TECHNICAL DATA



BULLETIN 1492

Digital/Analog Programmable Controller Wiring Systems









Bulletin 1492 Digital and Analog Wiring Systems

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Bulletin 1492 Digital/Analog Programmable Controller Wiring Systems

2 Allen-Bradley

Description

Connecting to Allen-Bradley PLC I/O is fast, convenient, and reliable with the Allen-Bradley Bul. 1492 wiring system. Unlike conventional terminal blocks, the Bul. 1492 wiring system connects to digital, analog, and high speed counter PLC I/O modules through pre-wired and pre-tested cables. The Bulletin 1492 wiring systems are compatible with modular I/O modules for Bulletin 1756 ControlLogix, 1769 CompactLogix, 1746 SLC 500, and 1771 PLC-5. A select group of wiring system modules are also compatible with the base I/O of the MicroLogix 1200 (40 I/O base only) and 1500 packaged controllers, plus the PowerFlex 700H and 700S drives. In addition, wiring system solutions are available for 1794 Flex I/O through the Flex D-shell type base modules, 1794-TB37DS and 1794-TB62DS. The interface modules are mounted onto a standard DIN #3 Rail. Pre-printed adhesive label cards containing field-wiring information are included for each interface module and I/O module combination.

Benefits

Reduced Wiring Time

PLC I/O module to field device wiring is completed in a fraction of the time when Bulletin 1492 wiring systems are used as compared with the traditional method of wiring each point to the PLC I/O swing arm and field-side terminal blocks. Pre-wired cables are factory-wired to the I/O wiring arm on one end and a connector for the Interface Module (IFM) on the other. IFMs enhance the capability of the I/O systems with added terminations, field-side LED status indicators, isolation circuits, overcurrent protection, and higher amp outputs. Both standard and specific build to order length cables are available, providing the correct length for any panel in a neat, space-efficient wiring solution.

Reduced Wiring Errors

Wiring system cables are pre-tested to ensure 100% accurate connections and eliminate the need for point-to-point checking of wiring—no more crossed wires and loose connections between the I/O module and the terminal block. Even one error in wiring 128 I/O points in a point-to-point system may require a complete check of the wiring. Wiring errors can take several minutes or hours to track down and correct before the panel is ready for startup. When IFMs and cables are snapped in place, they fit every time — no need to find the wrong or loose connection, resulting in a much higher rate of success at system startup.

Faster Troubleshooting and Easier Maintenance

Normal terminal blocks can't offer the benefits of Bulletin 1492 wiring systems, such as LED indication on each I/O point. Wiring systems improve system startup and ease troubleshooting and maintenance. Diagnostic capabilities in the form of fuses, blown fuse indication, and field-side ON-

Benefits, Continued

State LEDs — in a reduced space — allow maintenance personnel to quickly locate faults, reduce downtime, and improve overall productivity.

Increased Volume and Productivity

Cable interconnections for a Bulletin 1492 wiring system can be up to 30 times faster to install than traditional point-to-point wiring, enabling OEMs and panel builders using wiring systems to build panels faster and produce more machines.

Reduced Wire Preparation and Routing

Pre-wired Bulletin 1492 wiring system cables eliminate the time and costs associated with stripping and cutting wires. Routing wires is much easier with wiring systems, since engineers only have to worry about routing one pre-wired cable versus the 20 or 40 wires needed in the traditional wiring method.

Labeling and Marking

Pre-printed, PLC I/O-specific adhesive label strips for quick marking of IFM module terminals save labor compared with point-to-point wiring that requires labor-intensive wire markers. Pre-wired cables require no wire labels. Pre-printed I/O-specific labels ensure neat, easy-to-read identification of wires and I/O points for all users.

The marking of traditional terminal blocks has even caused some OEMs to move toward a high-tech approach of plotting markers, requiring additional equipment in the form of a plotter system and a PC to run the plotter software.

Simplified Design

Design engineers can simplify their panel drawings by calling out an IFM and pre-wired cable instead of having to detail every single wire and terminal block on their drawings. Simplified panel drawings aid both the installer and the end user who receives the panel.

Increased DIN Rail Density

An increasing trend in the industry is to pack more products into the same DIN Rail space. Wiring systems support this trend, as they require less DIN Rail space than traditional terminal blocks. For example, if an OEM were to use a 40-point IFM in place of 40 terminal blocks, DIN Rail space can be reduced by more than 50%.

Benefits, Continued

Increased DIN Rail Density, Continued

All IFMs have terminals for connecting the I/O field wiring. In addition, extra terminal, sensor, fusible IFMs, and relay IFMs contain common terminals that are used as power busses for sensors and actuators. No additional terminal blocks are needed to provide power to the sensors/actuators — saving valuable panel/DIN Rail space.

To further reduce panel space, narrow IFMs (e.g., Catalog Number 1492-IFM20FN) have been designed. They require 45% less space than the standard length IFMs, making them well-suited for tightly packed enclosures. The high-density narrow IFMs have two rows of 10 field-wiring terminals with an overall length of 60 mm (2.36 in.).

Quality-Looking Panels

The pre-wired cables and IFM wiring system modules organize the wiring in your panel and provide a consistent look. Pre-printed adhesive labels for the terminals neatly identify field-wiring connections, which correspond to the I/O module address. A large marking area is also available for identifying I/O information on the IFM.

Fewer Parts, Less Inventory and Lower Carrying Cost

A wiring system involves an IFM and the cable, versus the block, barrier, jumper, markers, wires, and swing arms associated with traditional hardwired systems. Therefore, it requires fewer components and, in turn, less inventory and lower carrying costs.

Design Flexibility

To develop a cost-effective system, the hardware components must meet the needs of the design engineer. Rockwell Automation provides the broadest range of digital and analog systems in the industry. Allen-Bradley Wiring Systems deliver a lower life-cycle cost.

Digital IFM Options and Features

Digital IFMs, similar to groups of terminal blocks, are available with either 20-pin (typically 8 to 16 PLC I/O points) or 40-pin (typically 16 to 32 PLC I/O points) cable connectors. The number of field-side wiring terminals varies with the type of module — from one to three terminals per I/O point. LEDs and fuse clips are available on-board the IFMs to customize your wiring system to your application and provide assistance with troubleshooting your control panel. The IFMs are compatible with both the pre-wired cables and the IFM-ready cables.

