

AutomationDirect Controllers and ZIPLinks



Modules



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

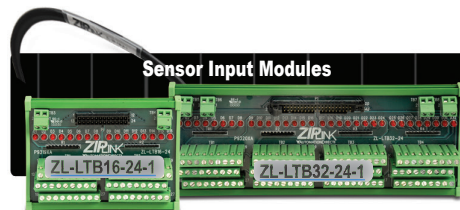


Fuse modules provide a means to add fuse protection to PLC output devices. The 16 and 32 point fuse modules provide easy accessible fuse holders that accept standard 5x20 mm fuses. Fuses not included.

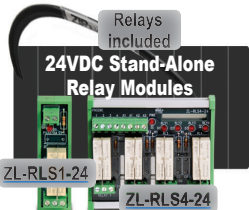


ZL-RRL16-24-1 (sink and source models available)

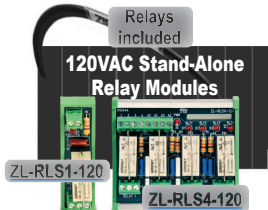
Our DC-powered relay module provides isolation, switches high current (10A) loads, is offered in 16 points, and includes diode protection to prevent voltage spikes at the relay coil from damaging connected PLC I/O



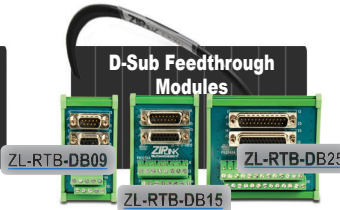
LED modules provide simple and logical termination for 3-wire sensors or other devices. These modules offer visual LED indication of device input status for quick troubleshooting. The LED/sensor modules are available in 16 and 32-point versions.



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



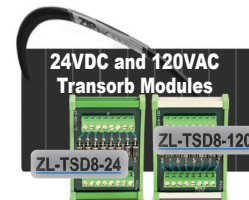
120 VAC Stand alone relay modules use plug-in relays for switching high current (10A) loads.



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



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



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



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



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.



ZIPLINK™ Wiring Solutions

AutomationDirect

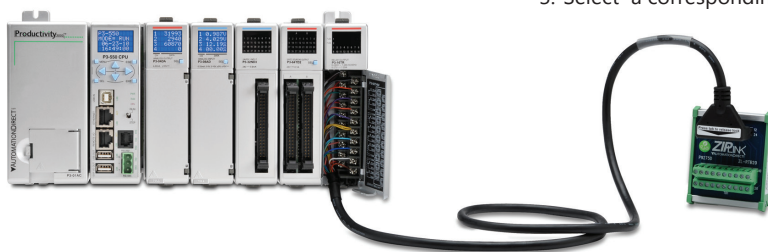
Wiring Solutions using the ZIPLink Wiring System

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.



ZIPLINK™ 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.



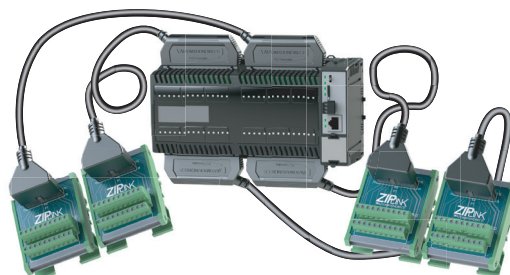


CPU I/O Modules to ZIPLink Connector Modules – BRX MPUs



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

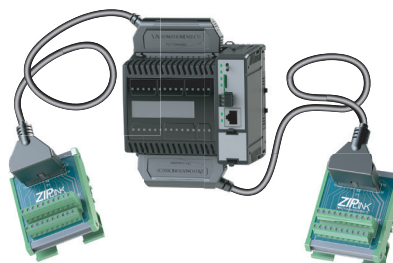
| BX 36/36E MPUs ZIPLink Selector | | | |
|-----------------------------------|------------------------------|------------------------------|----------------|
| Part No. | Feedthrough Modules | Cable Part No.* | Max Qty Needed |
| BX-DM1-36ED1 | | | |
| BX-DM1-36ED1-D | | | |
| BX-DM1-36ED2 | | | |
| BX-DM1-36ED2-D | | | |
| BX-DM1-36ER** | | | |
| BX-DM1-36ER-D** | | | |
| BX-DM1-36AR** | ZL-RTB20 (Standard) OR | ZL-BX-CBL15 ZL-BX-CBL15-1 | 4 |
| BX-DM1E-36ED13 | ZL-RTB20-1 (Compact) | ZL-BX-CBL15-2 | |
| 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 | | | |
| BX-DM1-18ED1-D | | | |
| BX-DM1-18ED2 | | | |
| BX-DM1-18ED2-D | | | |
| BX-DM1-18ER** | | | |
| BX-DM1-18ER-D** | | | |
| BX-DM1-18AR** | ZL-RTB20 (Standard) OR | ZL-BX-CBL15 ZL-BX-CBL15-1 | 2 |
| BX-DM1E-18ED13 | ZL-RTB20-1 (Compact) | ZL-BX-CBL15-2 | |
| 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 | | | |
| BX-DM1-10ED2-D | | | |
| BX-DM1-10ER-D** | | | |
| BX-DM1-10AR-D** | ZL-RTB20 (Standard) OR | ZL-BX-CBL20 ZL-BX-CBL20-1 | 1 |
| BX-DM1E-10ED13-D | ZL-RTB20-1 (Compact) | ZL-BX-CBL20-2 | |
| 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 |
| BX-08ND3 | ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact) | ZL-BXEM-CBL10 ZL-BXEM-CBL10-1 ZL-BXEM-CBL10-2 | 1 |
| BX-08NF3 | | | |
| BX-08NA | | | |
| BX-08NB | | | |
| BX-08TD1 | | | |
| BX-08TD2 | | | |
| BX-08TR** | | | |
| BX-08TRZ** | | | |
| BX-08TA | | | |
| BX-08CD3R** | | | |

* 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 |
| BX-12ND3 | ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact) | ZL-BXEM-CBL15 ZL-BXEM-CBL15-1 ZL-BXEM-CBL15-2 | 1 |
| BX-12NA | | | |
| BX-12NB | | | |
| BX-12TD1 | | | |
| BX-12TD2 | | | |
| BX-12TR** | | | |
| BX-05TRS | | | |
| BX-12TA | | | |
| BX-12CD3D1 | | | |
| BX-12CD3D2 | | | |

* 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 |
| BX-HSIO4 | 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 |
| BX-04ADM-1 | ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact) | ZL-BXEM-CBL20 ZL-BXEM-CBL20-1 ZL-BXEM-CBL20-2 | 1 |
| BX-04AD-1 | | | |
| BX-04AD-2B | | | |
| BX-08AD-1 | | | |
| BX-08AD-2B | | | |
| BX-04DA-1 | | | |
| BX-04DA-2B | | | |
| BX-08DA-1 | | | |
| BX-08DA-2B | | | |
| BX-16DA-1 | | | |
| BX-16DA-2B | | | |
| BX-2AD2DA-1 | | | |
| BX-4AD2DA-1 | | | |
| BX-2AD2DA-2B | | | |
| BX-4AD2DA-2B | | | |
| BX-04THM | | | |
| BX-08THM | | | |
| BX-06RTD | | | |
| BX-08NTC | | | |
| BX-4THM4DA-1 | | | |
| BX-4RTD4DA-1 | | | |

* 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.

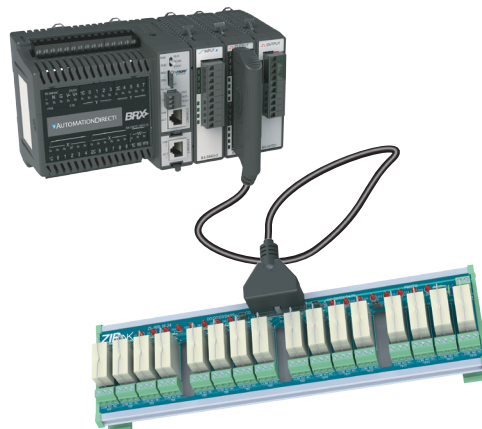


CPU I/O Modules to ZIPLink Connector Modules - BRX Expansion Modules



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 | | Relay (Sinking) | ZL-RRL16-24-1 ZL-RRL16W-24-1 ZL-RRL16F-24-1 | |
| BX-16TD2 | | Feedthrough | ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact) | |
| | | | | |
| BX-16TF2 | | Feedthrough | ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact) | |
| BX-16TR** | | | | |
| BX-16TRZ** | | | | |
| BX-16CD3D1 | | | | |
| BX-16CD3D2 | | | | |
| BX-16CF3F2 | | | | |



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

* 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.

| 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 |
| | Feedthrough | ZL-RTB40 (Standard) OR ZL-RTB40-1 (Compact) | | |
| BX-32TD1 | Feedthrough | ZL-RTB40-1 (Compact) | | |
| BX-32TD2 | | | ZL-D24-CBL40-1XP ZL-D24-CBL40-2XP ZL-D24-CBL40-2P | |

* 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. |
| CO-00DD1-D | 20 | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL20 ZL-C0-CBL20-1 ZL-C0-CBL20-2 |
| CO-00DD2-D | | | | |
| CO-00DR-D | | | | |
| CO-00AR-D | | | | |
| CO-01DD1-D | | | | |
| CO-01DD2-D | | | | |
| CO-01DR-D | | | | |
| CO-01AR-D | | | | |
| Analog CPUs | | | | |

| CLICK Ethernet CPU Module ZIPLink Selector | | | | |
|--|------------|-------------|----------------------------------|---|
| CPU Module | ZIPLink | | | |
| | # of Terms | Component | Module Part No. | Cable Part No. |
| CO-10DD1E-D | 20 | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL20 ZL-C0-CBL20-1 ZL-C0-CBL20-2 |
| CO-10DD2E-D | | | | |
| CO-10DRE-D | | | | |
| CO-10ARE-D | | | | |
| CO-11DD1E-D | | | | |
| CO-11DD2E-D | | | | |
| CO-11DRE-D | | | | |
| CO-11ARE-D | | | | |
| Analog CPUs | | | | |



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. |
| CO-08ND3 | 11 | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL11 |
| CO-08ND3-1 | | | | ZL-C0-CBL11-1 |
| CO-08NE3 | | | | ZL-C0-CBL11-2 |
| CO-08NA | | | | |
| CO-16ND3 | 20 | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL20 |
| CO-16NE3 | | Sensor | ZL-LTB16-24-1 | ZL-C0-CBL20-1 |
| | | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL20-2 |
| | | Sensor | ZL-LTB16-24-1 | |

