

Programmable Controller Wiring Systems

Overview

 Analog Wiring Systems  Digital Wiring Systems with Field-Removable Terminal Blocks	Bulletin 1492 Programmable Controller Wiring Systems - Increases machine building productivity - Simplifies design and engineering time - Reduces wiring time and wiring errors - Benefits from quality-looking panels Standards Compliance and Certifications - Agency Certifications for Modules and Cables cULus: Hazardous Locations: Class I Div 2 (all except modules with relays); Groups A, B, D, and D. Temperature Code: T3C @ 60 °C. UL File No. E10314, Guide No. NRAQ cULus: Ordinary Locations; Module with relays; UL File No. E11372 Guide No. NRAQ - Agency Certification Modules Factory Mutual (FM): Hazardous Locations; Class I Div 2 (all except modules with relays); Groups A, B, C, and D. Temperature Rating: T3C @ 60 °C. FM file J.I.3000590 - CE Certifications Compliant for all applicable directives	Table of Contents Catalog Number Explanation 12-129 Selection Tables 12-141 Digital IFM Specifications 12-160 Standards Compliance and Certifications, Continued - UL 508 - UL 1604 - CSA C22.2 No. 14 - CSA C22.2 No. 213 - EN/IEC 61131-2
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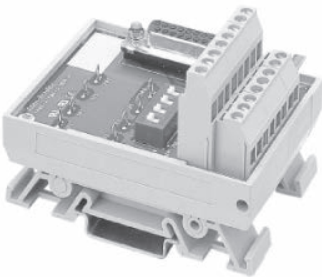
Bulletin	1746	1756	1762	1764	1769	1794	1771	Bulletin 700H and 700S
Description	SLC 500	ControlLogix	MircoLogix 1200	MicroLogix 1500	CompactLogix	Flex	PLC-5	PowerFlex Drive
Product Selection	Web *	12-142	12-153	12-153	12-148	12-154	Web *	12-157

* Information for this product is available on the Industrial Controls Catalog website: www.ab.com/catalogs

Analog Interface Modules (AIFMs)
General Information

Analog AIFMs are available with either 15- or 25-pin D-Shell connections. This is determined by the number of connections that are required by the I/O module.

Important: The following AIFM Cat. No. breakdown is for explanation purposes only. It is not a product configurator. Not all combinations of fields are valid product cat. nos. Use this breakdown for verification and explanation only.



1492 – AIFM

16F – 5

a b c

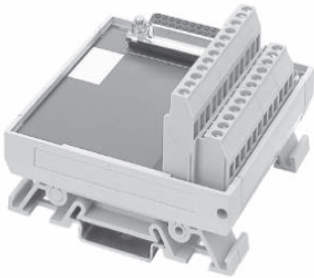
a	
Modules	
Code	Description
AIFM	Analog Interface Module with Fixed Terminal Block
RAIFM	Analog Interface Module with Removable Terminal Block
TAIFM	Analog Interface Module for SIL2 (Safety Integrity Level 2)

b	
Module Type (all types do not configure a catalog number)	
Code	Description
4	4 channel
C	Combination
CE	Counter Encoder
6	6 channel
8	8 channel
16	16 channel
F	Fused

c	
Number of Field Side Wiring Terminals	
Code	Description
3	Three per I/O channel
5	Five per I/O channel

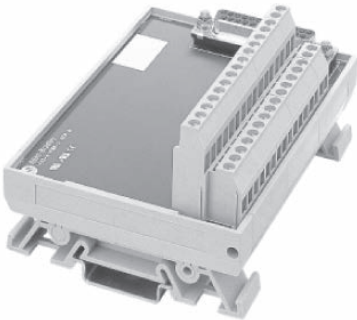
Analog Interface Modules (AIFMs)
Feed-Through

Feed-through IFMs provide the same capability as normal terminal blocks but in a more condensed package. Standard terminal IFMs provide **three field-side** wiring terminals per programmable controller analog input or output point, which includes enough terminals for the device shield and power connections.