All of the digital IFMs have the following features:

cULus: Hazardous Locations: Class I Div 2 (all modules, except those with relays); Groups A, B, D, and D.

Temperature Code: T3C @ 60 °C. UL File No. E10314, Guide No. NRAG

cULus: Ordinary Locations; Module with relays; UL File No. E113724 Guide No. NRAQ

CE Compliant for all applicable directives

Refer to Specifications, page 191.

Keyed cable connector (20- or 40-pin) with locking tabs for easy installation and secure connection of IFM pre-wired and IFM-ready cables.

Standard DIN #3 Rail mounting for quick installation.

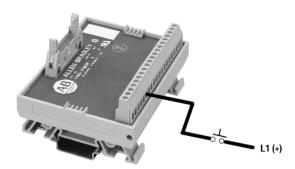
Continuous current rating of 2 A per circuit supports higher-current programmable controller output modules.

Digital IFM

Pre-printed and blank adhesive marking strips are provided to identify either Programmable Controller I/O field-side wiring terminals or your own application requirements.

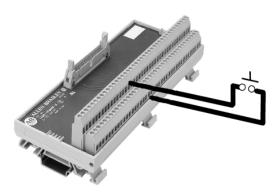
High-density field-side wiring terminals allow more connections in less space and accommodate #22...12 AWG wire.

Standard Terminal Modules



Standard terminal IFM modules provide **one field-side** wiring terminal per programmable controller input or output point, as well as enough terminals for the I/O module power connections. The standard terminal modules are ideal for applications in which the I/O device commons are terminated in the field or remotely from the I/O module panel.

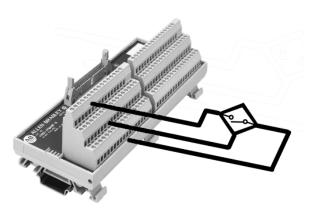
Extra Terminal Modules



Extra terminal modules provide **two** or **four** field-side terminals per input or output point. IFMs which are <u>not</u> point-to-point isolated have two terminals per input or output point. Point-to-point isolated IFMs have two or four terminals per input or output point. Non-isolated IFMs have the lower row of extra terminals commoned together in groups of 10 **1**, to serve as a power bus for the field device commons. Isolated IFMs have terminals isolated into 8 or 16 groups, which allows each group of I/O devices to reference a different power source. The extra terminal modules are beneficial in applications in which the I/O devices are terminated within the same panel as the I/O modules — eliminating the need for many additional terminal blocks. These modules are also available with optional field-side status LEDs for troubleshooting inputs and outputs.

• Except Catalog Numbers 1492-IFM20D24A-2 and -IFM20D120A-2, which are in groups of 20.

Sensor Modules



Sensor modules provide **three** field-side terminals per input point. The middle and lower rows of terminals, commoned together in groups of 18, serve as power busses for 3-wire sensor types of devices — eliminating additional terminal blocks and jumpering systems. The sensor modules provide a compact method of terminating and powering 24V AC/DC or 120V AC (Catalog Number IFM20F-3 only) 3-wire devices.

LED Modules



Voltage-indicating LEDs are available on the standard, extra terminal, and sensor IFMs. The LEDs provide field-side troubleshooting diagnostics: the on/off status of an input device or the on/off status of the programmable controller output circuit. When used in conjunction with the **logic**-side programmable controller LEDs, the IFM LEDs can help determine whether a problem resides in the I/O module or field device/wiring. The LED modules have unique circuitry that allows compatibility with sinking or sourcing input or output modules.

Fusible Modules



Fusible modules provide a convenient method of adding overcurrent protection into your programmable controller field wiring. These modules have 5 x 20 mm fuse clips on-board and are available with and without blown fuse indication. The 24V or 120V blown fuse indicators reduce the troubleshooting time to locate and replace a blown fuse on the IFM. The fusible modules have an easy-to-remove see-through acrylic 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). The fusible modules also have two or four terminals per I/O point to create a power bus for input or output load connections. Fusible modules are available in both isolated and non-isolated versions. There are a select number of fusible IFMs available for input modules.

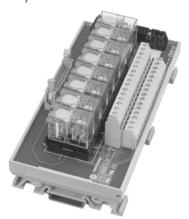
Relay and Relay Expander Modules

Relay and Relay Expander Interface Modules (XIMs) were developed to maximize the effectiveness of users' applications that require output contact ratings greater than 2 A. Driving large loads up to 10 A for applications such as motor starters is now possible with Bulletin 1492 Wiring Systems. In addition, the Relay Modules provide a means to isolate output points.

The Relay and Relay Expander product line consists of a Relay Master module and Expander Module(s) with expander cable. The 8 or 16 point Relay Master modules provide the connection for the 20- or 40-pin cable connectors for the pre-wired Bulletin 1492 cable.

Relay and Relay Expansion Modules, Continued

Relay Master



Relay Master with Fusing



Relay master XIMs feature field-replaceable relays with 120V or 24V rated coils. The field-side Form C contacts are rated 240V 10 A (de-rated to 12 A per adjacent pair on the XIM). The Form C relay output provides isolated output channels and a different voltage level from one output channel to the next. Other features include coil-side LED indicating the PLC output module status, and transient suppression on each coil. In addition, 16-point relay masters are available with or without 5 x 20 fuse holders so customers can fuse the output contacts.

Relay Expanders



Relay Expander (16) with Fusing



Relay expander XIMs feature eight field-replaceable relays with 120V or 24V rated coils. The field-side Form C contacts are rated 240V 10 A (de-rated to 12 A per adjacent pair on the XIM). The Form C relay output provides isolated output channels and a different voltage level from one output channel to the next. Other features include coil-side LED indicating the PLC output module status, and transient suppression on each coil. In addition, a relay expander can have 5 x 20 fuse holders so customers can fuse the output contacts. An expander cable is provided for connection to the mating module.

Relay and Relay Expansion Modules, Continued

Fusible Expanders



The fusible expander modules feature eight 5 x 20 mm finger-safe fuse holders, blown fuse indicators, and extra terminals for landing two wires per field-side device. They are offered with eight fuse holders for both 24V and 120V applications. An expander cable is provided for connection to the mating module. Fuses are not provided.

Feed-Through Expanders



The feed-through expander modules feature eight channels with extra terminals for landing two wires per field-side device. An expander cable is provided for connection to the mating module.