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

| CLICK CPU Combo I/O Module ZIPLink Selector | | | | |
|---|------------|-------------|-------------------------------|-------------------------------|
| I/O Combo Module | ZIPLink | | | |
| | # of Terms | Component | Module Part No. | Cable Part No. |
| CO-16CDD1 | 20 | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL20 |
| CO-16CDD2 | | | | ZL-C0-CBL20-1 |
| CO-08CDR | 11 | Feedthrough | ZL-RTB20 (-1) | 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. |
| CO-04AD-1 | 11 | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL11 |
| CO-04AD-2 | | | | ZL-C0-CBL11-1 |
| CO-04RTD | 20 | No ZIPLinks are available for RTD and thermocouple modules. | | |
| CO-04THM | 11 | | | |
| CO-04DA-1 | 11 | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL11 |
| CO-04DA-2 | | | | ZL-C0-CBL11-1 |
| CO-4AD2DA-1 | 20 | Feedthrough | ZL-RTB20 (-1) | ZL-C0-CBL20 |
| CO-4AD2DA-2 | | | | ZL-C0-CBL20-1 |
| | | | | ZL-C0-CBL20-2 |

- ¹ The [CO-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 |
| | | Sensor | ZL-LTB16-24-1 | ZL-D0-CBL24-1L ZL-D0-CBL24-2L |
| 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 |
| F0-04AD-1 | 8 | These modules are not supported by the ZIPLink wiring system. | | |
| F0-04AD-2 | | | | |
| F0-08ADH-1 | 13 | Feedthrough | ZL-RTB20 (-1) | ZL-D0-CBL13 |
| F0-08ADH-2 | | | | |
| F0-04DAH-1 | | | | |
| F0-08DAH-1 | | | | |
| F0-04DAH-2 | | | | |
| F0-08DAH-2 | | | | |
| F0-2AD2DA-2 | 8 | These modules are not supported by the ZIPLink wiring system. | | |
| F0-4AD2DA-1 | | | | |
| F0-4AD2DA-2 | | | | |
| F0-04RTD | Matched Only | These modules are not supported by the ZIPLink wiring system. | | |
| F0-04THM | | | | |



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

| DL05/06 PLC Output Module ZIPLink Selector | | | | |
|--|------------|---|--|-------------------------------|
| PLC | ZIPLink | | | |
| Output Module | # of Terms | Component | Module Part No. | Cable Part No. |
| D0-10TD1 | 13 | Feedthrough | ZL-RTB20 (-1) | ZL-D0-CBL13 |
| D0-16TD1 | 24 | Feedthrough | ZL-RTB20 (-1) | |
| | | Fuse | ZL-RFU20 2 | ZL-D0-CBL24 |
| | | Relay (sinking) | ZL-RRL16-24-1 | ZL-D0-CBL24-1 |
| | | | ZL-RRL16W-24-1 ZL-RRL16F-24-1 | ZL-D0-CBL24-2 |
| D0-10TD2 | 13 | Feedthrough | ZL-RTB20 (-1) | ZL-D0-CBL13 |
| D0-16TD2 | 24 | Feedthrough | ZL-RTB20 (-1) | |
| | | Fuse | ZL-RFU20 2 | ZL-D0-CBL24 |
| | | Relay (sourcing) | ZL-RRL16-24-2 | ZL-D0-CBL24-1 |
| | | | ZL-RRL16W-24-2 ZL-RRL16F-24-2 | ZL-D0-CBL24-2 |
| D0-08TR | 10 | Not supported by the ZIPLink wiring system. | | |
| F0-04TRS¹ | 13 | Feedthrough | ZL-RTB20 (-1) | ZL-D0-CBL13 |

| 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.

¹ 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.





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 |
| 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 | | | 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-CTRIO2 | 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 |
| F2-04AD-1 | 10 | Feedthrough | ZL-RTB20 (-1) | ZL-D2-CBL10 ZL-D2-CBL10-1 ZL-D2-CBL10-2 |
| F2-08AD-1 | | | | |
| F2-04AD-2 | | | | |
| F2-08AD-2 | | | | |
| F2-02DA-1 | | | | |
| F2-02DA-1L | | | | |
| F2-02DAS-1 | | | | |
| F2-08DA-1 | | | | ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2 |
| F2-02DA-2 | | | | |
| F2-02DA-2L | | | | |
| F2-02DAS-2 | | | | |
| F2-08DA-2 | | | | |
| F2-4AD2DA | | | | |
| F2-8AD4DA-1 | | | | |
| F2-8AD4DA-2 | 19 | | ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2 | |
| F2-04RTD | | | | |
| F2-04THM | | | | |
| Matched Only | | These modules are not supported by the ZIPLink wiring system | | |

| 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 | | | ZL-RFU20 ⁴ |
| | | Feedthrough | | | ZL-RTB20 (-1) |
| | | Fuse | | | ZL-RFU20 ⁴ |
| D2-16TD2-2 | 19 | Relay | ZL-RRL16-24-2 ZL-RRL16W-24-2 ZL-RRL16F-24-2 | ZL-D2-CBL19 ZL-D2-CBL19-1 ZL-D2-CBL19-2 | |
| | | Feedthrough | ZL-RTB20 (-1) | | |
| | | Feedthrough | ZL-RTB20 (-1) | | |
| F2-16TD1P | 40 | Feedthrough | ZL-RTB20 (-1) | 180 deg conn: ZL-D24-CBL40 ZL-D24-CBL40-1 ZL-D24-CBL40-2 | |
| F2-16TD2P | | | | | |
| D2-32TD1 ¹ | | | | | |
| D2-32TD2 ¹ | 40 | Feedthrough | ZL-RTB40 (-1) | 45 deg conn: ZL-D24-CBL40-X ZL-D24-CBL40-1X ZL-D24-CBL40-2X | |
| | | Fuse | ZL-RFU40 ⁴ | | |
| 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 | | | ZL-RFU20 ⁴ |
| 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-RTB20 (-1) | 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 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 | | | | |

| 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 | | | | |
| F3-08THM-J | T/C Wire Only | | | |
| F3-08THM-K | | | | |

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. |
| D4-08ND3S | 20 | See Note 3 | | |
| D4-16ND2 | | | | |
| D4-16ND2F | | | | |
| D4-32ND3-1 ² | 40 | Feedthrough | ZL-RTB40 (-1) | straight conn: ZL-D24-CBL40 ZL-D24-CBL40-1 ZL-D24-CBL40-2 |
| | | Sensor | ZL-LTB32-24-1 | |
| D4-64ND2 ^{1,2} | | Feedthrough | ZL-RTB40 (-1) | 45 deg conn: ZL-D24-CBL40-X ZL-D24-CBL40-1X ZL-D24-CBL40-2X |
| D4-08NA | 11 | See Note 3 | | |
| D4-16NA | 20 | | | |
| D4-16NA-1 | | | | |
| D4-16NE3 | | | | |
| F4-08NE3S | | | | |

| 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 | | |
| | | Fuse | | | | |
| D4-32TD1-1 ² | | Feedthrough | | | | |
| | | Fuse | | | | |
| D4-32TD2 ² | | Feedthrough | | | Fused ZL-RFU40 ⁴ | 45 deg conn: ZL-D24-CBL40-X ZL-D24-CBL40-1X ZL-D24-CBL40-2X |
| | | Fuse | | | | |
| D4-64TD1 ^{1,2} | | Feedthrough | | | | |
| D4-08TA | 11 | See Note 3 | | | | |
| D4-16TA | 20 | | | | | |
| D4-08TR | 11 | | | | | |
| F4-08TRS-1 | 20 | | | | | |
| F4-08TRS-2 | | | | | | |
| D4-16TR | | | | | | |

| DL405 PLC Analog Module ZIPLink Selector | | | | |
|--|---------------|------------|--------|-------|
| PLC | ZIPLink | | | |
| Analog Module | # of Terms | Component | Module | Cable |
| F4-04AD | 20 | See Note 3 | | |
| F4-04ADS | | | | |
| F4-08AD | | | | |
| F4-16AD-1 | | | | |
| F4-16AD-2 | | | | |
| F4-04DA-1 | | | | |
| F4-04DA-2 | | | | |
| F4-08DA-1 | | | | |
| F4-16DA-1 | | | | |
| F4-08DA-2 | | | | |
| F4-16DA-2 | | | | |
| F4-04DAS-1 | | | | |
| F4-04DAS-2 | | | | |
| F4-08THM ³ | T/C Wire Only | | | |
| F4-08THM-n ³ | | | | |
| F4-08RTD ³ | Matched Only | | | |

Tables Footnotes:

- The [D4-64ND2](#) and [D4-64TD1](#) modules have two 32-point connectors and require two ZIPLink cables and two ZIPLink connector modules.
- 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](#)
- These modules are not supported by the ZIPLink wiring system.
- 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. |
| P1-08ND3 | 10 | Feedthrough | ZL-RTB20 (-1) | ZL-P1-CBL10 |
| P1-08NE3 | | | | ZL-P1-CBL10-1 |
| | | | | ZL-P1-CBL10-2 |
| P1-16ND3 | 18 | | | ZL-P1-CBL18 |
| P1-16NE3 | | | | ZL-P1-CBL18-1 |
| | | | | ZL-P1-CBL18-2 |
| P1-08NA | 10 | ZL-P1-CBL10 | | |
| | | ZL-P1-CBL10-1 | | |
| | | ZL-P1-CBL10-2 | | |
| P1-08SIM | See Note 1 | | | |

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

| 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-P1-CBL10 |
| P1-04DAL-2 | | | | ZL-P1-CBL10-1 |
| P1-08DAL-1 | | | | ZL-P1-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. |
| P1-04AD | 18 | Feedthrough | ZL-RTB20 (-1) | ZL-P1-CBL18 |
| P1-04ADL-1 | 10 | | | ZL-P1-CBL18-1 |
| P1-04ADL-2 | | | | ZL-P1-CBL18-2 |
| P1-08ADL-1 | | | | ZL-P1-CBL10 |
| P1-08ADL-2 | | | | ZL-P1-CBL10-1 |
| | | | | ZL-P1-CBL10-2 |
| P1-04THM | T/C Wire Only | See Note 1 | | |
| P1-04RTD | Matched Only | See Note 1 | | |
| P1-04NTC | 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-P1-CBL10 |
| P1-4ADL2DAL-2 | | | | ZL-P1-CBL10-1 |
| | | | | ZL-P1-CBL10-2 |