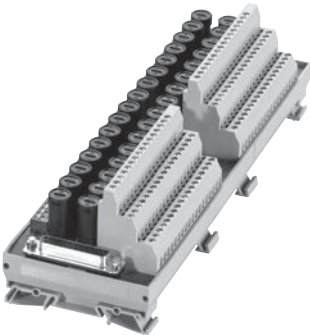


Standard Terminal 4-channel:
Cat. No. 1492-AIFM4-3

Isolated Standard Terminal
6-channel IFM with 25 connections:
Cat. No. 1492-AIFM6S-3, 1492-AIFM8-3



Standard Terminal 8-channel for
3-wire sensor devices:
Cat. No. 1492-AIFM8-3



Safety Integrity Level (SIL 2)
Cat. No. 1492-TAIFM16-F-3

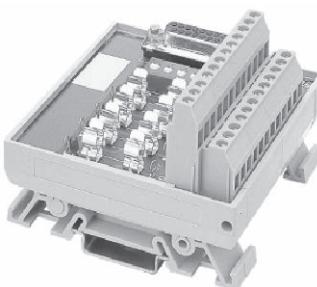
Analog Interface Modules (AIFMs)

Fusible

Fusible analog interface input modules provide a convenient method to fuse the input power source on the field side. The field-side power source is distributed through individual on-board 5 x 20 fuse holders. The AIFMs have a 24V DC blown fuse indicators to reduce the troubleshooting time required to locate and replace a blown fuse. Fusible modules have an easy-to-remove transparent plexiglass cover to prevent objects from contacting fuse circuitry under normal operation. Standard fuse holders reside in the IFM, aiding in the removal of a fuse with a fuse puller (fuses are not included). Isolation switch plugs, or “dummy fuses”, are also available to isolate an input circuit once power is removed. In addition, once the circuit has been isolated and power restored, the input loop current can be measured in 2-wire transmitter applications. The fusible modules also have three or five terminals per I/O analog input point to create a power bus for device shield and power connections.



Fused 4-channel module with 24V blown fuse indication, test points and 5 terminals per input: Cat. No. 1492-AIFM4I-F-5
8-channel input module with 24V blown fuse indication and 5 terminals per input: Cat. No. 1492-AIFM8-F-5



Analog Fused Products
Cat. No. 1492-AIFM4C-F-5, 1492-AIFM4F-F-5, 1492-AIFM8-F-5, 1492-AIFM16-F-3, 1492-AIFM16-F-5

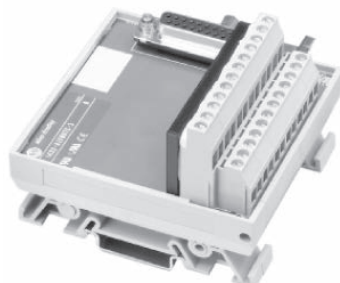


Fused 16-channel module with 24V blown fuse indication, test points and 3 terminals per input: Cat. No. 1492-AIFM16-F-3
16-channel input module with 24V blown fuse indication and 5 terminals per input

Analog Interface Modules (AIFMs)

Thermocouple

The Cat. No. 1492-AIFM6TC-3 Thermocouple IFM for the Cat. No. 1756-IT6I or -IT6I2 ControlLogix I/O module provides on-board cold junction compensation to allow thermocouples to be connected remotely while still correcting for temperature at the termination point. The combination thermistor and isothermal bar acquire temperature data at the AIFM for the thermocouple to adjust the input value.



