



# Wiring Solutions

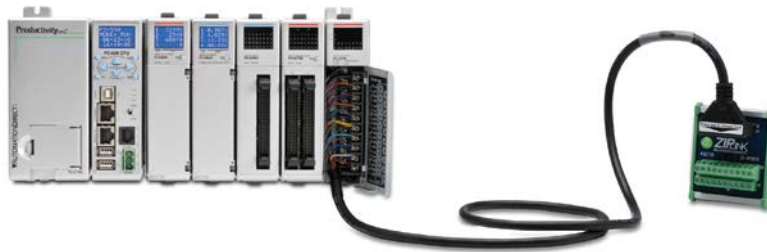
## Wiring Solutions using the ZIPLink Wiring System

**ZIPLink**s 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 *Direct*LOGIC, 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<br>(2 meter length) | Cable<br>Connectors | Other Hard-<br>ware 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-485RJ12-CBL-2          | RJ12 to 5-pin plug  |                              |                 |     |  |  |
| FA-ISOCOCON                                                 | 5-pin connector | GS-ISOCOCON-CBL-2                                                                                                                                                                                                   |                    |                   |                           |                     |                              |                 |     |  |  |
| 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        | FA-15HD                      |                 |     |  |  |
|                                                             |                 |                                                                                                                                                                                                                     | DL05 PLCs          |                   |                           |                     |                              |                 |     |  |  |
|                                                             |                 |                                                                                                                                                                                                                     | DL06 PLCs          | Port 2 (HD15)     |                           |                     |                              |                 |     |  |  |
|                                                             |                 |                                                                                                                                                                                                                     | D2-250-1 CPU       |                   |                           |                     |                              |                 |     |  |  |
|                                                             |                 | D2-260, D2-262 CPU                                                                                                                                                                                                  |                    |                   |                           |                     |                              |                 |     |  |  |
|                                                             |                 | D4-450, D4-454 CPU                                                                                                                                                                                                  | Port 3 (25-pin)    |                   |                           |                     |                              |                 |     |  |  |
|                                                             |                 | 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-485RJ12-CBL-2          | RJ12 to 5-pin plug  |                              |                 |     |  |  |
|                                                             |                 |                                                                                                                                                                                                                     | FA-ISOCOCON        | 5-pin connector   | GS-ISOCOCON-CBL-2         |                     |                              |                 |     |  |  |
| DuraPulse<br>(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-485RJ12-CBL-2          | RJ12 to 5-pin plug  |                              |                 |     |  |  |
|                                                             |                 | FA-ISOCOCON                                                                                                                                                                                                         |                    | 5-pin Connector   | GS-ISOCOCON-CBL-2         |                     |                              |                 |     |  |  |
|                                                             |                 | * 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) |                    |                   |                           |                     |                              |                 |     |  |  |

\* 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)