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-P2-CBL18 ZL-P2-CBL18-1 ZL-P2-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-P2-CBL18 ZL-P2-CBL18-1 ZL-P2-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-P2-CBL18 ZL-P2-CBL18-1 ZL-P2-CBL18-2 | | |
| P2-08TD2S | | | | | | |
| P2-15TD1 | | | | | | |
| P2-15TD2 | | | | | | |
| P2-08TD1P | | | | | | |
| P2-08TD2P | | | | | | |
| P2-08TRS | | | | | | |
| P2-08TAS | | | | | | |
| P2-16TA | | | | | Fuse | ZL-RFU20 ² |
| | | | | | Feedthrough | ZL-RTB20 (-1) |
| P2-16TD1P | | | | | Relay (Sinking) | ZL-RRL16-24-1 ZL-RRL16W-24-1 ZL-RRL16F-24-1 |
| | | | | | Feedthrough | ZL-RTB20 (-1) |
| P2-16TD2P | | | | | Relay (Sourcing) | ZL-RRL16-24-2 ZL-RRL16W-24-2 ZL-RRL16F-24-2 |
| P2-32TD1P | | | | | 40 | Feedthrough |
| P2-32TD2P | Feedthrough | ZL-RTB40 (-1) | | | | |
| P2-16TR | 18 | Feedthrough | ZL-RTB20 (-1) | ZL-P2-CBL18 ZL-P2-CBL18-1 ZL-P2-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. |
| P2-HSI | 40 | Feedthrough | ZL-RTB40 (-1) | ZL-CBL40-S ZL-CBL40-1S ZL-CBL40-2S |
| P2-HSO | | | | |
| P2-08SIM | See Note 1 | | | |
| P2-SCM | See Note 1 | | | |

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. |
| P2-04AD | 18 | Feedthrough | ZL-RTB20 (-1) | ZL-P2-CBL18 ZL-P2-CBL18-1 ZL-P2-CBL18-2 |
| P2-08AD-1 | | | | |
| P2-08AD-2 | | | | |
| P2-08ADL-1 | | | | |
| P2-08ADL-2 | | | | |
| P2-16AD-1 | 24 | | | ZL-P2-CBL24 ZL-P2-CBL24-1 ZL-P2-CBL24-2 |
| P2-16AD-2 | | | | |
| P2-16ADL-1 | | | | |
| P2-16ADL-2 | | | | |
| P2-06RTD | Matched Only | | See Note 1 | |
| P2-08THM | T/C Wire Only | | See Note 1 | |
| P2-08NTC | 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. |
| P2-04DA | 18 | Feedthrough | ZL-RTB20 (-1) | ZL-P2-CBL18 ZL-P2-CBL18-1 ZL-P2-CBL18-2 |
| P2-04DAL-1 | | | | |
| P2-04DAL-2 | | | | |
| P2-08DA-1 | | | | |
| P2-08DA-2 | | | | |
| P2-08DAL-1 | 24 | | | ZL-P2-CBL24 ZL-P2-CBL24-1 ZL-P2-CBL24-2 |
| P2-08DAL-2 | | | | |
| P2-16DA-1 | | | | |
| P2-16DA-2 | | | | |
| P2-16DAL-1 | | | | |
| P2-16DAL-2 | | | | |
| P2-8AD4DA-1 | 18 | ZL-P2-CBL18 ZL-P2-CBL18-1 ZL-P2-CBL18-2 | | |
| P2-8AD4DA-2 | | | | |



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 | | | | |
| P3-32ND3 | 40 | Sensor | ZL-LTB16-24-1 | ZL-P3-CBL20-L |
| | | Feedthrough | ZL-RTB40 (-1) | ZL-P3-CBL20-1L |
| | | Sensor | ZL-LTB32-24-1 | ZL-CBL40 |
| | | Feedthrough | ZL-RTB40 (-1) | ZL-CBL40-1 |
| | | Sensor | ZL-LTB32-24-1 | ZL-CBL40-2 |

| 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 | |
| P3-08TRS | | Feedthrough | | ZL-P3-CBL20-2L | |
| P3-16TA | | Feedthrough | | | |
| | | Fuse | | ZL-RFU20 ⁴ | |
| | | Feedthrough | | ZL-RTB20 (-1) | |
| P3-16TD1 | | Fuse | | ZL-RFU20 ⁴ | |
| | | Relay (sinking) | | ZL-RRL16-24-1 ZL-RRL16W-24-1 ZL-RRL16F-24-1 | ZL-P3-CBL20 ZL-P3-CBL20-1 ZL-P3-CBL20-2 |
| | | Feedthrough | | ZL-RTB20 (-1) | |
| | Fuse | ZL-RFU20 ⁴ | | | |
| Relay (sourcing) | ZL-RRL16-24-2 ZL-RRL16W-24-2 ZL-RRL16F-24-2 | | | | |
| P3-16TD2 | Feedthrough | ZL-RTB20 (-1) | | | |
| | Fuse | ZL-RFU20 ⁴ | | | |
| P3-16TR | Feedthrough | ZL-RTB20 (-1) | | | |
| P3-08TRS-1 3 | Fuse | ZL-RFU20 ⁴ | | | |
| | Feedthrough | ZL-RTB20 (-1) | | | |
| | Fuse | ZL-RFU20 ⁴ | | | |
| P3-32TD1 | 40 | Feedthrough | ZL-RTB40 (-1) | ZL-CBL40 ZL-CBL40-1 ZL-CBL40-2 | |
| P3-32TD2 | | Fuse | ZL-RFU40 ⁴ | | |
| | | Feedthrough | ZL-RTB40 (-1) | | |
| P3-64TD1 1 | | Fuse | ZL-RFU40 ⁴ | | |
| | | Feedthrough | ZL-RTB40 (-1) | | |
| P3-64TD2 1 | | Fuse | ZL-RFU40 ⁴ | | |
| | | Feedthrough | ZL-RTB40 (-1) | | |
| P3-16TD3P | | Fuse | ZL-RFU40 ⁴ | | |
| | | Feedthrough | ZL-RTB40 (-1) | | |

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

| 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 |

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.



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

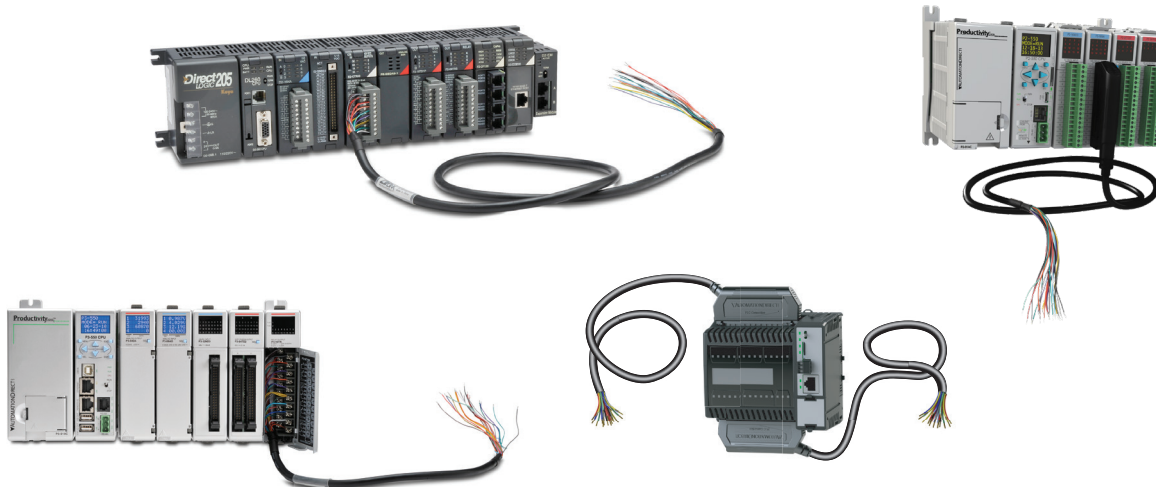




PLC I/O to 3rd Party Devices

| 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 | |
| | | | ZL-D24-CBL40-1P or -2P | |
| | 40 | 40 | ZL-D24-CBL40-1XP or -2XP | |
| ZL-D24-CBL40-1XP or -2XP | | | | |
| DL405 I/O Modules † | 40 | 40 | ZL-D24-CBL40-1P or -2P | |
| | | | 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 | | | | | | |
| | | | P2-SCM | RS-485, 4-Pin | | | | | |
| | | | P3-SCM | | | | | | |
| | | | DL06 PLCs | Port 2 (HD15) | | | | GS-485HD15-CBL-2 | RJ12 to HD15 |
| | | | D2-262 CPU | RJ12 | | | | GS-EDRV-CBL-2 | RJ12 to RJ12 |
| | | | GS-EDRV100 | | | | | GS-485RJ12-CBL-2 | |
| ZL-CDM-RJ12Xxx * | RJ12 | GS-485RJ12-CBL-2 | RJ12 to RJ12 | | | | | | |
| 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 | | | | | | |
| | | | P3-530 | | | | | | |
| | | | P3-550 | | | | | | |
| | | | P3-550E | | | | | | |
| | | | P2-SCM | Ports 1, 2 & 3 | | | | | |
| | | | P3-SCM | Ports 1 to 4 | | | | | |
| | | | CLICK PLCs | Port 2 (RJ12) | | | | GS-RJ12-CBL-2 | RJ12 to RJ12 |
| | | | DL05 PLCs | | | | | | |
| | | | DL06 PLCs | Port 2 (HD15) | | | | | |
| | | D2-262 CPU | FA-CABKIT | | | | | | |
| | | D4-454 CPU | Port 3 (25-pin) | | | | | | |
| | | RS-485 Modbus RTU | BRX MPUs | RS-232/485, 3-Pin | ZL-RJ12-CBL-2P | RJ12 to pigtail | N/A | | |
| | | | P2-550 | | | | | | |
| | | | 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-EDRV-CBL-2 | RJ12 to RJ12 |
| | | | GS-EDRV100 | RJ12 | | | | GS-485RJ12-CBL-2 | RJ12 to RJ12 |
| ZL-CDM-RJ12Xxx * | RJ12 | GS-485RJ12-CBL-2 | RJ12 to RJ12 | | | | | | |
| 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.



