

Wiring Solutions

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Wiring Solutions using the **ZIP**Link 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 **ZIP**Link System ranging from PLC I/O-to-**ZIP**Link 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 **ZIP**Link connector module used in conjunction with a prewired **ZIP**Link 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 **ZIP**Link modules are provided with **ZIP**Link cables. See the following solutions to help determine the best **ZIP**Link system for your application.

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

- 1. Locate your I/O module/PLC.
- 2. Select a **ZIP**Link Module.
- 3. Select a corresponding **ZIP**Link 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 **ZIP**Link Pigtail Cables. **ZIP**Link 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 **ZIP**Link 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 **ZIP**Link 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 **ZIP**Link 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, **ZIP**Link 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 **ZIP**Link Specialty Modules selector table located in this section,

- 1. Locate the type of application.
- 2. Select a **ZIP**Link 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 colorcoded soldered-tip wires are a good solution. Used in conjunction with any compatible **ZIP**Link 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.



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

† 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
D2-08CDR	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10*
<u>H2-CTRIO2</u>	19	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL19*

Do-more/DL205 PLC Analog Module ZIPLink Selector				
PLC		ZIPLink		
Analog Module	# of Terms	Component	Module	Cable
<u>F2-04AD-1</u>				ZL-D2-CBL10*
<u>F2-08AD-1</u>				
<u>F2-04AD-2</u>	10			
<u>F2-08AD-2</u>				
<u>F2-02DA-1</u>				
<u>F2-02DAS-1</u>				
<u>F2-08DA-1</u>	19	Foodthrough		ZL-D2-CBL19*
<u>F2-02DA-2</u>	10	Feedthrough	<u>ZL-RTB20</u>	ZL-D2-CBL10*
<u>F2-02DA-2L</u>				
<u>F2-02DAS-2</u>				
<u>F2-08DA-2</u>				
<u>F2-4AD2DA</u>				
<u>F2-8AD4DA-1</u>	19			ZL-D2-CBL19*
<u>F2-8AD4DA-2</u>				ZL-DZ-GBL 19
<u>F2-04RTD⁴</u>	Matched Only		See Note 4	
<u>F2-04THM</u> 4	Matched Only	See Note 4		

Do-m	ore/DL205	PLC Output N	lodule <i>ZIP</i> Link	Selector
PLC		ZIPLink		
Output Module	# of Terms	Component	Module	Cable †
<u>D2-04TD1¹</u>	10	Feedthrough		ZL-D2-CBL10*
<u>D2-08TD1</u>	10	Feedthrough		ZL-D2-CBL10*
<u>D2-08TD2</u>	10	Feedthrough	<u>ZL-RTB20</u>	ZL-D2-CBL10*
D0 16TD1 0	19	Feedthrough		ZL-D2-CBL19*
<u>D2-16TD1-2</u>	19	Fuse	ZL-RFU20 ⁵	ZL-D2-CBL19*
		Feedthrough	ZL-RTB20	ZL-D2-CBL19*
<u>D2-16TD2-2</u>	19	Fuse	ZL-RFU20 ⁵	ZL-D2-CBL19*
		Relay	ZL-RRL16-24-2	ZL-D2-CBL19*
<u>F2-16TD1P</u>	19	Feedthrough	ZL-RTB20	ZL-D2-CBL19*
F2-16TD2P	19	Feedthrough	ZL-RTB20	ZL-D2-CBL19*
		Feedthrough	ZL-RTB40	ZL-D24-CBL40*
<u>D2-32TD1</u> 1	40			ZL-D24-CBL40*X
		Fuse	ZL-RFU40 ⁵	ZL-D24-CBL40*
				ZL-D24-CBL40*X
	40	Feedthrough	ZL-RTB40	ZL-D24-CBL40*
<u>D2-32TD2</u> 1				ZL-D24-CBL40*X
<u> 02-32102</u>		Fuse	ZL-RFU40 ⁵	ZL-D24-CBL40*
				ZL-D24-CBL40*X
<u>D2-08TA</u>	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10*
<u>F2-08TA</u>	10	Feedthrough		ZL-D2-CBL10*
D2-12TA	19	Feedthrough		ZL-D2-CBL19*
<u>DZ-121A</u>	19	Fuse	ZL-RFU20 ⁵	ZL-D2-CBL19*
D2-04TRS ²	10	Feedthrough		ZL-D2-CBL10*
<u>D2-08TR</u>	10	Feedthrough	<u>ZL-RTB20</u>	ZL-D2-CBL10*
F2-08TRS ²	19	Feedthrough		ZL-D2-CBL19*
F2-08TR3	10	Feedthrough		ZL-D2-CBL10*
<u>D2-12TR</u>	19	Feedthrough		ZL-D2-CBL19*
		Fuse	ZL-RFU20 ⁵	ZL-D2-CBL19*

† 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 4Å 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: *ZIP*Link Connector Modules and *ZIP*Link Cables specifications are in the *ZIP*Link catalog section.