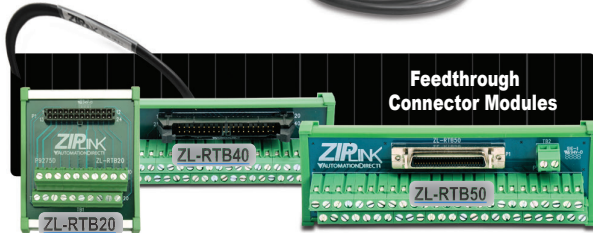


AutomationDirect Controllers and ZIPLinks



Modules



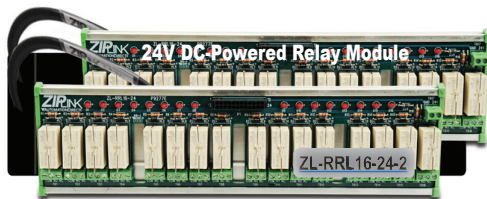
**Feedthrough
Connector Modules**

Feedthrough modules provide low-cost and compact field wiring screw termination solutions for quickly connecting Link cables with PLCs.



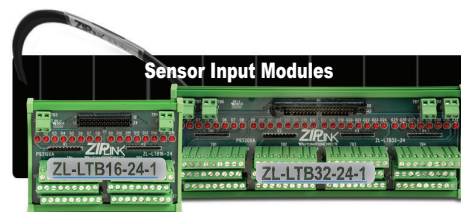
Fused Modules

Fuse modules provide a means to add fuse protection to PLC output devices. The 16 and 32 point fuse modules provide easy accessible fuse holders that accept standard 5x20 mm fuses. Fuses not included.



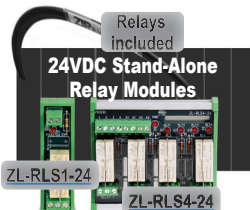
ZL-RRL16-24-1 (sink and source models available)

Our DC-powered relay module provides isolation, switches high current (10A) loads, is offered in 16 points, and includes diode protection to prevent voltage spikes at the relay coil from damaging connected PLC I/O



Sensor Input Modules

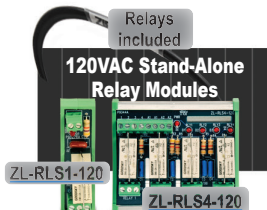
LED modules provide simple and logical termination for 3-wire sensors or other devices. These modules offer visual LED indication of device input status for quick troubleshooting. The LED/sensor modules are available in 16 and 32-point versions.



**Relays
included**

**24VDC Stand-Alone
Relay Modules**

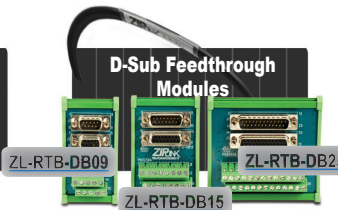
24 VDC stand-alone relay modules use plug-in relays for switching high current (10A) loads.



**Relays
included**

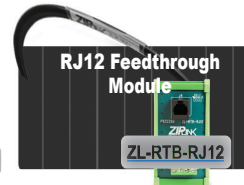
**120VAC Stand-Alone
Relay Modules**

120 VAC Stand alone relay modules use plug-in relays for switching high current (10A) loads.



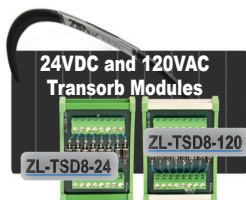
**D-Sub Feedthrough
Modules**

These connector modules provide a fast and convenient method of transitioning between D-Sub connectors and field wiring devices.



**RJ12 Feedthrough
Module**

The RJ12 feedthrough module provides convenient break-out of wiring to terminal blocks.



**24VDC and 120VAC
Transorb Modules**

8-channel devices used to suppress counter-electromotive force (CEMF) generated by switching inductive loads which can cause unexpected PLC system shutdown.



**Communication
Distribution Modules**

The RJ12 multi-port distribution modules allow for fast and convenient RS485 multi-drop connections.



**Communications
Port Adapters**

Communication adaptors eliminate the hassle associated with connecting crimp or solder connectors to PLC communication ports.

Modules mount on 35mm DIN rail part # DN-R35S1 or 15mm DIN rail part #DN-R15S1.

See DIN Rail and Accessories earlier in this section

Cables

• Pre-wired • Ready-to-wire • D-Subminiature • and more!

ZIPLink cables are available in a number of pre-wired and ready-to-wire configurations that accommodate the majority of our PLC I/O modules.





Wiring Solutions

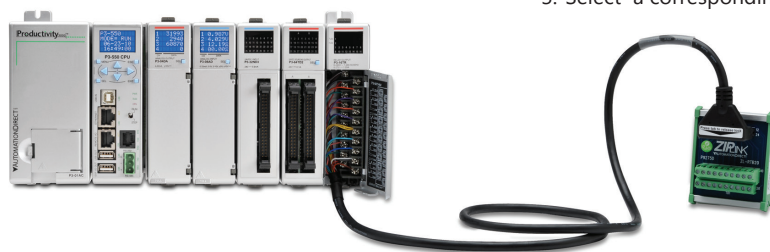
Wiring Solutions using the ZIPLink Wiring System

ZIPLinks eliminate the normally tedious process of wiring between devices by utilizing pre-wired 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. Pre-wired 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, as well as special 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: Do-more, DirectLOGIC, CLICK and Productivity Series 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: Do-more, DirectLOGIC, CLICK and Productivity Series I/O Modules to 3rd Party Devices

When wanting to connect I/O to another device within 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.



ZIP LINK™ Wiring Solutions

AUTOMATIONDIRECT

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.

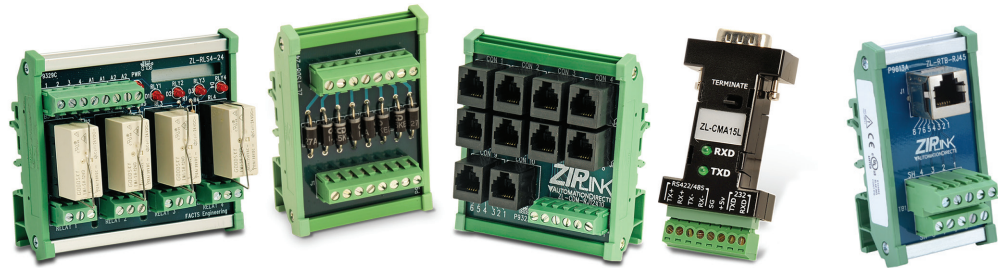


Solution 5: Specialty ZIPLink Modules

For additional application solutions, **ZIPLink** modules are available in a variety of configurations including stand-alone relays, 24VDC and 120VAC transorb modules, D-sub, RJ12 and RJ45 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.





CPU I/O Modules to ZIPLink Connector Modules – BRX MPUs



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

BX 36/36E MPUs ZIPLink Selector			
Part No.	Feedthrough Modules	Cable Part No. *	Max Qty Needed
BX-DM1-36ED1	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	ZL-BX-CBL15 ZL-BX-CBL15-1 ZL-BX-CBL15-2	4
BX-DM1-36ED1-D			
BX-DM1-36ED2			
BX-DM1-36ED2-D			
BX-DM1-36ER **			
BX-DM1-36ER-D **			
BX-DM1-36AR**			
BX-DM1E-36ED13			
BX-DM1E-36ED13-D			
BX-DM1E-36ED23			
BX-DM1E-36ED23-D			
BX-DM1E-36ER3 **			
BX-DM1E-36ER3-D **			
BX-DM1E-36AR3 **			

* Cable Length: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

** The relay outputs are derated not to exceed 2A per common when used with the ZIPLink wiring system.



BX 18/18E MPUs ZIPLink Selector			
Part Number	Feedthrough Modules	Cable Part No. *	Max Qty Needed
BX-DM1-18ED1	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	ZL-BX-CBL15 ZL-BX-CBL15-1 ZL-BX-CBL15-2	2
BX-DM1-18ED1-D			
BX-DM1-18ED2			
BX-DM1-18ED2-D			
BX-DM1-18ER**			
BX-DM1-18ER-D**			
BX-DM1-18AR**			
BX-DM1E-18ED13			
BX-DM1E-18ED13-D			
BX-DM1E-18ED23			
BX-DM1E-18ED23-D			
BX-DM1E-18ER3**			
BX-DM1E-18ER3-D**			
BX-DM1E-18AR3**			

* Cable Length: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

** The relay outputs are derated not to exceed 2A per common when used with the ZIPLink wiring system.



BX 10/10E MPUs ZIPLink Selector			
Part Number	Feedthrough Modules	Cable Part No. *	Max Qty Needed
BX-DM1-10ED1-D	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	ZL-BX-CBL20 ZL-BX-CBL20-1 ZL-BX-CBL20-2	1
BX-DM1-10ED2-D			
BX-DM1-10ER-D**			
BX-DM1-10AR-D**			
BX-DM1E-10ED13-D			
BX-DM1E-10ED23-D			
BX-DM1E-10ER3-D**			
BX-DM1E-10AR3-D**			

* Cable Length: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

** The relay outputs are derated not to exceed 2A per common when used with the ZIPLink wiring system.





CPU I/O Modules to ZIPLink Connector Modules - BRX Expansion Modules



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

8-Point BRX Digital Expansion Module ZIPLink Selector			
Expansion Module Part No.	Feedthrough Modules	Cable Part No. *	Qty Needed
<i>BX-08ND3</i>	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	ZL-BXEM-CBL10 ZL-BXEM-CBL10-1 ZL-BXEM-CBL10-2	1
<i>BX-08NF3</i>			
<i>BX-08NA</i>			
<i>BX-08NB</i>			
<i>BX-08TD1</i>			
<i>BX-08TD2</i>			
<i>BX-08TR**</i>			
<i>BX-08TRZ**</i>			
<i>BX-08TA</i>			
<i>BX-08CD3R**</i>			

* Cable Length: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

** The relay outputs are derated not to exceed 2A per common when used with the ZIPLink wiring system.

12- & 5-Point BRX Digital Expansion Module ZIPLink Selector			
Expansion Module Part No.	Feedthrough Modules	Cable Part No. *	Qty Needed
<i>BX-12ND3</i>	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	ZL-BXEM-CBL15 ZL-BXEM-CBL15-1 ZL-BXEM-CBL15-2	1
<i>BX-12NA</i>			
<i>BX-12NB</i>			
<i>BX-12TD1</i>			
<i>BX-12TD2</i>			
<i>BX-12TR**</i>			
<i>BX-05TRS</i>			
<i>BX-12TA</i>			
<i>BX-12CD3D1</i>			
<i>BX-12CD3D2</i>			

* Cable Length: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

** The relay outputs are derated not to exceed 2A per common when used with the ZIPLink wiring system.

BRX 16-Point and 32-Point Discrete Expansion Module ZIPLink selection tables are shown on next page.

8-Point BRX Digital Expansion Module ZIPLink Selector			
Expansion Module Part No.	Feedthrough Modules	Cable Part No. *	Qty Needed
<i>BX-HS104</i>	ZL-RTB40 (Standard) OR ZL-RTB40-1 (Compact)	ZL-BX-CBL40-S ZL-BX-CBL40-1S	1

BRX Analog Expansion Module ZIPLink Selector			
Expansion Module Part No.	Feedthrough Modules	Cable Part No. *	Qty Needed
<i>BX-04ADM-1</i>	<u>ZL-RTB20</u> (Standard) OR <u>ZL-RTB20-1</u> (Compact)	ZL-BXEM-CBL20 ZL-BXEM-CBL20-1 ZL-BXEM-CBL20-2	1
<i>BX-04AD-1</i>			
<i>BX-04AD-2B</i>			
<i>BX-08AD-1</i>			
<i>BX-08AD-2B</i>			
<i>BX-04DA-1</i>			
<i>BX-04DA-2B</i>			
<i>BX-08DA-1</i>			
<i>BX-08DA-2B</i>			
<i>BX-16DA-1</i>			
<i>BX-16DA-2B</i>			
<i>BX-2AD2DA-1</i>			
<i>BX-4AD2DA-1</i>			
<i>BX-2AD2DA-2B</i>			
<i>BX-4AD2DA-2B</i>			
<i>BX-04THM</i>	Temperature Input modules are not supported by the ZIPLink wiring system.		
<i>BX-08THM</i>			
<i>BX-06RTD</i>			
<i>BX-08NTC</i>			
<i>BX-4THM4DA-1</i>			
<i>BX-4RTD4DA-1</i>			

* Cable Length: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.



BRX CPU with expansion modules and ZIPLink ZL-RTB20 feedthrough module.



CPU I/O Modules to ZIPLink Connector Modules - BRX Expansion Modules

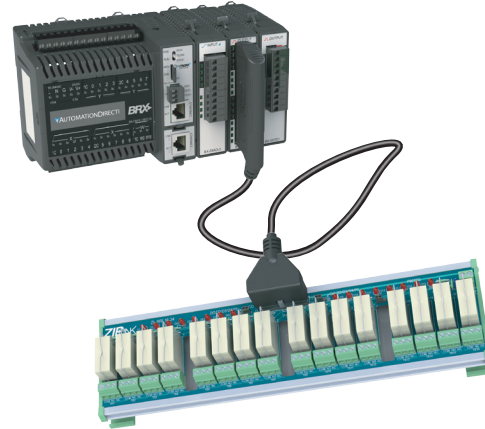


Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

16-Point BRX Expansion Module ZIPLink Selector					
Expansion Module Part	# of Terms	Component	Part No.	Cable Part No. *	
BX-16ND3	18	Sensor	ZL-LTB16-24-1	ZL-BXEM-CBL20 ZL-BXEM-CBL20-1 ZL-BXEM-CBL20-2	
BX-16NF3		Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)		
BX-16NA					
BX-16NB					
BX-16TD1		Feedthrough			
		Relay (Sinking)	ZL-RRL16-24-1 ZL-RRL16W-24-1 ZL-RRL16F-24-1 ZL-RRL16HDF-24-1		
BX-16TD2		Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)		
		Relay (Sourcing)	ZL-RRL16-24-2 ZL-RRL16W-24-2 ZL-RRL16F-24-2		
BX-16TF2		Feedthrough			ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)
BX-16TR**					
BX-16TRZ**					
BX-16CD3D1					
BX-16CD3D2					
BX-16CF3F2					

* Cable Length: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

** The relay outputs are derated not to exceed 2A per common when used with the ZIPLink wiring system.



BRX CPU with expansion modules and ZIPLink [ZL-RRL16-24-1](#) relay module.

32-Point BRX Expansion Module ZIPLink Selector				
Expansion Module Part No.	Component	Part No.	Cable Part No. *	Qty Needed
BX-32ND3	Sensor	ZL-LTB32-24-1	ZL-D24-CBL40 ZL-D24-CBL40-1 ZL-D24-CBL40-2	1
BX-32TD1	Feedthrough	ZL-RTB40 (Standard) OR ZL-RTB40-1 (Compact)	ZL-D24-CBL40-1XP ZL-D24-CBL40-2XP ZL-D24-CBL40-2P	
BX-32TD2	Feedthrough			

* Select the cable length: Blank = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

Suffix -X indicates 45° cable connector angle. Non -X indicates 180° cable connector angle.



CPU I/O Modules to ZIPLink Connector Modules – CLICK



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

CLICK CPU Module ZIPLink Selector				
CPU Module	ZIPLink			
	# of Terms	Component	Module Part No.	Cable Part No.
C0-00DD1-D	20	Feedthrough	ZL-RTB20 (-1)	ZL-C0-CBL20 ZL-C0-CBL20-1 ZL-C0-CBL20-2
C0-00DD2-D				
C0-00DR-D				
C0-00AR-D				
C0-01DD1-D				
C0-01DD2-D				
C0-01DR-D				
C0-01AR-D				
Analog CPUs	No ZIPLinks are available for analog CPU modules.			

CLICK Ethernet CPU Module ZIPLink Selector				
CPU Module	ZIPLink			
	# of Terms	Component	Module Part No.	Cable Part No.
<u>C0-10DD1E-D</u>	20	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-C0-CBL20</u> <u>ZL-C0-CBL20-1</u> <u>ZL-C0-CBL20-2</u>
<u>C0-10DD2E-D</u>				
<u>C0-10DRE-D</u>				
<u>C0-10ARE-D</u>				
<u>C0-11DD1E-D</u>				
<u>C0-11DD2E-D</u>				
<u>C0-11DRE-D</u>				
<u>C0-11ARE-D</u>				
Analog CPUs	No ZIPLinks are available for analog CPU modules.			



Note: ZIPLink Connector Module specifications follow the Compatibility Matrix tables.
ZIPLink Cable specifications are at the end of this ZIPLink section.





CPU I/O Modules to ZIPLink Connector Modules – CLICK



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

CLICK CPU Discrete Input Module ZIPLink Selector				
I/O Input Module	ZIPLink			
	# of Terms	Component	Module Part No.	Cable Part No.
C0-08ND3	11	Feedthrough	ZL-RTB20 (-1)	ZL-C0-CBL11
C0-08ND3-1				ZL-C0-CBL11-1
C0-08NE3				ZL-C0-CBL11-2
C0-08NA				
C0-16ND3	20	Feedthrough	ZL-RTB20 (-1)	ZL-C0-CBL20
		Sensor	ZL-LTB16-24-1	ZL-C0-CBL20-1
		Feedthrough	ZL-RTB20 (-1)	ZL-C0-CBL20-2
C0-16NE3		Sensor	ZL-LTB16-24-1	

CLICK CPU Combo I/O Module ZIPLink Selector				
I/O Combo Module	ZIPLink			
	# of Terms	Component	Module Part No.	Cable Part No.
C0-16CDD1	20	Feedthrough	ZL-RTB20 (-1)	ZL-C0-CBL20
C0-16CDD2				ZL-C0-CBL20-1
				ZL-C0-CBL20-2
C0-08CDR	11			ZL-C0-CBL11
				ZL-C0-CBL11-1
				ZL-C0-CBL11-2

CLICK CPU Analog I/O Module ZIPLink Selector				
I/O Analog Module	ZIPLink			
	# of Terms	Component	Module Part No.	Cable Part No.
<u>C0-04AD-1</u>	11	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-C0-CBL11</u>
<u>C0-04AD-2</u>				<u>ZL-C0-CBL11-1</u> <u>ZL-C0-CBL11-2</u>
<u>C0-04RTD</u>	20	No ZIPLinks are available for RTD and thermocouple modules.		
<u>C0-04THM</u>	11			
<u>C0-04DA-1</u>	11	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-C0-CBL11</u>
<u>C0-04DA-2</u>				<u>ZL-C0-CBL11-1</u> <u>ZL-C0-CBL11-2</u>
<u>C0-4AD2DA-1</u>	20			<u>ZL-C0-CBL20</u>
<u>C0-4AD2DA-2</u>				<u>ZL-C0-CBL20-1</u> <u>ZL-C0-CBL20-2</u>

CLICK CPU Discrete Output Module ZIPLink Selector				
I/O Output Module	ZIPLink			
	# of Terms	Component	Module Part No.	Cable Part No.
<u>C0-08TD1</u>	11	Feedthrough	ZL-RTB20 (-1)	<u>ZL-C0-CBL11</u>
<u>C0-08TD2</u>				<u>ZL-C0-CBL11-1</u>
<u>C0-08TR</u>				<u>ZL-C0-CBL11-2</u>
<u>C0-08TA</u>				
<u>C0-16TD1</u>	20	Feedthrough	<u>ZL-RFU20</u> ²	<u>ZL-C0-CBL20</u> <u>ZL-C0-CBL20-1</u> <u>ZL-C0-CBL20-2</u>
		Fuse		
		Relay (sinking)	<u>ZL-RRL16-24-1</u> <u>ZL-RRL16W-24-1</u> <u>ZL-RRL16F-24-1</u> <u>ZL-RRL16HDF-24-1</u>	
<u>C0-16TD2</u>		Feedthrough	<u>ZL-RTB20</u> (-1)	
		Fuse	<u>ZL-RFU20</u> ²	
		Relay (sourcing)	<u>ZL-RRL16-24-2</u> <u>ZL-RRL16W-24-2</u> <u>ZL-RRL16F-24-2</u>	
<u>C0-04TRS</u> ¹		Feedthrough	<u>ZL-RTB20</u> (-1)	

¹ The [C0-04TRS](#) relay output is derated not to exceed 2A per point maximum when used with the ZIPLink wiring system.

² 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.



Note: ZIPLink Connector Module specifications follow the Compatibility Matrix tables. ZIPLink Cable specifications are at the end of this ZIPLink section.





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



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

DL05/06 PLC Input Module ZIPLink Selector				
PLC	ZIPLink			
Input Module	# of Terms	Component	Module Part No.	Cable Part No.
D0-10ND3	13	Feedthrough	ZL-RTB20 (-1)	ZL-D0-CBL13
D0-10ND3F				
D0-16ND3 †	24	Feedthrough		ZL-D0-CBL24-L ZL-D0-CBL24-1L ZL-D0-CBL24-2L
		Sensor	ZL-LTB16-24-1	
F0-08NA-1	10	Not supported by the ZIPLink wiring system.		

† Select the cable length: L = 0.5m, 1L = 1.0m, or 2L = 2.0m.

DL05/06 PLC Combo In/Out Module ZIPLink Selector				
PLC	ZIPLink			
Combo Module	# of Terms	Component	Module Part No.	Cable Part No.
D0-07CDR	10	Not supported by the ZIPLink wiring system.		
D0-08CDD1	13	Feedthrough	ZL-RTB20 (-1)	ZL-D0-CBL13

DL05/06 PLC Analog Module ZIPLink Selector				
PLC	ZIPLink			
Analog Module	# of Terms	Component	Module	Cable
<u>F0-04AD-1</u>	8	These modules are not supported by the ZIPLink wiring system.		
<u>F0-04AD-2</u>				
<u>F0-08ADH-1</u>	13	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-D0-CBL13</u>
<u>F0-08ADH-2</u>				
<u>F0-04DAH-1</u>				
<u>F0-08DAH-1</u>				
<u>F0-04DAH-2</u>				
<u>F0-08DAH-2</u>				
<u>F0-2AD2DA-2</u>	8	These modules are not supported by the ZIPLink wiring system.		
<u>F0-4AD2DA-1</u>				
<u>F0-4AD2DA-2</u>				
<u>F0-04RTD</u>	Matched Only	These modules are not supported by the ZIPLink wiring system.		
<u>F0-04THM</u>				

DL05/06 PLC Output Module ZIPLink Selector				
PLC	ZIPLink			
Output Module	# of Terms	Component	Module Part No.	Cable Part No.
<u>D0-10TD1</u>	13	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-D0-CBL13</u>
<u>D0-16TD1</u>	24	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-D0-CBL24</u> <u>ZL-D0-CBL24-1</u> <u>ZL-D0-CBL24-2</u>
		Fuse	<u>ZL-RFU20</u> 2	
		Relay (sinking)	<u>ZL-RRL16-24-1</u> <u>ZL-RRL16W-24-1</u> <u>ZL-RRL16F-24-1</u> <u>ZL-RRL16HDF-24-1</u>	
<u>D0-10TD2</u>	13	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-D0-CBL13</u>
<u>D0-16TD2</u>	24	Feedthrough		<u>ZL-D0-CBL24</u> <u>ZL-D0-CBL24-1</u> <u>ZL-D0-CBL24-2</u>
		Fuse	<u>ZL-RFU20</u> 2	
		Relay (sourcing)	<u>ZL-RRL16-24-2</u> <u>ZL-RRL16W-24-2</u> <u>ZL-RRL16F-24-2</u>	
<u>D0-08TR</u>	10	Not supported by the ZI PLink wiring system.		
<u>F0-04TRS[†]</u>	13	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-D0-CBL13</u>

DL05/06 PLC Fixed I/O ZIPLink Selector				
PLC	ZIPLink			
	# of Terms	Component	Module Part No.	Cable Part No.
DL05	18	Not supported by the ZIPLink wiring system.		
DL06 **	20 (Input side only)	Feedthrough	ZL-RTB20 (-1)	ZL-D06X-CBL20
	20 (Output side only)			ZL-D06Y-CBL20

All Tables Notes:

* Select the cable length by replacing the * with: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

** Input side only connects X0 through X17. X20 thru X23 will have to be hand wired if used. Output side the power and auxiliary power terminals will have to be hand wired.