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 | RS-485, 4-Pin | | | | | |
| | | | P2-SCM | | | | | | |
| | | | P3-SCM | Port 2 (HD15) | GS-485HD15-CBL-2 | RJ12 to HD15 | | | |
| | | | DL06 PLCs | | GS-EDRV-CBL-2 | RJ12 to RJ12 | | | |
| | | | D2-262 CPU | RJ12 | GS-485RJ12-CBL-2 | | | | |
| | | | GS-EDRV100 | RJ12 | GS-ISOCON-CBL-2 | RJ12 to 5-pin plug | | | |
| ZL-CDM-RJ12Xxx * | RJ12 | | | | | | | | |
| FA-ISOCON | 5-pin Connector | | | | | | | | |
| 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 | Port 2 (HD15) | | | SVC-232RJ12-CBL-2 | 6-pin IEEE to RJ12 | FA-15HD |
| | | | DL06 PLCs | | | | | | |
| | | | D2-262 CPU | | | | | | |
| | | | P2-550 | RS232 | | | | | |
| | | | P3-530 | | | | | | |
| | | | P3-550 | | | | | | |
| | | | P3-550E | | | | | | |
| | | P2-SCM | Ports 1, 2 & 3 | | | | | | |
| | | P3-SCM | | | | | | | |
| | | DL06 PLCs | Port 2 (HD15) | SVC-485HD15-CBL-2 | 6-pin IEEE to HD15 | | | | |
| | | D2-262 CPU | RJ12 | SVC-485RJ12-CBL-2 | 6-pin IEEE to RJ12 | | | | |
| | | ZL-CDM-RJ12Xxx * | | SVC-485CFG-CBL-2 | 6-pin IEEE to RJ45 | | | | |
| | | USB-485M | | 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 | RS-485, 4-Pin | | | | | |
| | | | P2-SCM | | | | | | |
| | | | P3-SCM | Port 2 (HD15) | STP-232HD15-CBL-2 | HD15-pin to RJ12 | | | |
| | | | DL06 PLCs | | STP-232RJ12-CBL-2 | RJ12 to RJ12 | | | |
| | | | D2-262 CPU (Port2) | RJ12 | | | | | |
| | | | DL05 PLCs | | | | | | |
| 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.

ZIPLINK™ Serial Communication

AutomationDirect

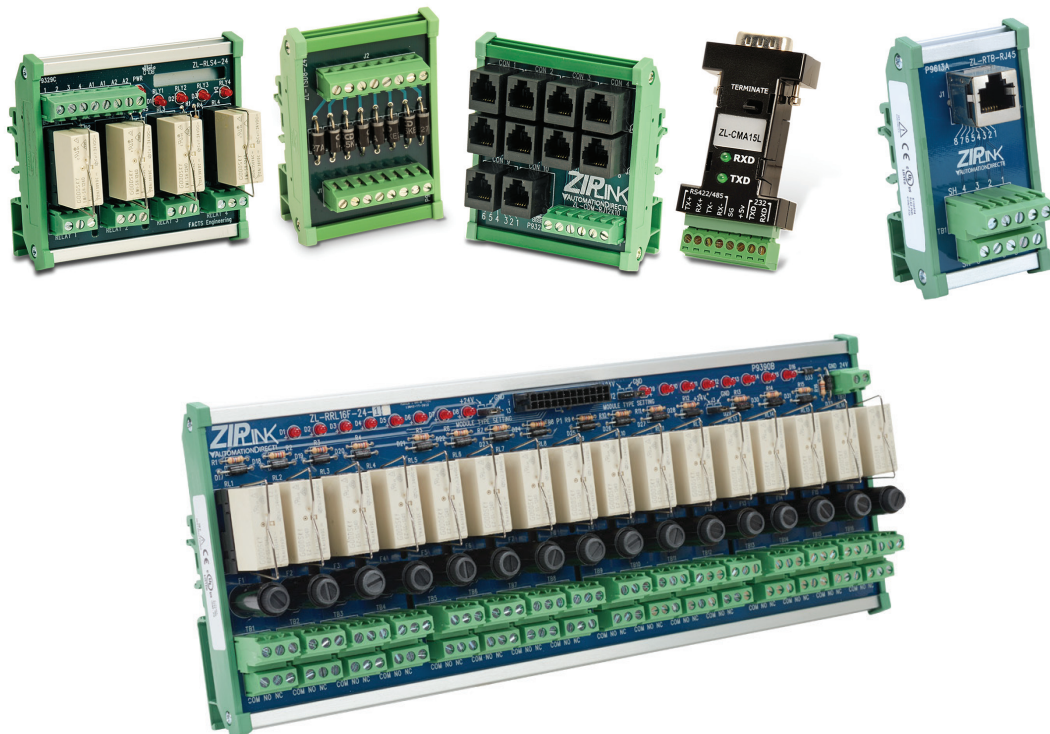
| ZIPLink Serial Communication Cable Selector | | | | | |
|---|----------|----------------------|-----------------------------------|-----------------------------------|---|
| PLC | | | ZIPLink | | |
| PLCs and Comm Modules | Port No. | Comm Port Type | Cable Connector Type | Cable Part No. (2 meter 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 |
| 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 | |
| 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 * |

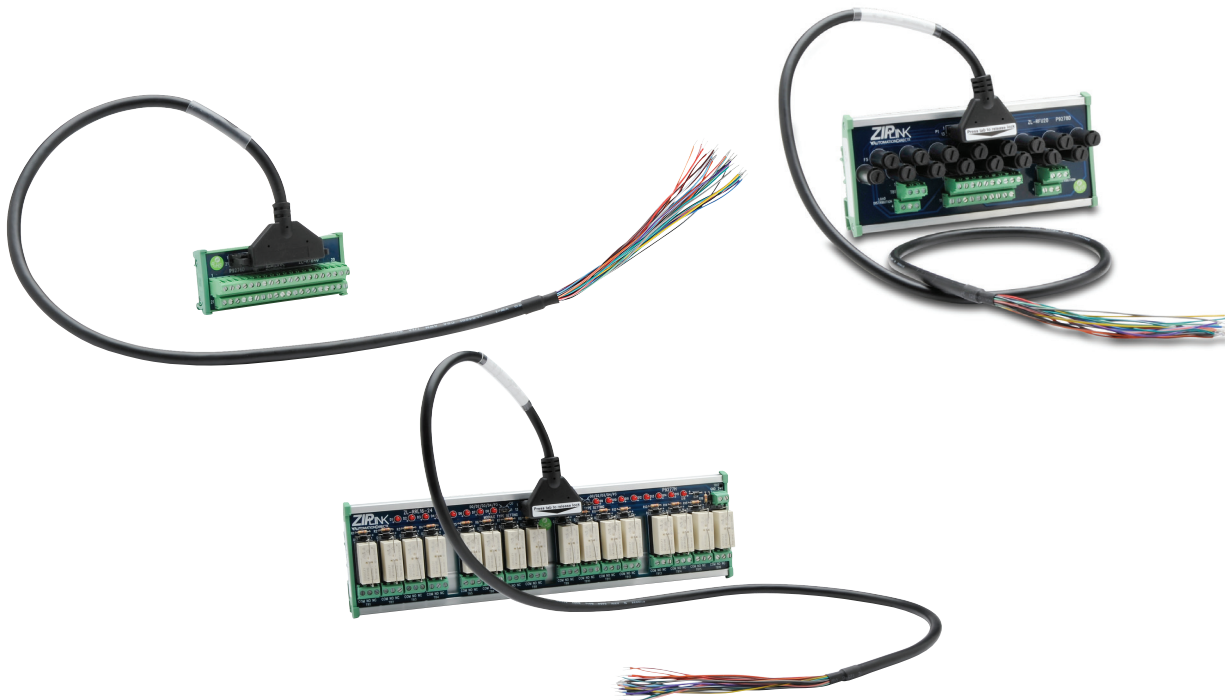
* Select the cable length by replacing the * with: Blank = 0.5m, -1 = 1.0m, or -2 = 2.0m





Connector Modules to 3rd Party Devices

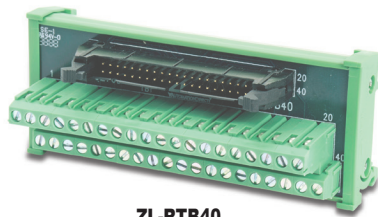
| ZIPLink Connector Modules to 3rd Party Devices Selector | | | |
|---|-------------------------------|---|--|
| ZIPLink | | | |
| Module | Type | Module Part No. | Pigtail Cable Part No. (optional) |
| Feedthrough Connector | 24-pin to Terminal Blocks | ZL-RTB20 ZL-RTB20-1 | ZL-CBL24-1P ZL-CBL24-2P |
| | 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-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) |
| | ZL-RTB20 | 1 | \$31.50 | 0.26 | ZL-RTB40 | 1 | \$53.00 | 0.22 | ZL-RTB50 | 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 mm ²) | | | | | | | | | | | |
| 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 |
| 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 mm ²) | | | | | | | |
| 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 |
| 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) |



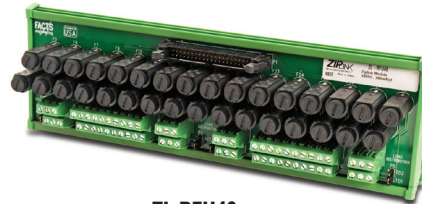
Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.

ZIPLINK™ Fuse Modules

▼AUTOMATIONDIRECT

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) |
| | | ZL-RFU20 | 1 | \$146.00 | 0.79 | ZL-RFU40 | 1 | \$238.00 |
| 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 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 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>.

ZIPLINK™ Fuse Modules

AUTOMATIONDIRECT

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) |
|---|---|----------|-----------------|--------------|
| | ZL-FUSE-16 | 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) |
| | | ZL-RRL16-24-1 | 1 | \$216.00 | 1.45 | ZL-RRL16-24-2 | 1 | \$216.00 |
| 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 | 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 | | | | | | | |

| 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/s ² endurance, 100m/s ² 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 |
| 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/s ² endurance, 100m/s ² 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>.



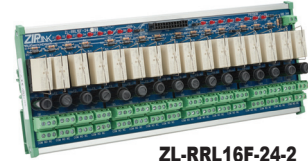
24V DC-Powered Fused Relay Modules

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 |
| 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/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 | 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>.



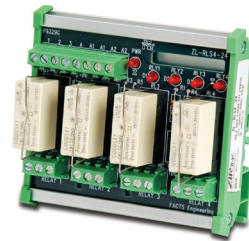
24VDC Stand-Alone Relay Modules

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) |
|--|---|------------|-----------|--------------|--|------------|-----------|--------------|
| | | ZL-RLS1-24 | 1 | \$31.50 | 0.10 | ZL-RLS4-24 | 1 | \$86.00 |
| 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/s ² endurance, 100m/s ² 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>.



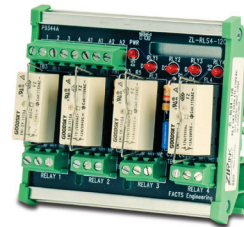
120VAC Stand-Alone Relay Modules

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 |
| 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/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) | | | | | | | |
| 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>.



