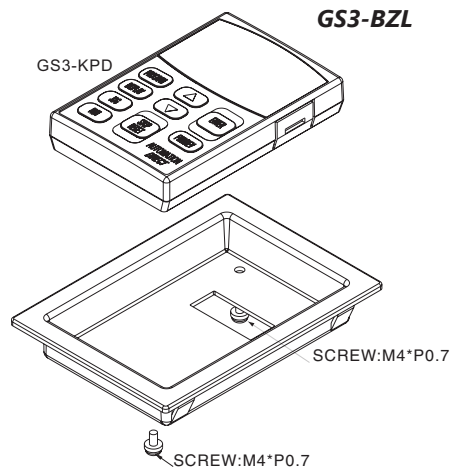
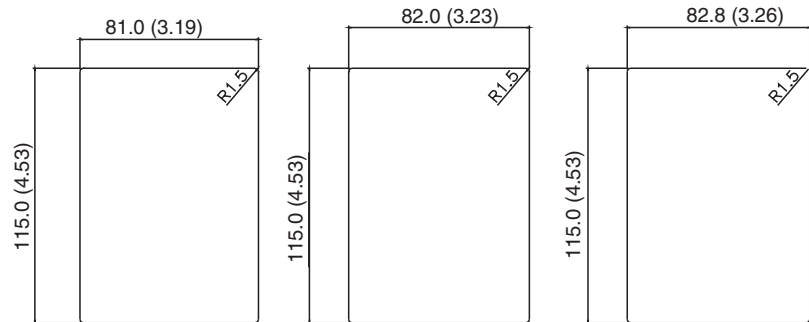


# GS1,GS2,GS3/DURApulse Accessories – Miscellaneous

**GS3-KPD****ZL-CDM-RJ12x4****ZL-CDM-RJ12x10****GS3-BZL**

The GS3-BZL Flush Mount Bezel Kit allows remote mounting of the DURApulse removable keypad. The Bezel Kit has a Protected Chassis, IP20 enclosure rating. The thickness of the panel will determine required hole dimensions:

$t = 1.0 (.0393) - 1.4 (.0551)$      $t = 1.6 (.629) - 2.0 (.0787)$      $t = 2.2 (.0866) - 3.0 (.1181)$

**GS-CBL2-1L****GS-CBL2-5L**

GS1, GS2, GS3/DURApulse Drives Miscellaneous Accessories			
Part Number	Drive Model	Description	Price
<b>GS-CBL2-1L</b>	GS2, GS3/DURApulse	One meter keypad cable (installation screws included)	\$18.00
<b>GS-CBL2-3L</b>	GS2, GS3/DURApulse	Three meter keypad cable (installation screws included)	\$23.50
<b>GS-CBL2-5L</b>	GS2, GS3/DURApulse	Five meter keypad cable (installation screws included)	\$28.00
<b>GS3-KPD</b>	GS3/DURApulse	Spare or replacement keypad for DURApulse AC drives; great for maintenance or back-up programs	\$78.00
<b>GS3-BZL</b>	GS3/DURApulse	Flush Mount Bezel Kit for remote mounting of the DURApulse removable keypad	\$16.00
<b>ZL-CDM-RJ12x4</b>	GS1, GS2, GS3/DURApulse	ZIPLink 4-port communication distribution module, 4 RJ12 ports, and 1 screw terminal port	\$29.00
<b>ZL-CDM-RJ12x10</b>	GS1, GS2, GS3/DURApulse	ZIPLink 10-port communication distribution module, 10 RJ12 ports, and 1 screw terminal port	\$36.50

Optional ZipLink serial communication cables available for plug and play connectivity to AutomationDirect PLCs. See the comm cable selection matrix on page [pg.tGSX-171](#).

# GS3/DURAPULSE Accessories – Replacement Parts

GS3/DURAPULSE AC drives 3 hp and larger have built-in cooling fans, and replacement fans are also available. These fans are direct replacements for the internal factory-installed fans.



**WARNING: FAN REPLACEMENT SHOULD ONLY BE PERFORMED BY PERSONNEL SKILLED IN THE DISASSEMBLY AND REPAIR OF VARIABLE FREQUENCY AC DRIVES.**



Note: Installation instructions are included with the fans.