[†] Caution: The F0-04TRS relay outputs are derated not to exceed 2A per point when used with the ZIPLink wiring system.

² 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: ZIPLink Connector Module specifications follow the Compatibility Matrix tables. ZIPLink Cables specifications are at the end of this ZIPLink section.





PLC I/O Modules to ZIPLink Connector Modules – Do-more!/DL205

Do-more / DL205 PLC Input Module ZIPLink Selector				
PLC	ZIPLink			
Input Module	# of Terms	Component	Module Part No.	Cable Part No. †
D2-08ND3	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10 *
D2-16ND3-2	19	Feedthrough		ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2
		Sensor	ZL-LTB16-24-1	
D2-32ND3 ¹	40	Feedthrough	ZL-RTB40 (-1)	180 deg conn: ZL-D24-CBL40 ZL-D24-CBL40-1 ZL-D24-CBL40-2
		Sensor	ZL-LTB32-24-1	
D2-32ND3-2 ¹	40	Feedthrough	ZL-RTB40 (-1)	45 deg conn: ZL-D24-CBL40-X ZL-D24-CBL40-1X ZL-D24-CBL40-2X
		Sensor	ZL-LTB32-24-1	
D2-08NA-1	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10 ZL-D2-CBL10-1 ZL-D2-CBL10-2
D2-08NA-2	10			
D2-16NA	19	Feedthrough		ZL-D2-CBL19 *

† X in the part number represents a 45° angle.

Do-more/DL205 PLC Combo In/Out Module ZIPLink Selector				
PLC	ZIPLink			
Combo Module	# of Terms	Component	Module Part No.	Cable Part No.
D2-08CDR	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10 *
H2-CTRI02	19	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL19 *

Do-more/DL205 PLC Analog Module ZIPLink Selector					
PLC	ZIPLink				
Analog Module	# of Terms	Component	Module	Cable	
<u>F2-04AD-1</u>	10	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-D2-CBL10</u> <u>ZL-D2-CBL10-1</u> <u>ZL-D2-CBL10-2</u>	
<u>F2-08AD-1</u>					
<u>F2-04AD-2</u>					
<u>F2-08AD-2</u>					
<u>F2-02DA-1</u>					
<u>F2-02DA-1L</u>					
<u>F2-02DAS-1</u>					
<u>F2-08DA-1</u>				<u>ZL-D2-CBL19</u> <u>ZL-D2-CBL19-1</u> <u>ZL-D2-CBL19-2</u>	
<u>F2-02DA-2</u>					
<u>F2-02DA-2L</u>					
<u>F2-02DAS-2</u>				<u>ZL-D2-CBL10</u> <u>ZL-D2-CBL10-1</u> <u>ZL-D2-CBL10-2</u>	
<u>F2-08DA-2</u>					
<u>F2-4AD2DA</u>					
<u>F2-8AD4DA-1</u>	19				<u>ZL-D2-CBL19</u> <u>ZL-D2-CBL19-1</u> <u>ZL-D2-CBL19-2</u>
<u>F2-8AD4DA-2</u>					
<u>F2-04RTD</u>	Matched Only	These modules are not supported by the ZIPLink wiring system			
<u>F2-04THM</u>					

Do-more/ DL205 PLC Output Module ZIPLink Selector				
PLC	ZIPLink			
Output Module	# of Terms	Component	Module Part No.	Cable Part No. †
D2-04TD1 ²	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10 ZL-D2-CBL10-1 ZL-D2-CBL10-2
D2-08TD1				
D2-08TD2				
D2-16TD1-2	19	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2
		Fuse		
		Feedthrough		
		Fuse		
		Relay		
		Relay		
F2-16TD1P	40	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2
F2-16TD2P				
		Feedthrough		
		Fuse		
		Feedthrough		
		Fuse		
D2-32TD1 ¹	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10 ZL-D2-CBL10-1 ZL-D2-CBL10-2
		Fuse		
		Feedthrough		
		Fuse		
D2-32TD2 ¹	19	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2
		Fuse		
		Feedthrough		
		Fuse		
D2-08TA	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10 ZL-D2-CBL10-1 ZL-D2-CBL10-2
F2-08TA				
D2-12TA	19	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2
		Fuse		
D2-04TRS ²	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10 ZL-D2-CBL10-1 ZL-D2-CBL10-2
D2-08TR				
F2-08TRS ²				
F2-08TR ³	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL19 *
D2-12TR	19	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10 *
		Fuse	ZL-RFU20 ⁴	ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2

† 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 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: ZIPLink Connector Module specifications follow the Compatibility Matrix tables. ZIPLink Cables specifications are at the end of this ZIPLink section.





PLC I/O Modules to ZIPLink Connector Modules – DL305

DL305 PLC Input Module ZIPLink Selector				
PLC	ZIPLink			
Input Module	# of Terms	Component	Module Part No.	Cable Part No.
D3-08ND2 ¹	10	See Note 1		
D3-16ND2-1	18	These modules are not supported by the ZIPLink wiring system		
F3-16ND3F				
D3-08NA-1 ¹	10	See Note 1		
D3-08NA-2 ¹				
D3-16NA	18	Not supported by the ZIPLink wiring system		
D3-08NE3 ¹	10	See Note 1		
D3-16NE3	18	Not supported by the ZIPLink wiring system		

DL305 PLC Analog Module ZIPLink Selector				
PLC	ZIPLink			
Analog Module	# of Terms	Component	Module	Cable
F3-04ADS	18	These modules are not supported by the ZIPLink wiring system		
F3-08AD-1				
F3-16AD				
F3-04DA-1				
F3-04DAS				
F3-08THM-J	T/C Wire Only			
F3-08THM-K				

DL305 PLC Output Module ZIPLink Selector				
PLC	ZIPLink			
Output Module	# of Terms	Component	Module Part No.	Cable Part No.
D3-04TD1 ¹	10	See Note 1		
D3-08TD1 ¹				
D3-08TD2 ¹				
D3-16TD1-1	18	These modules are not supported by the ZIPLink wiring system		
D3-16TD2				
D3-04TAS ¹	10	See Note 1		
F3-08TAS-1	18	These modules are not supported by the ZIPLink wiring system		
D3-08TA-2 ¹	10	See Note 1		
F3-16TA-2	18	These modules are not supported by the ZIPLink wiring system		
D3-16TA-2				
D3-08TR ¹	10	See Note 1		
D3-16TR	18	These modules are not supported by the ZIPLink wiring system		
F3-08TRS-1				
F3-08TRS-2				

All Tables Footnotes:

¹ These I/O modules have non-removable terminal blocks which can be terminated using the [ZL-CBL24-1P](#) or 2P pigtail cable and the [ZL-RTB20](#) module of the ZIPLink wiring system.



Note: ZIPLink Connector Modules specifications follow the Compatibility Matrix tables. ZIPLink Cables specifications are at the end of this ZIPLink section.





PLC I/O Modules to ZIPLink Connector Modules - DL405

DL405 PLC Input Module ZIPLink Selector				
PLC	ZIPLink			
Input Module	# of Terms	Component	Module Part No.	Cable Part No.
<u>D4-08ND3S</u>	20	See Note 3		
<u>D4-16ND2</u>				
<u>D4-16ND2F</u>				
<u>D4-32ND3-1</u> ²	40	Feedthrough	<u>ZL-RTB40</u> (-1)	straight conn: <u>ZL-D24-CBL40</u> <u>ZL-D24-CBL40-1</u> <u>ZL-D24-CBL40-2</u>
<u>D4-64ND2</u> ^{1, 2}		Sensor	<u>ZL-LTB32-24-1</u>	
		Feedthrough	<u>ZL-RTB40</u> (-1)	45 deg conn: <u>ZL-D24-CBL40-X</u> <u>ZL-D24-CBL40-1X</u> <u>ZL-D24-CBL40-2X</u>
		Sensor	<u>ZL-LTB32-24-1</u>	
<u>D4-08NA</u>	11	See Note 3		
<u>D4-16NA</u>	20			
<u>D4-16NA-1</u>				
<u>D4-16NE3</u>				
<u>F4-08NE3S</u>				

DL405 PLC Analog Module ZIPLink Selector				
PLC	ZIPLink			
Analog Module	# of Terms	Component	Module	Cable
<u>F4-04AD</u>	20	See Note 3		
<u>F4-04ADS</u>				
<u>F4-08AD</u>				
<u>F4-16AD-1</u>				
<u>F4-16AD-2</u>				
<u>F4-04DA-1</u>				
<u>F4-04DA-2</u>				
<u>F4-08DA-1</u>				
<u>F4-16DA-1</u>				
<u>F4-08DA-2</u>				
<u>F4-16DA-2</u>				
<u>F4-04DAS-1</u>				
<u>F4-04DAS-2</u>				
<u>F4-08THM³</u>				
<u>F4-08THM-n³</u>				
<u>F4-08RTD³</u>	Matched Only			

DL405 PLC Output Module ZIPLink Selector				
PLC	ZIPLink			
Output Module	# of Terms	Component	Module Part No.	Cable Part No.
F4-08TD1S	20	See Note 3		
D4-16TD1	20			
D4-16TD2				
D4-32TD1 ²	40	Feedthrough	Feedthrough ZL-RTB40 (-1)	straight conn: ZL-D24-CBL40 ZL-D24-CBL40-1 ZL-D24-CBL40-2
D4-32TD1-1 ²		Fuse		
		Feedthrough		
D4-32TD2 ²		Fuse	Fused ZL-RFU40 ⁴	45 deg conn: ZL-D24-CBL40-X ZL-D24-CBL40-1X ZL-D24-CBL40-2X
		Feedthrough		
D4-64TD1 ^{1, 2}		Fuse		
		Feedthrough		
D4-08TA	11	See Note 3		
D4-16TA	20			
D4-08TR	11			
F4-08TRS-1	20			
F4-08TRS-2				
D4-16TR				

Tables Footnotes:

- 1 The [D4-64ND2](#) and [D4-64TD1](#) modules have two 32-point connectors and require two ZIPLink cables and two ZIPLink connector modules.
- 2 To make a custom cable for the 32 or 64-point modules, use: Solder-style 180° connector [ZL-D24-CON](#) or Solder-style 45° connector [ZL-D24-CON-X](#)
- 3 These modules are not supported by the ZIPLink wiring system.
- 4 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: ZIPLink Connector Module specifications follow the Compatibility Matrix tables. ZIPLink Cables specifications are at the end of this ZIPLink section.



CPU I/O Modules to ZIPLink Connector Modules - Productivity[®]1000



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

Productivity1000 Input Module ZIPLink Selector				
Module	ZIPLink			
Input Module	# of Terms	Component	Part No.	Cable Part No.
<u>P1-08ND3</u>	10	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-D2-CBL10</u>
<u>P1-08NE3</u>				<u>ZL-D2-CBL10-1</u> <u>ZL-D2-CBL10-2</u>
<u>P1-16ND3</u>	18			<u>ZL-P1-CBL18</u>
<u>P1-16NE3</u>				<u>ZL-P1-CBL18-1</u> <u>ZL-P1-CBL18-2</u>
<u>P1-08NA</u>	10			<u>ZL-D2-CBL10</u> <u>ZL-D2-CBL10-1</u> <u>ZL-D2-CBL10-2</u>
<u>P1-08SIM</u>				See Note 1

Productivity1000 Output Module ZIPLink Selector				
Module	ZIPLink			
Output Module	# of Terms	Component	Part No.	Cable Part No.
<u>P1-08TD1</u>	10	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-D2-CBL10</u>
<u>P1-08TD2</u>				<u>ZL-D2-CBL10-1</u> <u>ZL-D2-CBL10-2</u>
<u>P1-15TD1</u>	18			<u>ZL-P1-CBL18</u> <u>ZL-P1-CBL18-1</u> <u>ZL-P1-CBL18-2</u>
<u>P1-15TD2</u>	18			
<u>P1-08TA</u>	10			<u>ZL-D2-CBL10</u> <u>ZL-D2-CBL10-1</u> <u>ZL-D2-CBL10-2</u>
<u>P1-08TRS</u> ²	18			<u>ZL-P1-CBL18</u> <u>ZL-P1-CBL18-1</u> <u>ZL-P1-CBL18-2</u>
<u>P1-16TR</u> ³				

Productivity1000 Combo Module ZIPLink Selector				
I/O Module	ZIPLink			
Output Module	# of Terms	Component	Part No.	Cable Part No.
P1-15CDD1	18	Feedthrough	ZL-RTB20 (-1)	ZL-P1-CBL18
P1-15CDD2				ZL-P1-CBL18-1
P1-16CDR				ZL-P1-CBL18-2

Productivity1000 Analog Output Module ZIPLink Selector				
Module	ZIPLink			
Analog Module	# of Terms	Component	Part No.	Cable Part No.
P1-04DAL-1	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10
P1-04DAL-2				ZL-D2-CBL10-1
P1-08DAL-1				ZL-D2-CBL10-2
P1-08DAL-2				

Productivity1000 Analog Input Module ZIPLink Selector				
I/O Module	ZIPLink			
Analog Module	# of Terms	Component	Part No.	Cable Part No.
<u>P1-04AD</u>	18	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-P1-CBL18</u> <u>ZL-P1-CBL18-1</u> <u>ZL-P1-CBL18-2</u>
<u>P1-04ADL-1</u>	10			<u>ZL-D2-CBL10</u> <u>ZL-D2-CBL10-1</u> <u>ZL-D2-CBL10-2</u>
<u>P1-04ADL-2</u>				
<u>P1-08ADL-1</u>				
<u>P1-08ADL-2</u>				
<u>P1-04THM</u>	T/C Wire Only	See Note 1		
<u>P1-04RTD</u>	Matched Only	See Note 1		
<u>P1-04NTC</u>	Copper Conductors	See Note 1		

Productivity1000 Analog Input/Output Module ZIPLink Selector				
I/O Module	ZIPLink			
Analog Module	# of Terms	Component	Part No.	Cable Part No.
P1-4ADL2DAL-1	10	Feedthrough	ZL-RTB20 (-1)	ZL-D2-CBL10
P1-4ADL2DAL-2				ZL-D2-CBL10-1

Table Footnotes:

1. These modules are not supported by the ZIPLink wiring system.
2. The [P1-08TRS](#) output module is derated not to exceed 2A per point maximum when used with the ZIPLink wiring system.
3. The [P1-16TR](#) output module is derated not to exceed 2A per point and 4 amps per common maximum when used with the ZIPLink wiring system.



Note: ZIPLink Connector Modules specifications follow the Compatibility Matrix tables. ZIPLink Cables specifications are at the end of this ZIPLink section.





CPU I/O Modules to ZIPLink Connector Modules - Productivity®2000



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

Productivity2000 Input Module ZIPLink Selector				
I/O Module	ZIPLink			
Input Module	# of Terms	Component	Part No.	Cable Part No.
P2-08ND3-1	18	Feedthrough	ZL-RTB20 (-1)	ZL-P1-CBL18 ZL-P1-CBL18-1 ZL-P1-CBL18-2
P2-16ND3-1		Sensor/LED	ZL-LTB16-24-1	
P2-08NE3		Feedthrough	ZL-RTB20 (-1)	
P2-16NE3		Sensor/LED	ZL-LTB16-24-1	
P2-32ND3-1	40	Feedthrough	ZL-RTB40 (-1)	ZL-CBL40 ZL-CBL40-1 ZL-CBL40-2
		Sensor/LED	ZL-LTB32-24-1	
P2-32NE3		Feedthrough	ZL-RTB40 (-1)	
		Sensor/LED	ZL-LTB32-24-1	
P2-08NAS	18	Feedthrough	ZL-RTB20 (-1)	ZL-P1-CBL18 ZL-P1-CBL18-1 ZL-P1-CBL18-2
P2-16NA				

Productivity2000 Output Module ZIPLink Selector				
I/O Module	ZIPLink			
Output Module	# of Terms	Component	Part No.	Cable Part No.
P2-08TD1S	18	Feedthrough	ZL-RTB20 (-1)	ZL-P1-CBL18 ZL-P1-CBL18-1 ZL-P1-CBL18-2
P2-08TD2S				
P2-15TD1				
P2-15TD2				
P2-08TD1P				
P2-08TD2P				
P2-08TRS				
P2-08TAS				
P2-16TA		Fuse	ZL-RFU20 ²	
P2-16TD1P		Feedthrough	ZL-RTB20 (-1)	
		Relay (Sinking)	ZL-RRL16-24-1 ZL-RRL16W-24-1 ZL-RRL16F-24-1 ZL-RRL16HDF-24-1	
P2-16TD2P		Feedthrough	ZL-RTB20 (-1)	
		Relay (Sourcing)	ZL-RRL16-24-2 ZL-RRL16W-24-2 ZL-RRL16F-24-2	
P2-32TD1P	40	Feedthrough	ZL-RTB40 (-1)	ZL-CBL40 ZL-CBL40-1 ZL-CBL40-2
P2-32TD2P		Feedthrough	ZL-RTB40 (-1)	
P2-16TR	18	Feedthrough	ZL-RTB20 (-1)	ZL-P1-CBL18 ZL-P1-CBL18-1 ZL-P1-CBL18-2
		Fuse	ZL-RTB20 ²	

Productivity2000 Specialty & Motion Modules ZIPLink Selector				
I/O Module	ZIPLink			
Input Module	# of Terms	Component	Module Part No.	Cable Part No.
<u>P2-HSI</u>	40	Feedthrough	<u>ZL-RTB40</u> (-1)	<u>ZL-CBL40-S</u>
<u>P2-HSO</u>				<u>ZL-CBL40-1S</u> <u>ZL-CBL40-2S</u>
<u>P2-08SIM</u>	See Note 1			
<u>P2-SCM</u>				

Tables Footnotes:

1 These modules are not supported by the ZIPLink wiring system

2 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: ZIPLink Connector Modules specifications follow the Compatibility Matrix tables. ZIPLink Cables specifications are at the end of this ZIPLink section.





CPU I/O Modules to ZIPLink Connector Modules - Productivity® 2000



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

Productivity2000 Analog Input Module ZIPLink Selector				
I/O Module	ZIPLink			
Analog Module	# of Terms	Component	Part No.	Cable Part No.
<u>P2-04AD</u>	18	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-P2-CBL18</u> <u>ZL-P2-CBL18-1</u> <u>ZL-P2-CBL18-2</u>
<u>P2-08AD-1</u>				
<u>P2-08AD-2</u>				
<u>P2-08ADL-1</u>				
<u>P2-08ADL-2</u>				
<u>P2-16AD-1</u>	24			<u>ZL-P2-CBL24</u> <u>ZL-P2-CBL24-1</u> <u>ZL-P2-CBL24-2</u>
<u>P2-16AD-2</u>				
<u>P2-16ADL-1</u>				
<u>P2-16ADL-2</u>				
<u>P2-06RTD</u>	Matched Only	See Note 1		
<u>P2-08THM</u>	T/C Wire Only	See Note 1		
<u>P2-08NTC</u>	Copper Conductors	See Note 1		



1 These modules are not supported by the ZIPLink wiring system

Productivity2000 Analog Output Module ZIPLink Selector				
I/O Module	ZIPLink			
Analog Module	# of Terms	Component	Part No.	Cable Part No.
<u>P2-04DA</u>	18	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-P2-CBL18</u> <u>ZL-P2-CBL18-1</u> <u>ZL-P2-CBL18-2</u>
<u>P2-04DAL-1</u>				
<u>P2-04DAL-2</u>				
<u>P2-08DA-1</u>				
<u>P2-08DA-2</u>				
<u>P2-08DAL-1</u>	24			<u>ZL-P2-CBL24</u> <u>ZL-P2-CBL24-1</u> <u>ZL-P2-CBL24-2</u>
<u>P2-08DAL-2</u>				
<u>P2-16DA-1</u>				
<u>P2-16DA-2</u>				
<u>P2-16DAL-1</u>	18			<u>ZL-P2-CBL18</u> <u>ZL-P2-CBL18-1</u> <u>ZL-P2-CBL18-2</u>
<u>P2-16DAL-2</u>				
<u>P2-8AD4DA-1</u>	18			<u>ZL-P2-CBL18</u> <u>ZL-P2-CBL18-1</u> <u>ZL-P2-CBL18-2</u>
<u>P2-8AD4DA-2</u>				



Note: ZIPLink Connector Modules specifications follow the Compatibility Matrix tables. ZIPLink Cables specifications are at the end of this ZIPLink section.



CPU I/O Modules to ZIPLink Connector Modules - Productivity3000®



Note: In each table below select the length of cable as follows: (Blank) = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

Productivity3000 CPU Input Module ZIPLink Selector				
I/O Module		ZIPLink		
Input Module	# of Terms	Component	Module Part No.	Cable Part No.
P3-08NAS	20	Feedthrough	ZL-RTB20 (-1)	ZL-P3-CBL20
P3-08ND3S				ZL-P3-CBL20-1
P3-16NA				ZL-P3-CBL20-2
P3-16ND3		Sensor	ZL-LTB16-24-1	ZL-P3-CBL20-L ZL-P3-CBL20-1L ZL-P3-CBL20-2L
P3-32ND3	40	Feedthrough	ZL-RTB40 (-1)	ZL-CBL40 ZL-CBL40-1 ZL-CBL40-2
P3-32ND3		Sensor	ZL-LTB32-24-1	
P3-64ND3 ¹		Feedthrough	ZL-RTB40 (-1)	
P3-64ND3 ¹		Sensor	ZL-LTB32-24-1	

Productivity3000 CPU Analog In Module ZIPLink Selector				
I/O Module		ZIPLink		
Analog Module	# of Terms	Component	Module	Cable*
<u>P3-04ADS</u>	20	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-P3-CBL20-L</u>
<u>P3-08AD</u>				<u>ZL-P3-CBL20-1L</u>
<u>P3-16AD-1</u>				<u>ZL-P3-CBL20-2L</u>
<u>P3-16AD-2</u>				
<u>P3-08RTD</u>	Matched Only	See Note 2		
<u>P3-08THM</u>	T/C Wire Only			
<u>P3-04DA</u>	20	Feedthrough	<u>ZL-RTB20</u> (-1)	<u>ZL-P3-CBL20-L</u>
<u>P3-08DA-1</u>				<u>ZL-P3-CBL20-1L</u>
<u>P3-08DA-2</u>				<u>ZL-P3-CBL20-2L</u>
<u>P3-06DAS-1</u>				
<u>P3-06DAS-2</u>				
<u>P3-16DA-1</u>				
<u>P3-16DA-2</u>				
<u>P3-8AD4DA-1</u>				
<u>P3-8AD4DA-2</u>				
<u>P3-8AD4DA-2</u>				

Productivity3000 CPU Specialty Module ZIPLink Selector				
I/O Module		ZIPLink		
Input Module	# of Terms	Component	Module Part No.	Cable Part No.
P3-HSI	40	Feedthrough	ZL-RTB40 (-1)	ZL-CBL40-S
P3-HSO				ZL-CBL40-1S ZL-CBL40-2S



Note: ZIPLink Connector Modules specifications follow the Compatibility Matrix tables. ZIPLink Cables specifications are at the end of this ZIPLink section.

