

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 ¹⁰ – 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 ¹⁰ – 10 ft. | 2912 20081 |

*Shield floating (GSG)

*G-S-G/Shield Grounded

Jacketed Zip planar cable — 151 series

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 |

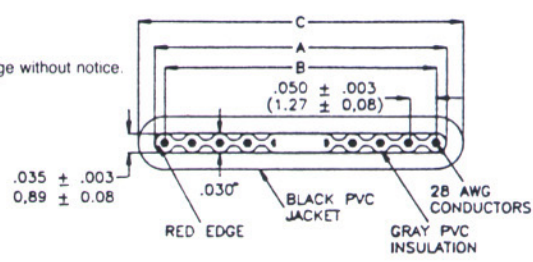
typical crosstalk characteristics

(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

