

Legacy to New Generation Conversion Guide

The following steps and charts will help in converting from the Legacy ZIPLink components to the new generation of ZIPLink wiring solutions. You will need to know the Legacy Ziplink module you are using now and the PLC I/O module that you are connecting to before you proceed.

Step 1: Select a new module:

From the chart below find the ZIPLink module you are now using and select the corresponding New module listed. If the ZIPLink module is not listed, there is no replacement available.

Old Part Number	New Part Number - See Note 1
ZL-CM20	ZL-RTB20
ZL-CM24	ZL-RTB20
ZL-CM40	ZL-RTB40
ZL-CM056	ZL-RTB20
ZL-CM16RL24A	ZL-RRL16-24 - See Note 2
ZL-CM16RL24B	ZL-RRL16-24 - See Note 3
ZL-CM16L24	ZL-LTB16-24
ZL-CM32L524	ZL-LTB32-24
ZL-CM16TF1	ZL-RFU20
ZL-CM16TF2	ZL-RFU20
ASD-BM50A	ZL-RTB50

Note 1 - All new ZIPLink modules listed do not work with the legacy ZIPLink cables. Refer to the charts in Step 2 to correctly select the required new ZIPLink cable.

Note 2 - The ZL-RRL16-24 will not work with the D2-16TD2-2 or the D3-16TD2.

Note 3 - The ZL-RRL16-24 will not work with the D0-16TD2, D4-16TD1 or the D4-16TD2.

Step 2: Selecting a cable:

Now that you have the new ZIPLink module part number refer to the next selection charts and select the chart for the PLC family you are using or for the SureServo that you are using. Along the left side of the chart, find the PLC I/O module that you are connecting to. Going across to the column of the corresponding ZIPLink module you selected in step 1, you will find the required cable that you will need. You have now selected the new ZIPLink module and the new cable part numbers that correspond to the legacy part numbers you are using.

Step 1	Locate the CLICK CPU module or I/O module part number.
Step 2	Locate compatible connector module type.
Step 3	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1.0m, -2 = 2.0m

ZIPLink Wiring System Compatibility Matrix for CLICK PLCs						
Step 2: Connector Module Type		Feedthrough Module	Fuse Module	Relay Modules	Sensor Input Module	
Step 1: I/O unit	Number of Terminals	ZL-RTB20	ZL-RFU20	ZL-RRL16-24	ZL-LTB16-24	
Step 3: Cables						
CPU Module	<i>CO-00DD1-D</i>	20	ZL-CO-CBL20#			
	<i>CO-00DD2-D</i>	20	ZL-CO-CBL20#			
	<i>CO-00DR-D</i>	20	ZL-CO-CBL20#			
	<i>CO-00AR-D</i>	20	ZL-CO-CBL20#			
Inputs						
I/O Module	<i>CO-08ND3</i>	11	ZL-CO-CBL11#			
	<i>CO-08ND3-1</i>	11	ZL-CO-CBL11#			
	<i>CO-08NA</i>	11	ZL-CO-CBL11#			
	<i>CO-16ND3</i>	20	ZL-CO-CBL20#		ZL-CO-CBL20#	
	Outputs					
	<i>CO-08TD1</i>	11	ZL-CO-CBL11#			
	<i>CO-08TD2</i>	11	ZL-CO-CBL11#			
	<i>CO-08TR</i>	11	ZL-CO-CBL11#			
	<i>CO-08TA</i>	11	ZL-CO-CBL11#			
	<i>CO-16TD1</i>	20	ZL-CO-CBL20#	ZL-CO-CBL20#	ZL-CO-CBL20#	
	<i>CO-16TD2</i>	20	ZL-CO-CBL20#	ZL-CO-CBL20#		
	<i>CO-04TRS*</i>	20	ZL-CO-CBL20#			

*Note: The CO-04TRS relay output is derated not to exceed 2A per point max. when used with the ZIPLink wiring system

ZIPLink Connector Modules specifications begin on page 26-56

ZIPLink Cables specifications begin on page 26-74

- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMIs
- Other HMI
- AC Drives
- Motors
- Steppers/ Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Current Sensors
- Pushbuttons/ Lights
- Process
- Relays/ Timers
- Comm.
- TB's & Wiring
- Power
- Circuit Protection
- Enclosures
- Appendix
- Part Index

Step 1	Locate the I/O Module part number.
Step 2	Locate Connector Module Type. (Feedthrough Module, Fuse Module, etc...)
Step 3	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1m, -2 = 2m ¹
¹ Note: Cable part number denotes compatibility between Connector Module and I/O Modules.	