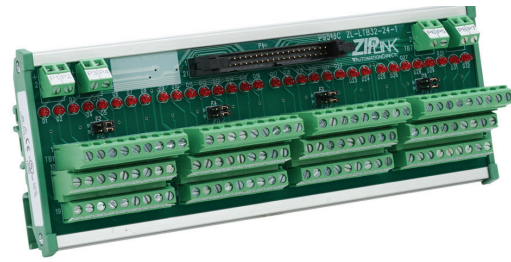
Sensor Input Modules

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) |
| | ZL-LTB16-24-1 | 1 | \$105.00 | 0.49 | ZL-LTB32-24-1 | 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 mm ²) | | | | | | | |
| 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>.



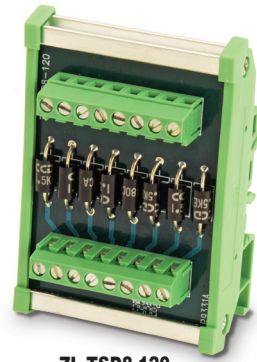
24VDC and 120VAC Transorb Modules

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

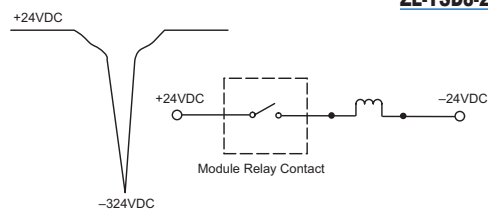
| Specifications | | | | | | | | |
|---|--|----------|----------------|--------------|--|----------|----------------|--------------|
| 24VDC and 120VAC Transorb Modules | Part # | Pcs/Pkg | Price/Pkg | Weight (lbs) | Part # | Pcs/Pkg | Price/Pkg | Weight (lbs) |
| | ZL-TSD8-24 | 1 | \$43.00 | 0.19 | ZL-TSD8-120 | 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 mm ²) | | | | | | | |
| 2-Wire Range (Rated Cross Section) * | 16–24 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 | | | | | | | |
| 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.

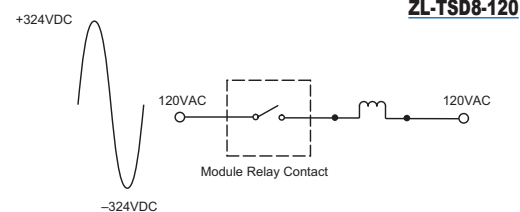
The waveform in the figure below shows the energy released when opening a contact switching a 24VDC solenoid.

Notice the large voltage spike.

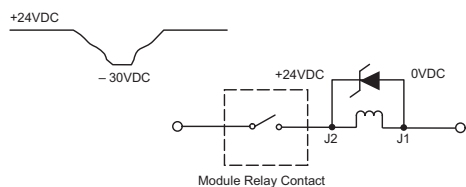


The waveform in the figure below shows the energy released when opening a contact switching a 120VAC solenoid.

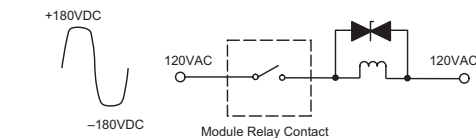
Notice the large voltage spike.



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



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 |
| 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 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) | | | | | | | | | | | |
| 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 # | |
| | ZL-RTB-RJ12 | ZL-RTB-RJ45 |
| 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.



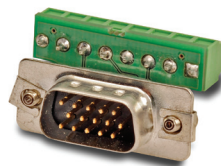
Note: See wiring details and dimensional drawings on our Web site at: <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.



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

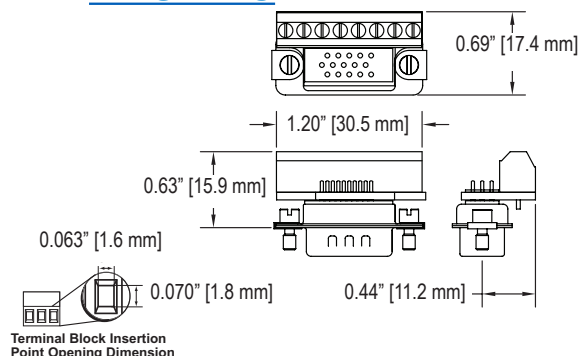


ZL-CMA15L

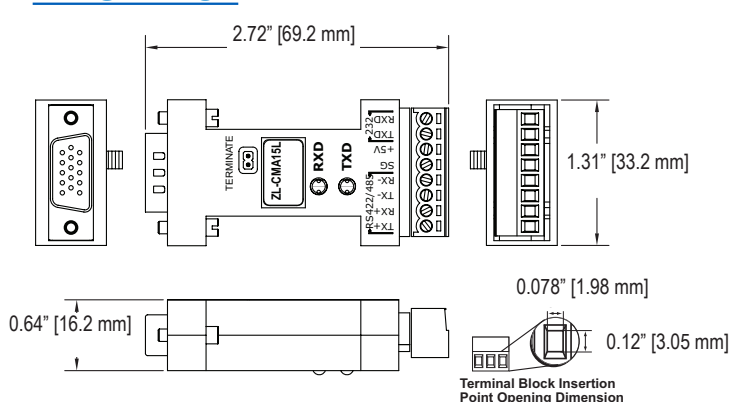
| Specifications | | | | | | | | |
|---|--|-----------------|-----------|---|--|------------------|-----------|--------------|
| Communication Port Adapters | Part # | Pcs/Pkg | Price/Pkg | Weight (lbs) | Part # | Pcs/Pkg | Price/Pkg | Weight (lbs) |
| | | <u>ZL-CMA15</u> | 1 | \$18.00 | 0.04 | <u>ZL-CMA15L</u> | 1 | \$55.00 |
| 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 mm ²) | | | | 16–28 AWG Solid or Stranded Conductor (1.5 mm ²) | | | |
| 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).



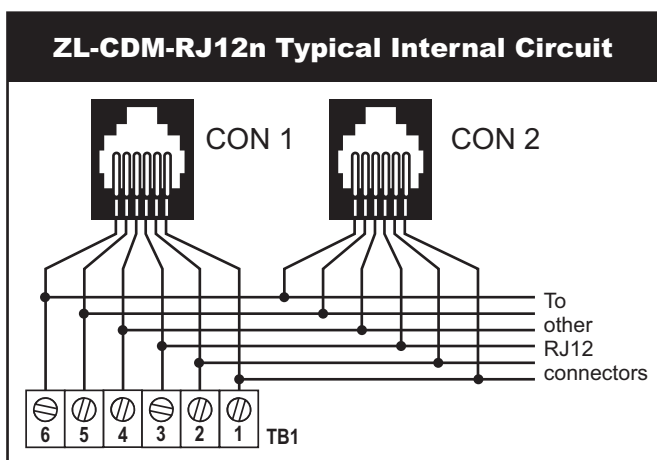
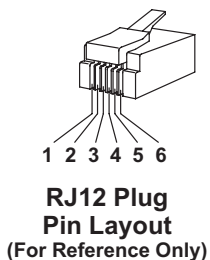
ZL-CDM-RJ12X4



ZL-CDM-RJ12X10

| Specifications | | | | | | | | |
|--|---|----------------------|-----------|--------------|--|-----------------------|-----------|--------------|
| Communication Distribution Modules | Part # | Pcs/Pkg | Price/Pkg | Weight (lbs) | Part # | Pcs/Pkg | Price/Pkg | Weight (lbs) |
| | | ZL-CDM-RJ12X4 | 1 | \$29.00 | 0.14 | ZL-CDM-RJ12X10 | 1 | \$36.50 |
| 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 mm ²) | | | | | | | |
| 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) | ZL-RJ12-CBL-2, ZL-RJ12-CBL-2P, GS-RJ12-CBL-2, SVC-232RJ12-CBL-2 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.



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 Type | 1 Form C (SPDT) | Rated Current per Coil | 7.65 mA (±10%) @ 115VAC 50Hz |
| Contact Voltage (per point) | 250VAC/30VDC | | 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](#).

Sold in packages of 4.



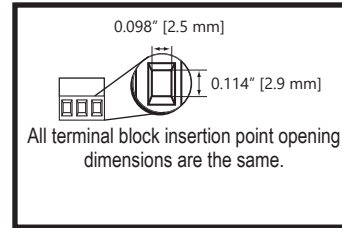
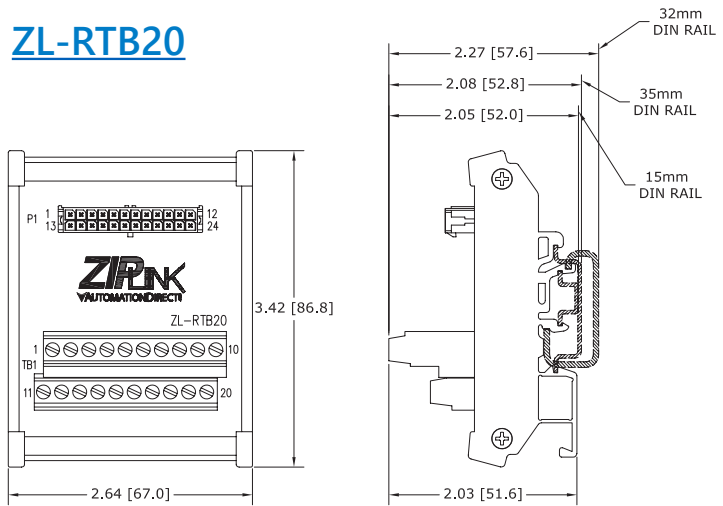
ZL-RELAY-F24X4
\$24.00