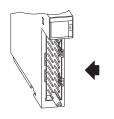
Digital IFM Modules with Field Removable Terminal Blocks (RTBs)

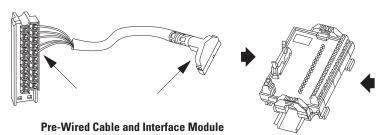
Select groups of standard, fused and relay digital Bulletin 1492 wiring system modules (refer to Selection Tables) have field terminal blocks that can be removed (RTB). This RTB feature can provide easier wiring of field devices in a control cabinet where the IFM is located in a hard to reach area, or where hand-access is limited. It can also provide easier and faster replacement of a damaged or defective Bulletin 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-RTB20**N**) or push-in style (e.g., 1492-RTB16**P**) terminals and must be ordered separately (two pieces cat. no., refer to page 17 for details). 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 Bulletin 1492 wiring system modules.



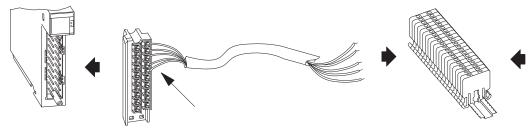
Digital Pre-Wired Cables





Bulletin 1492 pre-wired cables are designed to minimize control wiring in a panel. Pre-wired cables, when used with an 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 at the I/O end of the cable and a cable connector on the other end to connect to the IFM. All of the pre-wired cables use #22 AWG wire and are 100% tested for continuity to make a perfect connection every time. The digital 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 cable lengths are also available as build-to-order products. Pre-wired cables are available for many of the Bulletin 1756 ControlLogix, 1769 Compact I/O used with CompactLogix and MicroLogix 1500, 1794 Flex, and 1771 I/O modules. Plus availability for the base I/O of the MicroLogix 1500 and 40 I/O base of the MicroLogix 1200 packaged controllers. A select group of modules are also available for the PowerFlex 700H and 700S drives.

Ready-to-Wire Digital Cables



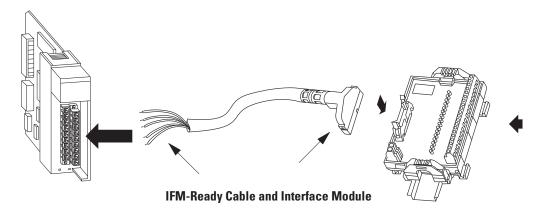
Digital I/O Module-Ready Cable and Standard Terminal Block

Digital I/O module-ready cables have an I/O removable terminal block or wiring arm pre-wired to one end to of the cable and free connectors on the other end for wiring into standard terminal blocks or other type of connectors. I/O-ready cables have individual color-coded conductors for quick wire-to-terminal coordination. Most I/O-ready cables use #18 AWG conductors for higher current applications or longer cable runs. The I/O-ready cables are offered in standard lengths of 1.0, 2.5, and 5.0 m to fit a variety of applications. Other cable lengths are also available as build-to-order products. Digital I/O

module ready cables are available for many of the Bulletin 1756 ControlLogix, 1769 Compact I/O used with CompactLogix and MicroLogix 1500, 1794 Flex, and 1771 I/O modules. Plus availability for the base I/O of the MicroLogix 1500 and 40 I/O base of the MicroLogix 1200 packaged controllers. A select group of modules are also available for the PowerFlex 700H and 700S drives.

Digital IFM Options and Features, Continued

Ready-to-Wire Digital Cables, Continued

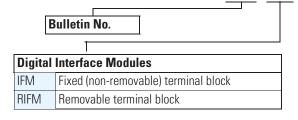


IFM-ready cables have a cable connector that attaches to the IFM pre-wired to one end and free connectors ready to wire to I/O modules or other components on the other end. IFM-ready cables use #22 AWG wire and have individual color-coded conductors for quick wire-to-terminal coordination. The digital IFM-ready cables are offered in standard lengths of 1.0, 2.5, and 5.0 m to fit a variety of applications. Other cable lengths are also available as build-to-order products.

IFM Catalog Number Explanation for Digital I/O Modules

Important: The following IFM catalog number breakdown is for explanation purposes only. It is **not** a product configurator. Not all combinations of fields are valid product catalog numbers. First, select the desired IFM using the steps in Ordering Digital and Analog Wiring Systems on page 28. Then, use this breakdown for verification and explanation only.

1492-IFM 20 F-F120-2



No. of Cable Connector Pins										
20	20 pins									
40	40 pins									

Status Ind	ication
F	No LEDs
FN	Narrow IFM
D24	24V AC/DC LEDs for input and output modules
D24N	Narrow IFM with 24V AC/DC LEDs
D24A	24V AC/DC LEDs for input modules
DS24	Isolated IFM with 24/48V AC/DC LEDs for output modules
DS24A	Isolated IFM with 24V AC/DC LEDs for input modules
D120	120V AC LEDs for input and output modules
D120N	Narrow IFM with 120V AC LEDs
D120A	120V AC LEDs for input modules
DS120	Isolated IFM with 120V AC LEDs for output modules
DS120A	Isolated IFM with 120V AC LEDs for input modules
D240	240V AC LEDs for output modules
DS240A	Isolated IFM with 240V AC LEDs for input modules
D240A	240V AC LEDs for input modules

No. of Field-Side Wiring Terminals										
Blank	One per I/O connection									
2	Two per I/O connection									
3	Three per I/O connection									
4	Four per I/O connection									

Fuses and	 Their Indicators
Blank	No fuse clips
F	5 x 20 mm fuse clips
F24	5 x 20 mm fuse clips with 24V blown fuse indicators for output modules
F24A	5 x 20 mm fuse clips with 24V blown fuse indicators for input modules
F120	5 x 20 mm fuse clips with 120V blown fuse indicators for output modules
F120A	5 x 20 mm fuse clips with 120V blown fuse indicators for input modules
F240	5 x 20 mm fuse clips with 240V blown fuse indicators for output modules
F24D-2	5 x 20 mm fuse clips with 24V blown fuse low leakage indicators for the 1756-OB16D diagnostic output module
F24AD-4	5 x 20 mm fuse clips with 24V blown fuse low leakage indicators for the 1756-IB16D diagnostic input module
FS	Isolated IFM with 5 x 20 mm fuse clips
FS24	Isolated IFM with 5 x 20 mm fuse clips with 24V blown fuse indicators for output modules
FS24A	Isolated IFM with 5 x 20 mm fuse clips with 24V blown fuse indicators for input modules
FS120	Isolated IFM with 5 x 20 mm fuse clips with 120V blown fuse indicators for output modules
FS120A	Isolated IFM with 5 x 20 mm fuse clips with 120V blown fuse indication for input modules
FS240	Isolated IFM with 5 x 20 mm fuse clips with 240V blown fuse indication for output modules