DL05/06 PLCs ZIPLink Wiring System Compatibility Matrix						
Step 2: Connector Module Type		Feedthrough Modules	Fuse Modules	Relay Modules	Sensor Input Modules	Pigtail Cable
Step 1: I/O Module	Number of Terminals	Step 3: Cables				
		ZL-RTB20	ZL-RFU20	ZL-RRL16-24	ZL-LTB16-24	
Inputs						
DO-10ND3	13	ZL-D0-CBL13#				
DO-10ND3F	13	ZL-D0-CBL13#				
DO-16ND3	24	ZL-D0-CBL24#L			ZL-D0-CBL24#L	ZL-D0-CBL24#P
FO-08NA-1	10	ZL-D0-CBL10#				
Outputs						
DO-10TD1	13	ZL-D0-CBL13#				
DO-16TD1	24	ZL-D0-CBL24#	ZL-D0-CBL24#	ZL-D0-CBL24#		ZL-D0-CBL24#P
DO-10TD2	13	ZL-D0-CBL13#				
DO-16TD2	24	ZL-D0-CBL24#	ZL-D0-CBL24#			ZL-D0-CBL24#P
DO-08TR	10	ZL-D0-CBL10#				
FO-04TRS*	13	ZL-D0-CBL13#				
Combo In/Out						
DO-07CDR	10	ZL-D0-CBL10#				
DO-08CDD1	13	ZL-D0-CBL13#				
Analog						
FO-04AD-1	8	ZL-D0-CBL8#				
FO-04AD-2	8	ZL-D0-CBL8#				
FO-08ADH-1	13	ZL-D0-CBL13#				
FO-08ADH-2	13	ZL-D0-CBL13#				
FO-04DAH-1	13	ZL-D0-CBL13#				
FO-08DAH-1	13	ZL-D0-CBL13#				
FO-04DAH-2	13	ZL-D0-CBL13#				
FO-08DAH-2	13	ZL-D0-CBL13#				
FO-2AD2DA-2	8	ZL-D0-CBL8#				
FO-4AD2DA-1	8	ZL-D0-CBL8#				
FO-4AD2DA-2	8	ZL-D0-CBL8#				
FO-04RTD**						
FO-04THM**						

*Caution: The FO-04TRS relay outputs are derated not to exceed 2 Amps per point when used with the ZIPLink wiring system.
 **The F2-04RTD and F2-04THM modules are not supported by the ZIPLink wiring system. These modules require wire specific to the signal type.

ZIPLink Connector Modules specifications begin on page 26-56
 ZIPLink Cables specifications begin on page 26-74

Step 1	Locate the I/O module part number.
Step 2	Locate Connector Module Type. (Feedthrough Module, Fuse Module, etc...)
Step 3	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1.0m, -2 = 2.0m ¹
¹ Note: Cable part number denotes compatibility between Connector Module and I/O Modules.	