| 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 |

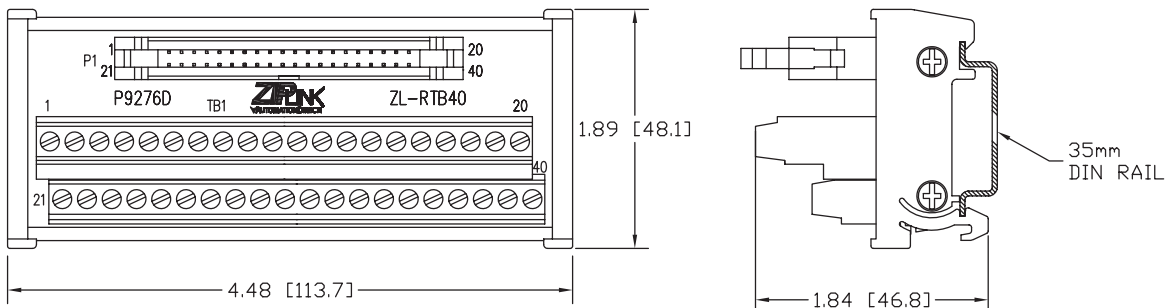


Module Dimensions

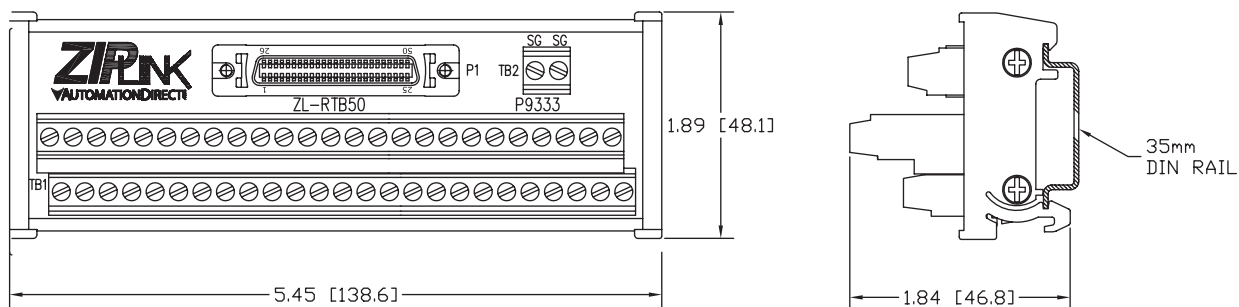
ZL-RTB20



ZL-RTB40



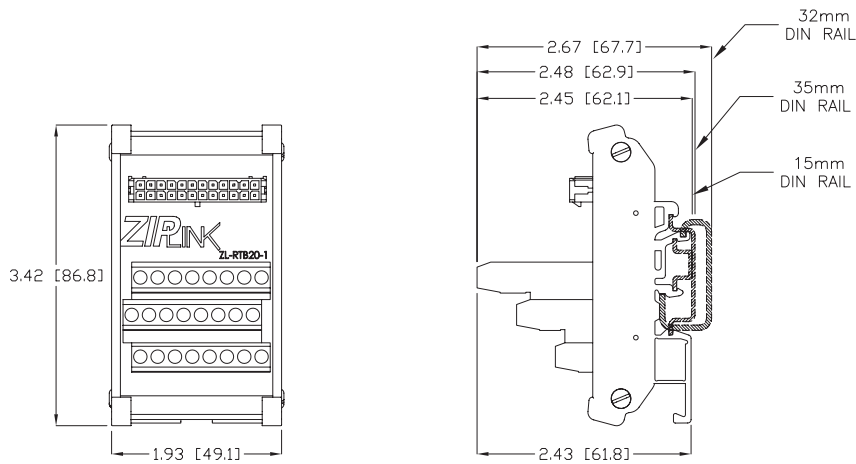
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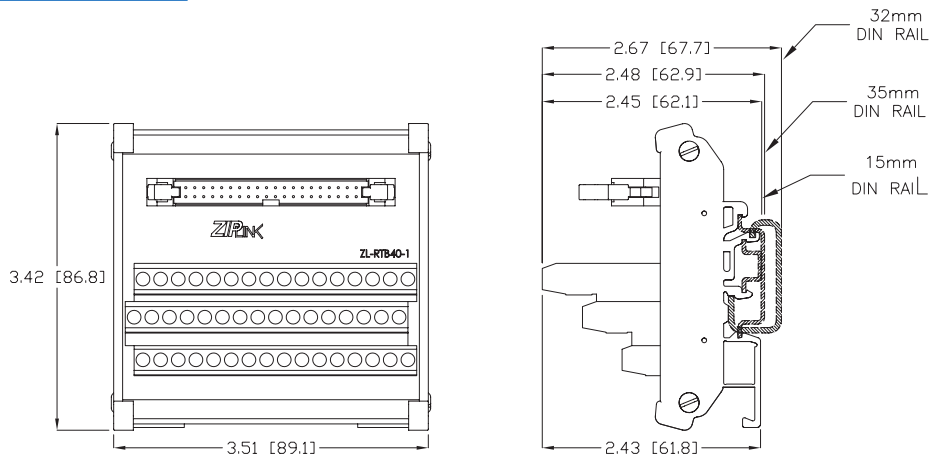
Note: Dimensions shown in Inches [mm]

ZIP LINK™ AUTOMATIONDIRECT® Module Dimensions

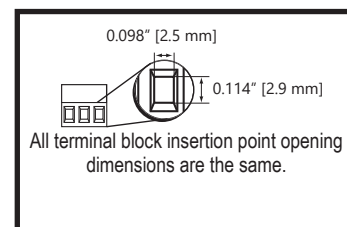
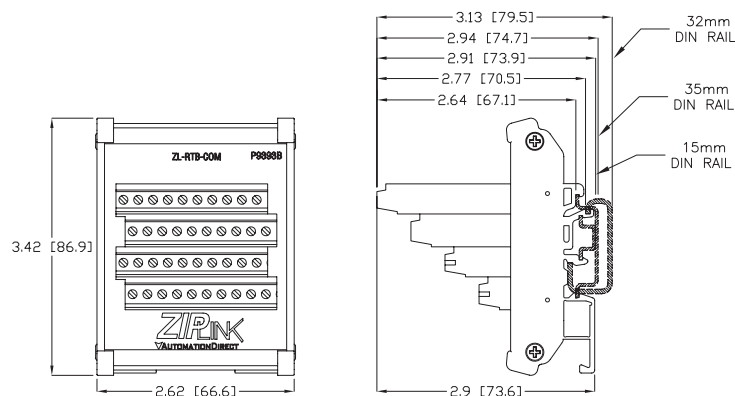
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ZL-RTB40-1



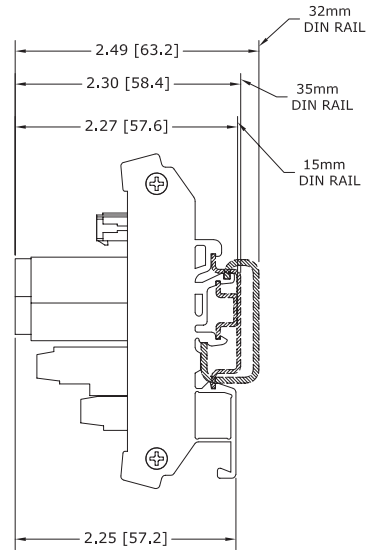
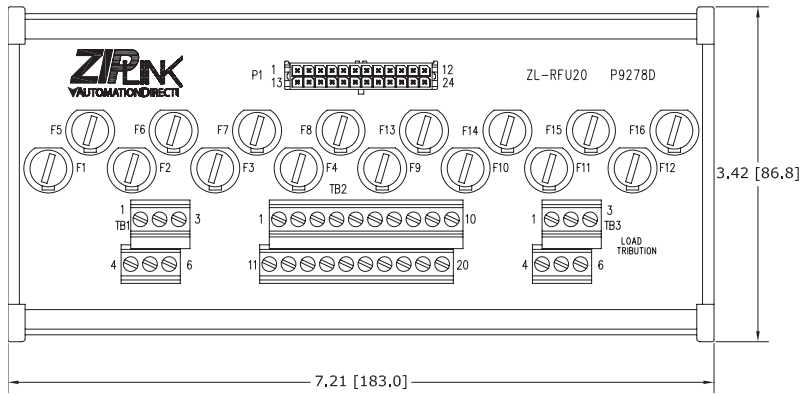
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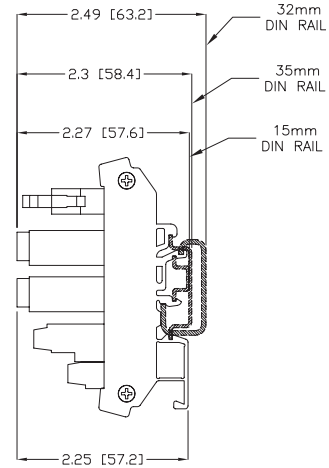
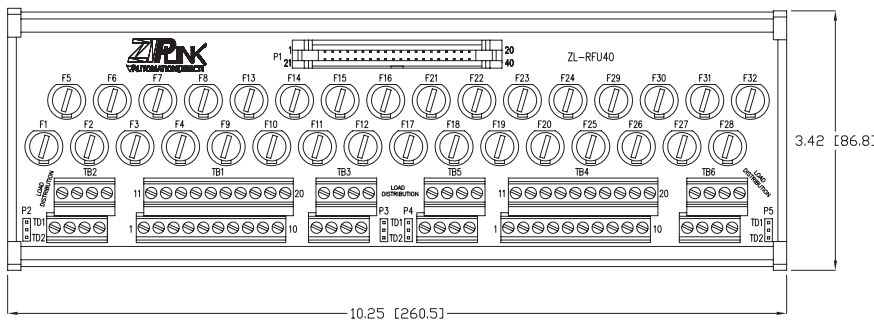


Module Dimensions

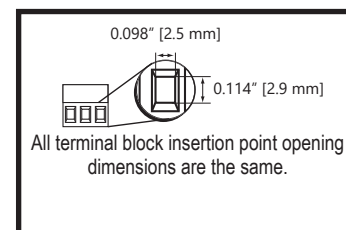
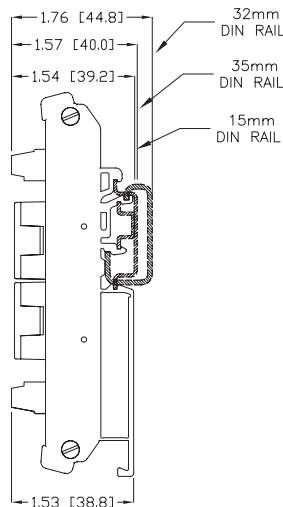
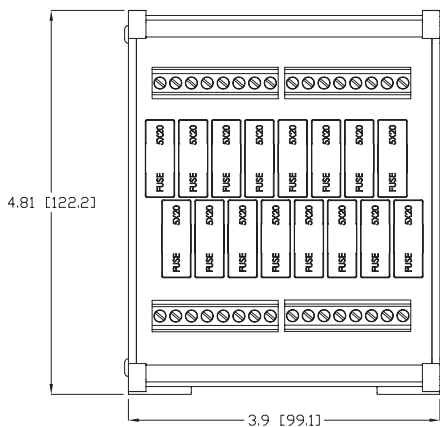
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ZL-RFU40