Productivity3000 CPU Output Module ZIPLink Selector				
I/O Module		ZIPLink		
Output Module	# of Terms	Component	Module Part No.	Cable Part No.
P3-08TAS	20	Feedthrough	ZL-RTB20 (-1)	ZL-P3-CBL20 *
P3-08TD1S				ZL-P3-CBL20-L
P3-08TD2S				ZL-P3-CBL20-1L ZL-P3-CBL20-2L
P3-08TRS		Feedthrough	ZL-RTB20 (-1)	ZL-P3-CBL20 ZL-P3-CBL20-1 ZL-P3-CBL20-2
P3-16TA		Feedthrough		
P3-16TD1		Fuse	ZL-RFU20 ⁴	
P3-16TD2		Feedthrough	ZL-RTB20 (-1)	
P3-16TR		Fuse	ZL-RFU20 ⁴	
P3-08TRS-1 3		Relay (sinking)	ZL-RRL16-24-1 ZL-RRL16W-24-1 ZL-RRL16F-24-1 ZL-RRL16HDF-24-1	
P3-32TD1		Feedthrough	ZL-RTB20 (-1)	
P3-32TD2		Fuse	ZL-RFU20 ⁴	
P3-64TD1 1		Relay (sourcing)	ZL-RRL16-24-2 ZL-RRL16W-24-2 ZL-RRL16F-24-2	
P3-64TD2 1		Feedthrough	ZL-RTB20 (-1)	
P3-16TD3P	40	Fuse	ZL-RFU20 ⁴	ZL-CBL40 ZL-CBL40-1 ZL-CBL40-2
P3-32TD1		Feedthrough	ZL-RTB40 (-1)	
P3-32TD2		Fuse	ZL-RFU40 ⁴	
P3-64TD1 1		Feedthrough	ZL-RTB40 (-1)	
P3-64TD2 1		Fuse	ZL-RFU40 ⁴	
P3-16TD3P		Feedthrough	ZL-RTB40 (-1)	
P3-32TD1		Fuse	ZL-RFU40 ⁴	
P3-32TD2		Feedthrough	ZL-RTB40 (-1)	
P3-64TD1 1		Fuse	ZL-RFU40 ⁴	
P3-64TD2 1		Feedthrough	ZL-RTB40 (-1)	

Table Footnotes:

* Select the cable length: L = 0.5 m, 1L = 1.0 m, or 2L = 2.0 m.

¹ The P3-64ND3, P3-64TD1 and P3-64TD2 modules have two 32-point connectors and require two ZIPLink cables and two ZIPLink connector modules.

² These modules are not supported by the ZIPLink wiring system.

³ The P3-08TRS-1 output module is derated not to exceed 2A per point maximum when used with the ZIPLink wiring system.

⁴ 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.

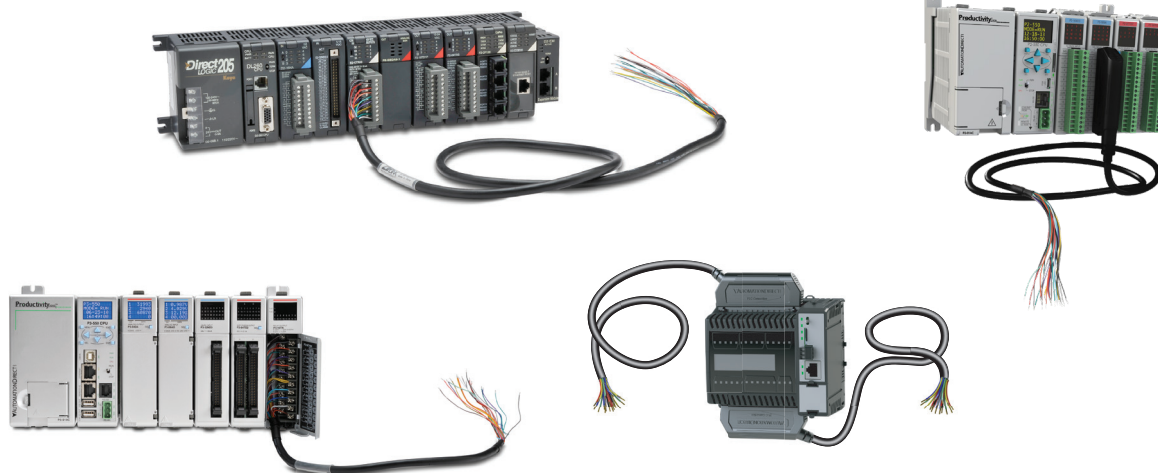




PLC I/O to 3rd Party Devices

PLC I/O to 3rd Party Devices ZIPLink Cable Selector				
PLC		ZIPLink		
PLC Family	# of Terms	Number of Wires	Pigtail Cable Part No. †	Length
BRX MPUs	15	18	ZL-BX-CBL15-1P or -2P	"-1P" = 1 meter, "-2P" = 2 meters
	20	24	ZL-BX-CBL20-1P or -2P	
BRX Expansion Modules	10	24	ZL-BXEM-CBL10-1P or -2P	
	15	18	ZL-BXEM-CBL15-1P or -2P	
	20	24	ZL-BXEM-CBL20-1P or -2P	
CLICK I/O Modules	11	11	ZL-C0-CBL11-1P	
	20	20	ZL-C0-CBL20-1P	
DL05 PLC Fixed I/O	22	22	ZL-D05-CBL22-1P	
DL06 PLC Fixed I/O	24	24	ZL-D06-CBL24-1P	
DL05 & DL06 I/O Modules	8	8	ZL-D0-CBL8-1P	
	10	10	ZL-D0-CBL10-1P	
	13	13	ZL-D0-CBL13-1P	
	24	24	ZL-D0-CBL24-1P or -2P	
DL205 I/O Modules †	10	10	ZL-D0-CBL10-1P or -2P	
	19	19	ZL-D2-CBL19-1P or -2P	
	40	40	ZL-D24-CBL40-1P or -2P	
			ZL-D24-CBL40-1XP or -2XP	
DL405 I/O Modules †	40	40	ZL-D24-CBL40-1XP or -2XP	
			ZL-D24-CBL40-1P or -2P	
Productivity®1000 I/O Modules	10	20	ZL-P1-CBL10-1P or -2P	
	18	20	ZL-P1-CBL18-1P or -2P	
Productivity®2000 I/O Modules	20	20	ZL-P2-CBL18-1P or -2P	
	24	24	ZL-P2-CBL24-1P or -2P	
	40	40	ZL-P3-CBL40-1P or -2P	
Productivity3000® I/O Modules	20	20	ZL-P3-CBL20-1P or -2P	
	40	40	ZL-P3-CBL40-1P or -2P	

† X = 45° cable connector, all other cables have 180° cable connector





Motor Controller Communication

Drive / Motor Controller (GS/DuraPulse/SureServo/SureStep/Stellar) ZIPLink Selector									
Drive / Motor 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		
			P2-550						
			P3-530						
			P3-550						
			P3-550E	RS-485, 4-Pin					
			P2-SCM						
			P3-SCM						
			DL06 PLCs	Port 2 (HD15)	GS-485HD15-CBL-2	RJ12 to HD15			
			D2-262 CPU						
			GS-EDRV100	RJ12	GS-EDRV-CBL-2	RJ12 to RJ12			
			ZL-CDM-RJ12Xxx *	RJ12	GS-485RJ12-CBL-2				
FA-ISOCON	5-pin Connector	GS-ISOCON-CBL-2	RJ12 to 5-pin plug						
GS2	RJ12	RS-232 Modbus RTU	BRX MPUs	RS-232/485, 3-Pin	ZL-RJ12-CBL-2P	RJ12 to pigtail	N/A		
			P2-550	RS-485, 4-Pin					
			P3-530						
			P3-550						
			P3-550E						
			P2-SCM	Ports 1, 2 & 3	GS-RJ12-CBL-2	RJ12 to RJ12			
			P3-SCM	Ports 1 to 4					
			CLICK PLCs	Port 2 (RJ12)					
			DL05 PLCs	Port 2 (HD15)					
			DL06 PLCs						
			D2-262 CPU			FA-15HD			
			D4-454 CPU	Port 3 (25-pin)			FA-CABKIT		
		RS-485 Modbus RTU	BRX MPUs	RS-232/485, 3-Pin	ZL-RJ12-CBL-2P	RJ12 to pigtail	N/A		
			P2-550	RS-485, 3-Pin					
			P3-530						
			P3-550						
			P3-550E						
			P2-SCM	RS-485, 4-Pin	GS-485HD15-CBL-2	RJ12 to HD15			
			P3-SCM						
			DL06 PLCs	Port 2 (HD15)					
			D2-262 CPU						
			GS-EDRV100	RJ12	GS-EDRV-CBL-2	RJ12 to RJ12			
			ZL-CDM-RJ12Xxx *	RJ12	GS-485RJ12-CBL-2				
			FA-ISOCON	5-pin Connector	GS-ISOCON-CBL-2	RJ12 to 5-pin plug			
Stellar (Soft Starter) SR44 Series	RJ45 **	RS-485 Modbus RTU	DL06 PLCs	Port 2 (HD15)	SR44-485HD15-CBL-2	RJ45 to HD15	SR44-RS485		
			D2-262 CPU						
			ZL-CDM-RJ12Xxx *	RJ12	SR44-485RJ45-CBL-2	RJ45 to RJ12			
* 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)									
** The SR44-RS485 Communications Adapter must be installed for RS-485 communications with the Stellar soft starters.									

* 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](#))

** The [SR44-RS485](#) Communications Adapter must be installed for RS-485 communications with the Stellar soft starters.



Motor Controller Communication

Drive / Motor Controller (GS/DuraPulse/SureServo/SureStep/Stellar) ZIPLink Selector									
Drive / Motor Controller		Communications			ZIPLink Cable				
Controller	Comm Port Type	Network/Protocol	Connects to	Comm Port Type	Cable (2 meter length)	Cable Connectors	Other Hardware Required		
DuraPulse (GS3)	RJ12	RS-485 Modbus RTU	BRX MPUs	RS-485, 3-Pin	ZL-RJ12-CBL-2P	RJ12 to pigtail	N/A		
			P2-550	RS-485, 3-Pin					
			P3-530						
			P3-550						
			P3-550E						
			P2-SCM	RS-485, 4-Pin					
			P3-SCM						
			DL06 PLCs	Port 2 (HD15)	GS-485HD15-CBL-2	RJ12 to HD15			
			D2-262 CPU						
			GS-EDRV100	RJ12	GS-EDRV-CBL-2	RJ12 to RJ12			
			ZL-CDM-RJ12Xxx *	RJ12	GS-485RJ12-CBL-2				
FA-ISOCAN	5-pin Connector	GS-ISOCAN-CBL-2	RJ12 to 5-pin plug						
SureServo	IEEE1394 (CN3)	RS-232 Modbus RTU	CLICK PLCs	Port 2 (RJ12)	SVC-232RJ12-CBL-2	6-pin IEEE to RJ12	N/A		
			DL05 PLCs						
			DL06 PLCs	Port 2 (HD15)			SVC-232RJ12-CBL-2	6-pin IEEE to RJ12	FA-15HD
			D2-262 CPU						
			P2-550	RS232					
			P3-530						
			P3-550						
			P3-550E						
		P2-SCM	Ports 1, 2 & 3						
		P3-SCM							
		RS-485 Modbus RTU	DL06 PLCs	Port 2 (HD15)	SVC-485HD15-CBL-2	6-pin IEEE to HD15			
			D2-262 CPU		SVC-485RJ12-CBL-2	6-pin IEEE to RJ12			
			ZL-CDM-RJ12Xxx *	RJ12		6-pin IEEE to RJ12			
			USB-485M	RJ45	SVC-485CFG-CBL-2	6-pin IEEE to RJ45			
		SureStep	RJ12	RS-232 ASCII	BRX MPUs	3-Pin	ZL-RJ12-CBL-2P	RJ12 to pigtail	N/A
					P2-550	RS-485, 3-Pin			
P3-530									
P3-550									
P3-550E									
P2-SCM	RS-485, 4-Pin								
P3-SCM									
DL06 PLCs	Port 2 (HD15)				STP-232HD15-CBL-2	HD15-pin to RJ12			
D2-262 CPU (Port2)									
DL05 PLCs	RJ12				STP-232RJ12-CBL-2	RJ12 to RJ12			
CLICK PLCs									
* 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-RJ12X4or ZL-CDM-RJ12X10)									
* * The SR44-RS485 Communications Adapter must be installed for RS-485 communications with the Stellar soft starters.									

* 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-RJ12X4or ZL-CDM-RJ12X10)

* * The SR44-RS485 Communications Adapter must be installed for RS-485 communications with the Stellar soft starters.



Serial Communication

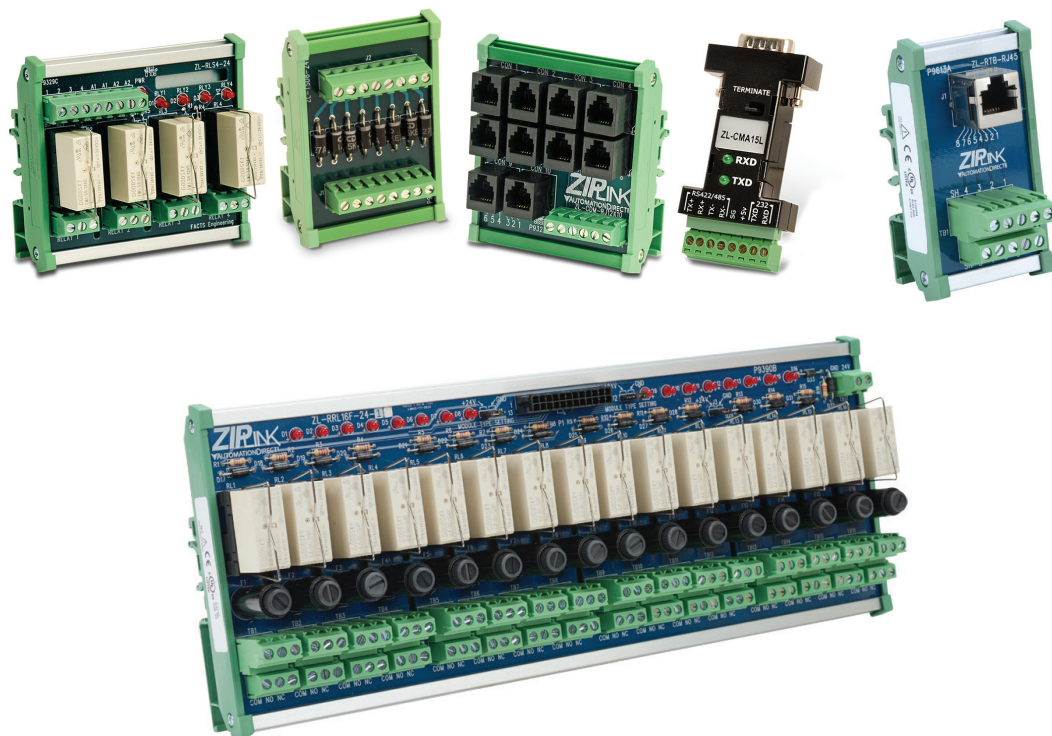
ZIPLink Serial Communication Cable Selector					
PLC			ZIPLink		
PLCs and Comm Modules	Port No.	Comm Port Type	Cable Connector Type	Cable Part No. (2 meter length)	D-Sub and RJ12 Feedthrough Module Part No. (optional)
BRX MPUs	RS232	POM (RJ12)	6-pin RJ12 to RJ12 Crossover	ZL-RJ12-CBL-2	ZL-RTB-RJ12
CLICK (Basic, Standard and Analog)	1	RJ12			
	2				
CLICK Ethernet (Basic, Standard)	2				
DL05	1				
	2				
DL06	1				
D0-DCM	1				
D2-262	1				
D2-DCM	1	25-pin D-sub, Female	25-pin Male D-sub to Female D-sub	ZL-DB25-CBL-2	ZL-RTB-DB25
D3-DCM	1	25-pin D-sub, Female	25-pin Male D-sub to Female D-sub	ZL-DB25-CBL-2	ZL-RTB-DB25
D4-454	0	15-pin D-sub, Female	15-pin Male D-sub to Female D-sub	ZL-DB15-CBL-2	ZL-RTB-DB15
	1 & 3	25-pin D-sub, Female	25-pin Male D-sub to Female D-sub	ZL-DB25-CBL-2	ZL-RTB-DB25
	2	RJ12	6-pin RJ12 to RJ12 Crossover	ZL-RJ12-CBL-2	ZL-RTB-RJ12
D4-DCM	1	25-pin D-sub, Female	25-pin Male D-sub to Female D-sub	ZL-DB25-CBL-2	ZL-RTB-DB25
P1-540	RS232	RJ12	6-pin RJ12 to RJ12 Crossover	ZL-RJ12-CBL-2	ZL-RTB-RJ12
P2-550					
P3-530					
P3-550					



Specialty Modules

ZIPLink Specialty Modules Selector			
ZIPLink			
Module	Type	Module Part No.	Cable Part No. (optional)
24VDC Stand-Alone Relay	Single-Socket Relay	ZL-RLS1-24	N/A
	Four Socket-Relay	ZL-RLS4-24	
120VAC Stand-Alone Relay	Single-Socket Relay	ZL-RLS1-120	
	Four-Socket Relay	ZL-RLS4-120	
250V AC/DC Max.	16-point, Fused Block	ZL-FUSE-16	
24VDC Transorb	8-Channel	ZL-TSD8-24	
120VAC Transorb	8-Channel	ZL-TSD8-24	N/A
240V AC/DC Max.	40-Point Power/Common	ZL-RTB-COM	
D-Sub Feedthrough	9-pin Male & Female D-Subs to Terminal Blocks	ZL-RTB-DB09	ZL-DB9-CBL-2
	15-pin Male & Female D-Subs to Terminal Blocks	ZL-RTB-DB15	ZL-DB15-CBL-2
	25-pin Male & Female D-Subs to Terminal Blocks	ZL-RTB-DB25	ZL-DB25-CBL-2
RJ12 Feedthrough	6-pin RJ12 to Terminal Block	ZL-RTB-RJ12	ZL-RJ12-CBL-2
RJ45 Feedthrough	8-pin RJ45 to Terminal Block	ZL-RTB-RJ45	N/A
Comm Port Adapters	15-pin HD D-Sub to Terminal Block	ZL-CMA15	
	15-pin HD D-Sub to Terminal Block with LED Indicators	ZL-CMA15L	
Comm Distribution	4-Port RJ12 to Terminal Block	ZL-CDM-RJ12X4	
	10-Port RJ12 to Terminal Block	ZL-CDM-RJ12X10	
Feedthrough Module (SureServo I/O)	50-pin to Terminal Blocks	ZL-RTB50	ZL-SVC-50CBL *

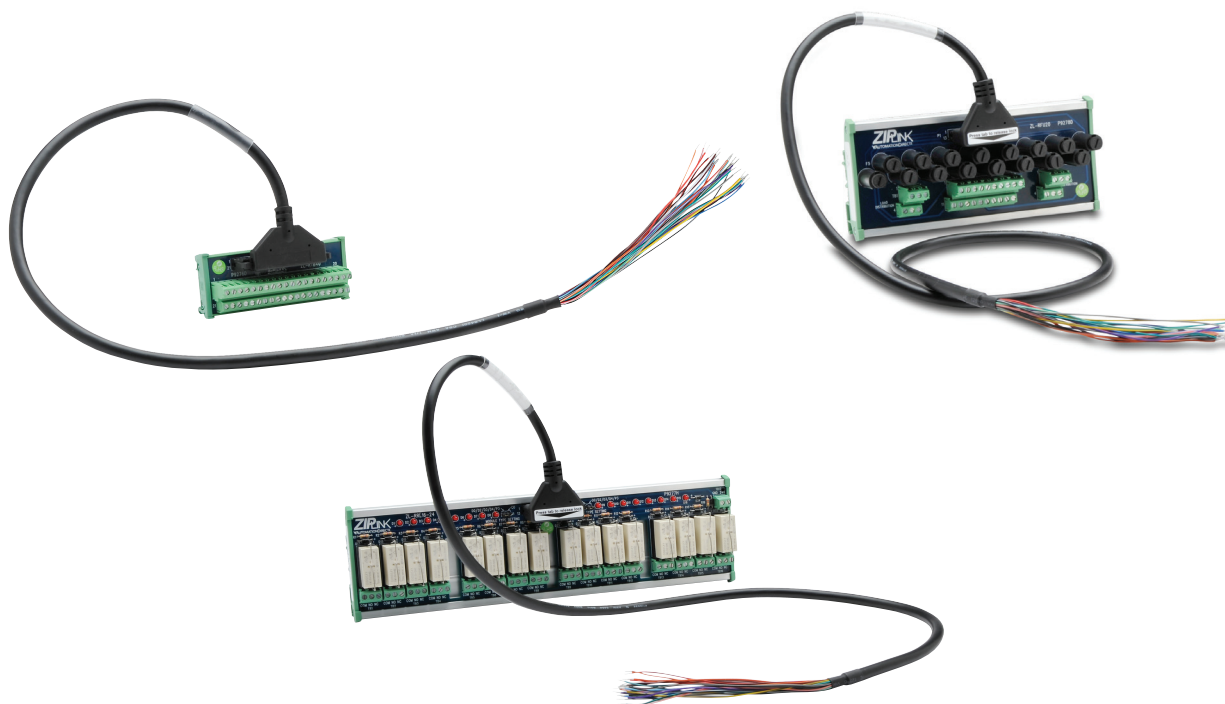
* Select the cable length by replacing the * with: Blank = 0.5m, -1 = 1.0m, or -2 = 2.0m





Connector Modules to 3rd Party Devices

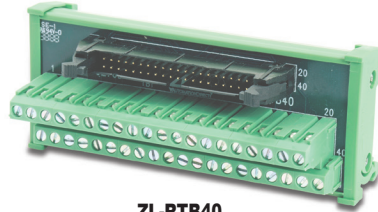
ZIPLink Connector Modules to 3rd Party Devices Selector			
ZIPLink			
Module	Type	Module Part No.	Pigtail Cable Part No. (optional)
Feedthrough Connector	24-pin to Terminal Blocks	ZL-RTB20 ZL-RTB20-1	ZL-CBL24-1P ZL-CBL24-2P
	40-pin to Terminal Blocks	ZL-RTB40 ZL-RTB40-1	ZL-CBL40-1P ZL-CBL40-2P
	50-pin to Terminal Blocks	ZL-RTB50	ZL-CBL50-1P ZL-CBL50-2P
Fuse	16-Fuse, 24-pin	ZL-RFU20	ZL-CBL24-1P ZL-CBL24-2P
	32-Fuse, 40-pin	ZL-RFU40	ZL-CBL40-1P ZL-CBL40-2P
24VDC Powered Relay	16-Relay, Sinking, 24-pin	ZL-RRL16-24-1 ZL-RRL16F-24-1 ZL-RRL16HDF-24-1 ZL-RRL16W-24-1	ZL-CBL24-1P ZL-CBL24-2P
	16-Relay, Sourcing, 24-pin	ZL-RRL16-24-2 ZL-RRL16F-24-2 ZL-RRL16W-24-2	ZL-CBL24-1P ZL-CBL24-2P
Sensor Input	16-Point with LEDs	ZL-LTB16-24-1	ZL-CBL24-1P ZL-CBL24-2P
	32-Point with LEDs	ZL-LTB32-24-1	ZL-CBL40-1P ZL-CBL40-2P
D-Sub Feedthrough	9-pin D-Sub to Terminal Block	ZL-RTB-DB09	ZL-DB9F-CBL-2P
			ZL-DB9F-CBL-5P





Feedthrough Connector Modules

Feedthrough modules provide low-cost and compact field wiring screw termination solutions allowing quick connection with **ZIPLink** cables to PLC I/O modules. **ZIPLink** modules mount on 35mm DIN rail (part #DN-R35S1). Module **ZL-RTB20** will mount on 15mm DIN rail (part #DN-R15S1).

