



# Wiring Solutions

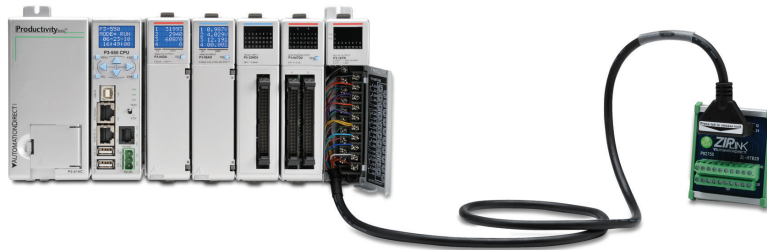
## Wiring Solutions using the ZIPLink Wiring System

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, CLICK and Productivity 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, CLICK and Productivity I/O Modules 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 *DirectLOGIC*, *CLICK*, and *Productivity* 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.





# Motor Controller Communication

AC Drive / Motor Controller (GS/DuraPulse) ZIPLink Selector									
AC Drive / Controller		Communications			ZIPLink Cable				
Controller	Comm Port Type	Network/Protocol	Connects to	Comm Port Type	Cable (2 meter length)	Cable Connectors	Other Hardware Required		
GS1	RJ12	RS-485 Modbus RTU	BRX MPUs	RS-485, 3-Pin	ZL-RJ12-CBL-2P	RJ12 to pigtail	N/A		
			P1 CPUs	RS-485					
			P2 CPUs						
			P3 CPUs						
			P2-SCM	RS-485, 4-Pin					
			P3-SCM						
			DL06 PLCs	Port 2 (HD15)	GS-485HD15-CBL-2	RJ12 to HD15			
			D2-260, D2-262 CPU	RJ12	GS-EDRV-CBL-2	RJ12 to RJ12			
			GS-EDRV100						
			ZL-CDM-RJ12Xxx *	RJ12	GS-ISOCON-CBL-2	RJ12 to 5-pin plug			
FA-ISOCON	5-pin connector								
GS2	RJ12	RS-232 Modbus RTU	BRX MPUs	RS-232/485, 3-Pin	ZL-RJ12-CBL-2P	RJ12 to pigtail	N/A		
			P1 CPUs	RS-485					
			P2 CPUs						
			P3 CPUs						
			P2-SCM	Ports 1, 2 & 3					
			P3-SCM	Ports 1 to 4					
			CLICK PLCs	Port 2 (RJ12)	GS-RJ12-CBL-2	RJ12 to RJ12			
			DL05 PLCs						
			DL06 PLCs	Port 2 (HD15)	GS-RJ12-CBL-2	RJ12 to RJ12			
			D2-250-1 CPU						
		D2-260, D2-262 CPU	Port 3 (25-pin)	GS-RJ12-CBL-2	RJ12 to RJ12				
		D4-450, D4-454 CPU							
		RS-485 Modbus RTU			BRX MPUs	RS-232/485, 3-Pin	ZL-RJ12-CBL-2P	RJ12 to pigtail	N/A
					P1 CPUs	RS-485			
					P2 CPUs				
					P3 CPUs				
					P2-SCM	RS-485, 4-Pin			
					P3-SCM				
					DL06 PLCs	Port 2 (HD15)	GS-485HD15-CBL-2	RJ12 to HD15	
					D2-260, D2-262 CPU	RJ12	GS-EDRV-CBL-2	RJ12 to RJ12	
GS-EDRV100									
ZL-CDM-RJ12Xxx *	RJ12				GS-ISOCON-CBL-2	RJ12 to 5-pin plug			
FA-ISOCON		5-pin connector							
DuraPulse (GS3)	RJ12	RS-485 Modbus RTU	BRX MPUs	RS-485, 3-Pin	ZL-RJ12-CBL-2P	RJ12 to pigtail	N/A		
			P1 CPUs	RS-485					
			P2 CPUs						
			P3 CPUs						
			P2-SCM	RS-485, 4-Pin					
			P3-SCM						
			DL06 PLCs	Port 2 (HD15)	GS-485HD15-CBL-2	RJ12 to HD15			
			D2-260, D2-262 CPU	RJ12	GS-EDRV-CBL-2	RJ12 to RJ12			
			GS-EDRV100						
			ZL-CDM-RJ12Xxx *	RJ12	GS-ISOCON-CBL-2	RJ12 to 5-pin plug			
FA-ISOCON	5-pin Connector								

\* When using the ZL-CDM-RJ12Xxx ZIPLink Communication Distribution Module, replace the lowercase xx with the number of RJ12 ports, i.e. 4 for four ports or 10 for ten ports. (ex: ZL-CDM-RJ12X4 or ZL-CDM-RJ12X10)