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Wiring Solutions

Wiring Solutions using the *ZIP*Link Wiring System

*ZIP*Links 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,

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.

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.

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?

*ZIP*Link 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 color-coded 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 *ZIP*Link Selector

PLC		ZIPLink		
Input Module	# of Terms	Component	Module	Cable †
D2-08ND3	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10 *
D2-16ND3-2	19	Feedthrough	ZL-RTB20	ZL-D2-CBL19 *
		Sensor	ZL-LTB16-24	ZL-D2-CBL19 *
D2-32ND3[1]	40	Feedthrough	ZL-RTB40	ZL-D24-CBL40 *
				ZL-D24-CBL40 *X
		Sensor	ZL-LTB32-24	ZL-D24-CBL40 *
				ZL-D24-CBL40 *X
D2-32ND3-2[1]	40	Feedthrough	ZL-RTB40	ZL-D24-CBL40 *
				ZL-D24-CBL40 *X
		Sensor	ZL-LTB32-24	ZL-D24-CBL40 *
				ZL-D24-CBL40 *X
D2-08NA-1	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10 *
D2-08NA-2	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10 *
D2-16NA	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 *ZIP*Link Selector

PLC		ZIPLink		
Combo Module	# of Terms	Component	Module	Cable
D2-08CDR	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10*
H2-CTRIO2	19	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL19 *

Do-more/DL205 PLC Analog Module *ZIP*Link Selector

PLC		ZIPLink		
Analog Module	# of Terms	Component	Module	Cable
F2-04AD-1	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10*
F2-08AD-1				
F2-04AD-2				
F2-08AD-2				
F2-02DA-1				
F2-02DAS-1				
F2-08DA-1	19			ZL-D2-CBL19*
F2-02DA-2	10			ZL-D2-CBL10*
F2-02DA-2L				
F2-02DAS-2				
F2-08DA-2				
F2-4AD2DA				
F2-8AD4DA-1	19			ZL-D2-CBL19*
F2-8AD4DA-2				
F2-04RTD[4]	Matched Only	See Note 4		
F2-04THM[4]	Matched Only	See Note 4		

Do-more/DL205 PLC Output Module *ZIP*Link Selector

PLC		ZIPLink		
Output Module	# of Terms	Component	Module	Cable †
D2-04TD1[1]	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10*
D2-08TD1	10	Feedthrough		ZL-D2-CBL10*
D2-08TD2	10	Feedthrough		ZL-D2-CBL10*
D2-16TD1-2	19	Feedthrough		ZL-D2-CBL19*
		Fuse	ZL-RFU20[5]	ZL-D2-CBL19*
D2-16TD2-2	19	Feedthrough	ZL-RTB20	ZL-D2-CBL19*
		Fuse	ZL-RFU20[5]	ZL-D2-CBL19*
		Relay	ZL-RRL16-24-2	ZL-D2-CBL19*
F2-16TD1P	19	Feedthrough	ZL-RTB20	ZL-D2-CBL19*
F2-16TD2P	19	Feedthrough	ZL-RTB20	ZL-D2-CBL19*
D2-32TD1[1]	40	Feedthrough	ZL-RTB40	ZL-D24-CBL40*
				ZL-D24-CBL40*X
		Fuse	ZL-RFU40[5]	ZL-D24-CBL40*
				ZL-D24-CBL40*X
D2-32TD2[1]	40	Feedthrough	ZL-RTB40	ZL-D24-CBL40*
				ZL-D24-CBL40*X
		Fuse	ZL-RFU40[5]	ZL-D24-CBL40*
				ZL-D24-CBL40*X
D2-08TA	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10*
F2-08TA	10	Feedthrough		ZL-D2-CBL10*
D2-12TA	19	Feedthrough		ZL-D2-CBL19*
		Fuse	ZL-RFU20[5]	ZL-D2-CBL19*
D2-04TRS[2]	10	Feedthrough	ZL-RTB20	ZL-D2-CBL10*
D2-08TR	10	Feedthrough		ZL-D2-CBL10*
F2-08TRS[2]	19	Feedthrough		ZL-D2-CBL19*
F2-08TR3	10	Feedthrough		ZL-D2-CBL10*
D2-12TR	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 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: *ZIP*Link Connector Modules and *ZIP*Link Cables specifications are in the *ZIP*Link catalog section.