**ZL-RTB20****ZL-RTB40****ZL-RTB50**

Specifications												
Feedthrough Modules	Part #	Pcs/ Pkg	Price/ Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/ Pkg	Weight (lbs)
	<u>ZL-RTB20</u>	1	\$31.50	0.26	<u>ZL-RTB40</u>	1	\$53.00	0.22	<u>ZL-RTB50</u>	1	\$74.00	0.33
Description 4	20-Pole Feedthrough Connector Module				40-Pole Feedthrough Connector Module				50-Pole Connector Module for interfacing SureServo I/O to a controller			
Maximum Voltage	300 VAC/VDC				36 VAC/VDC				0–30 VDC 2			
UL Voltage Rating	0–250 VAC/VDC				0–30 VAC/VDC 2				24VDC			
Maximum Current per Circuit	2A				500mA				0.2 A			
Maximum Current per Common Circuit	4A 1				N/A				N/A			
Maximum Current per Module	40A (all conductors combined including commons)				32A (all conductors combined including commons)				10A			
Number of Terminal Block Positions	20				40				50			
Surrounding Temperature Range	32 to 140°F (0 to 60°C)											
Terminal Block Contacts	Copper alloy, tin-lead plated											
Wire Range (Rated Cross Section) 3	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)											
Wire Strip Length	0.24–0.27 in (6–7 mm)											
Screw Torque	4.4 in-lbs (0.5 N-m)											
Connector Type	Molex Micro-Fit 3.0, 24 pin connector Example: Receptacle 43020-2400 Pins 43031 Series, Male				3M 34000 Series IDC Connector, strain relief is required to latch to header. Example: Socket 3417-7640, Strain relief 3448-3040				3M mini DELTA Ribbon (MDR), 101 Series, 50 pin Example: Plug 10150 - 3000VE, Shell 10350 - 52A0 - 008			
Connecting Cables (Sold Separately)	Click on link: Wiring Selection Guides . Click on link: Connection Cable Specifications Tables .								ZL-SVC-CBL50 (0.5 m/1.6 ft) ZL-SVC-CBL50-1 (1m/3.3 ft) ZL-SVC-CBL50-2 (2m/6.6 ft) Click on link: Connection Cable Specifications Tables .			
Cable/Wire Clearance	0.5 in (12.7 mm) Required											
Mounting Restrictions	None											
Approvals	File # E200031 UL, cUL, Class 1, Division 2, Groups A,B,C,D Hazardous Locations, CE, EN 61131-2:2007											

1 The 4 common circuits are at terminal block positions 1, 6, 11, and 16.

Each common circuit has 2 cable wires per terminal.

2 Use Class 2 power supply

3 Use conductors rated 60°/75°C

4 Connecting cables are for internal wiring only.



Note: See wiring details and dimensional drawings on our Web site at : <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



Feedthrough Connector Modules

Feedthrough modules provide low-cost and compact field wiring screw termination solutions for quickly connecting ZIPLink cables with PLCs. Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RTB20-1



ZL-RTB40-1

Specifications								
Feedthrough Modules	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/Pkg	Price/Pkg#	Weight (lbs)
	<u>ZL-RTB20-1</u>	1	\$42.50	0.25	<u>ZL-RTB40-1</u>	1	\$73.00	0.46
Description 1	20-Pole Feedthrough Connector Module				40-Pole Feedthrough Connector Module			
Maximum Voltage	300 VAC/VDC				36 VAC/VDC			
UL Voltage Rating 2	0–250 VAC/VDC				0–30 VAC/VDC			
Maximum Current per Circuit	2A				500mA			
Maximum Current per Common Circuit	4A				N/A			
Maximum Current per Module	40A (All conductors combined including commons)				32A (All conductors combined including commons)			
Number of Terminal Block Positions	24				48			
Operating Temperature Range	32 to 140°F (0 to 60°C)							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range (Rated Cross Section) 2	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)							
Wire Strip Length	0.24–0.27 in (6-7 mm)							
Screw Torque	4.4 in-lbs (0.5 N·m)							
Connector Type	Molex Micro-Fit 3.0, 24 pin connector Example: Receptacle 43020-2400 Pins 43031 Series, Male				3M 34000 Series IDC Connector, strain relief is required to latch to header. Example: Socket 3417-7640, Strain relief 3448-3040			
Connecting Cables (Sold Separately)	Click on link: Wiring Selection Guides . Click on link: Connection Cable Specifications Tables .							
Cable/Wire Clearance	0.5 in (12.7 mm) Required							
Mounting Restrictions	None							
Approvals	UL 508 File E139594, Canada & USA CE (EN61131-2*)							

¹ Connecting cables are for internal wiring only.

² Use Class 2 power supply; use conductors rated 60°/75°C



Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



Common Connector Module

Common Connection standalone module provides low-cost and compact field wiring screw termination solutions for power and ground connections. Module mounts on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RTB-COM

Input Terminal Block Specifications				
Feedthrough Module	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)
	ZL-RTB-COM	1	\$72.00	0.35
Description	40-Pole Common Connector Module			
Voltage Rating	250 VAC/VDC			
Maximum Operating Range	300 VAC/VDC			
Maximum Current	10A (Total all 40 positions), 0.5 A/pt			
Terminal Block Contacts	Copper alloy, tin-lead plated			
Wire Range (Rated Cross Section)	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm ²)			
Wire Strip Length	0.24–0.27 in (6–7 mm)			
Screw Size	M2.5			
Screw Torque	3.5 in·lbs (0.4 N·m)			

Common Specifications	
Operating Temperature	0 to 60°C (32 to 140°F) IEC 60068-2-14 (Test Nb, Thermal Shock)
Storage Temperature	-20 to 70°C (-4 to 158°F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)
Humidity	5 to 95% (Non-condensing) IEC 60068-2-30 (Test Db, Damp Heat)
Environmental Air	No corrosive gases permitted (EN61131-2 pollution degree 1)
Vibration Resistance	MIL STD 810C 514.2 IEC60068-2-6 (Test Fc)
Shock Resistances	MIL STD 810C 516.2 IEC60068-2-27 (Test Ea)
Agency Approvals	UL 508 File E139594, Canada & USA CE (EN61131-2:2007)



Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



Fuse Modules

Fuse modules provide fuse protection for PLC output devices. Use with Do-more, CLICK, DL05/06/205/305/405 PLCs.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RFU20



ZL-RFU40

Specifications								
Fuse Modules	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)
	<u>ZL-RFU20</u>	1	\$146.00	0.79	<u>ZL-RFU40</u>	1	\$238.00	1.10
Description 4	16-point fuse connector module				32-point fuse connector module			
Operation Voltage	0–250 VAC/0–75 VDC 1				0–30 VDC			
UL Rated Current	1A per point				0.3 A per circuit 2			
Maximum Current per Circuit	2A				0.4 A			
Maximum Current per Module	32A				20A			
Number of Circuits	16				32			
Field to Logic Side Isolation	1800VAC applied for 1 second							
Insulation Resistance	>10MΩ @ 500VDC							
Surrounding Temperature Range	32 to 140°F (0 to 60°C)							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range (Rated Cross Section) 3	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in-lbs (0.5 N·m)							
Fuses (Not Included)	Sixteen 5x20 mm, 250V, 2 Amp fast blow				Thirty-two 5x20 mm, 250V, 0.4 Amp fast blow			
Replacement Fuse	See Edison 5x20 mm Glass Fuse Section range up to a Max. 2 Amp fuse				See Edison 5x20 mm Glass Fuse Section range up to a Max. 0.4 Amp fuse			
Connector Type	Molex Micro-Fit 3.0, 24 pin connector Example receptacle 43020-2400, Pins 43031 Series, Male				3M 34000 Series IDC Connector, strain relief is required to latch to header. Example: Socket 3417-7640, Strain relief 3448-3040			
Connecting Cables (Sold Separately)	Click on link: Wiring Selection Guides . Click on link: Connection Cable Specifications Tables .							
Cable/Wire Clearance	0.5 in (12.7 mm) Required							
Mounting Restrictions	None							
Approvals	File # E200031 UL, cUL, Class 1, Division 2, Groups A,B,C,D Hazardous Locations, CE, EN 61131-2:2007							

1 UL rated 0–75 VDC applies when using a DC rated fuse (not supplied), example: Littelfuse 217 series.

2 Use Class 2 power supply - This refers to the **ZL-RFU40** only.

3 Use conductors rated 60°/75°C

4 Connecting cables are for internal wiring only.



Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



Fuse Modules

ZIPLink reduced-width stand-alone fuse module. Use with Productivity, Do-more, CLICK, DL05/06/205/305/405 PLCs.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-FUSE-16

ZL-FUSE-16 Specifications

Fuse Module	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)
	<u>ZL-FUSE-16</u>	1	\$141.00	0.47
Description	16-point fuse connector module			
Operation Voltage	0–250 V AC/DC (–10%/+20%)			
UL Rated Current	5A/250V per point			
Maximum Current per Circuit	8A			
Fuse Size (Not Included) *	Sixteen 5x20 mm			
Terminal Block Contacts	Copper alloy, tin-lead plated			
Wire Range (Rated Cross Section)	12-24 AWG Solid or Stranded Copper Conductor (2.5 mm ²)			
Wire Strip Length	0.24–0.27 in (6–7 mm)			
Screw Torque	4.4 in·lbs (0.5 N·m)			

* Fuses not supplied. See AutomationDirect GMA, GMC, or S500 fuses.



Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



24V DC-Powered Relay Modules

DC-powered relay modules provide isolation, switch high current (10A) loads, and include diode protection to prevent voltage spikes at the relay coil from damaging connected 16-point PLC I/O modules. Relays are included with these modules.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).

**ZL-RRL16-24-1****ZL-RRL16-24-2**

Specifications								
24V DC-Powered Relay Module	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)
	<u>ZL-RRL16-24-1</u>	1	\$216.00	1.45	<u>ZL-RRL16-24-2</u>	1	\$216.00	1.45
Description	16 Output Relay module, sinking, with LEDs, 24VDC coil				16 Output Relay module, sourcing, with LEDs, 24VDC coil			
Operating Frequency	20 cycles per minute electrical, 300 cycles per minute mechanical							
Isolation Coil to Contact	2500VAC for 1 minute							
Isolation NC Contact to NO Contact Same Relay	1000VAC for 1 minute							
Isolation Between Relays	1000VAC for 1 minute							
Red LED Indicator State Relay	ON = relay energized, OFF = relay de-energized				ON = relay de-energized, OFF = relay energized			
Operating Temperature Range	32 to 140°F (0 to 60°C)							
Humidity Range	45 to 85% RH							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range *	12–24 AWG Solid or Stranded Conductor							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in-lbs (0.5 N·m)							
Connector Type	Molex Micro-Fit 3.0, 24 pin connector, example receptacle 43020-2400, Pins 43031 Series, Male							
Connecting Cables (Sold Separately)	Click on link: Wiring Selection Guides . Click on link: Connection Cable Specifications Tables .							
Replacement Relays	<u>ZL-RELAY-24X4</u> , Qty. 4/pkg							
Cable/Wire Clearance	0.5 in (12.7 mm) required							
Mounting Restrictions	Horizontal mounting only, non-corrosive environment							
Approvals	File # E157382 UL, cUL 508							

Relay Specifications **			
Contact		Coil	
Current Rating	30VDC @ 10A, 250VAC @ 8A, General Use	Input Voltage Rating	24VDC (-20%/ + 30%)
Contact Type	1 Form C (SPDT)	Maximum Continuous Coil Voltage	31.2 VDC
Contact Voltage (per point) *	250VAC/30VDC	Rated Current per Coil	16.7 mA (±10%) @ 24VDC
Maximum Power Inductive	2000VA General Use	Coil Resistance	1440Ω (±10%)
Maximum Power Resistive	AC 2000VA, DC 300W	Power Consumption per Coil	0.4 W
Maximum Switching Voltage	250VAC, 110VDC	Total Coil Supply Current Max.	293mA (all relays on)
Minimum Load	10mA @ 5VDC	Pick Up Current Max. per Coil	15mA
Contact Resistance	100mΩ Max @ 1A, 6VDC	Drop-Out Voltage Min.	1.2 VDC
Contact Material	AgNi (Silver Nickel Alloy)	Pick-Up Voltage Max.	19.2 VDC
Vibration Resistance	10 to 55 Hz dual amplitude width 1.5 mm	Off to On/On to Off Response Time	12ms / 8ms
Shock Resistances	1000m/s² endurance, 100m/s² operation		
Service Life	Mechanical: 10,000,000 Operations at no load condition; Electrical: 100,000 Operations at rated resistive load		

* Use conductors rated for 60°/75°C for relay outputs.

** Relay modules are reverse polarity protected and will not operate if reverse voltage is connected.



Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



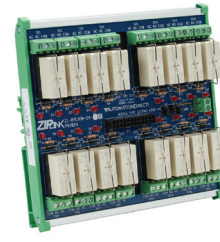
24V DC-Powered Relay Modules

DC-powered relay modules provide isolation, switch high current (10A) loads, and include diode protection to prevent voltage spikes at the relay coil from damaging connected 16-point PLC I/O modules. Relays are included with these modules.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RRL16W-24-1



ZL-RRL16W-24-2

Specifications								
24V DC-Powered Relay Module	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)
	ZL-RRL16W-24-1	1	\$209.00	1.45	ZL-RRL16W-24-2	1	\$209.00	1.45
Description	16 Sinking Output Relay module with LEDs, 24VDC coil				16 Sourcing Output Relay module with LEDs, 24VDC coil			
Operating Frequency	20 cycles per minute electrical, 300 cycles per minute mechanical							
Isolation Coil to Contact	2500VAC for 1 minute							
Isolation NC Contact to NO Contact Same Relay	1000VAC for 1 minute							
Isolation Between Relays	1000VAC for 1 minute							
Red LED Indicator State Relay	ON = relay energized, OFF = relay de-energized				ON = relay de-energized, OFF = relay energized			
Operating Temperature Range	32 to 140°F (0 to 60°C)							
Humidity Range	45 to 85% RH							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range *	12–24 AWG Solid or Stranded Conductor							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in-lbs (0.5 N-m)							
Connector Type	Molex Micro-Fit 3.0, 24 pin connector, example receptacle 43020-2400, Pins 43031 Series, Male							
Connecting Cables (Sold Separately)	Click on link: Wiring Selection Guides . Click on link: Connection Cable Specifications Tables .							
Replacement Relays	ZL-RELAY-24X4 , Qty. 4/pkg							
Cable/Wire Clearance	0.5 in (12.7 mm) required							
Mounting Restrictions	Horizontal mounting only, non-corrosive environment							
Approvals	File # E157382 UL, cUL 508, CE, EN 61131-2:2007							

Relay Specifications * *			
Contact		Coil	
Current Rating	30VDC @ 10A, 250VAC @ 8A, General Use	Input Voltage Rating	24VDC (-20%/ +30%)
Contact Type	1 Form C (SPDT)	Maximum Continuous Coil Voltage	31.2 VDC
Contact Voltage (per point) *	250VAC / 30VDC	Rated Current per Coil	16.7 mA (±10%) @ 24VDC
Maximum Power Inductive	2000VA General Use	Coil Resistance	1440Ω (±10%)
Maximum Power Resistive	AC 2000VA, DC 300W	Power Consumption per Coil	0.4 A
Maximum Switching Voltage	250VAC, 110VDC	Total Coil Supply Current Max.	293mA (all relays on)
Minimum Load	10mA @ 5VDC	Pick Up Current Max. per Coil	15mA
Contact Resistance	100mΩ Max @ 1A, 6VDC	Drop-Out Voltage Min.	1.2 VDC
Contact Material	AgNi (Silver Nickel Alloy)	Pick-Up Voltage Max.	19.2 VDC
Vibration Resistance	10 to 55 Hz dual amplitude width 1.5 mm	Off to On/On to Off Response Time	12ms / 8ms
Shock Resistances	1000m/s² endurance, 100m/s² operation		
Service Life	Mechanical: 10,000,000 Operations at no load condition; Electrical: 100,000 Operations at rated resistive load		

* Use conductors rated for 60°/75°C for relay outputs.

** Relay modules are reverse polarity protected and will not operate if reverse voltage is connected.



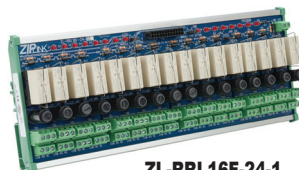
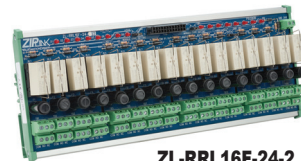
Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



24V DC-Powered Fused Relay Modules

DC-powered fused relay modules provide isolation, switch high current (8A) loads, and includes fused protection to prevent voltage spikes at the relay coil from damaging connected 16-point PLC I/O modules. Relays are included with these modules.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).

**ZL-RRL16F-24-1****ZL-RRL16F-24-2**

Specifications								
24V DC-Powered Fused Relay Module	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)
	ZL-RRL16F-24-1	1	\$280.00	2.05	ZL-RRL16F-24-2	1	\$280.00	2.05
Description	16 Fused Output Relay module, sinking, with LEDs, 24VDC coil				16 Fused Output Relay module, sourcing, with LEDs, 24VDC coil			
Mechanical Life	1,000,000 Operations no load condition							
Electrical Life	1,000,000 Operations at rated resistive load							
Operating Frequency	6 cycles per minute electrical, 180 cycles per minute mechanical							
Isolation Coil to Contact	2500VAC for 1 minute							
Isolation NC Contact to NO Contact	1000VAC for 1 minute							
Isolation Between Relays	1000VAC for 1 minute							
Red LED Indicator State Relay	ON = relay energized, OFF = relay de-energized				ON = relay de-energized, OFF = relay energized			
Operating Temperature Range	32 to 140°F (0 to 60°C)							
Humidity Range	45 to 85% RH							
Vibration Resistance	10 to 55 Hz dual amplitude width 1.5 mm							
Shock Resistances	1000m/s2 endurance, 100m/s2 operation							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range *	12–24 AWG Solid or Stranded Conductor							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in-lbs (0.5 N-m)							
Connector Type	Molex Micro-Fit 3.0, 24-pin connector, example receptacle 43020-2400, Pins 43031 Series, Male							
Replacement Relays	ZL-RELAY-24X4 , Qty. 4/pkg							
Fuses (Sold Separately)	Sixteen 5x20mm, 250V							
Replacement Fuses	See Edison 5x20mm Glass Fuse section, range up to Max. 10							
Cable/Wire Clearance	0.5 in (12.7 mm)							
Approvals	File # E139594 UL, cUL 508, CE, EN61131-2:2007							

Relay Specifications **			
Contact		Coil	
Current Rating	30VDC @ 8A, 250VAC @ 8A, General Use	Input Voltage Rating	24VDC (-20%/+30%)
Contact Type	1 Form C (SPDT)	Maximum Continuous Coil Voltage	31.2 VDC
Contact Voltage (per point) *	250VAC/30VDC	Rated Current per Coil	16.7 mA (±10%) @ 24VDC
Maximum Power Inductive	2000VA General Use	Coil Resistance	1440Ω (±10%)
Maximum Power Resistive	AC 2000VA, DC 240W	Power Consumption per Coil	0.4 W
Maximum Switching Voltage	250VAC, 300VDC	Total Coil Supply Current Max.	400mA (Total 16 relays)
Minimum Load	10mA @ 5VDC	Pick Up Current Max. per Coil	15mA
Contact Resistance	100mΩ Max @ 1A, 6VDC	Drop-Out Voltage Min.	1.2 VDC
Contact Capacity	5FLA/30LRA, 250VAC, 1/2 HP, 250VAC, Pilot Duty B300-C300	Pick-Up Voltage Max.	19.2 VDC
Contact Material	AgNi (Silver Nickel Alloy)	Off to On/On to Off Response Time	12ms/8ms

* Use conductors rated for 60°/75°C for relay outputs.

** Relay modules are reverse polarity protected and will not operate if reverse voltage is connected.



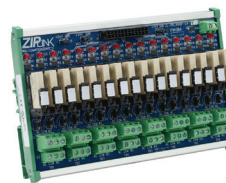
Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



24V DC-Powered Fused Relay Modules

DC-powered fused relay modules provide isolation, switch high current (10A) loads, and includes diode and fused protection to prevent voltage spikes at the relay coil from damaging connected 16-point PLC I/O modules. Relays are included with these modules.

Module mounts on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RRL16HDF-24-1

Specifications				
24V DC-Powered Fused Relay Module	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)
	ZL-RRL16HDF-24-1	1	\$251.00	1.06
Description	16 Fused Output Relay module, sinking, with LEDs, 24VDC coil			
Mechanical Life	1,000,000 Operations no load condition			
Electrical Life	50,000 Operations at rated resistive load (Normally Open) 30,000 Operations at rated resistive load (Normally Closed)			
Operating Frequency	6 cycles per minute electrical, 180 cycles per minute mechanical			
Isolation Coil to Contact	2500VAC for 1 minute			
Isolation NC Contact to NO Contact	1000VAC for 1 minute			
Isolation Between Relays	1000VAC for 1 minute			
Red LED Indicator State Relay	ON = relay energized, OFF = relay de-energized			
Operating Temperature Range	32 to 140°F (0 to 60°C)			
Humidity Range	45 to 85% RH			
Vibration Resistance	10 to 55 Hz dual amplitude width 1.5 mm			
Shock Resistance	1000m/s ² endurance, 100m/s ² operation			
Terminal Block Contacts	Copper alloy, tin-lead plated			
Wire Range *	12–24 AWG Solid or Stranded Conductor			
Wire Strip Length	0.24–0.27 in (6–7 mm)			
Screw Torque	4.4 in-lbs (0.5 N·m)			
Connector Type	Molex Micro-Fit 3.0, 24-pin connector, example receptacle 43020-2400, Pins 43031 Series, Male			
Replacement Relays	<u>ZL-RELAY-HDF24X4</u> , Qty. 4/pkg			
Fuses (Sold Separately)	Sixteen 8.35 x 3.95 x 7.55 mm or 8.4 x 8.3 mm			
Recommended Fuses	Littelfuse, Subminiature TR5 Series or Equivalent			
Cable/Wire Clearance	0.5 in (12.7 mm)			
Approvals	File # E139594 UL, cUL 508, CE, EN61131-2:2007			

Replacement Fuses* (Sold Separately)			
Part Number	Current Rating	Pcs/Pkg	Price/Pkg
ZL-FUSE-H3	3A	4	\$8.25
ZL-FUSE-H4	4A	4	\$8.25
ZL-FUSE-H5	5A	4	\$8.25
ZL-FUSE-H63	6.3 A	4	\$8.25
Dimensions	8.35 x 3.95 x 7.55 mm or 8.4 x 8.3 mm		
Alternate Fuse	Littelfuse, Subminiature TR5 Series or Equivalent		

* Sixteen fuses required.



ZL-FUSE-HXX

Relay Specifications **			
Contact		Coil	
Current Rating	30VDC @ 5A, 250VAC @ 5A, General Use	Input Voltage Rating	24VDC (-20%/+30%)
Contact Type	1 Form C (SPDT)	Maximum Continuous Coil Voltage	31.2 VDC
Contact Voltage (per point) *	250VAC/30VDC	Rated Current per Coil	7.1 mA (±10%) @ 24VDC
Maximum Power Inductive	1250VA General Use	Coil Resistance	3388Ω (±10%)
Maximum Power Resistive	AC 1250VA, DC 150W	Power Consumption per Coil	0.17 W
Maximum Switching Voltage	250VAC, 30VDC	Total Coil Supply Current Max.	275mA (Total 16 relays)
Minimum Load	10mA @ 5VDC	Pick Up Current Max. per Coil	15mA
Contact Resistance	100mΩ Max @ 1A, 6VDC	Drop-Out Voltage Min.	1.2 VDC
Contact Capacity	D300, 0.8 A/ 240VAC Pilot Duty FLA 2A @ 277VAC/125VAC 1/8HP @ 250VAC	Pick-Up Voltage Max.	19.2 VDC
Contact Material	AgNi (Silver Nickel Alloy)	Off to On/On to Off Response Time	8ms/4ms

* Use conductors rated for 60°/75°C for relay outputs.

** Relay modules are reverse polarity protected and will not operate if reverse voltage is connected.



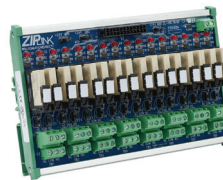
Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



24V DC-Powered Fused Relay Modules

DC-powered fused relay modules provide isolation, switch high current (10A) loads, and include diode and fused protection to prevent voltage spikes at the relay coil from damaging connected 16-point PLC I/O modules. Relays are included with these modules.