Terms for Relay Master/Expander IFMs

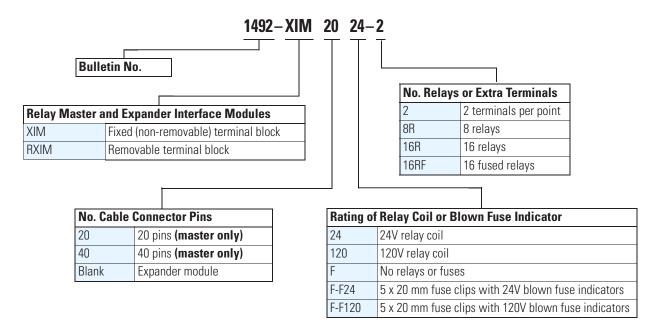
Relay master and expander XIMs are available for Bulletin 1746, 1756, 1769, and 1771 digital output modules.

Relay Master XIM — Provides 8 or 16 relay outputs for a digital output module.

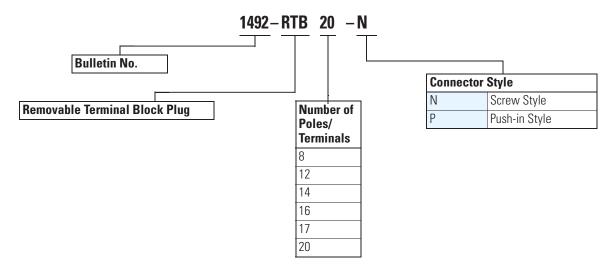
Expander XIM — In addition to the relay master XIM, an expander XIM provides eight or sixteen additional outputs. There are five types of expander XIMs: eight-channel relays, eight-channel fusing, and eight-channel feed-through XIMs.

Relay Master/Expander XIMs Catalog Number Explanation for Digital I/O Modules

Important: The following XIM catalog number breakdown is for explanation purposes only. It is **not** a product configurator. Not all combinations of fields are valid product catalog numbers First, select the desired XIM using the steps in Ordering Digital and Analog Wiring Systems on page 28. Then, use this breakdown for verification and explanation only.

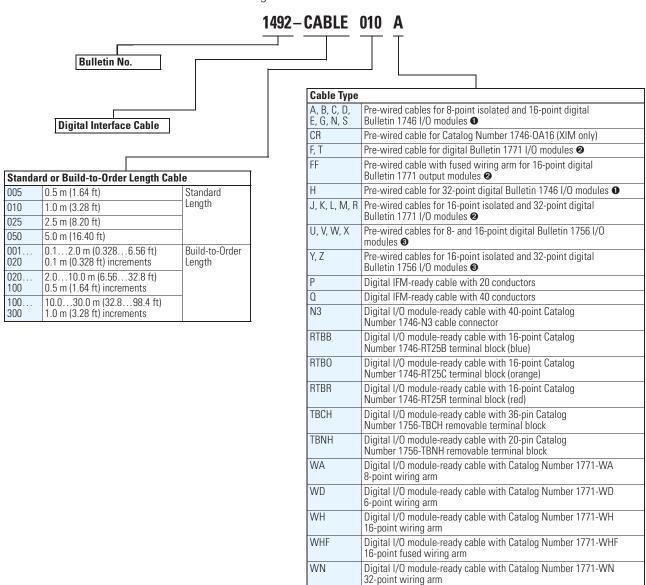


Removable Terminal Block (RTB) Plug Catalog Number Explanation



IFM and XIM Cable Catalog Number Explanation for Digital I/O Modules

Important: Use the following 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 catalog numbers. Refer to selection tables for IFM/XIM compatibility and ordering.

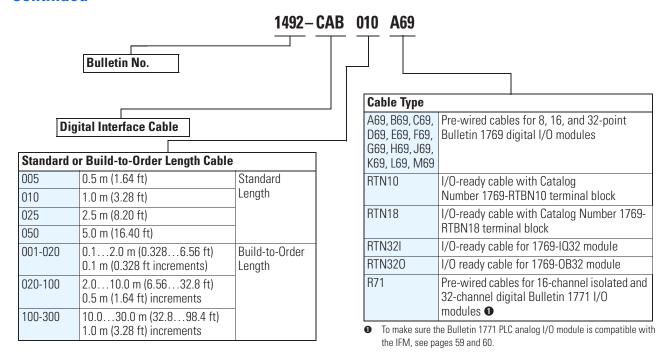


- To make sure the Bulletin 1746 SLC 500 digital I/O module is compatible with the IFM/XIM, refer to pages 29, 31, and 34.
- To make sure the Bulletin 1771 PLC digital I/O module is compatible with the IFM/XIM, refer to pages 59, 60, and 62.
- To make sure the Bulletin 1756 ControlLogix digital I/O module is compatible with the IFM/XIM, refer to pages 36, 38, and 40.

The cables used for Relay Master/Expander XIMs are the same as those used for Digital I/O Modules (page 28) with the exception of the Catalog Number 1746-OA16 output module, which uses the 1492-CABLE*CR cable.

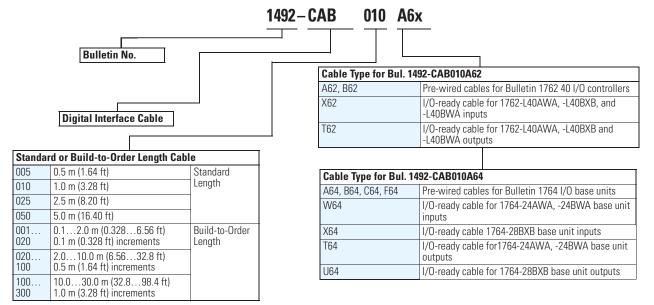
IFM and XIM Cable Catalog Number Explanation for Digital I/O Modules, Continued

Important: Use the following tables as a product configurator for pre-wired, IFM-ready, and I/O module-ready cables for Bulletins 1769 digital I/O module cables. All combinations of these fields make valid product catalog number. Refer to selection tables for IFM/XIM compatibility and ordering.