ZL-FUSE-16

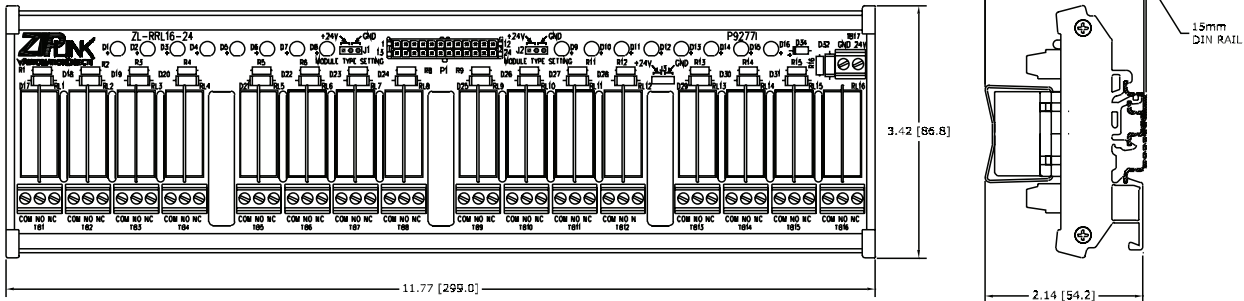


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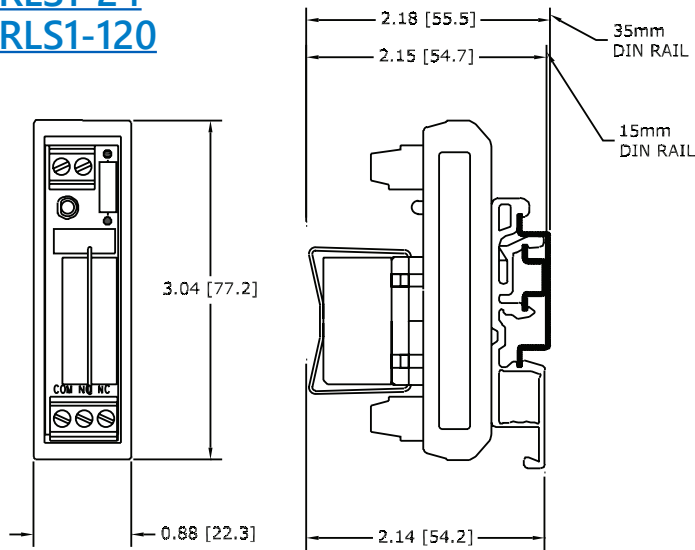


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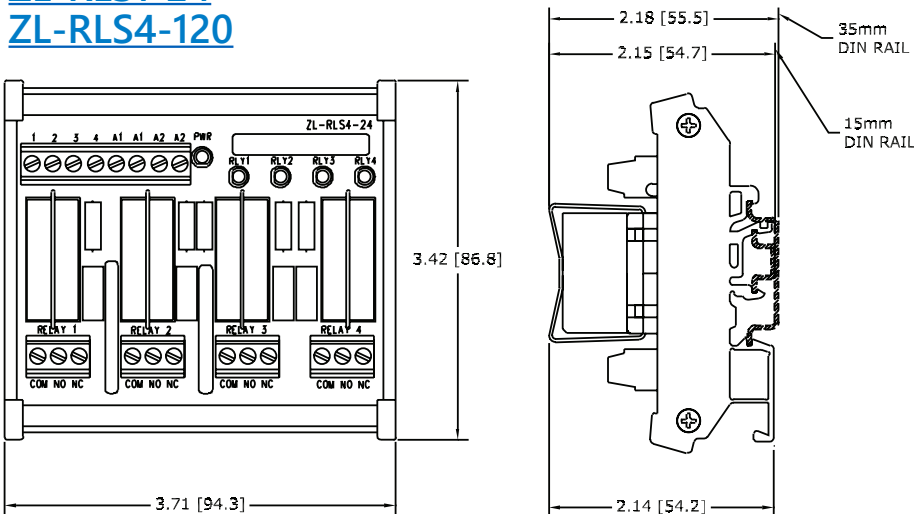
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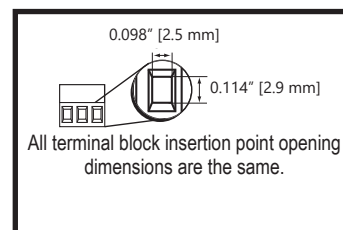
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ZL-RLS1-24 ZL-RLS4-120



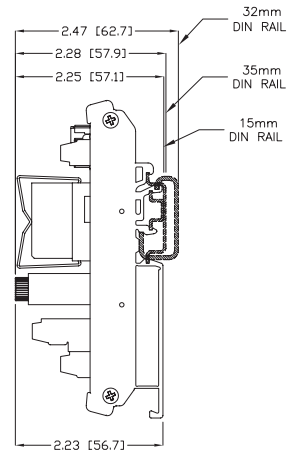
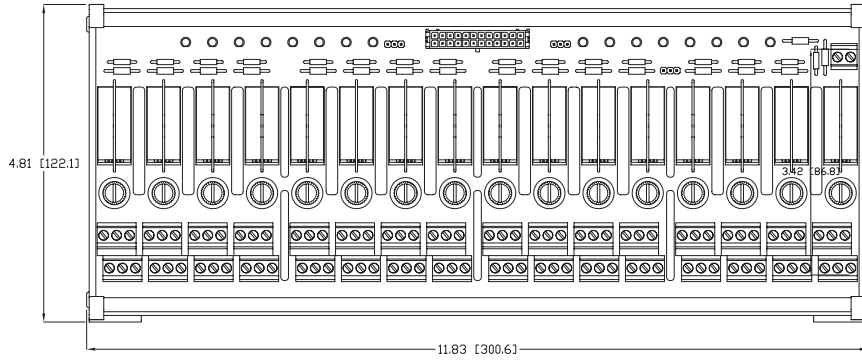
Note: Dimensions shown in Inches [mm]



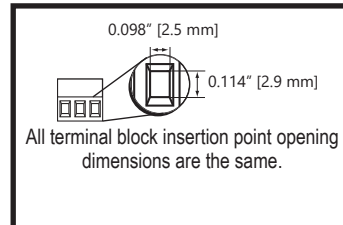
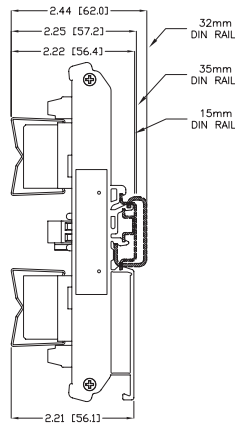
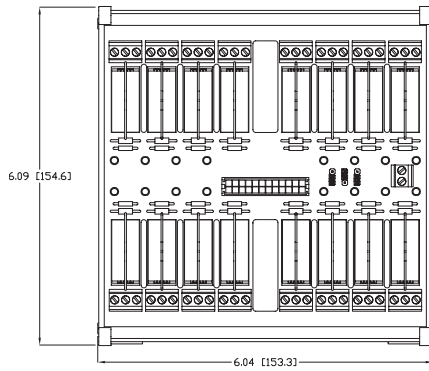


Module Dimensions

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



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

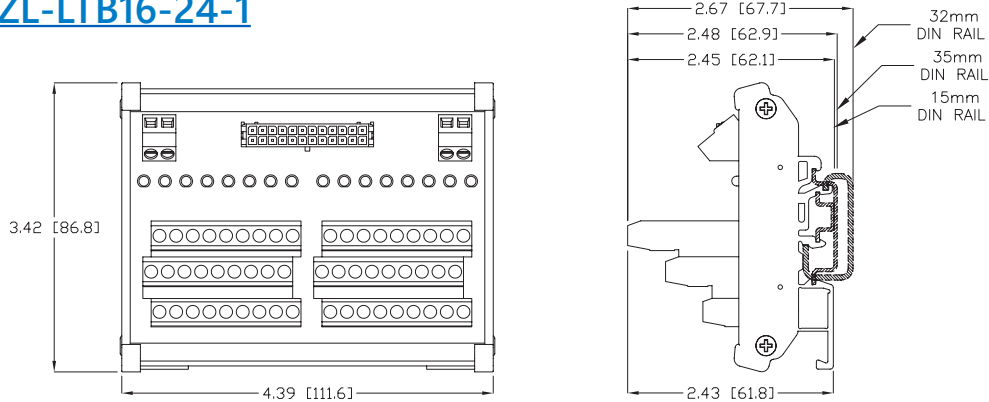


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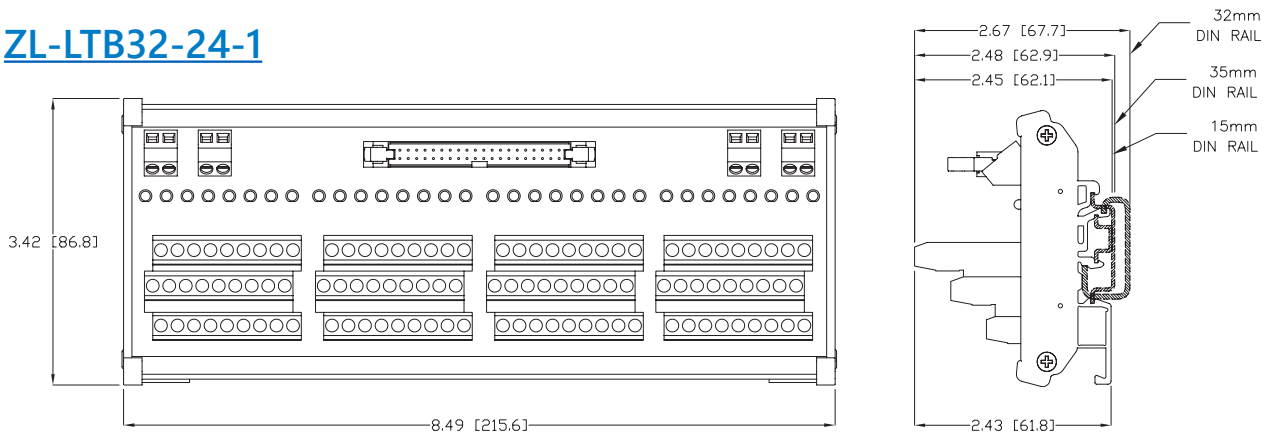


Module Dimensions

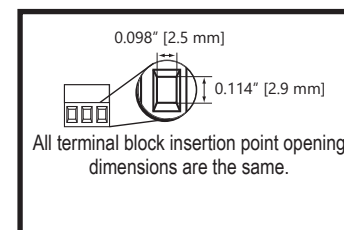
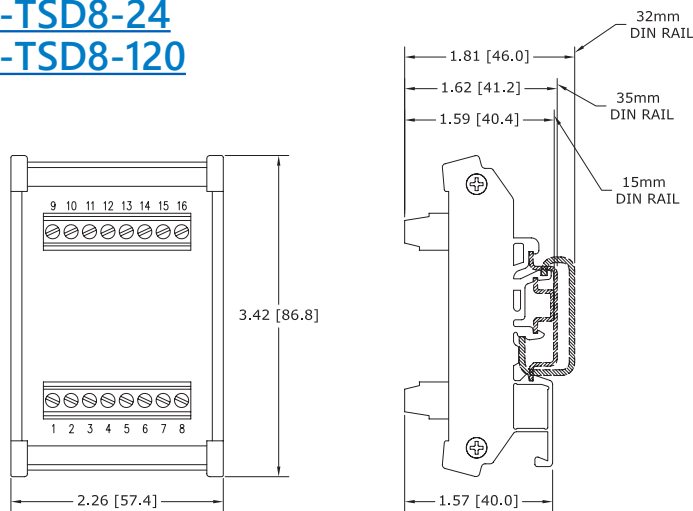
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ZL-LTB32-24-1