Module mounts on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1)



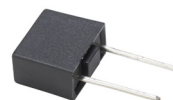
ZL-RRL16HDF-24-2

Specifications				
24V DC-Powered Fused Relay Module	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)
	ZL-RRL16HDF-24-2	1	\$251.00	1.06
Description	16 Fused Output Relay module, sourcing, with LEDs, 24VDC coil			
Mechanical Life	1,000,000 Operations no load condition			
Electrical Life	50,000 Operations at rated resistive load (Normally Open) 30,000 Operations at rated resistive load (Normally Closed)			
Operating Frequency	6 cycles per minute electrical, 180 cycles per minute mechanical			
Isolation Coil to Contact	2500VAC for 1 minute			
Isolation NC Contact to NO Contact	1000VAC for 1 minute			
Isolation Between Relays	1000VAC for 1 minute			
Red LED Indicator State Relay	ON = relay energized, OFF = relay de-energized			
Operating Temperature Range	32 to 140°F (0 to 60°C)			
Humidity Range	45 to 85% RH			
Vibration Resistance	10 to 55 Hz dual amplitude width 1.5 mm			
Shock Resistance	1000m/s ² endurance, 100m/s ² operation			
Terminal Block Contacts	Copper alloy, tin-lead plated			
Wire Range 1	12–24 AWG Solid or Stranded Conductor			
Wire Strip Length	0.24–0.27 in (6–7 mm)			
Screw Torque	4.4 in-lbs (0.5 N·m)			
Connector Type	Molex Micro-Fit 3.0, 24-pin connector, example receptacle 43020-2400, Pins 43031 Series, Male			
Replacement Relays	ZL-RELAY-HDF24X4, Qty. 4/pkg			
Fuses (Sold Separately)	Sixteen 8.35 x 3.95 x 7.55 mm or 8.4 x 8.3 mm			
Recommended Fuses	Littelfuse, Subminiature TR5 Series or Equivalent			
Cable/Wire Clearance	0.5 in (12.7 mm)			
Approvals	File # E139594 UL, cUL 508, CE, EN61131-2:2007			

Replacement Fuses* (Sold Separately)

Part Number	Current Rating	Pcs/Pkg	Price/Pkg
ZL-FUSE-H3	3A	4	\$8.25
ZL-FUSE-H4	4A	4	\$8.25
ZL-FUSE-H5	5A	4	\$8.25
ZL-FUSE-H63	6.3 A	4	\$8.25
Dimensions	8.35 x 3.95 x 7.55 mm or 8.4 x 8.3 mm		
Alternate Fuse	Littelfuse, Subminiature TR5 Series or Equivalent		

* Sixteen fuses required.



ZL-FUSE-HXX

Relay Specifications 2			
Contact		Coil	
Current Rating	30VDC @ 5A, 250VAC @ 5A, General Use	Input Voltage Rating	24VDC (-20%/+30%)
Contact Type	1 Form C (SPDT)	Maximum Continuous Coil Voltage	31.2 VDC
Contact Voltage (per point) *	250VAC/30VDC	Rated Current per Coil	7.1 mA (±10%) @ 24VDC
Maximum Power Inductive	1250VA General Use	Coil Resistance	3388Ω (±10%)
Maximum Power Resistive	AC 1250VA, DC 150W	Power Consumption per Coil	0.17 W
Maximum Switching Voltage	250VAC, 30VDC	Total Coil Supply Current Max.	275mA (Total 16 relays)
Minimum Load	10mA @ 5VDC	Pick Up Current Max. per Coil	15mA
Contact Resistance	100mΩ Max @ 1A, 6VDC	Drop-Out Voltage Min.	1.2 VDC
Contact Capacity	D300, 0.8 A/ 240VAC Pilot Duty FLA 2A @ 277VAC/125VAC 1/8HP @ 250VAC	Pick-Up Voltage Max.	19.2 VDC
Contact Material	AgNi (Silver Nickel Alloy)	Off to On/On to Off Response Time	8ms/4ms

1 Use conductors rated for 60°/75°C for relay outputs.

2 Relay modules are reverse polarity protected and will not operate if reverse voltage is connected.



Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



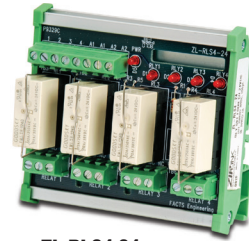
24VDC Stand-Alone Relay Modules

Our single and four-socket 24 VDC stand-alone relay modules use plug-in relays for switching high current (10A) loads. Relays are included with the modules.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RLS1-24



ZL-RLS4-24

Specifications 1								
24VDC Stand-Alone Relay Modules	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)
	<u>ZL-RLS1-24</u>	1	\$31.50	0.10	<u>ZL-RLS4-24</u>	1	\$86.00	0.45
Description	Single-socketed relay with 24VDC relay with LEDs				Four-socketed relays with 24VDC relays with LEDs			
Mechanical Life	10,000,000 Operations at no load condition							
Electrical Life	100,000 Operations at rated resistive load							
Operating Frequency	20 cycles per minute electrical, 300 cycles per minute mechanical							
Isolation Coil to Contact	2500VAC for 1 minute							
Isolation NC Contact to NO Contact Same Relay	1000VAC for 1 minute							
Isolation Between Relays	N/A				1000VAC for 1 minute			
Red LED Indicator State Relay	ON = relay energized, OFF = relay de-energized							
Operating Temperature Range	32 to 140°F (0 to 60°C)							
Humidity Range	45 to 85% RH							
Vibration Resistance	10 to 55 Hz dual amplitude width 1.5 mm							
Shock Resistances	1000m/s² endurance, 100m/s² operation							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range 2	12–24 AWG Solid or Stranded Conductor							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in-lbs (0.5 N-m)							
Replacement Relays	ZL-RELAY-24X4, Qty. 4/pkg							
Cable/Wire Clearance	0.5 in (12.7 mm) Required							
Approvals	File # E157382 UL, cUL 508							

Relay Specifications			
Contact		Coil	
Current Rating	30VDC @ 10A 250VAC @ 8A General Use	Input Voltage Rating	24VDC (-20%/ +30%)
Contact Type	1 Form C (SPDT)	Maximum Continuous Coil Voltage	31.2 VDC
Contact Voltage (per point) 2	250VAC/30VDC	Rated Current per Coil	16.7 mA (±10%) @ 24 VDC
Maximum Power Inductive	2000VA General Use	Coil Resistance	1440Ω (±10%)
Maximum Power Resistive	AC 2000VA, DC 300W	Power Consumption per Coil	0.4 W
Maximum Switching Voltage	250VAC, 110VDC	Pick Up Current Max. per Coil	15mA
Minimum Load	10mA @ 5VDC	Drop-Out Voltage Min.	1.2 VDC
Contact Resistance	100mΩ Max @ 1A, 6VDC	Pick-Up Voltage Max.	19.2 VDC
Contact Material	AgNi (Silver Nickel Alloy)	Off to On/On to Off Response Time	12ms / 8ms

¹ These modules do not provide transient protection on the relay coil.

² Use conductors rated for 60°/75°C for relay outputs.



Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



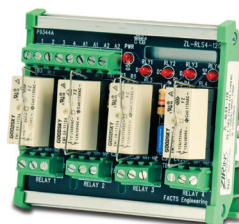
120VAC Stand-Alone Relay Modules

Our AC-powered stand-alone relay modules provide isolation, switch high current (10A) loads and are offered in single or 4-socket modules. Relays are included with the modules.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RLS1-120



ZL-RLS4-120

Specifications								
120VAC Stand-Alone Relay Modules	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/Pkg	Price/Pkg	Weight (lbs)
	ZL-RLS1-120	1	\$34.50	0.10	ZL-RLS4-120	1	\$102.00	0.45
Description	Single-socketed relay with 120VAC relay with LED				Four-socketed relays with 120VAC relays with LEDs			
Mechanical Life	10,000,000 Operations at no load condition							
Electrical Life	100,000 Operations at rated resistive load							
Operating Frequency	20 cycles per minute electrical, 300 cycles per minute mechanical							
Isolation Coil to Contact	2500VAC for 1 minute							
Isolation NC Contact to NO Contact Same Relay	1000VAC for 1 minute							
Isolation Between Relays	N/A				1000VAC for 1 minute			
Red LED Indicator State Relay	ON = relay energized, OFF = relay de-energized							
Operating Temperature Range	32 to 140°F (0 to 60°C)							
Humidity Range	45 to 85% RH							
Vibration Resistance	10 to 55 Hz dual amplitude width 1.5 mm							
Shock Resistances	1000m/s² endurance, 100m/s² operation							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range*	12–24 AWG Solid or Stranded Conductor							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in-lbs (0.5 N-m)							
Replacement Relays	ZL-RELAY-120X4 , Qty. 4/pkg							
Cable/Wire Clearance	0.5 in (12.7 mm) Required							
Approvals	File # E157382 UL, cUL 508							

Relay Specifications			
Contact		Coil	
Current Rating	30VDC @ 10A 250VAC @ 8A General Use	Input Voltage Rating	115VAC (-20%/+30%), 50–60Hz
Contact Type	1 Form C (SPDT)	Maximum Continuous Coil Voltage	150VAC
Contact Voltage (per point) *	250VAC/30VDC	Rated Current per Coil	7.65 mA (±10%) @ 115VAC 50Hz 6.30 mA (±10%) @ 115VAC 60Hz
Maximum Power Inductive	2000VA General Use	Coil Resistance	8100Ω (±10%)
Maximum Power Resistive	AC 2000VA, DC 300W	Power Consumption per Coil	0.88 W @ 50Hz 0.73 W @ 60Hz
Maximum Switching Voltage	250VAC, 110VDC	Drop-Out Voltage Min.	34.5 VAC
Minimum Load	10mA @ 5VDC	Pick-Up Voltage Max.	92VAC
Contact Resistance	100mΩ Max @ 1A, 6VDC	Off to On/On to Off Response Time	12ms / 8ms
Contact Material	AgNi (Silver Nickel Alloy)		

* Use conductors rated for 60°/75°C for relay outputs.



Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



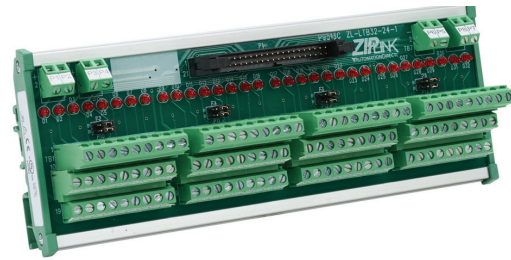
Sensor Input Modules

LED modules provide simple and logical termination for 3-wire sensors or other devices. These modules offer visual LED indication of device input status for quick troubleshooting. The LED/sensor modules are available in 16 and 32-point versions.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-LTB16-24-1



ZL-LTB32-24-1

Specifications								
Sensor Input Modules	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part#	Pcs/ Pkg	Price/Pkg	Weight (lbs)
	<u>ZL-LTB16-24-1</u>	1	\$105.00	0.49	<u>ZL-LTB32-24-1</u>	1	\$168.00	0.99
Description *	16-point, 24VDC Sensor Input Module with LEDs				32-point, 24VDC Sensor Input Module with LEDs			
Maximum Voltage	50 VAC/VDC (-10%/+20%)							
UL Voltage Rating	0–30 VAC/VDC (-10%/+20%)							
Nominal Current per Input	I/O module max. input current per point plus 2mA for LED indicator							
Maximum Current per Input	500mA							
Maximum Current per Power Group (P1, P2, P3, or P4)	4A							
Operating Temperature Range	32 to 140°F (0 to 60°C)							
LED Indicator Circuit	2mA @ 24VDC per LED							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range (Rated Cross Section)	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in-lbs (0.5 N·m)							
Connector Type	Molex Micro-Fit 3.0, 24 pin connector Example: Receptacle 43020-2400 Pins 43031 Series, Male				3M 34000 Series IDC Connector, strain relief is required to latch to header. Example: Socket 3417-7640, Strain relief 3448-3040			
Connecting Cables (Sold Separately)	Click on link: Wiring Selection Guides . Click on link: Connection Cable Specifications Tables .							
Cable/Wire Clearance	Minimum requirement: 0.5 in (12.7 mm)							
Mounting Restrictions	None							
Approvals	File # E139594, UL, cUL, CE, EN 61131-2:2007							

*Connecting cables are for internal wiring only.



Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



24VDC and 120VAC Transorb Modules

Our transorb diode modules are 8-channel devices used to suppress counter-electromotive force (CEMF) generated by switching inductive loads such as solenoids, contactors, motor starters, interposing relays, etc., that may cause an unexpected PLC system shutdown.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-TSD8-24



ZL-TSD8-120

Specifications

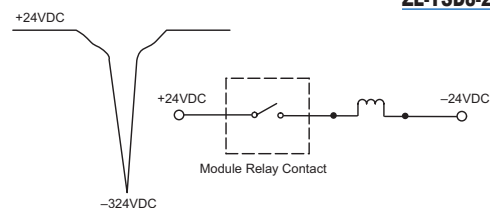
24VDC and 120VAC Transorb Modules	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)
	<u>ZL-TSD8-24</u>	1	\$43.00	0.19	<u>ZL-TSD8-120</u>	1	\$43.50	0.22
Description **	8-Channel Transient Voltage Suppressor Module, 24VDC				8-Channel Transient Voltage Suppressor Module, 120VAC			
Number of Circuits	8							
UL Voltage Rating	24VDC Voltage Breakdown: Min: 28.5 VDC Normal: 30VDC Max: 31.5 VDC				120VAC Voltage Breakdown: Min: 209 Normal: 220 Max: 231			
Peak Power Dissipation	1500W surge capability at 1ms							
Maximum Surge Current	2A							
Terminal Block Contacts	Copper alloy, tin-lead plated							
1-Wire Range (Rated Cross Section) *	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)							
2-Wire Range (Rated Cross Section) *	16–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in-lbs (0.5 N-m)							
Surrounding Temperature Range	32 to 140°F (0 to 60°C)							
Cable/Wire Clearance	0.5 in (12.7 mm) Required							
Mounting Restrictions	None							
Approvals	File # E200031 UL, cUL, Class 1, Division 2, Groups A,B,C,D Hazardous Locations, CE, EN 61131-2:2007							

* Use conductors rated for 60°/75°C.

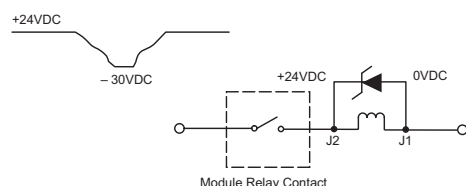
**Connecting cables are for internal wiring only.

The waveform in the figure below shows the energy released when opening a contact switching a 24VDC solenoid.

Notice the large voltage spike.

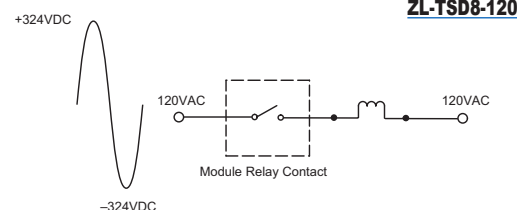


This figure shows the same circuit with a transorb (TVS) across the coil. Notice that the voltage spike is significantly reduced.

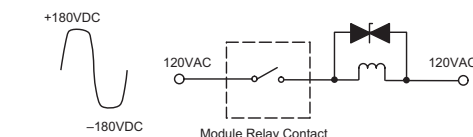


The waveform in the figure below shows the energy released when opening a contact switching a 120VAC solenoid.

Notice the large voltage spike.



This figure shows the same circuit with a transorb (TVS) across the coil. Notice that the voltage spike is significantly reduced.



Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



D-Sub Feedthrough Modules

Available in male and female, 9, 15 or 25-pin versions, these connector modules provide a fast, convenient transition between D-Sub connectors and field wiring through the use of screw terminals.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RTB-DB09

ZL-RTB-DB15

ZL-RTB-DB25

Specifications												
D-Sub Feedthrough Modules	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)
	ZL-RTB-DB09	1	\$34.50	0.08	ZL-RTB-DB15	1	\$44.00	0.13	ZL-RTB-DB25	1	\$55.00	0.32
Description 2	9-pin male and female D-sub to terminal blocks				15-pin male and female D-sub to terminal blocks				25-pin male and female D-sub to terminal blocks			
UL Voltage Rating 3	30VDC											
Maximum Current per Circuit	1A											
Number of Circuits	9				15				25			
Wire Range (Rated Cross Section) 1	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)											
Wire Strip Length	0.24–0.27 in (6–7 mm)											
Screw Torque	4.4 in-lbs (0.5 N·m)											
Surrounding Temperature Range	32 to 140°F (0 to 60°C)											
Terminal Block Contacts	Copper alloy, tin-lead plated											
Cable/Wire Clearances	0.5 in (12.7 mm) Required											
Mounting Restrictions	None											
Connecting Cables (Sold Separately)	ZL-DB9-CBL-2 Click on link: Connection Cable Specifications Tables .				ZL-DB15-CBL-2 Click on link: Connection Cable Specifications Tables .				ZL-DB25-CBL-2 Click on link: Connection Cable Specifications Tables .			
Approvals	File # E200031 UL, cUL, Class 1, Division 2, Groups A,B,C,D Hazardous Locations, CE, EN 61131-2:2007											

1 Use conductors rated for 60°/75°C.

2 Connecting cables are for internal wiring only.

3 Use Class 2 power supply.



Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



RJ12 and RJ45 Feedthrough Modules

The RJ12 and RJ45 feedthrough modules provide convenient break-out of wiring to terminal blocks.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-RTB-RJ12



ZL-RTB-RJ45

Specifications		
	Part #	
	<u>ZL-RTB-RJ12</u>	<u>ZL-RTB-RJ45</u>
Price	\$29.00	\$37.50
Pcs/Pkg	1	
Weight (lbs)	0.32	0.45
Description ³	RJ12 Connector to terminal block	RJ45 Connector to terminal block
UL Voltage Rating ¹	30VDC	
Maximum Current per Circuit	1A	
Number of Circuits	6	8
Terminal Block Contacts	Copper alloy, tin-lead plated	
Wire Range (Rated Cross Section) ²	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm ²)	
Wire Strip Length	0.24–0.27 in (6–7 mm)	
Screw Torque	4.4 in·lbs (0.5 N·m)	
Surrounding Temperature Range	32 to 140°F (0 to 60°C)	
Cable/Wire Clearance	0.5 in (12.7 mm) Required	
Mounting Restrictions	None	
Connecting Cables (Sold Separately)	ZL-RJ12-CBL-2, ZL-RJ12-CBL-2P, GS-RJ12-CBL-2, SVC-232RJ12-CBL-2 Click on link: Connection Cable Specifications Tables	Cat5e Cable w/RJ45 connectors
Approvals	File # E200031 UL, cUL, Class 1, Division 2, Groups A,B,C,D Hazardous Locations, CE, EN 61131-2:2007	File # E139594 UL, cUL, CE EN 61131-2:2007

¹ Use Class 2 power supply.

² Use conductors rated for 60°/75°C.

³ Connecting cables are for internal wiring only.



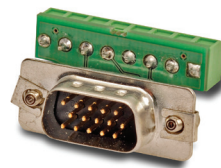
Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



Communications Port Adapters

Communication adaptors eliminate the hassle associated with connecting crimp or solder connectors to PLC communication ports. The communication adapters offer fast and convenient screw terminal connections for the DL06 CPUs.

The ZL-CMA15L adapter offers transmit and receive LEDs, a jumper selectable network termination resistor, and circuit surge protection.



ZL-CMA15



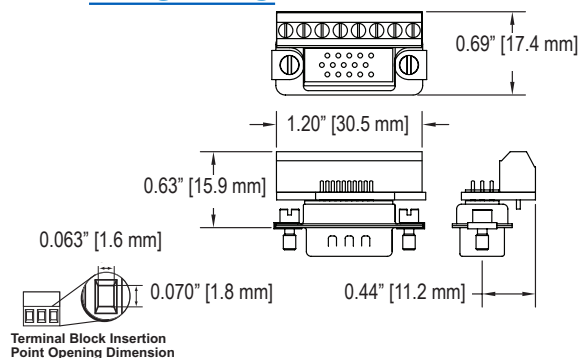
ZL-CMA15L

Specifications								
Communication Port Adapters	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)
	ZL-CMA15	1	\$18.00	0.04	ZL-CMA15L	1	\$55.00	0.06
Description	DL06, D2-250-1 and D2-260 PLC Port 2 adapter: HD 15-pin D-sub to terminal block							
Communications Interface	RS232, RS422, RS485							
Indication Transmit Data	N/A				Green LED			
Indication Receive Data	N/A				Green LED			
RS232 Surge Protection	N/A				2 Circuits clamped by Zener transient voltage suppressors			
RS422/485 Surge Protection	N/A				4 Circuits clamped by low capacitance Zener diodes			
RS422/485 Network Termination Resistor	N/A				Jumper Selectable 120Ω			
Voltage Rating 1	30VDC							
Maximum Current per Circuit	1A							
Supported Signal Types	RS422/485 TXD+ RS422/485 RXD+ RS232 TXD, +5VDC PWR				RS422/485 TXD- RS422/485 RXD- RS232 RXD Ground			
Terminal Block Contacts	Copper alloy, tin-lead plating							
Wire Range (Rated Cross Section) 2	16–30 AWG Solid or Stranded Conductor (1.5 mm²)				16–28 AWG Solid or Stranded Conductor (1.5 mm²)			
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	1.7 in-lbs (0.2 N-m)							
Operating Temperature Range	32 to 140°F (0 to 60°C)							
Approvals	File # E200031 Approved for use in Class 1 Division 2, Groups A, B, C, D Hazardous Locations							

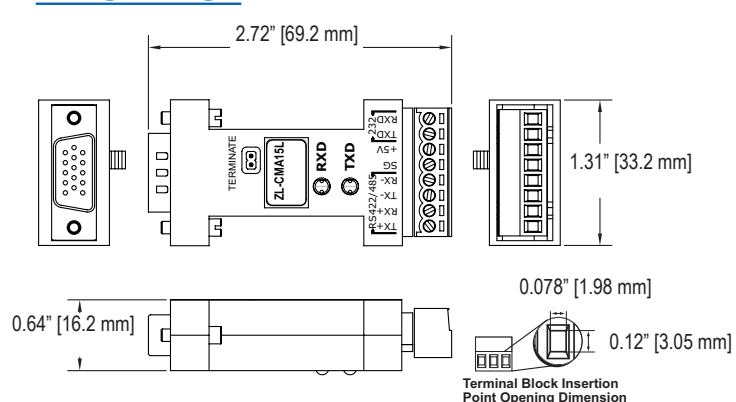
1 Use Class 2 power supply.

2 Use conductors rated for 60°/75°C.

ZL-CMA15



ZL-CMA15L



Note: See wiring details and dimensional drawings on our Web site at:
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



Communication Distribution Modules

The RJ12 multi-port distribution modules allow for fast and convenient RS485 multi-drop connections.

Uses include serial network communication multi-drop to GS series drives, DuraPulse drives and SureServo drives.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).