Thermocouple 6-channel module with isothermal bar and 3 terminals per output: Cat. No. 1492-AIFM6-TC-3

Analog Cables
Pre-Wired

Bulletin 1492 pre-wired cables are designed to minimize control wiring in a panel. Pre-wired cables, when used with an analog IFM, replace the point-to-point wiring between Allen-Bradley programmable controller I/O modules and individual terminal blocks. The pre-wired cables have a removable terminal block or wiring arm from the PLC on one end of the cable and a D-Shell connector with a slide-locking mechanism on the other to connect to the IFM. Most pre-wired cables use twisted pairs and all have shield to aid noise immunity of the low-level analog signals. Most cables have a prepared drain wire with a ring lug at the I/O module end of the cable for convenient grounding of the cable shield to the chassis. They are 100% tested for continuity to make a perfect connection every time. The analog pre-wired cables are offered in four standard lengths of 0.5, 1.0, 2.5, and 5.0 m to fit a variety of applications. Other length cables are also available as build-to-order products. Pre-wired analog cables are available for many of the Bulletin 1746 SLC I/O, Bulletin 1756 ControlLogix I/O, Bulletin 1769 Compact I/O for CompactLogix, MicroLogix 1500, 1794 Flex I/O, and Bulletin 1771 PLC-5 I/O modules.

Analog Cables
I/O Ready - Not Available

Analog Cables
IFM Ready - Not Available

Cat. No. Explanation
Analog Cables for Bulletins 1746, 1756/1757, and 1771

1492 - ACABLE 010 A
a b c

Table with 3 main sections: 'a' (Analog Interface Cables), 'b' (Standard or Build-to-Order Length Cable), and 'c' (A-Cable Type). Section 'b' includes codes 005, 010, 025, 050, 001-020, 020-100, and 100-300 with their respective descriptions and lengths. Section 'c' includes codes A, B, C, D, K, L, P, Q, R; E, F, G, H, J; TA, TB, TC, TD, UA, UB, UC, UD, VA, VB, WA, WB, X, Y, Z, ZA, ZB, ZC; YT; and M with their descriptions.

Important: Use tables as a product configurator for pre-wired, IFM-ready, and I/O module-ready cables for Bulletins 1746, 1756, and 1771 digital I/O module cables. All combinations of these fields make valid product cat. nos. Refer to selection tables for IFM/XIM compatibility, additional cables, and ordering.

Cat. No. Explanation
Analog Cables for Bulletin 1746, 1769, 700H/700S and 1794

1492 - ACAB 005 A46
a b c

Table with 3 main sections: 'a' (Analog Interface Cables), 'b' (Standard or Build-to-Order Length Cable), and 'c' (Cable Type). Section 'b' includes codes 005, 010, 025, 050, 001-020, 020-100, and 100-300 with their respective descriptions and lengths. Section 'c' includes codes A46, AA69, AB69, BA69, BB69, BC69, BD69, C69, CA69, CB69, CC69, D69, EA69, EB69, EC69, ED69; Z7H; X7S, Z7S; and Z94 with their descriptions.

Important: For explanation purposes only. It is not a product configurator. All combinations of fields are not valid product cat. nos. First, select the desired AIFM using the steps in Ordering Digital and Analog Wiring Systems in publication 1492-TD008_EN-P. Then, use this breakdown for verification and explanation only.

Digital IFM Modules with Field-Removable Terminal Blocks (RTBs)

Select groups of standard, fused and relay digital 1492 wiring system modules (refer to Selection Tables) have field terminal blocks that can be removed (RTB). This RTB feature can provide easier wiring of field devices in a control cabinet where the IFM is located in a hard to reach area, or where hand-access is limited. It can also provide easier and faster replacement of a damaged or defective 1492 wiring system module. The removable plug portion of the RTB assembly has a screw at each end to securely fasten it to the RTB socket, which is mechanically secured to the module circuit board hand housing. Modules are shipped with the RTB socket, but without the removable plug(s). Plugs are available with screw style (e.g., 1492-RTB20N) or push-in style (e.g., 1492-RTB16P) terminals and must be ordered separately (two pieces per cat. no.). Refer to the selection tables for the particular PLC I/O system of interest to determine which modules are offered with field removable terminal blocks.

All of the features available on fixed terminal block products (e.g. labels, agency certification, etc.) are also provided for the removable terminal block 1492 wiring system modules.



