Wiring Solutions

Wiring Solutions using the *ZIP*Link 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 ***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: DirectLOGIC I/O Modules 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: 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 ***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 starters 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.

Wiring Solutions

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, ***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.

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

DL05/06 PLC Input Module *ZIP*Link Selector				
PLC		***ZIP*Link**		
Input Module	***# of Terms***	***Component***	***Module Part No.***	***Cable Part No.***
D0-10ND3	13	Feedthrough	ZL-RTB20	ZL-D0-CBL13
D0-10ND3F	13	Feedthrough		
D0-16ND3	24	Feedthrough		ZL-D0-CBL24-L
		Sensor	ZL-LTB16-24-1	ZL-D0-CBL24-1L ZL-D0-CBL24-2L
F0-08NA-1	10	See Note 2		

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

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

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

DL05/06 PLC Output Module *ZIP*Link Selector				
PLC		***ZIP*Link**		
Output Module	***# of Terms***	***Component***	***Module Part No.***	***Cable Part No.***
D0-10TD1	13	Feedthrough	ZL-RTB20	ZL-D0-CBL13
D0-16TD1	24	Feedthrough	ZL-RTB20	ZL-D0-CBL24 *
		Fuse	ZL-RFU20[3]	ZL-D0-CBL24 *
		Relay (sinking)	ZL-RRL16-24-1	ZL-D0-CBL24 *
D0-10TD2	13	Feedthrough	ZL-RTB20	ZL-D0-CBL13
D0-16TD2	24	Feedthrough	ZL-RTB20	ZL-D0-CBL24 *
		Fuse	ZL-RFU20[3]	ZL-D0-CBL24 *
		Relay (sourcing)	ZL-RRL16-24-2	ZL-D0-CBL24 *
D0-08TR	10	See Note 2		
F0-04TRS[1]	13	Feedthrough	ZL-RTB20	ZL-D0-CBL13

DL05/06 PLC Fixed I/O *ZIP*Link Selector				
PLC		***ZIP*Link**		
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 F0-04TRS relay outputs are derated not to exceed 2A per point when used with the *ZIP*Link wiring system.

[2] These modules are not supported by the *ZIP*Link 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 *ZIP*Link module. ZL-RFU20 = 2A per circuit; ZL-RFU40 = 400mA per circuit.