ZL-CDM-RJ12X4



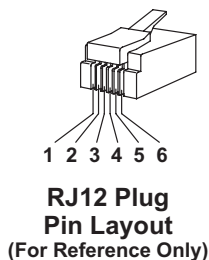
ZL-CDM-RJ12X10

Specifications								
Communication Distribution Modules	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)	Part #	Pcs/ Pkg	Price/Pkg	Weight (lbs)
	<u>ZL-CDM-RJ12X4</u>	1	\$29.00	0.14	<u>ZL-CDM-RJ12X10</u>	1	\$36.50	0.23
Description 2	4-port RJ12 Communication Distribution Module				10-port RJ12 Communication Distribution Module			
Voltage Rating 3	30VDC							
Maximum Current per Circuit	1A							
Number of Circuits per RJ12	6							
Terminal Block Contacts	Copper alloy, tin-lead plated							
Wire Range (Rated Cross Section) 1	12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)							
Wire Strip Length	0.24–0.27 in (6–7 mm)							
Screw Torque	4.4 in·lbs (0.5 N·m)							
Connecting Cables (Sold Separately)	<u>ZL-RJ12-CBL-2</u> , <u>ZL-RJ12-CBL-2P</u> , <u>GS-RJ12-CBL-2</u> , <u>SVC-232RJ12-CBL-2</u> Click on link: Connection Cable Specifications Tables .							
Surrounding Temperature Range	32 to 140°F (0 to 60°C)							
Cable/Wire Clearances	0.5 in (12.7 mm) Required							
Mounting Restrictions	None							
Approvals	File # E200031 UL, cUL, Class 1, Division 2, Groups A,B,C,D Hazardous Locations, CE, EN 61131-2:2007							

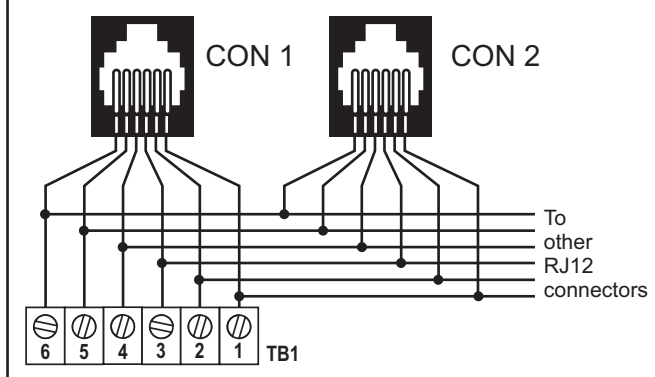
1 Use conductors rated for 60°/75°C.

2 Connecting cables are for internal wiring only.

3 Use Class 2 power supply.



ZL-CDM-RJ12n Typical Internal Circuit



Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



Accessories

Replacement Relays

Replacement relays are offered with a 24VDC coil or 120VAC coil and are for use with the **ZIPLink** relay modules.

Sold in packages of 4.



ZL-RELAY-24X4
\$21.50



ZL-RELAY-120X4
\$29.00

24VDC Relay Specifications			
Contact		Coil	
Current Rating	30VDC @ 10A 250VAC @ 8A General Use	Input Voltage Range	24VDC (-20%/+30%)
		Maximum Continuous Coil Voltage	31.2 VDC
Contact Type	1 Form C (SPDT)	Rated Current per Coil	16.7 mA (±10%) @ 24VDC
Contact Voltage (per point)	250VAC/30VDC	Coil Resistance	1440Ω (±10%)
Maximum Power Inductive	2000VA General Use	Power Consumption per Coil	0.4 W
Maximum Power Resistive	AC 2000VA, DC 300W	Pick Up Current Max. per Coil	15mA
Maximum Switching Voltage	250VAC, 110VDC	Drop-Out Voltage Min.	1.2 VDC
Minimum Load	10mA @ 5VDC	Pick-Up Voltage Max.	19.2 VDC
Contact Resistance	100mΩ Max @ 1A, 6VDC	Off to On/On to Off Response Time	12ms/8ms
Contact Material	AgNi (Silver Nickel Alloy)	Weight (lbs)	0.11
120VAC Relay Specifications			
Contact		Coil	
Current Rating	30VDC @ 10A 250VAC @ 8A General Use	Input Voltage Range	115VAC (-20%/+30%), 50–60Hz
		Maximum Continuous Coil Voltage	150VAC
Contact Voltage (per point)	250VAC/30VDC	Rated Current per Coil	7.65 mA (±10%) @ 115VAC 50Hz
			6.30 mA (±10%) @ 115VAC 60Hz
Maximum Power Inductive	2000VA General Use	Coil Resistance	8100Ω (±10%)
Maximum Power Resistive	AC 2000VA, DC 300W	Power Consumption per Coil	0.88 W @ 50Hz 0.73 W @ 60Hz
Maximum Switching Voltage	250VAC, 110VDC	Drop-Out Voltage Min.	34.5 VAC
Minimum Load	10mA @ 5VDC	Pick-Up Voltage Max.	92VAC
Contact Resistance	100mΩ Max @ 1A, 6VDC	Off to On / On to Off Response Time	12ms/8ms
Contact Material	AgNi (Silver Nickel Alloy)	Weight (lbs)	0.11

Installation Accessories

Accessories			
	Part #	Pcs/Pkg	Price/Pkg
DIN Rail	DN-R35S1	10	\$39.00
Angled Support Bracket	DN-ASB1	50	\$107.00
End Bracket	DN-EB35	50	\$67.00



Accessories

Replacement Relays

Replacement 24VDC relays are offered for use with the **ZIPLink** relay modules [ZL-RRL16F-24-1/-2](#) and [ZL-RRL16HDF-24-1/-2](#).

Sold in packages of 4.



ZL-RELAY-F24X4
\$24.00



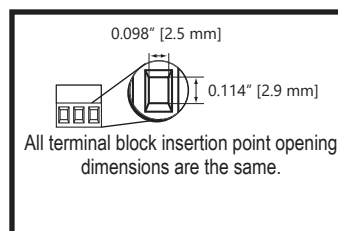
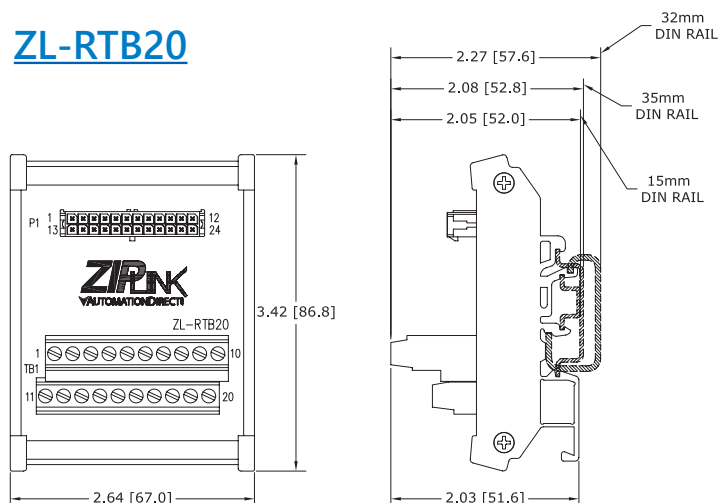
ZL-RELAY-HDF24X4
\$23.50

ZL-RELAY-F24x4 24VDC Relay Specifications			
Contact		Coil	
Current Rating	30VDC @ 8A 250VAC @ 8A General Use	Input Voltage Range	24VDC (-20%/+30%)
		Maximum Continuous Coil Voltage	31.2 VDC
Contact Type	1 Form C (SPDT)	Rated Current per Coil	16.7 mA (±10%) @ 24VDC
Contact Voltage (per point)	250VAC / 30VDC	Coil Resistance	1440Ω (±10%)
Maximum Power Inductive	2000VA General Use	Power Consumption per Coil	0.4 W
Maximum Power Resistive	AC 2000VA, DC 240W	Pick Up Current Max. per Coil	15mA
Maximum Switching Voltage	250VAC, 300VDC	Drop-Out Voltage Min.	1.2 VDC
Minimum Load	10mA @ 5VDC	Pick-Up Voltage Max.	19.2 VDC
Contact Resistance	100mΩ Max @ 1A, 6VDC	Off to On/On to Off Response Time	12ms/8ms
Contact Material	AgNi (Silver Nickel Alloy)	Weight (lbs)	0.11
ZL-RELAY-HDF24x4 24VDC Relay Specifications			
Contact		Coil	
Current Rating	30VDC @ 5A 250VAC @ 5A General Use	Input Voltage Range	24VDC (-20%/+30%)
		Maximum Continuous Coil Voltage	31.2 VDC
Contact Type	1 Form C (SPDT)	Rated Current per Coil	16.7 mA (±10%) @ 24VDC
Contact Voltage (per point)	250VAC / 30VDC	Coil Resistance	3388Ω (±10%)
Maximum Power Inductive	1250VA General Use	Power Consumption per Coil	0.17 W
Maximum Power Resistive	AC 1250VA; DC 150W	Drop-Out Voltage Min.	1.2 VDC (TBD)
Maximum Switching Voltage	250VAC, 30VDC	Pick-Up Voltage Max.	19.2 VDC
Minimum Load	10mA @ 5VDC	Off to On/On to Off Response Time	8ms/4ms
Contact Resistance	100mΩ Max @ 1A, 6VDC	Weight (lbs)	0.11
Contact Capacity	D300, 0.8 A/240VAC Pilot Duty FLA 2A @ 277VAC / 125VAC 1/8 HP @ 250VAC		
Contact Material	AgNi (Silver Nickel Alloy)		

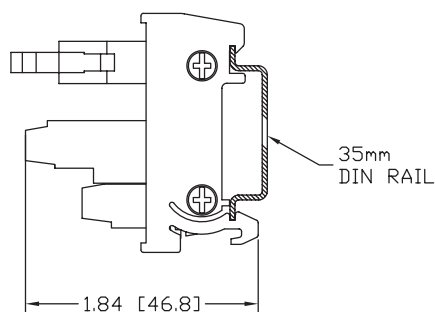
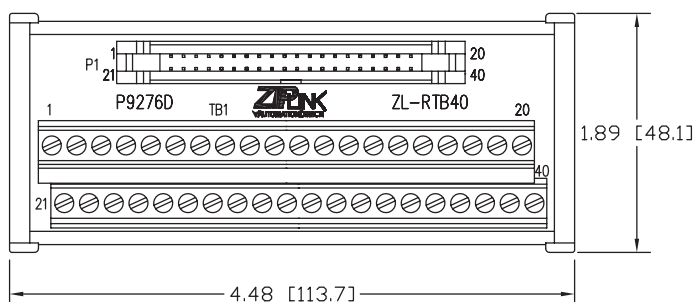


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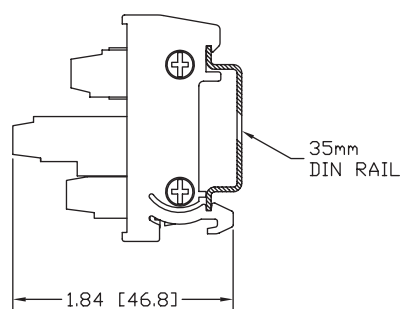
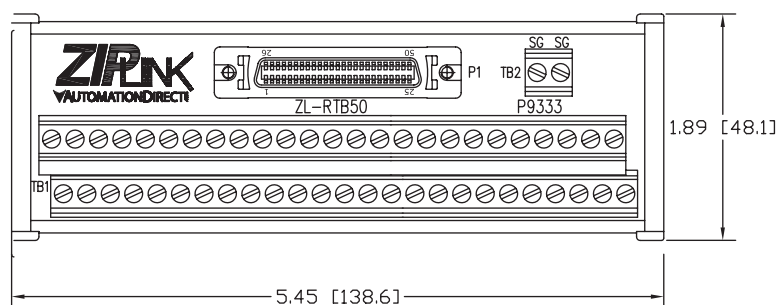
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ZL-RTB40



ZL-RTB50

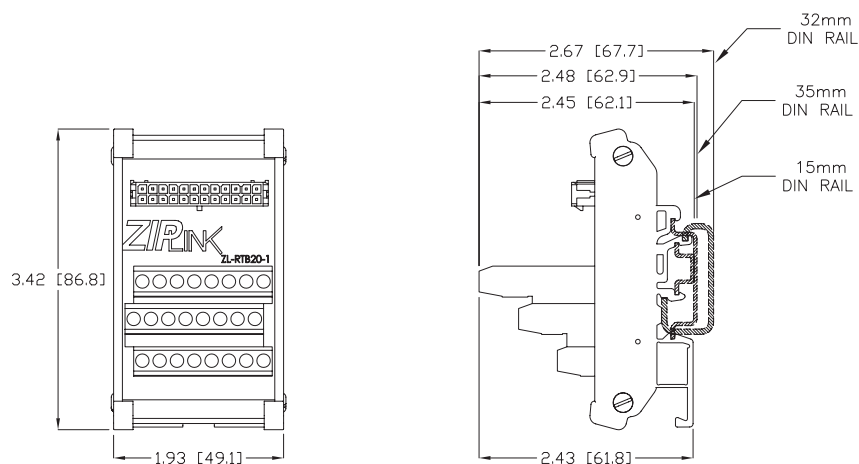


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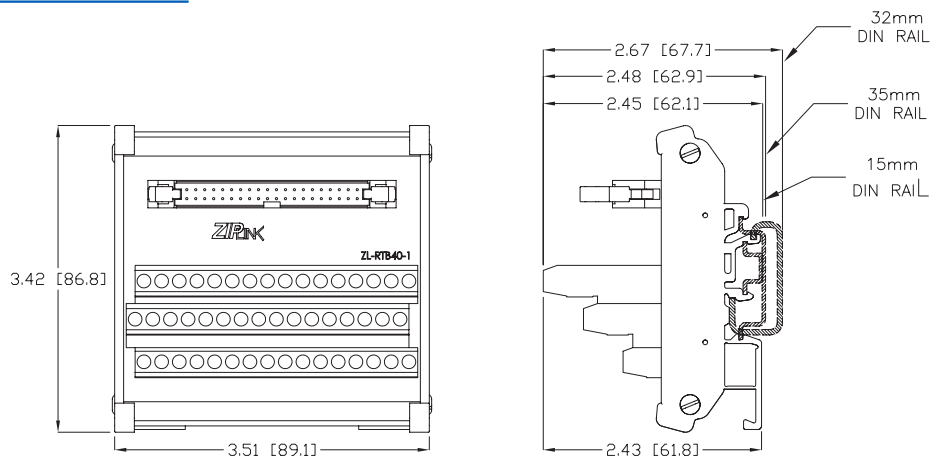


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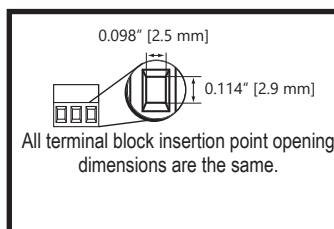
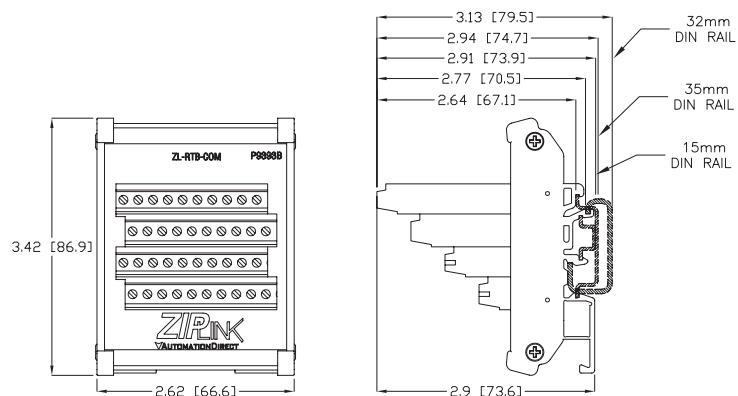
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ZL-RTB40-1



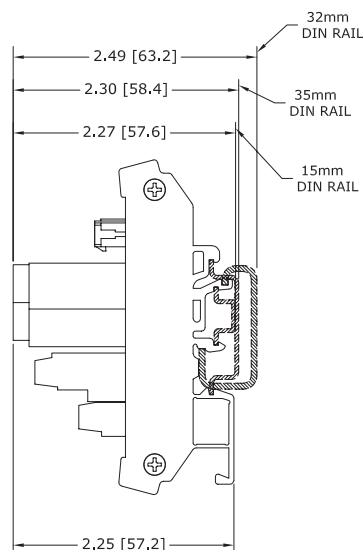
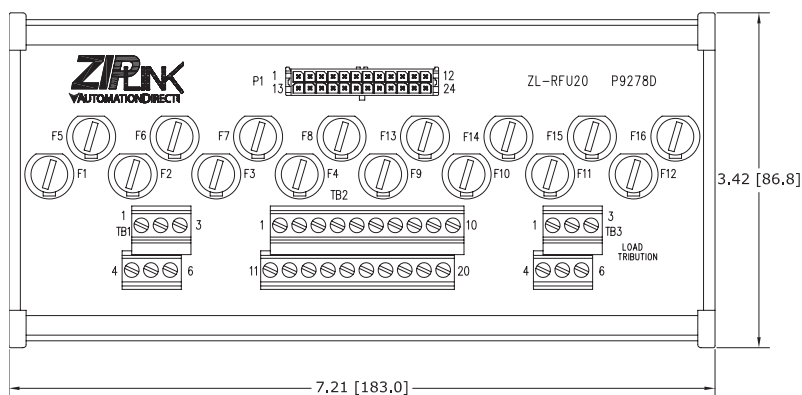
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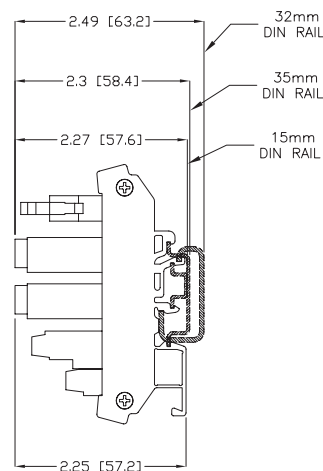
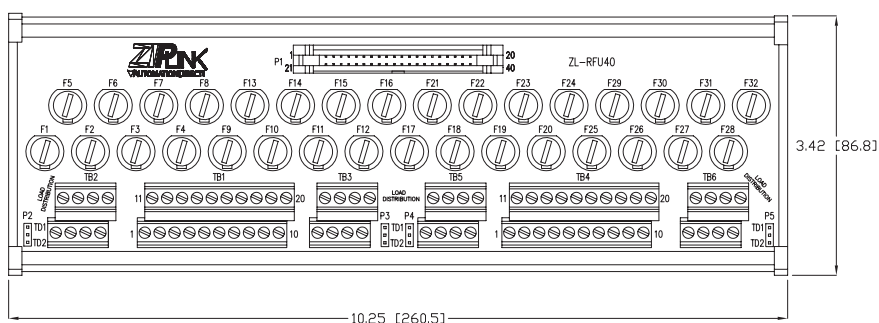


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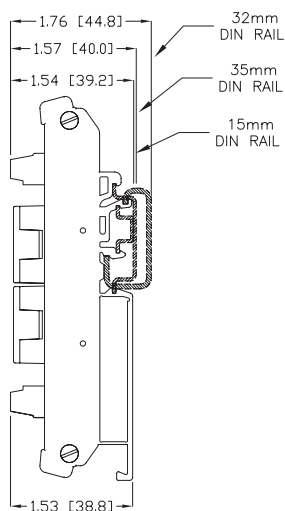
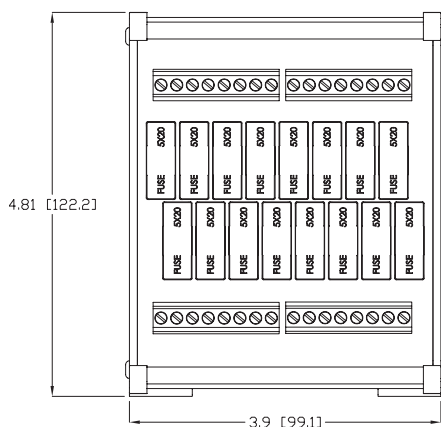
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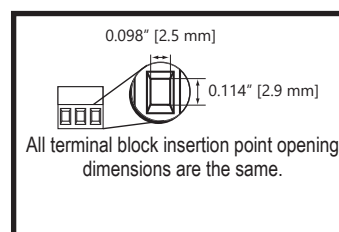
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ZL-FUSE-16



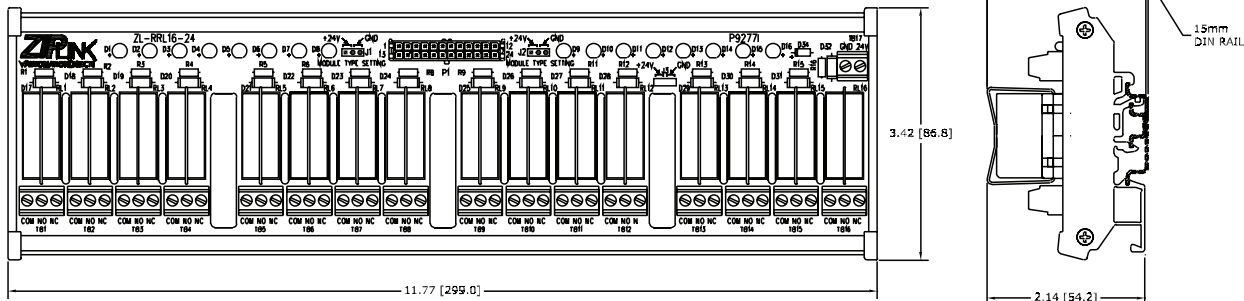
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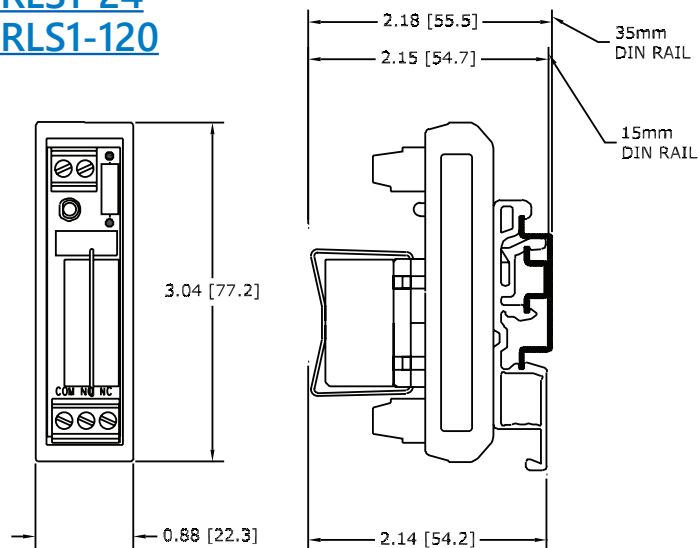


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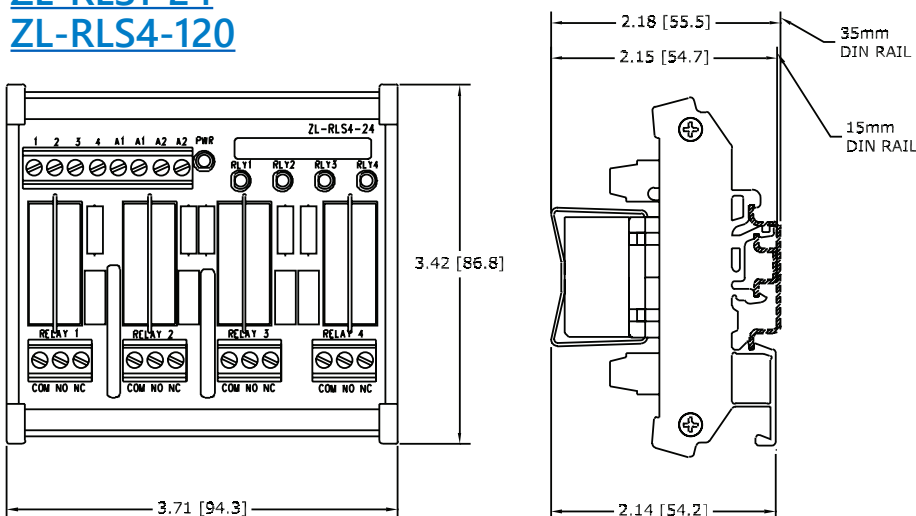
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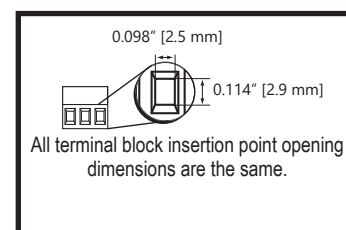
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ZL-RLS1-24 ZL-RLS4-120