Analog AIFM Modules with Field-Removable Terminal Blocks (RTBs)

Select groups of analog 1492 wiring system modules (refer to Selection Tables) have field terminal blocks that can be removed (RTB). This RTB feature can provide easier wiring of field devices in a control cabinet where the IFM is located in a hard to reach area, or where hand-access is limited. It can also provide easier and faster replacement of a damaged or defective 1492 wiring system module. The removable plug portion of the RTB assembly has a screw at each end to securely fasten it to the RTB socket, which is mechanically secured to the module circuit board and housing. Modules are shipped with the RTB socket, but without the removable plug(s). Plugs are available with screw style (1492-RTBxxN) or push-in style (1492-RTBxxP) terminals and must be ordered separately (Two pieces per cat. no.). Refer to the Selection Tables for the particular PLC I/O system of interest to determine which modules are offered with field Removable Terminals Blocks.

All of the features available on analog fixed terminal block products (e.g. labels, agency certification, etc.) are also provided for the removable terminal block 1492 wiring system modules.



Catalog Number Explanation

RTB Plugs

Important: The following cat. no. breakdown is for explanatory purposes only. It is not a product configurator. Not all combinations of fields are valid cat. nos. Use this breakdown for verification and explanation only.

$$1492 - \frac{RTB}{a} \quad \frac{20}{b} - \frac{N}{c}$$

a
Removable Terminal Block Plug

Number of Poles/Terminal	
Code	
8	
12	
14	
16	
17	
20	

Connector Style	
Code	Description
N	Screw Style
P	Push-in Style

Selecting a Wiring System

Use of Selection Tables

- Locate I/O module required. The top row indicates the I/O module for the I/O platform.
- Locate the interface module required. The second and third column indicates the interface module catalog number.
- Determine if an interface module exists for the I/O module; indicated by "Letter Code" in row (interface catalog number) and the column (I/O module).
- Locate cable. This is the letter indicated by "Letter Code" in the row (interface catalog number) and the column (I/O module). The "Letter Code" represents the suffix of the pre-wired cable.
- Determine cable catalog number. Add 1492-CABLE_ _ _ "Letter Code", example 1492-CABLE_ _ _ A.
- Determine length of cable required, standard lengths are 0.5, 1.0, 2.5, and 5.0 m; which represents 005, 010, 025 and 050 for _ _ _ in the cable catalog number. Example 1492-CABLE010A = a 1.0 m cable with "Letter Code" A.

Programmable Controller Wiring Systems

Bulletin 1756 ControlLogix Modules

Digital IFMs and Cables for Bulletin 1756 ControlLogix 8-point and 16-point I/O Modules

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block	Removable Terminal Block	RTB Plugs ❖	Bulletin 1756 ControlLogix I/O Module															
			Cat. No.	Cat. No.		Cat. No.	Digital Cable Cat. No. Suffix +														
Feed-Through																					
24... 240	1	Standard	1492-IFM20F	1492-RIFM20F	1492-RTB10❖	U	X	X	X	X	X	U	U	U	X	U	X	U	X		
	2	Extr. Term.	1492-IFM20F-2	1492-RIFM20F-2	1492-RTB20❖	U	X	X	X	X	X	U	U	U	X	U	X	U	X		
24... 120	1	Narrow	1492-IFM20FN	1492-RIFM20FN	1492-RTB20❖	U	X	X	X	X	X	U	U	U	X	U	X	U	X		
	3	Sensor	1492-IFM20F-3	—	—		X	X	X	X	X										
LED Indicating																					
24	1	Standard	1492-IFM20D24	—	—			X		X	X						X		X		
	1	Narrow	1492-IFM20D24N	—	—			X		X	X						X				
	2	Extr. Term. (input)	1492-IFM20D24A-2	—	—			X		X	X										
	2	Extr. Term. (output)	1492-IFM20D24-2	—	—												X		X		
	3	Sensor	1492-IFM20D24-3	—	—			X		X	X										
	4	Isolated w/Extr.Term.	1492-IFM20DS24-4	—	—				X		X	X					W		W	W	
120	1	Narrow	1492-IFM20D120N	—	—	U	X								X						
	2	Extr. Term. (input)	1492-IFM20D120A-2	—	—	U	X														
	2	Extr. Term. (output)	1492-IFM20D120-2	—	—										X						
	4	Isolated w/Extr.Term.	1492-IFM20DS120-4	—	—							W	V	V							
Fusible																					
24	2	Blown fuse LED	1492-IFM20F-F24-2	1492-RIFM20F-F24-2	1492-RTB20❖												X		X		
	2	Blown fuse LED (input)	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2				X		X											
24... 120	2	Extra Terminals	1492-IFM20F-F-2	1492-RIFM20F-F-2										X		X		X			
120	2	Blown fuse LED	1492-IFM20F-F120-2	1492-RIFM20F-F120-2										X							
	2	Blown fuse LED (input)	1492-IFM20F-F120A-2	1492-RIFM20F-F120A-2		X															
Fusible, Isolated																					
24	2	Blown fuse LED	1492-IFM20F-FS24-2	—	—											W		W	W		
24... 120	2	Extra Terminals	1492-IFM20F-FS-2	—	—							W	V	V		W		W	W		
120	2	Blown fuse LED	1492-IFM20F-FS120-2	—	—							W	V	V							
	4	Blown fuse LED	1492-IFM20F-FS120-4	—	—							W	V	V							
	4	Blown fuse LED (input)	1492-IFM20F-FS120A-4	—	—	U															
240	4	Blown fuse LED	1492-IFM20F-FS240-4	—	—							W									

