



SERIPLEX® CABLES

New SERIPLEX cables

from Belden can

accommodate data,

power, and control

options in a single

cable.

NP 165

About Seriplex

SERIPLEX is a control bus that interconnects simple network sensing and control devices. It utilizes a single cable to interconnect all devices, regardless of the level of complexity, and can help reduce overall control system installation and maintenance costs by 50%-70%.

Features of Seriplex

The physical layer medium and its operation are unique to SERIPLEX. It transmits multiplexed data serially on a shielded composite cable, which reduces for installation time, lowers costs, and increases reliability. SERIPLEX is based on an ASIC chip that continuously transmits data in "frames" and allows relative device levels the option of peer-to-peer or master/slave communication.

The composite cable construction carries both power and signal pairs of different sizes and electrical characteristics under the same jacket. Data transmission within a SERIPLEX control bus is protected by a large hysteresis, allowing power and data within a single cable without fear of "noise."

SERIPLEX is based on a simple operation and robust technology, but utilizes innovative features such as echoing, which provides useful diagnostics not always

available in a control system.

Although it is not a blazing fast network, it is efficient, and provides performance comparable to other networks on a single cable at reduced costs.

Belden cable for Seriplex

Belden has designed a series of cables for SERIPLEX systems that offer a variety of standard product options. The cables are designed to interconnect SERIPLEX components with different combinations of data/clock, control, and/or power, depending on the application and device. We begin by manufacturing our own tinned copper conductors which allows ease of termination and corrosion resistance, and complete the cable with our own specially formulated, oil-resistant, industrial-grade orange PVC jacket.



Features of cables for Seriplex

- Data, power, and control in one cable
- Low data pair capacitance
- Maximum signal transfer
- 100% coverage shield for noise protection
- UL Subject 13 approval
- Tinned copper drain wire for easy termination of shield
- Available in special constructions, including armor and extremely heavy-duty industrial jackets

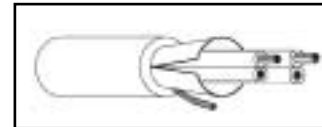
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Specifications:

NEC CL2; UL Subject 13
 NEC Article 725 Power Limited Circuit Cables
 Conductor: Stranded Tinned Copper
 Insulation: Foamed HDPE (data pairs)
 Shield: Beldfoil® and Tinned Copper Braid
 Jacket: Orange PVC Jacket (SUN RES)
 300Volt; -25 to +75 degree C
 Impedance: 150 ohms (data pairs)
 Velocity of Propagation: 78%(data pairs)
 Capacitance: 9.0pF/ft. (data pairs)
 Standard Lengths: 500ft. & 1000ft.

Belden 3124A for Seriplex



Product Information:

Trade No. UL NEC C(UL) CEC Type	Standard Lengths (feet)	AWG (stranding) [Dia. in In.] Nom. D.C.R.	Insulation material (color code)	Nominal O.D. (inches)	Nominal Impedance (ohms)	Nominal Vel. of Prop.	Nominal Capacitance	Shield Type and Coverage
3124A NEC CL2 CM C(UL) CM AWM 600V	500 1,000	#18/2C (16 x #30) 6.8 ohm/M' #22/2C (7 x #30) 18.1 ohm/M'	Power pair Foamed HDPE (rd/blk) Data pair Foamed HDPE(wht/grn)	0.308	150	Data pair 78%	16.0pF/ft.	Overall Beldfoil 100% with #22 TC drain
								Orange PVC jacket
3125A NEC CM CL2 C(UL) CM 150V AWM 600V	500 1,000	#16/2C (26 x #30) 4.5 ohm/M' #22/2C (7 x #30) 18.1 ohm/M'	Power pair PVC/Nylon (red/black) Data pair Cellular PE (green/white)	0.368	150	Data pair 78%	9.0pF/ft.	Overall Beldfoil 100% with #22 TC drain
								Orange PVC jacket
3126A NEC CL2 CM C(UL) CM 150V	500 1,000	#16/2C (26 x #30) 4.5 ohm/M' #22/2C (7 x #30) 18.1 ohm/M' #12/2C (65 x #30) 1.8 ohm/M'	Power pair PVC/Nylon (red/black) Data pair Cellular PE (green/white)	0.486 x 0.363	150	Data pair 78%	16.0pF/ft.	Overall Beldfoil 100% with #22 TC drain
								Orange PVC jacket

For More Information:

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