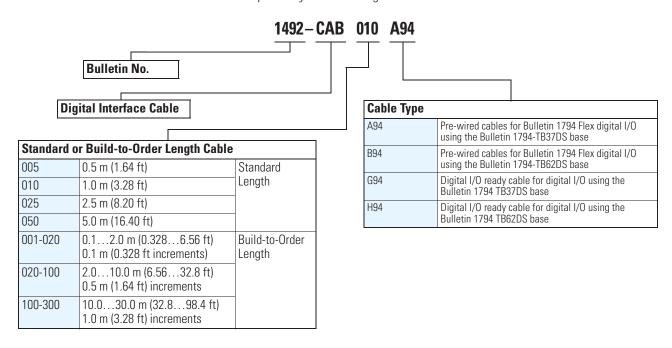
Cable Catalog Number Explanation for µ1200 and µ1500 Base I/O to IFM Modules

Important: Use the following tables as a product configurator for pre-wired, and I/O module-ready cables for Bulletin 1764 MicroLogix 1500 and 1762 MicroLogix 1200 40 I/O controller digital I/O cables. All combinations of these fields make valid product catalog numbers. Refer to selection tables for IFM compatibility and ordering.



Cable Catalog Number Explanation for 1794 Flex I/O to IFM Modules

Important: Use the following tables as a product configurator for pre-wired, and I/O module-ready cables for Bulletin 1794 Flex I/O, Cat. Nos. 1794-TB37DS, and 1794-TB62DS base units. All combinations of these fields make valid product catalog number. Refer to selection tables for IFM compatibility and ordering.



Analog IFM Options and Features

Analog IFMs (AIFMs), similar to groups of terminal blocks, are available with either 15- or 25-pin D-shell connectors. The number of field-side wiring terminals varies with the type of module — from three to five terminals per analog I/O channel. AIFMs are available as feed-through or fusible to customize the wiring system to your application.

All of the AIFMs have the following features:

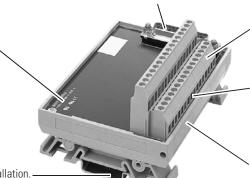
cULus: Hazardous Locations: Class I Div 2; Groups A, B, D, and D. Temperature Code: T3C @ 60 °C. UL File No. E10314, Guide No. NRAG Factory Mutual (FM): Hazardous Locations; Class I Div 2: Groups A, B, C, and D. Temperature Rating: T3C @ 60 °C. FM file J.I.3000590

CE Compliant for all applicable directives

Refer to Specifications, page 191.

Metal polarized D-shell connector (15- or 25-pin) for easy installation. Pre-wired cable has mating D-shell connector with slidelocking mechanism for secure connection. Provides the facility for continuous shield.

Pre-printed and blank adhesive marking strips are provided to identify either Programmable Controller I/O field-side wiring terminals or your own application requirements.



High-density field-side wiring terminals allow more connections in less space and accommodate #22...12 AWG wire.

Continuous current rating of 2 A per circuit supports higher-current programmable controller output modules.

Standard DIN #3 Rail mounting for quick installation.

Analog IFM

Analog Feed-Through Modules



Feed-through AIFMs have three terminals per analog I/O channel to wire the analog I/O device connections and shield. The shield terminals are internally bussed together and also tied to the D-shell housing to connect with the Bulletin 1492 cable shield and back to the PLC module. Some feed-through AIFMs also have special features (refer to page 26).

The Catalog Number 1492-AIFM4-3 AIFM, when used with Catalog Numbers 1771-OFE2 and -OFE3 analog input modules, provides selectable current limiting resistors. Simply flip a DIP switch to add the 250 Ω series impedance into the output circuit. As a troubleshooting aid, test point loops access the circuit on either side of the series resistor and can be used to

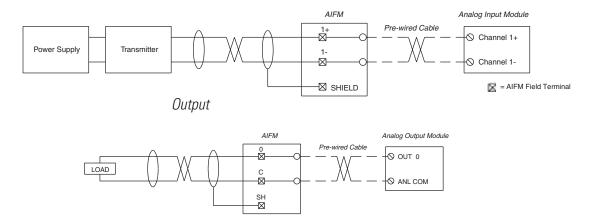
measure output circuit voltage/current. The limiting resistors are configured on a per channel basis.

The Catalog Number 1492-AIFM6TC-3 AIFM for the Cat. Nos. 1756-IT6I and 1756-IT6I2 controllers provide on- or off-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 acquires temperature data at the AIFM for the Bul. 1756 thermocouple module to adjust the input value.

The Catalog Number 1492-AIFM8-3 AIFM has eight extra terminals commoned together in a power bus that can be used for Module Common connections or power supply connections. The extra terminals and internal jumpering eliminate the need for some terminal blocks for power connections and jumper accessories.

Below are examples of the field-side connections available on the feed-through AIFMs.

4-Wire Transmitter Input



Analog Fusible Modules



Fusible AIFMs are available for analog input modules. These AIFMs enable you to fuse the **input device power source** on the field-side. The field-side power source is distributed through individual on-board 5 x 20 mm fuse clips. The fused AIFMs have 24V DC blown fuse indicators to reduce the troubleshooting time needed to locate and replace a blown fuse. The fuse holder has an integrated fuse puller to simplify fuse removal. Isolation switch

plugs or "dummy fuses" (refer to Accessories, page 184) are also available to isolate an input circuit after 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.

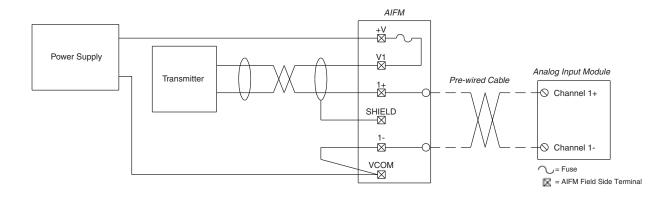
The fusible AIFMs have five terminals per input channel (except Catalog Number AIFM16-F-3, which has three terminals per channel) to wire the input-device connections, device shield, and power connections for 2-, 3-, and 4-wire transmitters. The shield terminals are internally bussed together and also tied to the D-shell housing to connect with the Bulletin 1492 cable shield and back to the PLC module. There are two separate power busses (4...16 terminals, depending on the AIFM) that can be used for +V and DC COM connections and/or device Common. The extra terminals and internal connections eliminate additional terminal blocks and jumpers — reducing spare parts inventory, saving panel space, and simplifying installation.