See footnotes on the following page.



Digital IFMs and Cables for Bulletin 1769 CompactLogix 8-Point and 16-Point I/O Modules

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block	Removable Terminal Block	RTB Plugs ❖	Bulletin 1769 CompactLogix I/O Module															
						1769-IA8I	1769-IA16	1769-IQ16	1769-IQ16F	1769-IM12	1769-OA8	1769-OA16	1769-OB8	1769-OB16	1769-OV16	1769-OW8	1769-OW8I	1769-OW16			
			Cat. No.	Cat. No.	Cat. No.	Digital Cable Cat. No. Suffix +															
Feed-Through																					
120	1	Narrow	1492-IFM20FN	1492-RIFM20FN	1492-RTB10❖	F69	A69	B69	B69		C69	M69	L69	E69	E69	C69			M69		
120	3	Sensor	1492-IFM20F-3	—	—	—	A69	B69	B69												
240	1	Standard	1492-IFM20F	1492-RIFM20F	1492-RTB20❖	F69	A69	B69	B69	G69	C69	M69	L69	E69	E69	C69	D69		M69		
240	2	Extr. Term.	1492-IFM20F-2	1492-RIFM20F-2	1492-RTB20❖	—	A69	B69	B69	G69	C69	M69	L69	E69	E69	C69	—		M69		
LED Indicating																					
24	1	Standard	1492-IFM20D24	—	—			B69	B69						E69	E69			M69		
	1	Narrow	1492-IFM20D24N	—	—			B69	B69						E69				H69		
	2	Extr. Term. (output)	1492-IFM20D24-2	—	—										E69	E69			M69		
	2	Extr. Term. (input)	1492-IFM20D24A-2	—	—			B69	B69												
	3	Sensor	1492-IFM20D24-3	—	—			B69	B69												
	4	Isolated	1492-IFM20DS24-4	—	—												C69	D69			
120	1	Standard	1492-IFM20D120§	—	—		A69					M69							M69		
	1	Narrow	1492-IFM20D120N	—	—		A69					H69							H69		
	2	Extr. Term. (output)	1492-IFM20D120-2	—	—							M69							M69		
	2	Extr. Term. (input)	1492-IFM20D120A-2	—	—		A69														
	4	Isolated	1492-IFM20DS120-4	—	—						C69						C69	D69			
240	2	Extr. Term. (output)	1492-IFM20D240-2	—	—							M69							M69		
	2	Extr. Term. (input)	1492-IFM20D240A-2	—	—					G69											
Fusible																					
24	2	Extr. Term., blown fuse LED	1492-IFM20F-F24-2	1492-RIFM20F-F24-2	1492-RTB20❖										E69	E69			M69		
	2	Extr. Term. (input), blown fuse LED	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2	1492-RTB20❖			B69 *	B69 *							E69					
24...120	2	Extr. Term. (output)	1492-IFM20F-F-2	1492-RIFM20F-F-2	1492-RTB20❖							M69		E69	E69			M69			
120	2	Extr. Term., blown fuse LED	1492-IFM20F-F120-2	1492-RIFM20F-F120-2	1492-RTB20❖							M69							M69		
	2	Extr. Term. (input), blown fuse LED	1492-IFM20F-F120A-2	1492-RIFM20F-F120A-2	1492-RTB20❖		A69														
Fusible, Isolated																					
24	2	Extr. Term., blown fuse LED	1492-IFM20F-FS24-2	—	—												C69	D69			
24...120	2	Extr. Term. (output)	1492-IFM20F-FS-2	—	—						C69						C69	D69			
120	2	Extr. Term. (output), blown fuse LED	1492-IFM20F-FS120-2	—	—						C69						C69	D69			
	4	Extr. Term. (output), blown fuse LED	1492-IFM20F-FS120-4	—	—						C69						C69	D69			
240	4	Extr. Term. (output), blown fuse LED	1492-IFM20F-FS240-4	—	—													D69			

