



# Wiring Solutions

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## Wiring Solutions using the ZIPLink Wiring System

**ZIPLinks** simplify the normally tedious process of wiring between devices by utilizing prewired cables and DIN rail mount connector modules. It's as simple as plugging in a cable connector at either end or terminating wires at only one end. Prewired cables keep installation clean and efficient, using half the space at a fraction of the cost of standard terminal blocks. There are several wiring solutions available when using the **ZIPLink** System ranging from PLC I/O-to-**ZIPLink** Connector Modules that are ready for field termination, options for connecting to third party devices, GS,

### **Solution 1: Do-more H2 Series PLC to ZIPLink Connector Modules**

When looking for quick and easy I/O-to-field termination, a **ZIPLink** connector module used in conjunction with a prewired **ZIPLink** cable, consisting of an I/O terminal block at one end and a multi-pin connector at the other end, is the best solution.



DuraPulse and SureServo Drives, and specialty relay, transorb and communications modules. Pre-printed I/O-specific adhesive label strips for quick marking of **ZIPLink** modules are provided with **ZIPLink** cables. See the following solutions to help determine the best **ZIPLink** system for your application.

Using the PLC I/O Modules to **ZIPLink** Connector Modules selector tables located in this section,

1. Locate your I/O module/PLC.
2. Select a **ZIPLink** Module.
3. Select a corresponding **ZIPLink** Cable.

### **Solution 2: Do-more H2 Series PLC to 3rd Party Devices**

When wanting to connect I/O to another device within close proximity of the I/O modules, no extra terminal blocks are necessary when using the **ZIPLink** Pigtail Cables. **ZIPLink** Pigtail Cables are prewired to an I/O terminal block with color-coded pigtail with soldered-tip wires on the other end.



Using the I/O Modules to 3rd Party Devices selector tables located in this section,

1. Locate your PLC I/O module.
2. Select a **ZIPLink** Pigtail Cable that is compatible with your 3rd party device.

### **Solution 3: GS Series and DuraPulse Drives Communication Cables**

Need to communicate via Modbus RTU to a drive or a network of drives?

**ZIPLink** cables are available in a wide range of configurations for connecting to PLCs and SureServo, SureStep, Stellar Soft Starter and AC drives. Add a **ZIPLink** communications module to quickly and easily set up a multi-device network.

Using the Drives Communication selector tables located in this section,

1. Locate your Drive and type of communications.
2. Select a **ZIPLink** cable and other associated hardware.





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## **Solution 4: Serial Communications Cables**

**ZIPLink** offers communications cables for use with Do-more H2 Series CPUs, that can also be used with other communications devices. Connections include a 6-pin RJ12 or 9-pin, 15-pin and 25-pin D-sub connectors which can be used in conjunction with the RJ12 or D-Sub Feedthrough modules.

Using the Serial Communications Cables selector table located in this section,

1. Locate your connector type
2. Select a cable.



## **Solution 5: Specialty ZIPLink Modules**

For additional application solutions, **ZIPLink** modules are available in a variety of configurations including stand-alone relays, 24VDC and 120VAC transorb modules, D-sub and RJ12 feedthrough modules, communication port adapter and distribution modules, and SureServo 50-pin I/O interface connection.

Using the **ZIPLink** Specialty Modules selector table located in this section,

1. Locate the type of application.
2. Select a **ZIPLink** module.



## **Solution 6: ZIPLink Connector Modules to 3rd Party Devices**

If you need a way to connect your device to terminal blocks without all that wiring time, then our pigtail cables with color-coded soldered-tip wires are a good solution. Used in conjunction with any compatible **ZIPLink** Connector Modules, a pigtail cable keeps wiring clean and easy and reduces troubleshooting time.

Using the Universal Connector Modules and Pigtail Cables table located in this section,

1. Select module type.
2. Select the number of pins.
3. Select cable.





# Wiring Solutions

Do-more/DL205 PLC Input Module ZIPLink Selector				
PLC		ZIPLink		
Input Module	# of Terms	Component	Module	Cable †
<a href="#">D2-08ND3</a>	10	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-16ND3-2</a>	19	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL19</a> *
		Sensor	<a href="#">ZL-LTB16-24</a>	<a href="#">ZL-D2-CBL19</a> *
<a href="#">D2-32ND3<sup>1</sup></a>	40	Feedthrough	<a href="#">ZL-RTB40</a>	<a href="#">ZL-D24-CBL40</a> *
				<a href="#">ZL-D24-CBL40</a> *X
		Sensor	<a href="#">ZL-LTB32-24</a>	<a href="#">ZL-D24-CBL40</a> *
				<a href="#">ZL-D24-CBL40</a> *X
<a href="#">D2-32ND3-2<sup>1</sup></a>	40	Feedthrough	<a href="#">ZL-RTB40</a>	<a href="#">ZL-D24-CBL40</a> *
				<a href="#">ZL-D24-CBL40</a> *X
		Sensor	<a href="#">ZL-LTB32-24</a>	<a href="#">ZL-D24-CBL40</a> *
				<a href="#">ZL-D24-CBL40</a> *X
<a href="#">D2-08NA-1</a>	10	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-08NA-2</a>	10	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-16NA</a>	19	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL19</a> *

† X in the part number represents a 45° angle plug.