DL205 PLCs ZIPLink Wiring System Compatibility Matrix									
Step 2: Connector Module Type		Feedthrough Modules		Fuse Modules		Relay Modules	Sensor Input Modules		Pigtail Cable
Step 1: I/O Module	Number of Terminals	ZL-RTB20	ZL-RTB40	ZL-RFU20	ZL-RFU40	ZL-RRL16-24	ZL-LTB16-24	ZL-LTB32-24	
Step 3: Cables									
Inputs									
D2-08ND3	10	ZL-D2-CBL10#							
D2-16ND3-2	19	ZL-D2-CBL19#					ZL-D2-CBL19#		ZL-D2-CBL19#P
D2-32ND3	40		ZL-D24-CBL40#					ZL-D24-CBL40#	ZL-D2-CBL40#P
D2-32ND3-2	40		ZL-D24-CBL40#					ZL-D24-CBL40#	ZL-D2-CBL40#P
D2-08NA-1	10	ZL-D2-CBL10#							
D2-08NA-2	10	ZL-D2-CBL10#							
D2-16NA	19	ZL-D2-CBL19#							ZL-D2-CBL19#P
Outputs									
D2-04TD1*	10	ZL-D2-CBL10#							
D2-08TD1	10	ZL-D2-CBL10#							
D2-08TD2	10	ZL-D2-CBL10#							
D2-16TD1-2	19	ZL-D2-CBL19#		ZL-D2-CBL19#		ZL-D2-CBL19#			ZL-D2-CBL19#P
D2-16TD2-2	19	ZL-D2-CBL19#		ZL-D2-CBL19#					ZL-D2-CBL19#P
D2-32TD1	40		ZL-D24-CBL40#		ZL-D24-CBL40#				ZL-D2-CBL40#P
D2-32TD2	40		ZL-D24-CBL40#		ZL-D24-CBL40#				ZL-D2-CBL40#P
D2-08TA	10	ZL-D2-CBL10#							
F2-08TA	10	ZL-D2-CBL10#							
D2-12TA	19	ZL-D2-CBL19#		ZL-D2-CBL19#					ZL-D2-CBL19#P
D2-04TRS*	10	ZL-D2-CBL10#							
D2-08TR	10	ZL-D2-CBL10#							
F2-08TRS*	19	ZL-D2-CBL19#							ZL-D2-CBL19#P
F2-08TR**	10	ZL-D2-CBL10#							
D2-12TR	19	ZL-D2-CBL19#		ZL-D2-CBL19#					ZL-D2-CBL19#P
Combo In/Out									
D2-08CDR	10	ZL-D2-CBL10#							
Analog									
F2-04AD-1	10	ZL-D2-CBL10#							
F2-04AD-1L	10	ZL-D2-CBL10#							
F2-08AD-1	10	ZL-D2-CBL10#							
F2-04AD-2	10	ZL-D2-CBL10#							
F2-04AD-2L	10	ZL-D2-CBL10#							
F2-08AD-2	10	ZL-D2-CBL10#							
F2-02DA-1	10	ZL-D2-CBL10#							
F2-02DA-1L	10	ZL-D2-CBL10#							
F2-02DAS-1	10	ZL-D2-CBL10#							
F2-08DA-1	19	ZL-D2-CBL19#							ZL-D2-CBL19#P
F2-02DA-2	10	ZL-D2-CBL10#							
F2-02DA-2L	10	ZL-D2-CBL10#							
F2-02DAS-2	10	ZL-D2-CBL10#							
F2-08DA-2	10	ZL-D2-CBL10#							
F2-4AD2DA	10	ZL-D2-CBL10#							
F2-8AD4DA-1	19	ZL-D2-CBL19#							ZL-D2-CBL19#P
F2-8AD4DA-2	19	ZL-D2-CBL19#							ZL-D2-CBL19#P
F2-04RTD***									
F2-04THM***									

*Caution: The D2-04TD1, D2-04TRS, and F2-08TRS outputs are derated not to exceed 2 Amps per point and 2 Amps per common when used with the ZIPLink wiring system.

**The F2-08TR outputs are derated not to exceed 2 Amps per point and 4 Amps per common when used with the ZIPLink wiring system.

***The F2-04RTD and F2-04THM modules are not supported by the ZIPLink wiring system. These modules require wire specific to the signal type.

ZIPLink Connector Modules specifications begin on page 26-56

ZIPLink Cables specifications begin on page 26-74

Step 1	Locate the I/O module part number.
Step 2	Locate Connector Module Type. (Feedthrough Module, Fuse Module, etc...)
Step 3	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1.0m, -2 = 2.0m ¹
¹ Note: Cable part number denotes compatibility between Connector Module and I/O Modules.	

DL305 PLCs ZIPLink Wiring System Compatibility Matrix					
Step 2: Connector Module Type		Feedthrough Modules	Fuse Modules	Relay Modules	Sensor Input Modules
Step 1: I/O Module	Number of Terminals	ZL-RTB20	ZL-RFU20	ZL-RRL16-24	ZL-LTB16-24
Step 3: Cables					
Inputs					
D3-08ND2*	10				
D3-16ND2-1	18	ZL-D3-CBL18#			
D3-16ND2F	18	ZL-D3-CBL18#			
F3-16ND3F	18	ZL-D3-CBL18#			
D3-08NA-1*	10				
D3-08NA-2*	10				
D3-16NA	18	ZL-D3-CBL18#			
D3-08NE3*	10				
D3-16NE3	18	ZL-D3-CBL18#			ZL-D3-CBL18#
Outputs					
D3-04TD1*	10				
D3-08TD1*	10				
D3-08TD2*	10				
D3-16TD1-1	18	ZL-D3-CBL18#	ZL-D3-CBL18#	ZL-D3-CBL18#	
D3-16TD2	18	ZL-D3-CBL18#	ZL-D3-CBL18#		
D3-04TAS*	10				
F3-08TAS-1	18	ZL-D3-CBL18#			
D3-08TA-1	18	ZL-D3-CBL18#			
D3-08TA-2*	10				
F3-16TA-2	18	ZL-D3-CBL18#	ZL-D3-CBL18#		
D3-16TA-2	18	ZL-D3-CBL18#	ZL-D3-CBL18#		
D3-08TR*	10				
D3-16TR**	18	ZL-D3-CBL18#	ZL-D3-CBL18#		
F3-08TRS-1**	18	ZL-D3-CBL18#			
F3-08TRS-2**	18	ZL-D3-CBL18#			
Analog					
F3-04ADS	18	ZL-D3-CBL18#			
F3-08AD-1	18	ZL-D3-CBL18#			
F3-16AD	18	ZL-D3-CBL18#			
F3-04DA-1	18	ZL-D3-CBL18#			
F3-04DAS	18	ZL-D3-CBL18#			
F3-08THM-J***					
F3-08THM-K***					