See footnotes on the following page.

Programmable Controller Wiring Systems

Bulletin 1762 and 1764 MicroLogix Modules

Digital IFMs and Cables for Bulletin 1762 MicroLogix 1200 I/O

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block Cat. No.	Removable Terminal Block Cat. No.	RTB Plugs ❖ Cat. No.	Bulletin 1762 MicroLogix1200 I/O Module					
						1762-L40AWA Inputs	1762-L40BWA Inputs	1762-L40BxB Inputs	1762-L40AWA Outputs	1762-L40BWA Outputs	1762-L40BxB Outputs
						Digital Cable Cat. No. Suffix +					
Feed-Through*											
120	1	Standard	1492-IFM40F	1492-RIFM40F	1492-RTB20❖	A62	A62	A62	B62	B62	B62
	2	Extr. Term.	1492-IFM40F-2	1492-RIFM40F-2		A62	A62	A62	B62	B62	B62

❖ To order a Pre-wired Cable, add the **Suffix No.** from the table above to the end of the **Cat. No.** below.

0.5M Cable = 1492-CAB005_
 1.0M Cable = 1492-CAB010_
 2.5M Cable = 1492-CAB025_
 5.0M Cable = 1492-CAB050_

Custom Length Cable = 1492-CABXXX_. See Catalog Number Explanation on page 12-136 for available Custom Length Codes to replace XXX in Cat. No.

❖ Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the ❖ in the catalog number with the code for the desired terminal style. The code for screw style is **N** and the code for push in style is **P**.

* When using this IFM module with the base I/O of the 1762 controller, the current rating of the outputs must be considered. Refer to Publication 1492-TD008 for details.

Digital IFMs and Cables for Bulletin 1764 MicroLogix 1500 I/O

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block	Removable Terminal Block	RTB Plugs ❖	Bulletin 1764 MicroLogix 1500 I/O Module					
						1764-AWA Inputs	1764-BWA Inputs	1764-BXB Inputs	1764-AWA Outputs	1764-BWA Outputs	1764-BXB Outputs
			Cat. No.	Cat. No.	Cat. No.	Digital Cable Cat. No.	Suffix	+			
Feed-Through*											
120	2	Narrow	1492-IFM20FN	1492-RIFM20FN	1492-RTB10❖	A64	A64	B64	C64	C64	F64
240	1	Standard	1492-IFM20F	1492-RIFM20F	1492-RTB20❖	A64	A64	B64	C64	C64	F64
	2	Extr. Term.	1492-IFM20F-2	1492-RIFM20F-2	1492-RTB20❖	A64	A64	B64	C64	C64	F64

❖ To order a Pre-wired Cable, add the **Suffix No.** from the table above to the end of the **Cat. No.** below.