Several of the fusible AIFMs have on-board DIP switches to easily connect unused inputs to module common — reducing wiring on the field-side. You no longer need extra jumper wires or comb-style jumpers to properly terminate unused inputs, as recommended on many Bulletin 1746, 1756, and 1771 analog input modules. Inputs are jumpered via DIP switch on a perchannel basis.

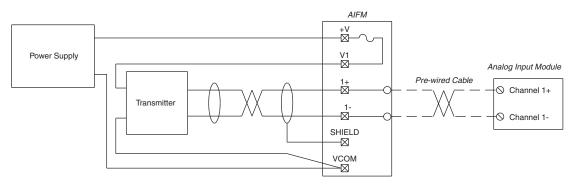
The Catalog Numbers 1492-AIFM4I-F-5 and 1492-AIFM4C-F-5 AIFMs both have test point loops on either side of the fuse clips for easier access and connection of metering equipment. Metering equipment can also be attached to the fuse clips on other AIFMs for measuring input loop current.

Below are several examples of the field-side connections for 2- and 4-wire transmitters available on the fusible AIFMs.

2-Wire Analog Input Transmitter



4-Wire Analog Input Transmitter

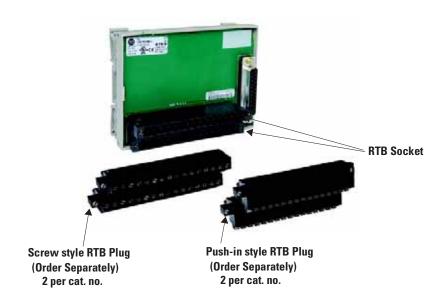


Note: Bulletin 1492 module wiring diagrams are available at www.ab.com. Refer to page 186.

Analog AIFM Modules with Field Removable Terminal Blocks (RTBs)

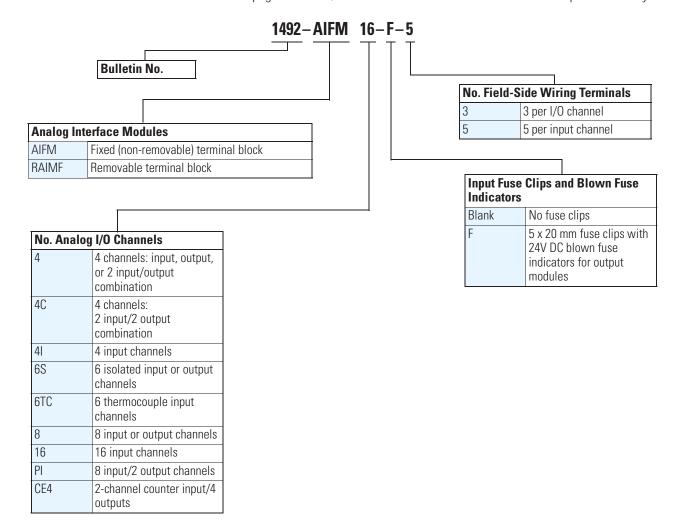
Selection Tables) have field terminal blocks that can be removed (RTB). This RTB feature can provide easier wiring of field devices in a control cabinet where the IFM is located in a hard to reach area, or where hand-access is limited. It can also provide easier and faster replacement of a damaged or defective Bulletin 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 hare shipped with the RTB socket, but without the removable plug(s). Plugs are available with screw style or push-in style terminals and must be ordered separately. 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 Bulletin 1492 wiring system modules.

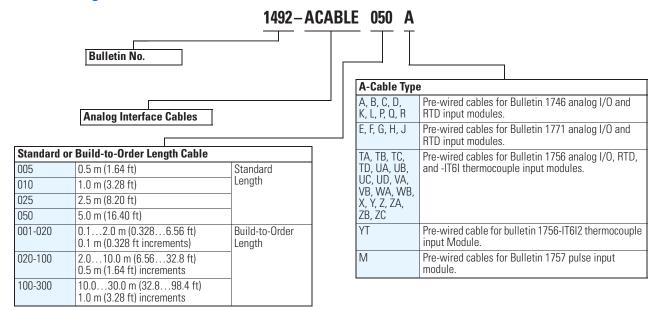


AIFM Catalog Number Explanation for Analog I/O Modules

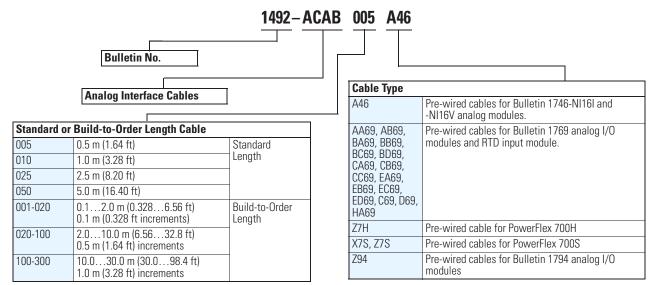
Important: The following AIFM catalog number breakdown is for explanation purposes only. It is **not** a product configurator. Not all combinations of fields are valid product catalog numbers First, select the desired AIFM using the steps in Ordering Digital and Analog Wiring Systems on page 28. Then, use this breakdown for verification and explanation only.



Pre-Wired Cable Catalog Number Explanation for Bulletins 1746, 1756, and 1771 Analog I/O Modules **Important:** The following analog cable catalog number breakdown is for explanation purposes only. It is **not** a product configurator. All combinations of fields are not valid product catalog numbers. First, select the desired AIFM using the steps in Ordering Digital and Analog Wiring Systems on page 28. Then, use this breakdown for verification and explanation only.



Pre-Wired Cable Catalog Number Explanation for Bulletin 1746, 1769, 1794, and PowerFlex Analog I/O Modules Important: The following analog cable catalog number breakdown is for explanation purposes only. It is **not** a product configurator. All combinations of fields are not valid product catalog numbers. First, select the desired AIFM using the steps in Ordering Digital and Analog Wiring Systems on page 28. Then, use this breakdown for verification and explanation only.