*These I/O modules have non-removable terminal blocks which can be terminated using the ZL-CBL24-N cable and the ZL-RTB20 module of the ZIPLink wiring system.

**Caution: The D3-16TR, F3-08TRS-1 and F3-08TRS-2 relay outputs are derated not to exceed 2 Amps per point and 4 Amps per common when used with the ZIPLink wiring system.

***The F3-08THM-J and F3-08THM-K modules are not supported by the ZIPLink wiring system. These modules require wire specific to the signal type.

ZIPLinks Connector Modules specifications begin on page 26-56

ZIPLinks Cables specifications begin on page 26-74

Step 1	Locate the I/O module part number.
Step 2	Locate Connector Module Type. (Feedthrough Module, Fuse Module, etc...)
Step 3	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1.0m, -2 = 2.0m ¹
¹ Note: Cable part number denotes compatibility between Connector Module and I/O Modules.	

DL405 PLCs ZIPLink Wiring System Compatibility Matrix									
Step 2: Connector Module Type		Feedthrough Modules		Fuse Modules		Relay Modules	Sensor Input Modules		Pigtail Cable
Step 1: I/O Module	Number of Terminals	ZL-RTB20	ZL-RTB40	ZL-RFU20	ZL-RFU40	ZL-RRL16-24	ZL-LTB16-24	ZL-LTB32-24	
Step 3: Cables									
Inputs									
D4-08ND3S	20	ZL-D4-CBL20#							
D4-16ND2	20	ZL-D4-CBL20#					ZL-D4-CBL20#		
D4-16ND2F	20	ZL-D4-CBL20#					ZL-D4-CBL20#		
D4-32ND3-1	40		ZL-D24-CBL40#					ZL-D24-CBL40#	ZL-D24-CBL40#P
D4-32ND3-2	40		ZL-D24-CBL40#					ZL-D24-CBL40#	ZL-D24-CBL40#P
D4-64ND2*	40		ZL-D24-CBL40#					ZL-D24-CBL40#	ZL-D24-CBL40#P
D4-08NA**	11								
D4-16NA	20	ZL-D4-CBL20#							
D4-16NA-1	20	ZL-D4-CBL20#							
D4-16NE3	20	ZL-D4-CBL20#					ZL-D4-CBL20#		
F4-08NE3S	20	ZL-D4-CBL20#							
Outputs									
D4-08TD1**	11								
F4-08TD1S**	20								
D4-16TD1	20	ZL-D4-CBL20#		ZL-D4-CBL20#					
D4-16TD2	20	ZL-D4-CBL20#		ZL-D4-CBL20#					
D4-32TD1	40		ZL-D24-CBL40#		ZL-D24-CBL40#				ZL-D24-CBL40#P
D4-32TD1-1	40		ZL-D24-CBL40#		ZL-D24-CBL40#				ZL-D24-CBL40#P
D4-32TD2	40		ZL-D24-CBL40#		ZL-D24-CBL40#				ZL-D24-CBL40#P
D4-64TD1*	40		ZL-D24-CBL40#		ZL-D24-CBL40#				ZL-D24-CBL40#P
D4-08TA**	11								
D4-16TA	20	ZL-D4-CBL20#		ZL-D4-CBL20#					
D4-08TR**	11								
F4-08TRS-1****	20	ZL-D4-CBL20#							
F4-08TRS-2****	20	ZL-D4-CBL20#							
D4-16TR**	20	ZL-D4-CBL20#		ZL-D4-CBL20#					
Analog									
F4-04AD	20	ZL-D4-CBL20#							
F4-04ADS	20	ZL-D4-CBL20#							
F4-08AD	20	ZL-D4-CBL20#							
F4-16AD-1	20	ZL-D4-CBL20#							
F4-16AD-2	20	ZL-D4-CBL20#							
F4-04DA-1	20	ZL-D4-CBL20#							
F4-04DA-2	20	ZL-D4-CBL20#							
F4-08DA-1	20	ZL-D4-CBL20#							
F4-16DA-1	20	ZL-D4-CBL20#							
F4-08DA-2	20	ZL-D4-CBL20#							
F4-16DA-2	20	ZL-D4-CBL20#							
F4-04DAS-1	20	ZL-D4-CBL20#							
F4-04DAS-2	20	ZL-D4-CBL20#							
F4-08THM**	21								
F4-08THM-n**	21								
F4-08RTD**	20								

*The D4-64ND2 and D4-64TD1 modules have two 32-point connectors and require 2 ZIPLink cables and 2 ZIPLink connector modules.

