



Wiring Solutions

Wiring Solutions using the ZIPLink Wiring System

ZIPLinks eliminate 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, 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.

Solution 1: DirectLOGIC I/O Modules 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.

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: DirectLOGIC I/O Modules to 3rd Party Devices

For connecting 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 starters 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 DirectLOGIC, CLICK, and Productivity3000 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.





PLC I/O Modules to ZIPLink Connector Modules - DL05/06

DL05/06 PLC Input Module ZIPLink Selector				
PLC		ZIPLink		
<i>Input Module</i>	<i># of Terms</i>	<i>Component</i>	<i>Module Part No.</i>	<i>Cable Part No.</i>
<u>DO-10ND3</u>	13	Feedthrough	ZL-RTB20	<u>ZL-D0-CBL13</u>
<u>DO-10ND3F</u>	13	Feedthrough		<u>ZL-D0-CBL24-L</u>
<u>DO-16ND3</u>	24	Feedthrough	ZL-LTB16-24-1	<u>ZL-D0-CBL24-1L</u>
		Sensor		<u>ZL-D0-CBL24-2L</u>
<u>FO-08NA-1</u>	10	See Note 2		

DL05/06 PLC Combo In/Out Module ZIPLink Selector				
PLC		ZIPLink		
Combo Module	# of Terms	Component	Module Part No.	Cable Part No.
DO-07CDR	10	See Note 2		
DO-08CDD1	13	Feedthrough	ZL-RTB20	ZL-D0-CBL13

DL05/06 PLC Analog Module ZIPLink Selector				
PLC		ZIPLink		
Analog Module	# of Terms	Component	Module	Cable
<u>F0-04AD-1</u>	8	See Note 2		
<u>F0-04AD-2</u>	8			
<u>F0-08ADH-1</u>	13	Feedthrough	ZL-RTB20	<u>ZL-D0-CBL13</u>
<u>F0-08ADH-2</u>	13			
<u>F0-04DAH-1</u>	13			
<u>F0-08DAH-1</u>	13			
<u>F0-04DAH-2</u>	13			
<u>F0-08DAH-2</u>	13			
<u>F0-2AD2DA-2</u>	8			
<u>F0-4AD2DA-1</u>	8			
<u>F0-4AD2DA-2</u>	8			
<u>F0-04RTD</u>	Matched Only			
<u>F0-04THM</u>	Matched Only			



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

DL05/06 PLC Output Module ZIPLink Selector				
PLC		ZIPLink		
Output Module	# of Terms	Component	Module Part No.	Cable Part No.
DO-10TD1	13	Feedthrough	ZL-RTB20	ZL-D0-CBL13
DO-16TD1	24	Feedthrough	ZL-RTB20	ZL-D0-CBL24 *
		Fuse	ZL-RFU20 ³	ZL-D0-CBL24 *
		Relay (sinking)	ZL-RRL16-24-1	ZL-D0-CBL24 *
DO-10TD2	13	Feedthrough	ZL-RTB20	ZL-D0-CBL13
DO-16TD2	24	Feedthrough	ZL-RTB20	ZL-D0-CBL24 *
		Fuse	ZL-RFU20 ³	ZL-D0-CBL24 *
		Relay (sourcing)	ZL-RRL16-24-2	ZL-D0-CBL24 *
DO-08TR	10	See Note 2		
FO-04TRS¹	13	Feedthrough	ZL-RTB20	ZL-D0-CBL13

DL05/06 PLC Fixed I/O ZIPLink Selector				
PLC		ZIPLink		
PLC	# of Terms	Component	Module Part No.	Cable Part No.
DL05	18	See Note 2		
DL06	20 (Input side only)	Feedthrough	ZL-RTB20	ZL-D06X-CBL20
	20 (Output side only)	Feedthrough	ZL-RTB20	ZL-D06Y-CBL20

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

¹ Caution: The FO-04TRS relay outputs are derated not to exceed 2A per point when used with the ZIPLink wiring system.

² These modules are not supported by the ZIPLink wiring system.

³ 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.