Do-more/DL205 PLC Combo In/Out Module ZIPLink Selector				
PLC		ZIPLink		
Combo Module	# of Terms	Component	Module	Cable
<a href="#">D2-08CDR</a>	10	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL10</a> *
<a href="#">H2-CTRIO2</a>	19	Feedthrough	<a href="#">ZL-RTB20 (-1)</a>	<a href="#">ZL-D2-CBL19</a> *

Do-more/DL205 PLC Analog Module ZIPLink Selector				
PLC		ZIPLink		
Analog Module	# of Terms	Component	Module	Cable
<a href="#">F2-04AD-1</a>	10	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL10</a> *
<a href="#">F2-08AD-1</a>				
<a href="#">F2-04AD-2</a>				
<a href="#">F2-08AD-2</a>				
<a href="#">F2-02DA-1</a>				
<a href="#">F2-02DAS-1</a>	19			<a href="#">ZL-D2-CBL19</a> *
<a href="#">F2-08DA-1</a>				
<a href="#">F2-02DA-2</a>				
<a href="#">F2-02DAS-2</a>				
<a href="#">F2-08DA-2</a>				
<a href="#">F2-4AD2DA</a>	10	<a href="#">ZL-D2-CBL10</a> *		
<a href="#">F2-8AD4DA-1</a>				
<a href="#">F2-8AD4DA-2</a>				
<a href="#">F2-04RTD<sup>4</sup></a>	Matched Only	See Note 4		
<a href="#">F2-04THM<sup>4</sup></a>	Matched Only	See Note 4		

Do-more/DL205 PLC Output Module ZIPLink Selector				
PLC		ZIPLink		
Output Module	# of Terms	Component	Module	Cable †
<a href="#">D2-04TD1<sup>1</sup></a>	10	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-08TD1</a>	10	Feedthrough		<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-08TD2</a>	10	Feedthrough		<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-16TD1-2</a>	19	Feedthrough		<a href="#">ZL-D2-CBL19</a> *
		Fuse	<a href="#">ZL-RFU20<sup>5</sup></a>	<a href="#">ZL-D2-CBL19</a> *
<a href="#">D2-16TD2-2</a>	19	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL19</a> *
		Fuse	<a href="#">ZL-RFU20<sup>5</sup></a>	<a href="#">ZL-D2-CBL19</a> *
		Relay	<a href="#">ZL-RRL16-24-2</a>	<a href="#">ZL-D2-CBL19</a> *
<a href="#">F2-16TD1P</a>	19	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL19</a> *
<a href="#">F2-16TD2P</a>	19	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL19</a> *
<a href="#">D2-32TD1<sup>1</sup></a>	40	Feedthrough	<a href="#">ZL-RTB40</a>	<a href="#">ZL-D24-CBL40</a> *
		Fuse	<a href="#">ZL-RFU40<sup>5</sup></a>	<a href="#">ZL-D24-CBL40</a> *
<a href="#">D2-32TD2<sup>1</sup></a>	40	Feedthrough	<a href="#">ZL-RTB40</a>	<a href="#">ZL-D24-CBL40</a> *
		Fuse	<a href="#">ZL-RFU40<sup>5</sup></a>	<a href="#">ZL-D24-CBL40</a> *
<a href="#">D2-08TA</a>	10	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL10</a> *
<a href="#">F2-08TA</a>	10	Feedthrough		<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-12TA</a>	19	Feedthrough	<a href="#">ZL-RFU20<sup>5</sup></a>	<a href="#">ZL-D2-CBL19</a> *
		Fuse		<a href="#">ZL-D2-CBL19</a> *
<a href="#">D2-04TRS<sup>2</sup></a>	10	Feedthrough	<a href="#">ZL-RTB20</a>	<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-08TR</a>	10	Feedthrough		<a href="#">ZL-D2-CBL10</a> *
<a href="#">F2-08TRS<sup>2</sup></a>	19	Feedthrough		<a href="#">ZL-D2-CBL19</a> *
<a href="#">F2-08TR3</a>	10	Feedthrough		<a href="#">ZL-D2-CBL10</a> *
<a href="#">D2-12TR</a>	19	Feedthrough	<a href="#">ZL-RFU20<sup>5</sup></a>	<a href="#">ZL-D2-CBL19</a> *
		Fuse		<a href="#">ZL-D2-CBL19</a> *

† X in the part number represents a 45° angle plug.

\* Select the cable length by replacing the \* with: blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

1 To make a custom cable for the 32-point modules, use: Solder-style 180° connector [ZL-D24-CON](#) or Solder-style 45° connector [ZL-D24-CON-X](#).

2 Caution: The [D2-04TD1](#), [D2-04TRS](#), and [F2-08TRS](#) outputs are derated not to exceed module specs 2A per point and 2A per common when used with the ZIPLink wiring system.

3 The [F2-08TR](#) outputs are derated not to exceed 2A per point and 4A per common when used with the ZIPLink wiring system.

4 The [F2-04RTD](#) and [F2-04THM](#) modules are not supported by the ZIPLink wiring system.

5 Note: Fuses (5 x 20 mm) are not included. See Edison Electronic Fuse section for (5 x 20 mm) fuse. S500 and GMA electronic circuit protection for fast-acting maximum protection. S506 and GMC electronic circuit protection for time-delay performance. Ideal for inductive circuits. To ensure proper operation, do not exceed the voltage and current rating of ZIPLink module. [ZL-RFU20](#) = 2A per circuit; [ZL-RFU40](#) = 400mA per circuit.



**Note:** ZIPLink Connector Modules and ZIPLink Cables specifications are in the ZIPLink catalog section.