ZL-TSD8-24 ZL-TSD8-120

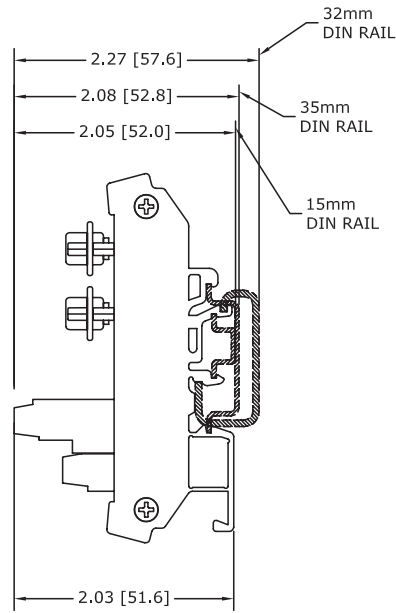
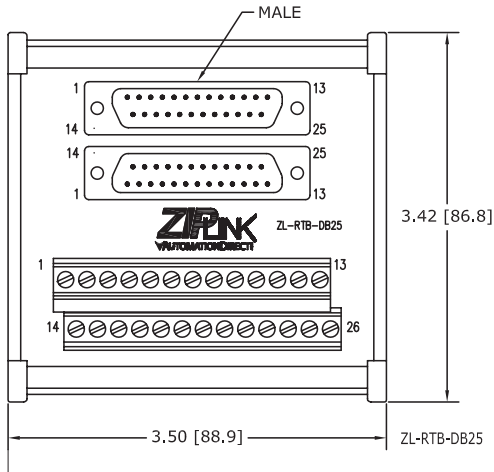


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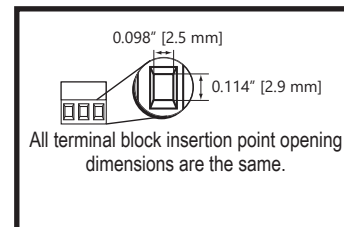
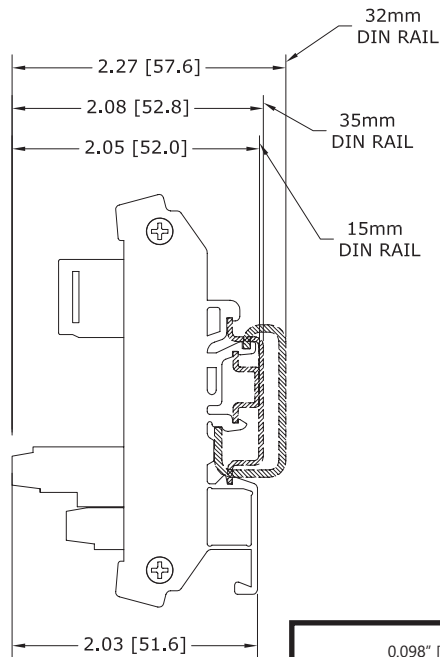
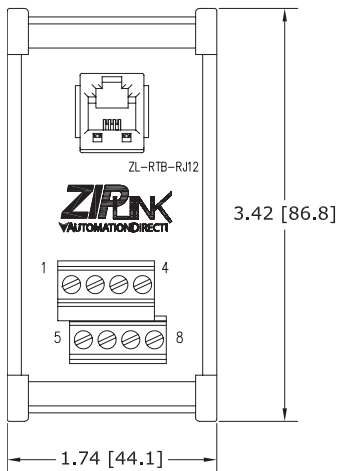
ZIPLINK™ Module Dimensions

AUTOMATIONDIRECT

ZL-RTB-DB09/15/25



ZL-RTB-RJ12

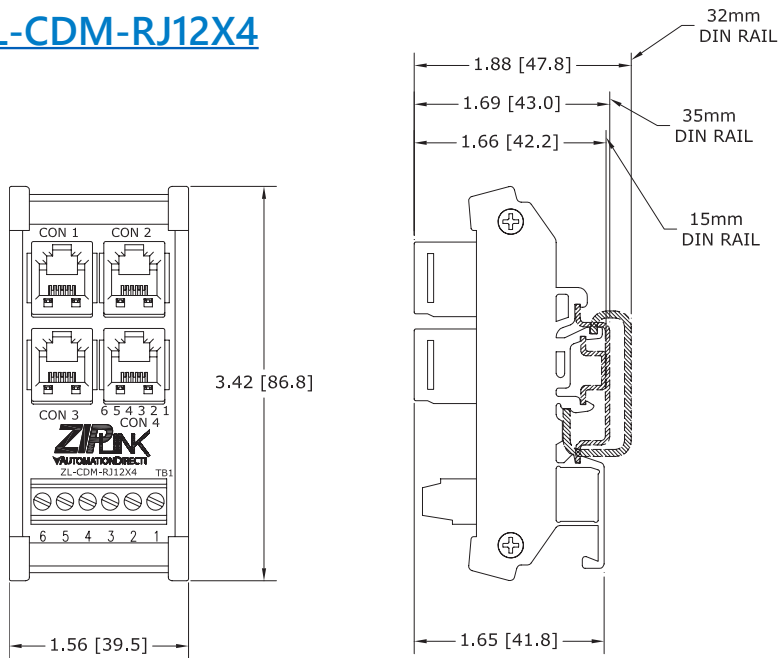


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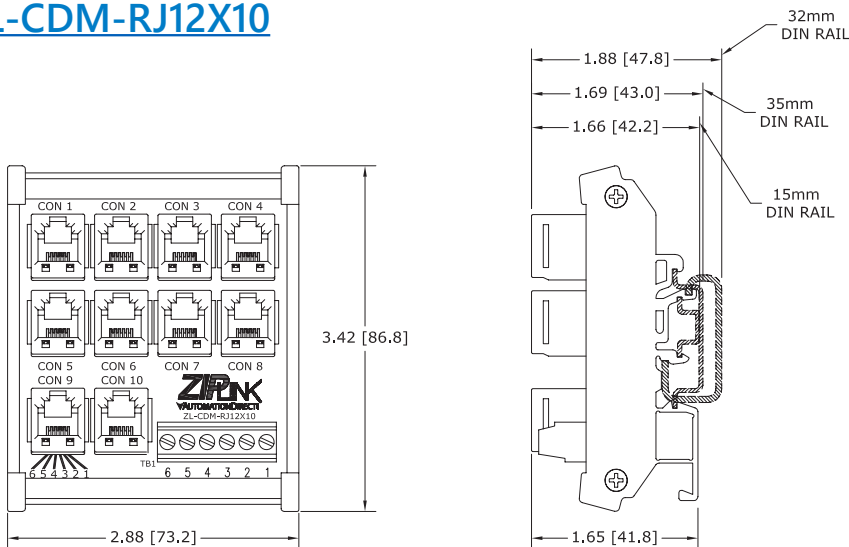


Module Dimensions

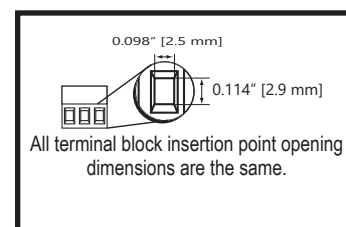
ZL-CDM-RJ12X4



ZL-CDM-RJ12X10



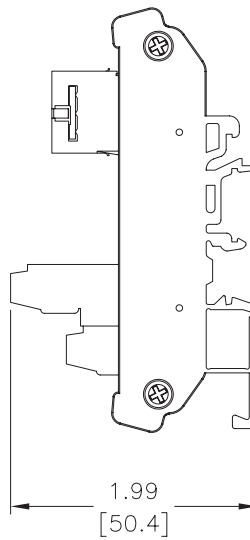
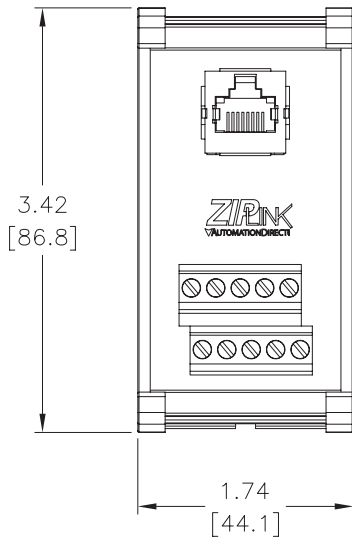
Note: Dimensions shown in Inches [mm]



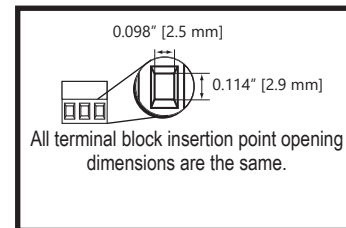
ZIP LINK™ Module Dimensions

VAUTOMATIONDIRECT

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](#)

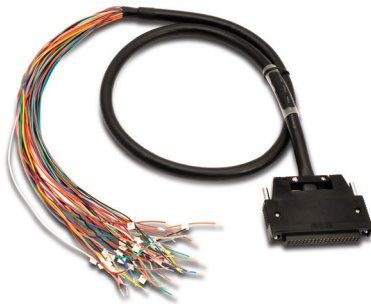


Connection Cables (cont.)

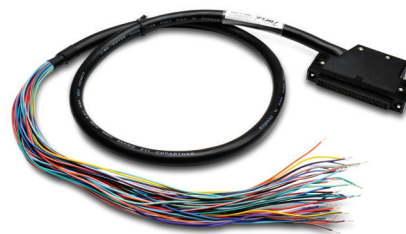
| ZIPLink Connection Cables | | | | |
|---|---|-------------------|--------------|---------|
| Part Number | Description | Insulation Rating | Weight (lbs) | Price |
| <i>BRX ZIPLink Cables, continued</i> | | | | |
| <u>ZL-D24-CBL40</u> | Cable w/180° plug for module with 40-pin connector to 40-pin connector, 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 | Retired |
| <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 | Retired |
| <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 |
| <i>Do-more / DL205 ZIPLink Cables</i> | | | | |
| <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 | Retired |
| <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 | Retired |
| <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 | Retired |
| <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 | Retired |
| <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](#)