0.5M Cable = 1492-CAB005_
 1.0M Cable = 1492-CAB010_
 2.5M Cable = 1492-CAB025_
 5.0M Cable = 1492-CAB050_

Custom Length Cable = 1492-CABXXX_. See Catalog Number Explanation on page 12-136 for available Custom Length Codes to replace XXX in Cat. No.

❖ Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the ❖ in the catalog number with the code for the desired terminal style. The code for screw style is **N** and the code for push in style is **P**.

* When using this IFM module with the base I/O of the 1764 controller, the current rating of the outputs must be considered. Refer to Publication 1492-TD008 for details.

Programmable Controller Wiring Systems

Bulletin 1794 Flex I/O Modules

Digital IFMs and Cables for Bulletin 1794 Flex I/O 8-Point and 16-Point Modules

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block	Removable Terminal Block	RTB Plugs ❖	Bulletin 1794 Flex Digital I/O Module ☒											
						1794-IB16	1794-IB8	1794-IB10XOB6	1794-IV16	1794-OB16	1794-OB16P	1794-OB8	1794-OB8EP	1794-OV16	1794-OV16P	1794-OW8	
			Cat. No.	Cat. No.	Cat. No.	Digital Cable Cat. No. Suffix ➤											
Feed-Through																	
24... 120	1	Standard	1492-IFM20F	1492-RIFM20F	1492-RTB20☒	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94
	1	Narrow	1492-IFM20FN	1492-RIFM20FN	1492-RTB10☒	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94
	2	Extr. Term.	1492-IFM20F-2	1492-RIFM20F-2	1492-RTB20☒	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94
	3	Sensor	1492-IFM20F-3	—	—	A94	A94		A94								
LED Indicating																	
24	1	Standard	1492-IFM20D24	—	—					A94	A94	A94	A94	A94	A94		
	1	Narrow	1492-IFM20D24N	—	—	A94	A94			A94	A94	A94	A94				
	2	Extr. Term. (output)	1492-IFM20D24-2	—	—					A94	A94	A94	A94		A94		
	2	Extr. Term. (input)	1492-IFM20D24A-2	—	—	A94	A94		A94								
	4	Isolated w/ Extr. Term.	1492-IFM20DS24-4	—	—												A94
120	4	Isolated w/ Extr. Term.	1492-IFM20DS120-4	—	—												A94
Fusible																	
24	2	Blown Fuse LED	1492-IFM20F-F24-2	1492-RIFM20F-F24-2	1492-RTB20☒					A94	A94	A94	A94	A94	A94		
	2	Blown Fuse LED (input)	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2	1492-RTB20☒	A94	A94										
24... 120	2	Blown Fuse LED	1492-IFM20F-F-2	1492-RIFM20F-F-2	1492-RTB20☒					A94	A94	A94	A94	A94	A94		
Fusible, Isolated																	
24	2	Blown Fuse LED	1492-IFM20F-FS24-2	—	—												A94
24... 120	2	Extr. Term. (output)	1492-IFM20F-FS-2	—	—												A94
120	2	Blown Fuse LED	1492-IFM20F-FS120-2	—	—												A94

Digital IFMs and Cables for Bulletin 1794 Flex I/O 16-Point and 32-Point Modules

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block	Removable Terminal Block	RTB Plugs ❖	Bulletin 1794 Flex Digital I/O Module➤			
						1794-IB16D	1794-IB16XOB16P	1794-IB32	1794-OB32P
			Cat. No.	Cat. No.		Cat. No.	Digital Cable Cat. No. Suffix➤		
Feed-Through									
24...120	1	Standard	1492-IFM40F	1492-RIFM40F	1492-RTB20⚡	B94	B94	B94	B94
	2	Extr. Term.	1492-IFM40F-2	1492-RIFM40F-2	1492-RTB20⚡	B94	B94	B94	B94
LED Indicating									
24	1	Standard	1492-IFM40D24	1492-RIFM40D24	1492-RTB20⚡			B94	B94
	2	Extr. Term. (output)	1492-IFM40D24-2	—	—				B94
	2	Extr. Term. (input)	1492-IFM40D24A-2	1492-RIFM40D24A-2	1492-RTB20⚡			B94	
Fusible									
24	2	Extr. Term. Blown Fuse LED	1492-IFM40F-F24-2	1492-RIFM40F-F24-2	1492-RTB20⚡				B94
24...120	2	Extr. Term. (output)	1492-IFM40F-F-2	—	—				B94

+ To order a Pre-wired Cable, add the **Suffix No.** from the table above to the end of the **Cat. No.** below.

