subject to change without notice.

### 843-151-2811 SERIES UNSHIELDED



### 843-151-2831 SERIES SHIELDED



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