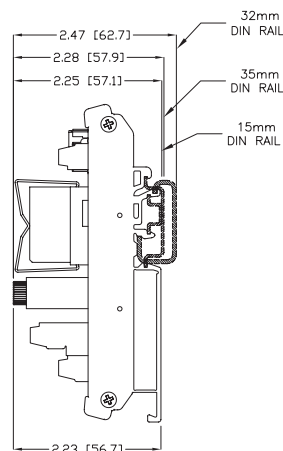
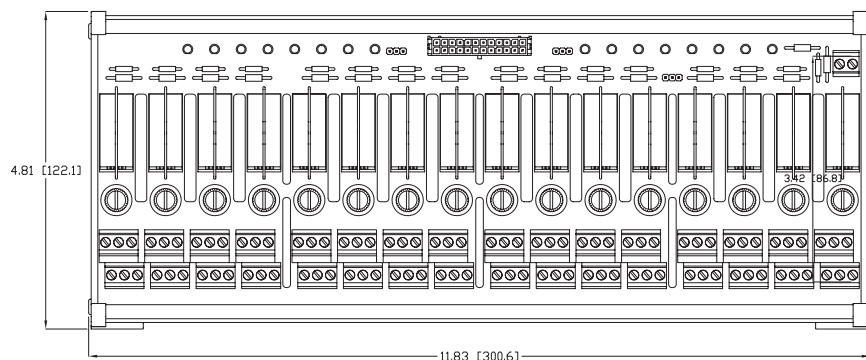
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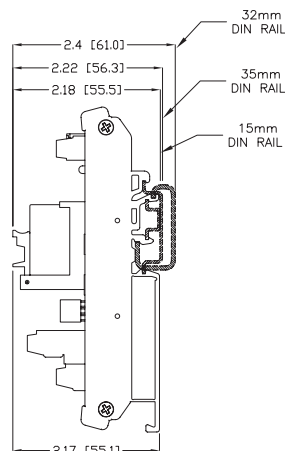
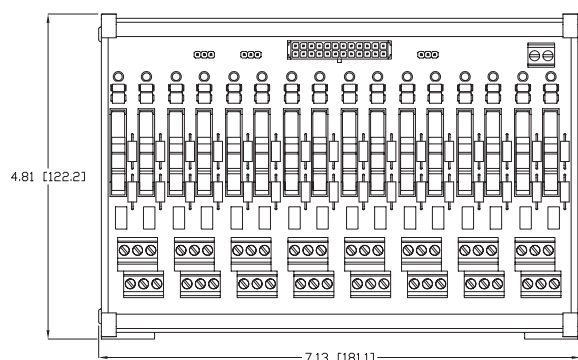


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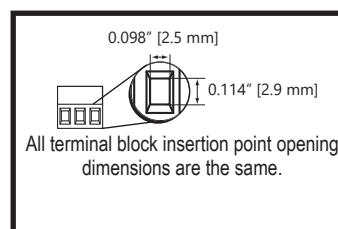
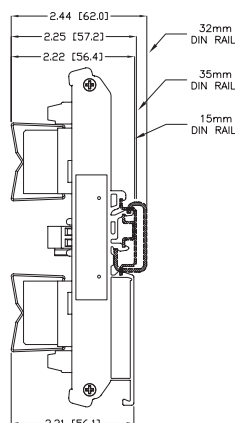
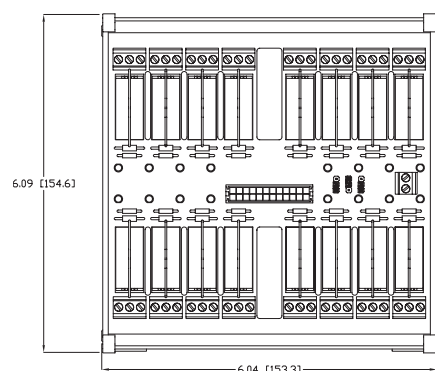
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ZL-RRL16HDF-24-1



ZL-RRL16W-24-1 ZL-RRL16W-24-2

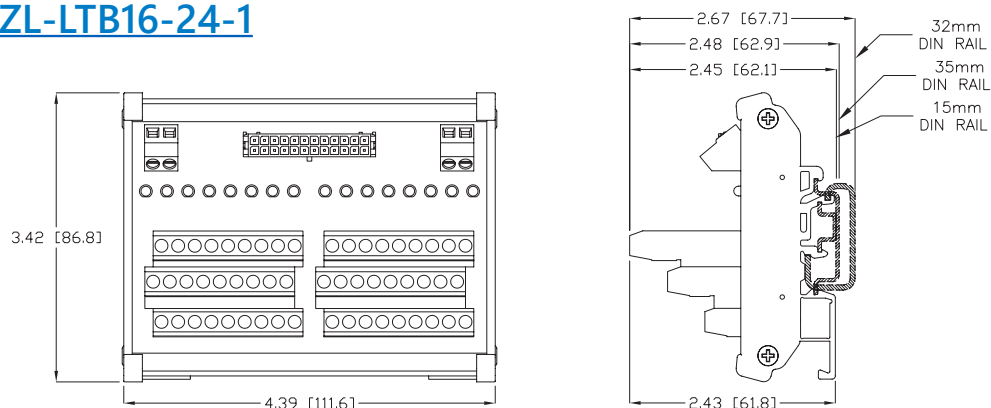


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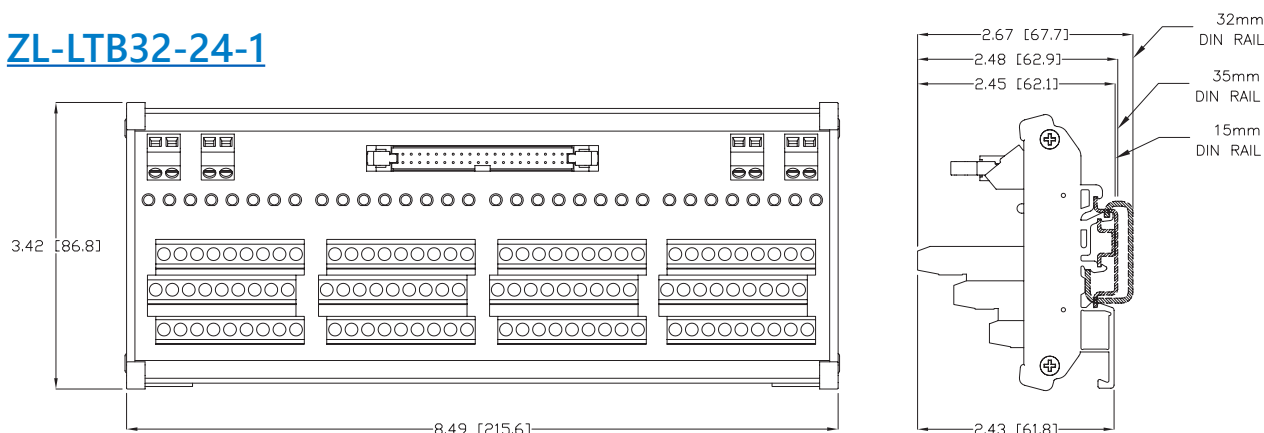


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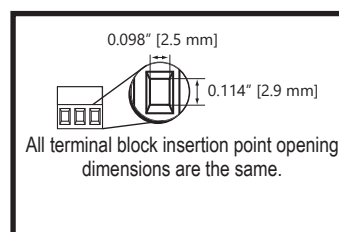
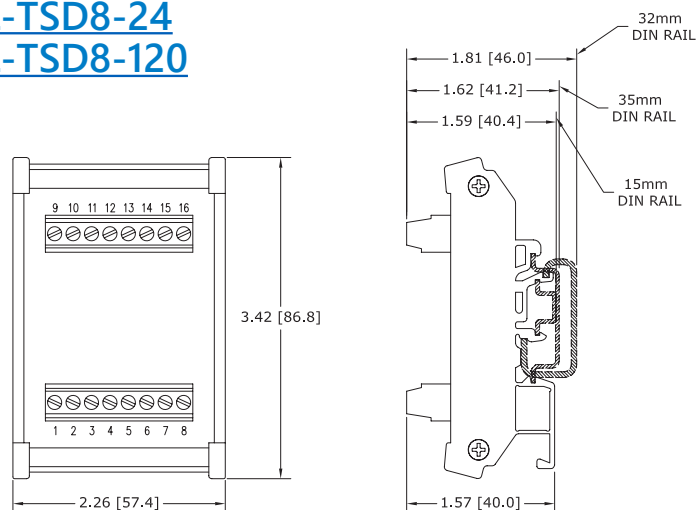
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ZL-LTB32-24-1



ZL-TSD8-24 ZL-TSD8-120

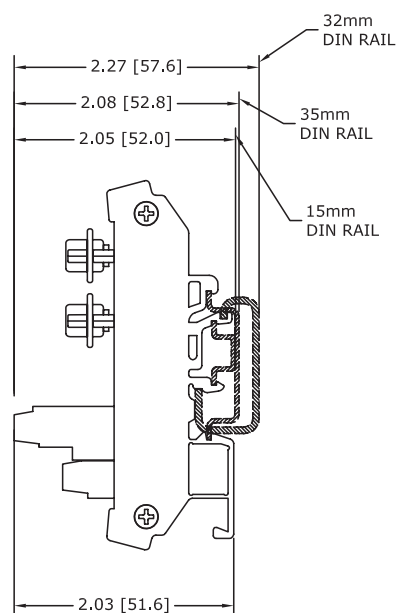
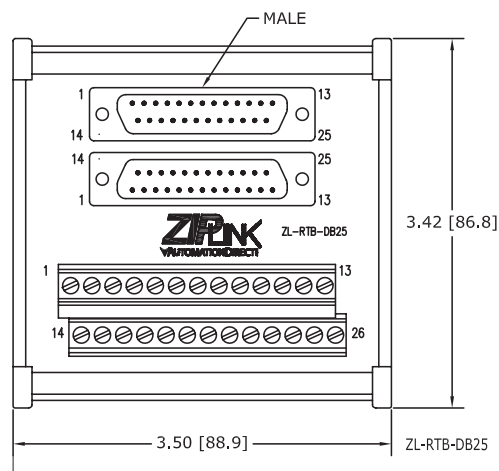


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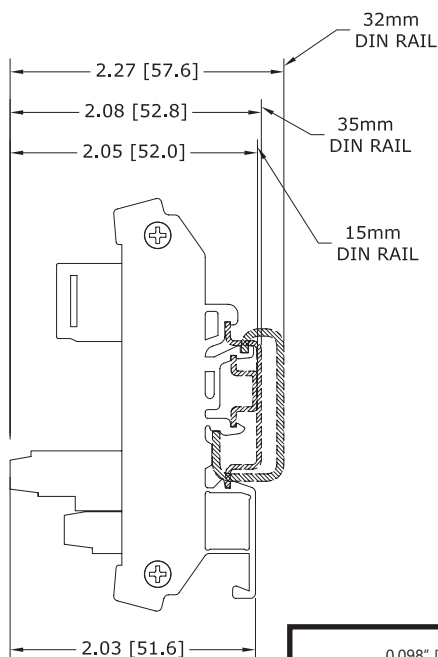
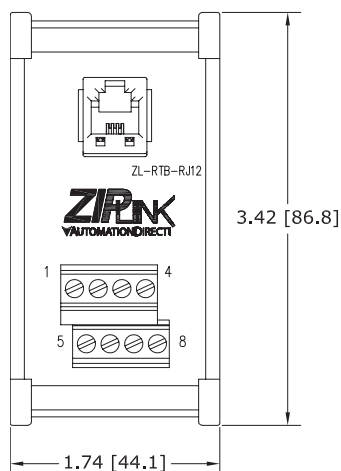
ZIP LINK™ Module Dimensions

VAUTOMATIONDIRECT

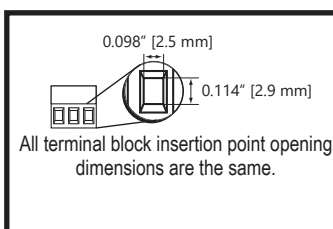
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ZL-RTB-RJ12



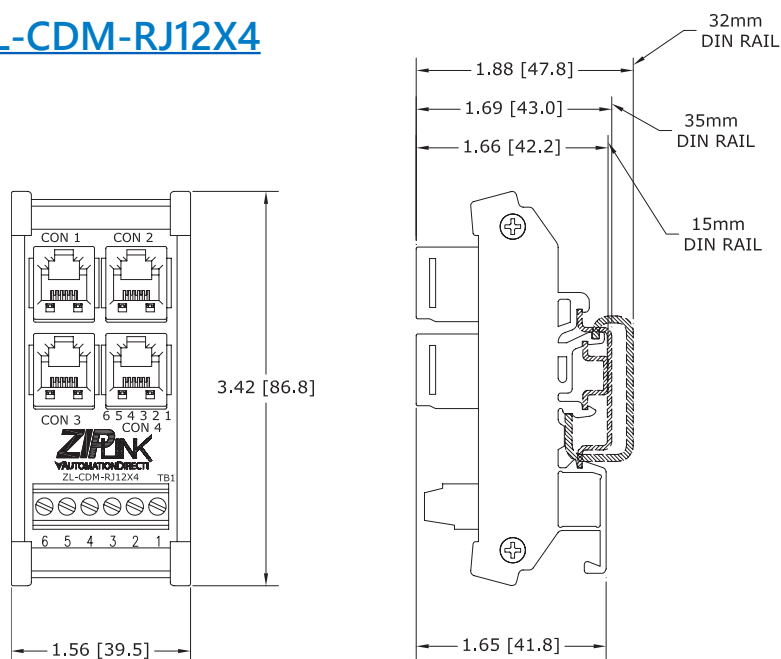
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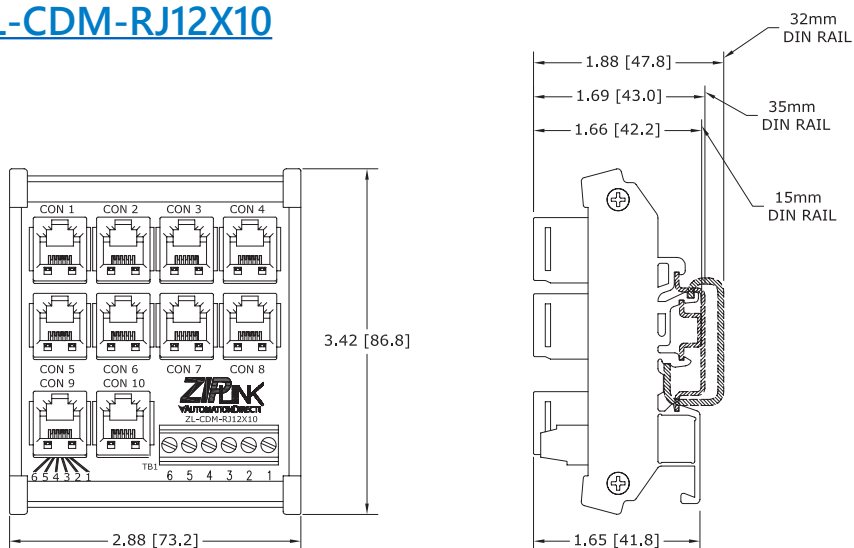


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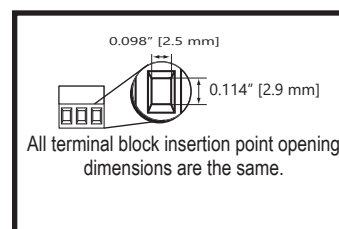
ZL-CDM-RJ12X4



ZL-CDM-RJ12X10



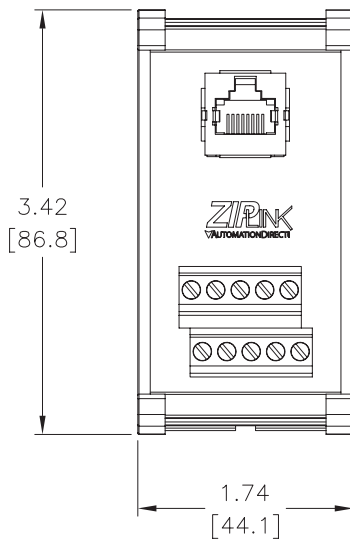
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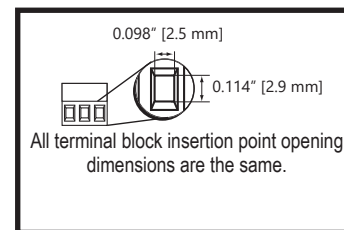
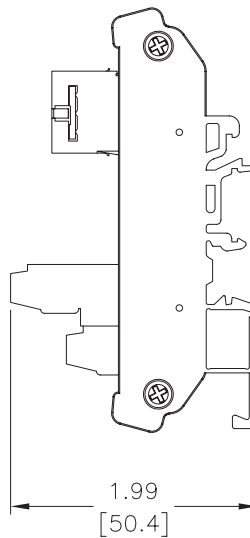


Module Dimensions

ZL-RTB-RJ45



Note: Dimensions shown in Inches [mm]





Connection Cables

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
BRX ZIPLink Cables				
<u>ZL-BX-CBL15</u>	ZIPLink PLC I/O cable, 15-position terminal block to 24-pin connector, 1.6ft/0.5m cable length. For use with BRX 18-point and 36-point PLCs.	300V, 80°C	0.3	\$30.50
<u>ZL-BX-CBL15-1</u>	ZIPLink PLC I/O cable, 15-position terminal block to 24-pin connector, 3.2ft/1m cable length. For use with BRX 18-point and 36-point PLCs.	300V, 80°C	0.4	\$35.50
<u>ZL-BX-CBL15-2</u>	ZIPLink PLC I/O cable, 15-position terminal block to 24-pin connector, 6.5ft/2m cable length. For use with BRX 18-point and 36-point PLCs.	300V, 80°C	0.7	\$28.50
<u>ZL-BX-CBL15-1P</u>	ZIPLink PLC I/O cable, 15-position terminal block to pigtail, 3.2ft/1m cable length. For use with BRX 18-point and 36-point PLCs.	300V, 80°C	0.4	\$24.50
<u>ZL-BX-CBL15-2P</u>	ZIPLink PLC I/O cable, 15-position terminal block to pigtail, 6.5ft/2m cable length. For use with BRX 18-point and 36-point PLCs.	300V, 80°C	0.6	\$25.50
<u>ZL-BX-CBL20</u>	ZIPLink PLC I/O cable, 20-position terminal block to 24-pin connector, 1.6ft/0.5m cable length. For use with BRX 10-point PLCs.	300V, 80°C	0.3	\$23.50
<u>ZL-BX-CBL20-1</u>	ZIPLink PLC I/O cable, 20-position terminal block to 24-pin connector, 3.2ft/1m cable length. For use with BRX 10-point PLCs.	300V, 80°C	0.5	\$25.50
<u>ZL-BX-CBL20-2</u>	ZIPLink PLC I/O cable, 20-position terminal block to 24-pin connector, 6.5ft/2m cable length. For use with BRX 10-point PLCs.	300V, 80°C	0.7	\$31.00
<u>ZL-BX-CBL20-1P</u>	ZIPLink PLC I/O cable, 20-position terminal block to pigtail, 3.2ft/1m cable length. For use with BRX 10-point PLCs.	300V, 80°C	0.4	\$21.50
<u>ZL-BX-CBL20-2P</u>	ZIPLink PLC I/O cable, 20-position terminal block to pigtail, 6.5ft/2m cable length. For use with BRX 10-point PLCs.	300V, 80°C	0.7	\$28.50
<u>ZL-BX-CBL40-S</u>	ZIPLink PLC I/O cable, 40-pin connector to 40-pin connector, shielded, 1.6ft/0.5m cable length. For use with BRX series high-speed modules.	300V, 80°C	0.5	\$35.00
<u>ZL-BX-CBL40-1S</u>	ZIPLink PLC I/O cable, 40-pin connector to 40-pin connector, shielded, 3.2ft/1m cable length. For use with BRX series high-speed modules.	300V, 80°C	0.7	\$43.50
<u>ZL-BXEM-CBL10</u>	ZIPLink PLC I/O cable, 10-position terminal block to 24-pin connector, 1.6ft/0.5m cable length. For use with BRX 8-point expansion modules.	300V, 80°C	0.3	\$18.00
<u>ZL-BXEM-CBL10-1</u>	ZIPLink PLC I/O cable, 10-position terminal block to 24-pin connector, 3.2ft/1m cable length. For use with BRX 8-point expansion modules.	300V, 80°C	0.4	\$21.50
<u>ZL-BXEM-CBL10-2</u>	ZIPLink PLC I/O cable, 10-position terminal block to 24-pin connector, 6.5ft/2m cable length. For use with BRX 8-point expansion modules.	300V, 80°C	0.7	\$24.50
<u>ZL-BXEM-CBL10-1P</u>	ZIPLink PLC I/O cable, 10-position terminal block to pigtail, 3.2ft/1m cable length. For use with BRX 8-point expansion modules.	300V, 80°C	0.4	\$18.00
<u>ZL-BXEM-CBL10-2P</u>	ZIPLink PLC I/O cable, 10-position terminal block to pigtail, 6.5ft/2m cable length. For use with BRX 8-point expansion modules.	300V, 80°C	0.6	\$24.00
<u>ZL-BXEM-CBL15</u>	ZIPLink PLC I/O cable, 15-position terminal block to 24-pin connector, 1.6ft/0.5m cable length. For use with BRX 5-point and 12-point expansion modules.	300V, 80°C	0.3	\$20.50
<u>ZL-BXEM-CBL15-1</u>	ZIPLink PLC I/O cable, 15-position terminal block to 24-pin connector, 3.2ft/1m cable length. For use with BRX 5-point and 12-point expansion modules.	300V, 80°C	0.5	\$21.00
<u>ZL-BXEM-CBL15-2</u>	ZIPLink PLC I/O cable, 15-position terminal block to 24-pin connector, 6.5ft/2m cable length. For use with BRX 5-point and 12-point expansion modules.	300V, 80°C	0.7	\$26.50
<u>ZL-BXEM-CBL15-1P</u>	ZIPLink PLC I/O cable, 15-position terminal block to pigtail, 3.2ft/1m cable length. For use with BRX 5-point and 12-point expansion modules.	300V, 80°C	0.4	\$20.00
<u>ZL-BXEM-CBL15-2P</u>	ZIPLink PLC I/O cable, 15-position terminal block to pigtail, 6.5ft/2m cable length. For use with BRX 5-point and 12-point expansion modules.	300V, 80°C	0.7	\$23.00
<u>ZL-BXEM-CBL20</u>	ZIPLink PLC I/O cable, 20-position terminal block to 24-pin connector, 1.6ft/0.5m cable length. For use with BRX 16-point expansion modules.	300V, 80°C	0.3	\$30.50
<u>ZL-BXEM-CBL20-1</u>	ZIPLink PLC I/O cable, 20-position terminal block to 24-pin connector, 3.2ft/1m cable length. For use with BRX 16-point expansion modules.	300V, 80°C	0.5	\$29.00
<u>ZL-BXEM-CBL20-2</u>	ZIPLink PLC I/O cable, 20-position terminal block to 24-pin connector, 6.5ft/2m cable length. For use with BRX 16-point expansion modules.	300V, 80°C	0.7	\$36.00
<u>ZL-BXEM-CBL20-1P</u>	ZIPLink PLC I/O cable, 20-position terminal block to pigtail, 3.2ft/1m cable length. For use with BRX 16-point expansion modules.	300V, 80°C	0.4	\$30.50
<u>ZL-BXEM-CBL20-2P</u>	ZIPLink PLC I/O cable, 20-position terminal block to pigtail, 6.5ft/2m cable length. For use with BRX 16-point expansion modules.	300V, 80°C	0.7	\$31.50

**ZL-BX-CBL15****ZL-BX-CBL20-1P****ZL-BXEM-CBL20****ZL-BXEM-CBL20-1P**

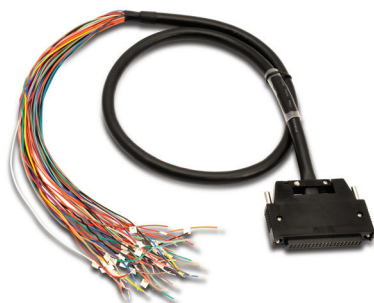


Connection Cables (cont.)