0.5M Cable = 1492-CAB005_
 1.0M Cable = 1492-CAB010_
 2.5M Cable = 1492-CAB025_
 5.0M Cable = 1492-CAB050_

Custom Length Cable = 1492-CABXXX_. See Catalog Number Explanation on page 12-136 for available Custom Length Codes to replace XXX in Cat. No.

❖ Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the ⌘ in the catalog number with the code for the desired terminal style. The code for screw style is **N** and the code for push in style is **P**.

⌘ Uses D-Shell Base 1794-TB37DS

➤ Uses D-Shell Base 1794-TB62DS



Programmable Controller Wiring Systems

Bulletin 700H/700S I/O

Digital IFMs and Cables for PowerFlex 700H/700S I/O

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block	Removable Terminal Block	RTB Plugs ❖	700H Drive I/O Module		700S Drive I/O Module
			Cat. No.	Cat. No.	Cat. No.	20C-D01 & 20C-DA1-A	20C-D01 & 20CDA1-B	TB2
						Digital Cable Cat. No. Suffix +		
Feed-Through								
24...120	1	Standard	1492-IFM20F	1492-RIFM20F	1492-RTB20⚡	A7H	B7H	A7S
	1	Narrow	1492-IFM20FN	1492-RIFM20FN	1492-RTB10⚡	A7H	B7H	A7S
	2	Extr. Term.	1492-IFM20F-2	1492-RIFM20F-2	1492-RTB20⚡	A7H	B7H	A7S

❖ To order a Pre-wired Cable, add the **Suffix No.** from the table above to the end of the **Cat. No.** below.

0.5M Cable = 1492-CAB005_

1.0M Cable = 1492-CAB010_

2.5M Cable = 1492-CAB025_

5.0M Cable = 1492-CAB050_

Custom Length Cable = 1492-CABXXX_. See Catalog Number Explanation on page 12-136 for available Custom Length Codes to replace XXX in Cat. No.

❖ Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the ❖ in the catalog number with the code for the desired terminal style. The code for screw style is **N** and the code for push in style is **P**.

Analog AIFMs and Cables for PowerFlex 700H/700S I/O

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block	Removable Terminal Block	RTB Plugs ❖	700H Drive I/O Module		700S Drive I/O Module		
			Cat. No.	Cat. No.		Cat. No.	700H-20C-DA1-A	700H- 20C-DA1-B	700S-TB1 (Pins 1...12)	700S-TB1 (Pins 13...24)
							Analog Cable Cat. No. Suffix ➤			
Feed-through										
24	3...4	6-ch isolated	1492-AIFM6S-3	1492-RAIFM6S-3	1492-RTB12❖	Z7H	Z7H	Z7S		
24	4	2-ch counter, input, 4 output	1492-AIFMCE4	—	—				X7S	
24	4	2-ch fused counter, 4 fused output	1492-AIFMCE4-F	—	—				X7S	

❖ To order a Pre-wired Cable, add the **Suffix No.** from the table above to the end of the **Cat. No.** below.

0.5M Cable = 1492-ACAB005_

1.0M Cable = 1492-ACAB010_

2.5M Cable = 1492-ACAB025_

5.0M Cable = 1492-ACAB050_

Custom Length Cable = 1492-ACABXXX_. See Catalog Number Explanation on page 12-140 for available Custom Length Codes to replace XXX in Cat. No.

❖ Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the ❖ in the catalog number with the code for the desired terminal style. The code for screw style is **N** and the code for push in style is **P**.