Ordering Digital and Analog Wiring Systems

To order the proper IFM/XIM/AIFM pre-wired cable:

- 1. Determine the PLC or PowerFlex I/O platform (e.g., Bulletin 1746, 1756, 1769, 1771, 1794, 700H,700S) you are using and the catalog number of the I/O module being specified (e.g., 1746-IB16).
- 2. Determine whether you require field-side LEDs, fusing for over-current protection, or relays (check voltage ratings for LEDs, fuse blown indication, relay, and coil voltage).
- 3. Determine your field-side wiring requirements. Are extra terminals needed?
- 4. Determine your desired PLC I/O module to IFM/XIM/AIFM cable length (0.5 m, 1.0 m, 2.5 m, 5.0 m, or build-to-order) based on wiring needs.
- 5. Refer to selection tables as follows:

Selection Table Quick Reference

Platform	Page No.
Bulletin 1746 Digital (IFM/XIM)	29
Bulletin 1746 Analog (AIFM)	35
Bulletin 1756 Digital (IFM/XIM)	36
Bulletin 1756 Analog (AIFM)	41
Bulletin 1762/1764	43
Bulletin 1769 Digital (IFM/XIM)	45
Bulletin 1769 Analog (AIFM)	52
Bulletin 1794 (IFM/XIM)	53
Bulletin 1794 (AIFM)	58
Bulletin 1771 Digital (IFM/XIM)	59
Bulletin 1771 Analog (AIFM)	63
Bulletin 700 PowerFlex	66

Ordering Digital IFM-Ready Cables for IFMs/XIMs

(Refer to page 14 for definition of IFM-ready)

For pinout and wiring information, refer to IFM-Ready Cable Specifications on page 138 and the selection table on page 65.

Ordering Digital I/O Module-Ready Cables

(Refer to page 13 for the definition of I/O module-ready cables) To order the proper digital I/O module-ready cable, the following information is required:

- Type of connector needed for the I/O module(s) (catalog number of the wiring arm or removable terminal block).
- Code for the desired cable length:
 - -010 = 1.0 m
 - -025 = 2.5 m
 - -050 = 5.0 m
 - Build-to-order length

Selection Tables

Using Bulletin 1746 Selection Tables to Make Valid Bulletin 1492 Wiring System Module Catalog Numbers

Follow these steps when using the selection tables to make valid catalog numbers:

- 1. Find the appropriate table based on the catalog numbers of the 1746 I/O module.
- 2. Find the column for the 1746 I/O module.
- 3. Follow the column down to determine which Wiring Systems Modules are compatible with the I/O module as indicated by letter code. If there is no letter code, the Bulletin 1492 Wiring System Module is not compatible with the I/O module. NOTE: The letter codes designate the compatible Bulletin 1492 cable for that 1746 I/O and Bulletin 1492 Wiring System Module combination.
- 4. Select the desired Bulletin 1492 Wiring System Module.
- 5. Configure the cable catalog number using 1492-CABLE (for digital cables) or 1492-ACABLE (for analog cables). See footnote on pages 34 and 35.

Bulletin 1746 SLC 500 IFMs and Cables

Bulletin 1746 Digital 16-Point and 8-Point Isolated I/O Modules @

Description of 20-PIN IFM							log N	lumi	er 1	746															
	System Module with Fixed Terminal Block	Module with Removable Terminal Block Socket Assembly (order plugs separately)	IA16	IB16	IC16	1G16	IH16	IM16	IN16	ITB16	ITV16	IV16	0A16	0B16	0B16E	0BP16	0616	0V16	0VP16	0W16	8X0	sc-IA8I®	sc-IB8I®	sciC8I®	sc0AP81®
Feed-through																									
Standard 264V AC/DC Max.	1492-IFM20F	1492-RIFM20F ⊘	Α	В	В	Е	В	Α	В	В	В	В	С	Е	Е	Е	Е	Е	Е	D	D	Α	В	В	Α
Narrow standard 132V AC/DC Max.	1492-IFM20FN	1492-RIFM20FN ③	А	В	В	Е	В	—	В	В	В	В	G	Е	Е	Е	Е	Е	Е	N	N	Α	В	В	Α
Extra terminals (2 per I/O) 264V AC/DC Max.	1492-IFM20F-2	1492-RIFM20F-2 ⑦	Α	В	В	Е	В	Α	В	В	В	В	С	Е	Е	Е	Е	Е	Е	D	_	_	-	_	_
3-wire sensor type input devices 132V AC/DC Max.	1492-IFM20F-3	_	Α	В	В	Ε	В	_	В	В	В	В	_	_			_	_	_	_	_	_	_	_	_
LED Indicating																									
Standard with 24V AC/DC LEDs	1492-IFM20D24	_	_	В	_	_	_	_	В	В	В	В	_	Ε	Ε	Ε	_	Ε	Е	D	_	_	_	_	_
Narrow standard with 24V AC/DC LEDs	1492-IFM20D24N	_	_	В	_	_	_	_	В	В	В	В	_	Е	E	E	_	_	_	N	_	_	_	_	

Note: Footnotes are on page 31.