Replacement Fans for DURApulse (GS3 Series) AC Drives					
Part Number <sup>(1)</sup>	Price	Specifications <sup>(2)</sup>	Fans / Drive <sup>(3)</sup>	GS3 Drive Model <sup>(4)</sup>	Drive V / HP
<u><a href="#">GS-FAN-1</a></u>	\$27.50	50 mm, 12 VDC, 0.25A	1	GS3-43P0	460 / 3
<u><a href="#">GS-FAN-2</a></u>	\$30.00	60 mm, 12 VDC, 0.25A	1	GS3-23P0	230 / 3
<u><a href="#">GS-FAN-3</a></u>	\$30.00	80 mm, 12 VDC, 0.42A	2	GS3-4010	460 / 10
<u><a href="#">GS-FAN-4</a></u>	\$44.50	92 mm, 24 VDC, 0.30A	2	GS3-2020 GS3-2030 GS3-4020	230 / 20 230 / 30 460 / 20
<u><a href="#">GS-FAN-5</a></u>	\$111.00	120 mm, 24 VDC, 1.2A	2	GS3-2040 GS3-2050 GS3-4040 GS3-4060 GS3-4100	230 / 40 230 / 50 460 / 40 460 / 60 460 / 100
<p>1) One fan per part number. Includes connectorized electrical cable and installation instructions.</p> <p>2) Fans are replacements for the internal fans in GS3 drives, are dimensionally and electrically equivalent to the originals, and are not intended for other use. Fan electrical loading is included in the input amperage ratings of the drives, and DC voltage is internally provided by the drives.</p> <p>3) Some drives require multiple fans.</p> <p>4) Can be used only with applicable DURAPULSE AC drive.</p>					



# Wiring Solutions

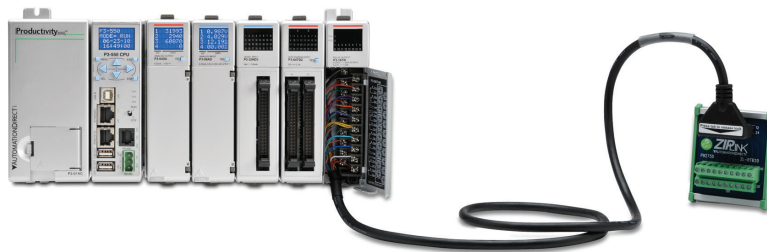
## Wiring Solutions using the ZIPLink Wiring System

**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.





# Wiring Solutions

## **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 (2 meter length)	Cable Connectors	Other Hard- 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	GS-485HD15-CBL-2	RJ12 to HD15			
			P3-SCM						
			DL06 PLCs	Port 2 (HD15)	GS-EDRV-CBL-2	RJ12 to RJ12			
			D2-260, D2-262 CPU	RJ12	GS-485RJ12-CBL-2				
			GS-EDRV100	RJ12	GS-ISOCON-CBL-2	RJ12 to 5-pin plug			
ZL-CDM-RJ12Xxx *	RJ12								
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	GS-RJ12-CBL-2	RJ12 to RJ12	FA-15HD		
			P3-SCM	Ports 1 to 4					
			CLICK PLCs	Port 2 (RJ12)					
			DL05 PLCs						
			DL06 PLCs	Port 2 (HD15)					
		D2-250-1 CPU							
		D2-260, D2-262 CPU	Port 3 (25-pin)			FA-CABKIT			
		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	GS-485HD15-CBL-2	RJ12 to HD15			
			P3-SCM						
DL06 PLCs	Port 2 (HD15)		GS-EDRV-CBL-2	RJ12 to RJ12					
D2-260, D2-262 CPU	RJ12		GS-485RJ12-CBL-2						
GS-EDRV100	RJ12		GS-ISOCON-CBL-2	RJ12 to 5-pin plug					
ZL-CDM-RJ12Xxx *	RJ12								
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	GS-485HD15-CBL-2	RJ12 to HD15			
			P3-SCM						
			DL06 PLCs	Port 2 (HD15)				GS-EDRV-CBL-2	RJ12 to RJ12
			D2-260, D2-262 CPU	RJ12				GS-485RJ12-CBL-2	
			GS-EDRV100	RJ12				GS-ISOCON-CBL-2	RJ12 to 5-pin plug
			ZL-CDM-RJ12Xxx *	RJ12					
			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)

\* 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)