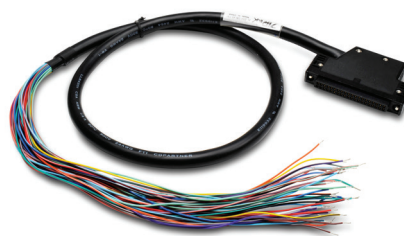
ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
BRX ZIPLink Cables, continued				
<u>ZL-D24-CBL40</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$40.50
<u>ZL-D24-CBL40-1</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$47.50
<u>ZL-D24-CBL40-2</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$62.00
<u>ZL-D24-CBL40-X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$62.00
<u>ZL-D24-CBL40-1X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$71.00
<u>ZL-D24-CBL40-2X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$87.00
<u>ZL-D24-CBL40-1P</u>	Cable w/180° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$43.50
<u>ZL-D24-CBL40-2P</u>	Cable w/180° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$59.00
<u>ZL-D24-CBL40-1XP</u>	Cable w/45° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$64.00
<u>ZL-D24-CBL40-2XP</u>	Cable w/45° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$80.00



ZL-D24-CBL40



ZL-D24-CBL40-1P



ZL-D24-CBL40-1XP



Connection Cables (cont.)

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
CLICK ZIPLink Cables				
<u>ZL-C0-CBL11</u>	Cable for module with 11 terminals to 24-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.21	\$28.50
<u>ZL-C0-CBL11-1</u>	Cable for module with 11 terminals to 24-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.31	\$31.50
<u>ZL-C0-CBL11-2</u>	Cable for module with 11 terminals to 24-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$37.00
<u>ZL-C0-CBL11-1P</u>	Cable for module with 11 terminals to pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.21	\$28.50
<u>ZL-C0-CBL11-2P</u>	Cable for module with 11 terminals to pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.26	\$34.50
<u>ZL-C0-CBL20</u>	Cable for module with 20 terminals to 24-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.25	\$31.50
<u>ZL-C0-CBL20-1</u>	Cable for module with 20 terminals to 24-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.31	\$35.00
<u>ZL-C0-CBL20-2</u>	Cable for module with 20 terminals to 24-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$42.50
<u>ZL-C0-CBL20-1P</u>	Cable for module with 20 terminals to pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.21	\$31.50
<u>ZL-C0-CBL20-2P</u>	Cable for module with 20 terminals to pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.26	\$39.50
DL05 and DL06 ZIPLink Cables				
<u>ZL-D0-CBL13</u>	Cable for module with 13 terminals to 24-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.26	\$24.50
<u>ZL-D0-CBL24</u>	Cable for module with 24-pin connector to 24-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.26	\$29.00
<u>ZL-D0-CBL24-1</u>	Cable for module with 24-pin connector to 24-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.36	\$31.50
<u>ZL-D0-CBL24-2</u>	Cable for module with 24-pin connector to 24-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$40.00
<u>ZL-D0-CBL24-L</u>	Cable for module with 24-pin connector to 24-pin connector for LED module, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.26	\$29.50
<u>ZL-D0-CBL24-1L</u>	Cable for module with 24-pin connector to 24-pin connector for LED module, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.36	\$31.50
<u>ZL-D0-CBL24-2L</u>	Cable for module with 24-pin connector to 24-pin connector for LED module, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$40.00
<u>ZL-D0-CBL24-1P</u>	Cable for module with 24-pin connector to 24-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.26	\$24.50
<u>ZL-D0-CBL24-2P</u>	Cable for module with 24-pin connector to 24-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$30.50
<u>ZL-D06X-CBL20</u>	Cable used to connect DirectLOGIC 06 PLC fixed inputs with 20 terminals to the <u>ZL-RTB20</u> ZIPLink module with a 24-pin connector, can be used on the input side terminal block only, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$54.00
<u>ZL-D06Y-CBL20</u>	Cable used to connect DirectLOGIC 06 PLC fixed outputs with 20 terminals to the <u>ZL-RTB20</u> ZIPLink module with a 24-pin connector, can be used on the output side terminal block only, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$44.50

**[ZL-C0-CBL11](#)****[ZL-D0-CBL24-1](#)****[ZL-D0-CBL24-1P](#)**



Connection Cables (cont.)

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
Do-more / DL205 ZIPLink Cables				
<u>ZL-D2-CBL10</u>	Cable for module with 10 terminals to 24-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$31.00
<u>ZL-D2-CBL10-1</u>	Cable for module with 10 terminals to 24-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.61	\$34.50
<u>ZL-D2-CBL10-2</u>	Cable for module with 10 terminals to 24-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$42.50
<u>ZL-D2-CBL10-1P</u>	Cable for module with 10 terminals to pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.31	\$33.00
<u>ZL-D2-CBL10-2P</u>	Cable for module with 10 terminals to pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.46	\$39.50
<u>ZL-D2-CBL19</u>	Cable for module with 19 terminals to 24-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$55.00
<u>ZL-D2-CBL19-1</u>	Cable for module with 19 terminals to 24-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.61	\$59.00
<u>ZL-D2-CBL19-2</u>	Cable for module with 19 terminals to 24-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$64.00
<u>ZL-D2-CBL19-1P</u>	Cable for module with 19 terminals to pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.61	\$50.00
<u>ZL-D2-CBL19-2P</u>	Cable for module with 19 terminals to pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$58.00
<u>ZL-D24-CBL40</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$40.50
<u>ZL-D24-CBL40-1</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.61	\$47.50
<u>ZL-D24-CBL40-2</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$62.00
<u>ZL-D24-CBL40-X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$62.00
<u>ZL-D24-CBL40-1X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.61	\$71.00
<u>ZL-D24-CBL40-2X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$87.00
<u>ZL-D24-CBL40-1P</u>	Cable w/180° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$43.50
<u>ZL-D24-CBL40-2P</u>	Cable w/180° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$59.00
<u>ZL-D24-CBL40-1XP</u>	Cable w/45° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$64.00
<u>ZL-D24-CBL40-2XP</u>	Cable w/45° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$80.00
<u>ZL-D24-CON</u>	ZIPLink solder-style connector, 180°, 40-pin, qty. 2	N/A	0.36	\$47.00
<u>ZL-D24-CON-X</u>	ZIPLink solder-style connector, 105°, 40-pin, qty. 2	N/A	0.36	\$89.00

**ZL-D06X-CBL20****ZL-D2-CBL10****ZL-D24-CBL40****ZL-D2-CBL19-1P**



Connection Cables (cont.)

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
DL405 ZIPLink Cables				
<u>ZL-D24-CBL40</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$40.50
<u>ZL-D24-CBL40-1</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$47.50
<u>ZL-D24-CBL40-2</u>	Cable w/180° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$62.00
<u>ZL-D24-CBL40-X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$62.00
<u>ZL-D24-CBL40-1X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$71.00
<u>ZL-D24-CBL40-2X</u>	Cable w/45° plug for module with 40-pin connector to 40-pin connector, 24 AWG 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$87.00
<u>ZL-D24-CBL40-1P</u>	Cable w/180° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$43.50
<u>ZL-D24-CBL40-2P</u>	Cable w/180° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$59.00
<u>ZL-D24-CBL40-1XP</u>	Cable w/45° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$64.00
<u>ZL-D24-CBL40-2XP</u>	Cable w/45° plug for module with 40-pin connector to 40-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$80.00
<u>ZL-D24-CON</u>	ZIPLink solder-style connector, 180°, 40-pin, qty. 2	N/A	0.36	\$47.00
<u>ZL-D24-CON-X</u>	ZIPLink solder-style connector, 45°, 40-pin, qty. 2	N/A	0.36	\$89.00



ZL-D24-CBL40-1P



ZL-D24-CBL40-1XP



ZL-D24-CON Parts



Connection Cables (cont.)

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
Productivity1000 ZIPLink Cables				
<u>ZL-P1-CBL10</u>	Cable for module with 10 terminals to 24-pin 90-degree connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.26	\$25.50
<u>ZL-P1-CBL10-1</u>	Cable for module with 10 terminals to 24-pin 90-degree connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.38	\$25.50
<u>ZL-P1-CBL10-2</u>	Cable for module with 10 terminals to 24-pin 90-degree connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.63	\$29.50
<u>ZL-P1-CBL10-1P</u>	Cable for module with 10 terminals connector to 20-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.31	\$21.00
<u>ZL-P1-CBL10-2P</u>	Cable for module with 10 terminals connector to 20-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$23.00
<u>ZL-P1-CBL18</u>	Cable for module with 18 terminals to 24-pin 90-degree connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.28	\$27.00
<u>ZL-P1-CBL18-1</u>	Cable for module with 18 terminals to 24-pin 90-degree connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.41	\$27.00
<u>ZL-P1-CBL18-2</u>	Cable for module with 18 terminals to 24-pin 90-degree connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.66	\$29.00
<u>ZL-P1-CBL18-1P</u>	Cable for module with 18 terminals connector to 20-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.33	\$20.50
<u>ZL-P1-CBL18-2P</u>	Cable for module with 18 terminals connector to 20-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.58	\$23.00
Serial Communication ZIPLink Cables				
<u>ZL-RJ12-CBL-2</u>	Crossover cable with 6-pin RJ12 to 6-pin RJ12 connectors, 26 AWG, 6.6 ft. (2.0 m)	150V, 60°C	0.26	\$6.75
<u>ZL-RJ12-CBL-2P</u>	Cable with 6-pin RJ12 connector to 6-wire pigtail, 26 AWG, 6.6 ft. (2.0 m)	150V, 60°C	0.26	\$7.75

**[ZL-P1-CBL10-1](#)****[ZL-P1-CBL10-1P](#)****[ZL-RJ12-CBL-2](#)****[ZL-RJ12-CBL-2P](#)****[ZL-P1-CBL18-1](#)****[ZL-P1-CBL18-1P](#)**



Connection Cables (cont.)

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
Productivity®2000 ZIPLink Cables				
<u>ZL-P2-CBL18</u>	Cable for module with 18 terminals to 24-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$32.00
<u>ZL-P2-CBL18-1</u>	Cable for module with 18 terminals to 24-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.36	\$35.50
<u>ZL-P2-CBL18-2</u>	Cable for module with 18 terminals to 24-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$50.00
<u>ZL-P2-CBL18-1P</u>	Cable for module with 18-pin connector to 20-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$31.00
<u>ZL-P2-CBL18-2P</u>	Cable for module with 18-pin connector to 20-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$43.00
<u>ZL-P2-CBL24</u>	Cable for module with 24 terminals to 24-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$43.50
<u>ZL-P2-CBL24-1</u>	Cable for module with 24 terminals to 24-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$43.50
<u>ZL-P2-CBL24-2</u>	Cable for module with 24 terminals to 24-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$43.00
<u>ZL-P2-CBL24-1P</u>	Cable with 24-pin connector to 24-wire pigtail for connecting any 24-pin ZIPLink module to another device, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.36	\$43.50
<u>ZL-P2-CBL24-2P</u>	Cable with 24-pin connector to 24-wire pigtail for connecting any 24-pin ZIPLink module to another device, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$43.00
<u>ZL-P3-CBL40-1P</u>	ZIPLink PLC I/O cable, for Productivity Modules, 40-pin connector to pigtail, 24 AWG, 1.0 meter (3.3 ft.) length.	300V, 80°C	0.56	\$35.50
<u>ZL-P3-CBL40-2P</u>	ZIPLink PLC I/O cable, for Productivity Modules, 40-pin connector to pigtail, 24 AWG, 2.0 meter (6.6 ft.) length.	300V, 80°C	0.56	\$51.00
<u>ZL-CBL40-S</u>	Cable for module with 40-pin connector to 40-pin connector, shielded, 24 AWG, 1.6 ft. (0.5 m) (High-Speed I/O modules only)	300V, 80°C	0.4	\$36.50
<u>ZL-CBL40-1S</u>	Cable for module with 40-pin connector to 40-pin connector, shielded, 24 AWG, 3.3 ft. (1.0 m) (High-Speed I/O modules only)	300V, 80°C	0.7	\$46.50
<u>ZL-CBL40-2S</u>	Cable for module with 40-pin connector to 40-pin connector, shielded, 24 AWG, 6.6 ft. (2.0 m) (High-Speed I/O modules only)	300V, 80°C	1.2	\$61.00
Serial Communication ZIPLink Cables				
<u>ZL-RJ12-CBL-2</u>	Crossover cable with 6-pin RJ12 to 6-pin RJ12 connectors, 26 AWG, 6.6 ft. (2.0 m)	150V, 60°C	0.26	\$6.75
<u>ZL-RJ12-CBL-2P</u>	Cable with 6-pin RJ12 connector to 6-wire pigtail, 26 AWG, 6.6 ft. (2.0 m)	150V, 60°C	0.26	\$7.75

**[ZL-P2-CBL18-1](#)****[ZL-P2-CBL18-1P](#)****[ZL-RJ12-CBL-2](#)****[ZL-RJ12-CBL-2P](#)****[ZL-P2-CBL24-1P](#)**



Connection Cables (cont.)

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
Productivity3000 ZIPLink Cables				
<u>ZL-P3-CBL20</u>	Cable for module with 20 terminals to 20-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$44.50
<u>ZL-P3-CBL20-1</u>	Cable for module with 20 terminals to 20-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.36	\$53.00
<u>ZL-P3-CBL20-2</u>	Cable for module with 20 terminals to 20-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$61.00
<u>ZL-P3-CBL20-L</u>	Cable for module with 20-pin connector to 20-pin connector for LED module, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$50.00
<u>ZL-P3-CBL20-1L</u>	Cable for module with 20-pin connector to 20-pin connector for LED module, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.36	\$53.00
<u>ZL-P3-CBL20-2L</u>	Cable for module with 20-pin connector to 20-pin connector for LED module, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$61.00
<u>ZL-P3-CBL20-P</u>	Cable for module with 20-pin connector to 20-wire pigtail, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$48.00
<u>ZL-P3-CBL20-1P</u>	Cable for module with 20-pin connector to 20-wire pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$43.50
<u>ZL-P3-CBL20-2P</u>	Cable for module with 20-pin connector to 20-wire pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$53.00
<u>ZL-CBL40</u>	Cable for module with 40-pin connector to 40-pin connector, 24 AWG, 1.6 ft. (0.5 m)	300V, 80°C	0.36	\$31.50
<u>ZL-CBL40-1</u>	Cable for module with 40-pin connector to 40-pin connector, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.56	\$37.50
<u>ZL-CBL40-2</u>	Cable for module with 40-pin connector to 40-pin connector, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.61	\$51.00
<u>ZL-CBL40-S</u>	Cable for module with 40-pin connector to 40-pin connector, shielded, 24 AWG, 1.6 ft. (0.5 m) (High-Speed I/O modules only)	300V, 80°C	0.4	\$36.50
<u>ZL-CBL40-1S</u>	Cable for module with 40-pin connector to 40-pin connector, shielded, 24 AWG, 3.3 ft. (1.0 m) (High-Speed I/O modules only)	300V, 80°C	0.7	\$46.50
<u>ZL-CBL40-2S</u>	Cable for module with 40-pin connector to 40-pin connector, shielded, 24 AWG, 6.6 ft. (2.0 m) (High-Speed I/O modules only)	300V, 80°C	1.2	\$61.00
<u>ZL-P3-CBL40-1P</u>	Cable for module with 40 terminals to pigtail, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.41	\$35.50
<u>ZL-P3-CBL40-2P</u>	Cable for module with 40 terminals to pigtail, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$51.00
Universal ZIPLink Cables				
<u>ZL-CBL24-1P</u>	Cable with 24-pin connector to 24-wire pigtail for connecting any 24-pin ZIPLink module to another device, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.36	\$24.00
<u>ZL-CBL24-2P</u>	Cable with 24-pin connector to 24-wire pigtail for connecting any 24-pin ZIPLink module to another device, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$30.50
<u>ZL-DB9F-CBL-2P</u>	ZIPLink pigtail cable with 9-pin D-sub female connector, 28 AWG, 2.0 m (6.6 ft) length	300V, 80°C	0.30	\$12.00
<u>ZL-DB9F-CBL-5P</u>	ZIPLink pigtail cable with 9-pin D-sub female connector, 28 AWG, 5.0 m (16.4 ft) length	300V, 80°C	0.30	\$22.50
<u>ZL-CBL40-1P</u>	Cable that allows the <u>ZL-RTB40</u> , <u>ZL-RFU40</u> or <u>ZL-LTB32-24-1</u> to custom wire to third party devices, 24 AWG, 3.3 ft. (1.0 m)	300V, 80°C	0.41	\$37.00
<u>ZL-CBL40-2P</u>	Cable that allows the <u>ZL-RTB40</u> , <u>ZL-RFU40</u> or <u>ZL-LTB32-24-1</u> to custom wire to third party devices, 24 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$51.00
Serial Communication ZIPLink Cables				
<u>ZL-DB9-CBL-2</u>	Shielded cable with 9-pin D-sub male to female connectors, 28 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.36	\$10.00
<u>ZL-DB15-CBL-2</u>	Shielded cable with 15-pin D-sub male to female connectors, 28 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$13.50
<u>ZL-DB25-CBL-2</u>	Shielded cable with 25-pin D-sub male to female connectors, 28 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.56	\$16.00
<u>ZL-RJ12-CBL-2</u>	Crossover cable with 6-pin RJ12 to 6-pin RJ12 connectors, 26 AWG, 6.6 ft. (2.0 m)	150V, 60°C	0.26	\$6.75
<u>ZL-RJ12-CBL-2P</u>	Cable with 6-pin RJ12 connector to 6-wire pigtail, 26 AWG, 6.6 ft. (2.0 m)	150V, 60°C	0.26	\$7.75

[ZL-P3-CBL20-1](#)[ZL-CBL24-1P](#)[ZL-DB9-CBL-2](#)[ZL-RJ12-CBL-2](#)[ZL-DB9F-CBL-2P](#)[ZL-RJ12-CBL-2P](#)



Connection Cables (cont.)

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Weight (lbs)	Price
AC Drive, Servo, Stepper, and Soft Starter ZIPLink Cables				
<u>GS-RJ12-CBL-2</u>	RS232 cable with 6-pin RJ12 connector to 6-pin RJ12 connector for GS2 Series drives ONLY. 26 AWG, 6.6 ft. (2.0 m)	300V, 80°C	0.26	\$10.00
<u>GS-485HD15-CBL-2</u>	RS485 shielded twisted pair cable with 6-pin RJ12 to 15-pin male D-sub connector for all GS Series/DuraPulse drives, 28 AWG, 6.6 ft. (2.0 m)	30V, 80°C	0.26	\$11.00
<u>GS-485RJ12-CBL-2</u>	GS drive communication cable with 6-pin RJ12 connector to 6-pin RJ12 connector, 3-wire straight-through, 26 AWG, 6.6 ft. (2.0 m). Use this cable and a ZL-CDM-RJ12Xxx distribution module to create a plug and play RS-485 network. Connect multiple SureServo amplifiers, Stellar SR44 soft starters, GS series drives, and Durapulse series drives to a PLC via RS-485.	300V, 80°C	0.11	\$8.50
<u>GS-EDRV-CBL-2</u>	GS drive communication cable with 6-pin RJ12 connector to 6-pin RJ12 connector, 6-wire straight-through, 26 AWG, 6.6 ft. (2.0 m). Use this cable to connect GS series and Durapulse series drives to the <u>GS-EDRV</u> Ethernet communication module.	150V, 60°C	0.11	\$8.25
<u>GS-ISOCOCON-CBL-2</u>	ZIPLink GS drive cable, 6-pin RJ12 to 5-pin terminal block, 6.5ft/2m cable length. For use with GS series drives and <u>FA-ISOCOCON</u> converter.	150V, 60°C	0.11	\$12.00
<u>ZL-SVC-CBL50</u>	Shielded twisted pair cable with 50-pin connectors to connect any SureServo amplifier to a <u>ZL-RTB50</u> module, 28 AWG, 1.6 ft. (0.5 m)	30V, 80°C	0.36	\$48.50
<u>ZL-SVC-CBL50-1</u>	Shielded twisted pair cable with 50-pin connectors to connect any SureServo amplifier to a <u>ZL-RTB50</u> module, 28 AWG, 3.3 ft. (1.0 m)	30V, 80°C	0.46	\$51.00
<u>ZL-SVC-CBL50-2</u>	Shielded twisted pair cable with 50-pin connectors to connect any SureServo amplifier to a <u>ZL-RTB50</u> module, 28 AWG, 6.6 ft. (2.0 m)	30V, 80°C	0.56	\$58.00
<u>ZL-CBL50-1P</u>	SureServo cable used to connect any SureServo amplifier to custom wire to third party devices, 28AWG, 3.3 ft. (1.0 m)	30V, 80°C	0.46	\$53.00
<u>ZL-CBL50-2P</u>	SureServo cable used to connect any SureServo amplifier to custom wire to third party devices, 28AWG, 6.6 ft. (2.0 m)	30V, 80°C	0.56	\$57.00
<u>SVC-232RJ12-CBL-2</u>	RS232 shielded twisted pair cable with 6-pin RJ12 to 6-pin IEEE connector for all SureServo amplifiers, 6.6 ft. (2.0m)	30V, 80°C	0.16	\$12.50
<u>SVC-485HD15-CBL-2</u>	ZIPLink servo cable, 15-pin D-sub HD15 male to 6-pin IEEE connector, shielded, twisted pair, RS-485, 6.5ft/2m cable length. For use with SureServo amplifiers.	30V, 80°C	0.26	\$13.50
<u>SVC-485RJ12-CBL-2</u>	ZIPLink servo cable, 6-pin RJ12 to 6-pin IEEE connector, shielded, twisted pair, RS-485, 6.5ft/2m cable length. For use with SureServo amplifiers.	30V, 80°C	0.16	\$15.00
<u>SVC-485CFG-CBL-2</u>	ZIPLink servo cable, 6-pin RJ45 to 6-pin IEEE connector, shielded, twisted pair, RS-485, 6.5ft/2m cable length. For use with SureServo amplifiers.	30V, 80°C	0.16	\$18.50
<u>STP-232RJ12-CBL-2</u>	SureStep drive communication cable with 6P4C RJ11 connector to 6-pin RJ12 connector, 3-wire, RS-232, 26 AWG, 6.6 ft. (2.0 m). Use this cable to connect <u>STP-DRV-4850</u> or <u>STP-DRV-80100</u> stepper drives to a DL05 PLC or a CLICK PLC.	300V, 80°C	0.11	\$10.50
<u>STP-232HD15-CBL-2</u>	ZIPLink stepper cable, 6P4C RJ11 to 15-pin D-sub HD15 male, shielded, twisted pair, RS-232, 6.5ft/2m cable length. For use with SureStep drives.	30V, 80°C	0.21	\$17.00
<u>SR44-485HD15-CBL-2</u>	ZIPLink soft starter cable, 6-pin RJ45 to 15-pin D-sub HD15 male, shielded, twisted pair, RS-485, 6.5ft/2m cable length. For use with Stellar soft starters.	30V, 80°C	0.21	\$16.50
<u>SR44-485RJ45-CBL-2</u>	Stellar SR44 soft starter communication cable with 6-pin RJ45 connector to 6-pin RJ12 connector, 3-wire, RS-485, 26 AWG, 6.6 ft. (2.0 m). Use this cable and a ZL-CDM-RJ12Xxx distribution module to create a plug and play RS-485 network. Connect multiple SureServo amplifiers, Stellar SR44 soft starters (with optional <u>SR44-RS485</u> communication adapter), GS series drives, and Durapulse series drives to a PLC via RS-485.	30V, 80°C	0.16	\$13.50

[GS-485HD15-CBL-2](#)[SVC-232RJ12-CBL-2](#)[SVC-485HD15-CBL-2](#)[ZL-SVC-CBL50](#)[ZL-CBL50-1P](#)