

# Fuse Modules

Fuse modules provide fuse protection for PLC output devices. The 8 and 16-point fuse modules include replaceable fuses and protective safety covers. Use with DL05/06/205/305/405 PLCs.

Commons are not isolated on ZL-CM16TF1 and ZL-CM16TF2.

Modules mount on 35 mm DIN rail part #DN- R35S1 (see Accessories below).

**Note: Do not exceed 5 Amps maximum per common with PLC I/O modules D2-12TR, D3-16TA2, D4-16TA.**



ZL-CM08TF



ZL-CM16TF1



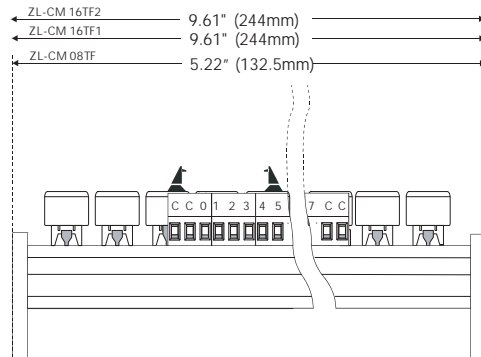
ZL-CM16TF2

Specifications									
Fuse Modules	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg
		ZL-CM08TF	1	<--->	ZL-CM16TF1	1	<--->	ZL-CM16TF2	1
<b>Description</b>	8-point I/O fused connector module, 20 pin IDC			16-point I/O fused connector module, 20 pin IDC			16-point I/O fused connector module, 24 pin IDC		
<b>Approvals</b>	UL,CUL,CE			UL,CUL,CE			UL,CUL,CE		
<b>Voltage Rating</b>	0 -132VAC/DC			0 -132VAC/DC			0 -132VAC/DC		
<b>Maximum Peak Voltage</b>	600Vp			600Vp			600Vp		
<b>Number of Channels</b>	8			16			16		
<b>Maximum Current (per Circuit)</b>	2A			2A			2A		
<b>Maximum Current (per Module)</b>	12A			16A			16A		
<b># of Terminals per Device Common</b>	1			2			2		
<b>Terminal Block Contacts</b>	Copper alloy, tin-lead plating								
<b>Wire Range (Rated Cross Section)</b>	14-22 AWG (0.2-2.5mm <sup>2</sup> )			14-22 AWG (0.2-2.5mm <sup>2</sup> )			14-22 AWG (0.2-2.5mm <sup>2</sup> )		
<b>Wire Strip Length</b>	0.32" (8mm)			0.32" (8mm)			0.32" (8mm)		
<b>Tightening Torque</b>	3.5-4.5 lb-in. (0.38-0.50 Nm)			3.5-4.5 lb-in. (0.38-0.50 Nm)			3.5-4.5 lb-in. (0.38-0.50 Nm)		
<b>Operating Temperature Range</b>	-10°C to +50°C			-10°C to +50°C			-10°C to +50°C		
<b>Storage temperature</b>	-10°C to +50°C			-10°C to +50°C			-10°C to +50°C		
<b>Protection</b>	IP00			IP00			IP00		
<b>Replaceable Fuse Size*</b>	Eight 5x20mm 2 Amp - each circuit One 5x20mm 5 Amp - common fuse			Sixteen 5x20mm 2 Amp - each circuit One 5x20mm 5 A - common fuse			Sixteen 5x20mm 2 Amp - each circuit One 5x20mm 5 A - common fuse		
<b>Dimensions (L x W x H)</b>	3.66"x2.48"x5.22"			3.66"x2.48"x9.61"			3.66"x2.48"x9.61"		

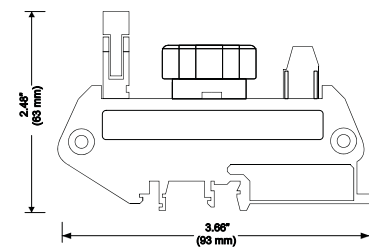
Accessories									
	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg
<b>DIN Rail</b>	DN-R35S1	10	<--->	DN-R35S1	10	<--->	DN-R35S1	10	<--->
<b>Angled Support Bracket</b>	DN-ASB1	50	<--->	DN-ASB1	50	<--->	DN-ASB1	50	<--->
<b>End Bracket</b>	DN-EB35	50	<--->	DN-EB35	50	<--->	DN-EB35	50	<--->
<b>Slotted Screwdriver</b>	DN-SS1	1	<--->	DN-SS1	1	<--->	DN-SS1	1	<--->
<b>Fuse Kit</b>	ZL-FUSE-KIT	Assorted fuses	<--->	ZL-FUSE-KIT	Assorted fuses	<--->	ZL-FUSE-KIT	Assorted fuses	<--->

\*Such as a Ferraz Shawmut GSB2 and GSB5 or Bussman GDB-2A and GDB-5A fast-acting fuse or equivalent

ZL-CM16TF2  
ZL-CM16TF1  
ZL-CM08TF



Dimensions



Note: See wiring details on our Web site at:

<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>

# Connection Cables

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Conductor Size	Price
<b>Standard DL205 8 Channel</b>				
ZL-2CBL1	DL205-8 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-2CBL1-1	DL205-8 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-2CBL1-2	DL205-8 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL205 16 Channel</b>				
ZL-2CBL2	DL205-16 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-2CBL2-1	DL205-16 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-2CBL2-2	DL205-16 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>LED/Sensor DL205 16 Channel</b>				
ZL-2CBL2L	DL205-16, ZIPLink LED/sensor module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-2CBL2L-1	DL205-16, ZIPLink LED/sensor module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-2CBL2L-2	DL205-16, ZIPLink LED/sensor module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL305 16 Channel</b>				
ZL-3CBL2	DL305-16 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2-1	DL305-16 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2-2	DL305-16 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>LED/Sensor DL305 16 Channel</b>				
ZL-3CBL2L	DL305-16, ZIPLink LED/sensor module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2L-1	DL305-16, ZIPLink LED/sensor module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2L-2	DL305-16, ZIPLink LED/sensor module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Fuse/Relay DL305 8 Channel</b>				
ZL-3CBL1FR8	DL305-8, ZIPLink fuse/relay module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL1FR8-1	DL305-8, ZIPLink fuse/relay module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL1FR8-2	DL305-8, ZIPLink fuse/relay module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Fuse/Relay DL305 16 Channel</b>				
ZL-3CBL2FR16	DL305-16, ZIPLink fuse/relay module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2FR16-1	DL305-16, ZIPLink fuse/relay module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2FR16-2	DL305-16, ZIPLink fuse/relay module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL305 16 Channel</b>				
ZL-3CBL3	DL305-16 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3-1	DL305-16 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3-2	DL305-16 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Fuse/Relay DL305 16 Channel</b>				
ZL-3CBL3FRD16	DL305-16, ZIPLink fuse/relay module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3FRD16-1	DL305-16, ZIPLink fuse/relay module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3FRD16-2	DL305-16, ZIPLink fuse/relay module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL405 16 Channel</b>				
ZL-4CBL2	DL405-16 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-4CBL2-1	DL405-16 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-4CBL2-2	DL405-16 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL205 or DL405 32 Channel</b>				
ZL-4CBL4	DL205 or DL405-32 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-4CBL4-1	DL205 or DL405-32 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-4CBL4-2	DL205 or DL405-32 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->

ZL-2CBL1xx



ZL-2CBL2xx



ZL-3CBL2xx



ZL-3CBL3xx



ZL-4CBL2xx



ZL-4CBL4xx



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

# Connection Cables (cont.)

ZiPLink Connection Cables				
Part Number	Description	Insulation Rating	Conductor Size	Price
<b>Communication Adapter</b>				
ZL-DN15TB-CBL	15 pin shielded cable for DN-15TB module 6.5 ft (2M)	300V 80°C	#28 AWG	<--->
ZL-DN25TB-CBL	25 pin shielded cable for DN-25TB module 6.5 ft (2M)	300V 80°C	#28 AWG	<--->
<b>Ready to Wire w/Pigtail End</b>				
ZL-2CBL2-2P	DL-205-16 Ready-to-wire 20 conductor cable, 2A max/conductor 6.5 ft (2M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3-2P	DL-305-16 Ready-to-wire 24 conductor cable, 2A max/conductor 6.5 ft (2M)	300V 80°C	#24 AWG	<--->
<b>Standard DL05/06</b>				
ZL-CBL056	Ziplink cable for DL05 and 06 16 point I/O modules to Ziplink feedthrough modules (0.5M)	300V 80°C	#24 AWG	<--->
ZL-CBL056L	Ziplink cable for DL05 and 06 16 point I/O LED modules (0.5M)	300V 80°C	#24 AWG	<--->
ZL-CBL056FR	Ziplink cable for DL05 and 06 16 point I/O fuse/relay modules (0.5M)	300V 80°C	#24 AWG	<--->
<b>Standard</b>				
ZL-DB9-CBL	Cable with 9-pin Dsub connectors on both ends, black. male/female, (2M)	300V 80°C	#28 AWG	<--->
ZL-DB15-CBL	Cable with 15-pin Dsub connectors on both ends, black. male/female, (2M)	300V 80°C	#28 AWG	<--->
ZL-DB25-CBL	Cable with 25-pin Dsub connectors on both ends, black. male/female, (2M)	300V 80°C	#28AWG	<--->
ZL-RJ12-CBL	Reverse-wired cable with two RJ12 connectors, black. (2M)	300V 80°C	#28 AWG	<--->

Note: Use ZL-DN15TB-CBL cable only for Communication Module DN-15TB; Super VGA cables will not function correctly.

ZL-2CBL2-2P\*



\* Can be used with any brand PLC.

ZL-CBL056L



ZL-DN15TB-CBL



ZL-DN25TB-CBL