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

***Caution: The D4-16TR relay outputs are derated not to exceed 2 Amps per point and 4 Amps per common when used with the ZIPLink wiring system.

****The F4-08TRS-1 and F4-08TRS-2 are derated not to exceed 2 Amps per point and 2 Amps per common when used with the ZIPLink wiring system.

ZIPLinks Connector Modules specifications begin on page 26-56

ZIPLinks Cables specifications begin on page 26-74

Drive Communication Cable Selection	
Step 1	Select Drive
Step 2	Select Network Type Protocol
Step 3	Select PLC Type
Step 4	Select Port
Step 5	Cable Type

Note: If a PLC type or PLC port is not listed in the selection charts, it does not support modbus RTU.

Step1: Select Drive	Step3: PLC	CLICK	DL05	DL06	
	Step 4: Port	Port 2	Port 2	Port 1	Port 2
GS1	Step 2: Network Type Protocol	Step 5: Select Cable Type			
	RS485 Modbus RTU	Not Possible	Not Possible	Not Possible	GS-485HD15-CBL
GS2	RS232 Modbus RTU	Not Possible	GS-RJ12-CBL-2	Not Possible	FA-15HD + GS-RJ12-CBL-2
	RS485 Modbus RTU	Not Possible	Not Possible	Not Possible	GS-485HD15-CBL
DuraPulse	RS485 Modbus RTU	Not Possible	Not Possible	Not Possible	GS-485HD15-CBL
SureServo	RS232 Modbus RTU	SVC-232RJ12-CBL-2	SVC-232RJ12-CBL-2	Not Possible	FA-15HD + SVC-232RJ12-CBL-2
	RS485 Modbus RTU	Not Possible	Not Possible	Not Possible	SVC-485HD15-CBL-2 or (FA-15HD + SVC-485RJ12-CBL-2)

Step1: Select Drive	Step3: PLC	D2-250-1	D2-260		D4-450
	Step 4: Port	Port 2	Port 1	Port 2	Port 1
GS1	Step 2: Network Type Protocol	Step 5: Cable Type			
	RS485 Modbus RTU	Not Possible	Not Possible	GS-485HD15-CBL-2	Not Possible
GS2	RS232 Modbus RTU	FA-15HD + GS-RJ12-CBL-2	Not Possible	FA-15HD + GS-RJ12-CBL-2	FA-CABKIT + GS-RJ12-CBL-2
	RS485 Modbus RTU	Not Possible	Not Possible	GS-485HD15-CBL-2	Not Possible
DuraPulse	RS485 Modbus RTU	Not Possible	Not Possible	GS-485HD15-CBL-2	Not Possible
SureServo	RS232 Modbus RTU	FA-15HD + SVC-232RJ12-CBL-2	Not Possible	FA-15HD + SVC-232RJ12-CBL-2	FA-CBLKIT + SVC-232RJ12-CBL-2
	RS485 Modbus RTU	Not Possible	Not Possible	SVC-485HD15-CBL-2 or (FA-15HD + SVC-485RJ12-CBL-2)	Not Possible

Feedthrough Connector Module ZL-RTB50 Connecting Cables		
Part Number	Description	Price
ZL-SVC-CBL50	Shielded twisted pair cable with 50-pin connectors to connect any SureServo amplifier to a ZL-RTB50 module, 28 AWG, 1.6 ft. (0.5m)	<--->
ZL-SVC-CBL50-1	Shielded twisted pair cable with 50-pin connectors to connect any SureServo amplifier to a ZL-RTB50 module, 28 AWG, 3.3 ft. (1.0m)	<--->
ZL-SVC-CBL50-2	Shielded twisted pair cable with 50-pin connectors to connect any SureServo amplifier to a ZL-RTB50 module, 28 AWG, 6.6 ft. (2.0m)	<--->

ZIPLinks Connector Modules specifications begin on page 26-56

ZIPLinks Cables specifications begin on page 26-74

PLC Overview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405 PLC

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

TB's & Wiring

Power

Circuit Protection

Enclosures

Appendix

Part Index