Bulletin 1746 Digital 16-Point and 8-Point Isolated I/O Modules (Continued)⊚

Description of 20-PIN IFM	Cat. No. for Wiring System Module with	Cat. No. for Wiring System Module with Removable																							
	Fixed Terminal Block	Terminal Block Socket Assembly (order plugs separately)	IA16	IB16	1016	1616	IH16	IM16	IN16	ITB16	ITV16	IV16	0A16	0B16	0B16E	0BP16	0616	0116	0VP16	0W16	8X0	sc-IA8I®	sc-IB8I®	scIC8I®	sc0AP81®
Standard with 120V AC/DC LEDs	1492-IFM20D120 4	_	A	_	_	_	В	_	_	_	_	_	С	_	_	_	_	Ē	-	D	_	_	_	_	-
Narrow standard with 120V AC LEDs	1492-IFM20D120N	_	А	_	_	_	_	_	_	_	_	_	G	_	_	_	_	-	_	N	_	_	_	_	
24V AC/DC LEDs and extra terminals for outputs	1492-IFM20D24-2	_	_	_	_	-	_	_	-	_	_	_	-	Е	Е	Е	_	E	E	D	_	-	_	_	_
24V AC/DC LEDs and extra terminals for inputs	1492-IFM20D24A-2	_	_	В	_	_	_	_	В	В	В	В	_	_	_	_	_	-	_	_	-	_	_	_	
120V AC LEDs and extra terminals for outputs	1492-IFM20D120-2	_	_	_	_	_	_	_	_	-	_	_	С	_	_	_	_	-	_	D	-	_	_	_	_
120V AC LEDs and extra terminals for inputs	1492-IFM20D120A-2	_	А	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_		_	_	_	_	
3-wire sensor with 24V AC/DC LEDs	1492-IFM20D24-3	_	_	В	_	_	_	_	В	В	В	В	_	-	_	_	_	-	_		-	_	_	_	_
8 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM20DS24-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	S	_	_	_	=
8 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM20DS120-4	_	_	_	_	_		_	_	-	_	-	_	_	_	_	_		_	_	S	_	_	_	_
240V AC LEDs and extra terminals for outputs	1492-IFM20D240-2	_	_	_	_	_		_	_	_	_	_	С	_	_	_	_	-	_	D	_	_	_	_	_
240V AC LEDs and extra terminals for inputs	1492-IFM20D240A-2	_	_	_	_	_	_	Α	_	_	-	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Fusible					-	1		1							-	-	1	1		-		1	1	1	
120V AC/DC with Extra terminals for outputs	1492-IFM20F-F-2	1492-RIFM20F-F-2 ⑦	_	_	_	_	_	_	_	_	_	_	С	Е	Е	Е	_	E	Е	D	_	_	_	_	_
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24-2	1492-RIFM20F-F24-2 ⑦	_	_	_	_	_	_	_	_	_	_	_	Е	Е	Е	_	Е	E	D	_	_	_	_	-
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120-2	1492-RIFM20F-F120-2 0	_	_	_	_	_	_	_	_	_	_	С	_	_	_	_		_	D	_	_	_	_	_
Extra terminals with 240V AC/DC blown fuse LED indicators	1492-IFM20F-F240-2	_	_	_	_	_	_	_	_	_	_	_	С	_	_	_	_	-	_	D	_	_	_	_	
Extra terminals with 24V AC/DC blown fuse LED indicators for inputs	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2 ⑦	_	В	_	_	_	_	В	В	_	_	_	_	_	_	_	Е	E	_	_	_	_	_	
Extra terminals with 120V AC/DC blown fuse LED indicators for inputs	1492-IFM20F-F120A-2	1492-RIFM20F-F120A-2 ⑦	А	_	_	_	В	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	
8 Individually isolated 120V AC/DC with extra terminals for outputs	1492-IFM20F-FS-2	_	_	_	_	_		_	_	_	_	_	_		_	_	_		_	_	S	_	_	_	
8 Individually isolated with extra terminals output, and 24V AC/DC blown fuse indicators	1492-IFM20F-FS24-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	S	_	_	_	_
Two 4-point isolated groups with four terminals/input and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24A-4	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
8 Individually isolated with extra terminals output, and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-2	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	S	_	_	_	Α
8 Individually isolated with four terminals/output and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-4	_	_	_	_	_		_	_	_	_	_	_	_	_	_	-	_	_	_	S	_	_	_	
Two 4-point isolated groups with four terminals/input and 120V AC/DC blown fuse indicators	1492-IFM20F-FS120A-4	_		_		_	_	_	_	_	_	_	_	_							_	_	_	_	
8 Individually isolated with four terminals/output and 240V AC/DC blown fuse LED indicators	1492-IFM20F-FS240-4	_	_	_	-	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	S	_	_	_	A
Vote: Footnotes are o	21		1	1				<u> </u>						<u> </u>			1	1	1					<u> </u>	

Note: Footnotes are on page 31.

Publication 1492-TD008D-EN-P - January 2009

Bulletin 1746 Digital 16-Point and 8-Point Isolated I/O Modules (Continued)@

Description of 20-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring System	I/0	Mod	lule	Cata	log N	lumb	er 1	746-															_
	System Module with Fixed Terminal Block	Module with Removable Terminal Block Socket Assembly (order plugs separately)	IA16	IB16	1016	1616	IH16	IM16	IN16	ITB16	ITV16	IV16	0A16	0B16	0B16E	0BP16	0616	0V16	0VP16	0W16	0X8	sc-IA8I®	sc-IB8I®	scIC8I®	sc0AP81€
Relay Master (LED Indicati	ng) @ @																								
20-pin master with eight (8) 24V DC relays	1492-XIM2024-8R 9	_	_	_	_	_	_	_	—	—	_	_	_	Е	Е	Ε	_	_	_	_	_	_	_		_
20-pin master with eight (8) 120V AC relays	1492-XIM20120-8R ©	_	_	_	_	_	_	_	_	_	_	_	CR	_	_	-	_	_	_	_	_	_	_	_	-
20-pin master with sixteen (16) 24V DC relays	1492-XIM2024-16R	_	_	_	_	_	_	_	_	_	_	_	_	Е	Е	E	_	_	_	_	_	_	_	_	-
20-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM2024-16RF	_	_	_	_	_	_	_	_	_	_	_	_	Е	Е	Е	_	_	-	_	_	_	_	_	_
20-pin master with sixteen (16) 120V AC relays	1492-XIM20120-16R	_	_	_	_	_	_	_	_	_	_	_	CR	_	_	_	_	_	_	_	_	_	_	_	-
20-pin master with sixteen (16) 120V AC relays with fusing	1492-XIM20120-16RF	_	_	_	_	_	_	_	_	_	_	_	CR	_	_	_	_	_	_	_	_	_	_		_
Relay Expander (LED Indic	ating) 🛛 🏵	,																							
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R*	-	-	_	-	-	-	-	-	_	-	-	0	0	0	_	_	_	_	_	-	-	-	-
Expander with eight (8)120V AC relays	1492-XIM120-8R	_	_	_	_	_	_	_	_	_	_	_	0	_	_	_	_	_	_	_	_	_	—		_
Fusible Expander												•													
8-ch. expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	_	-	-	_	_	_	_	_	_	_	0	0	0	-	_	_	_	_	-	_	_	-
8-ch. expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	_	_	_	_	_	_	_	_	_	0	_	_	_	_	_	_	_	_	_	_	_	_
Feed-through Expander			•	•	•	•	•	•			•		•	•	•		•		•	•	•		•		
Expander with eight feed- through channels	1492-XIMF-2	_	_	_	_	_	_	_	_	_	_	_	0	0	0	0	_	_	_	_	_	_	_	-	Α

- Can have up to 1 expandable module depending upon master used (total 16 pts or less), extender cable is provided.

 Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-CABLE050A is for a 5.0 m cable, and the letter A. For information concerning this I/O module, contact Spectrum Controls (Phone: 425-641-9473) or at www.spectrumcontrols.com.

 This IFM is not recommended for use with PLC I/O modules that have an off-state leakage current exceeding 0.5 mA. Use a 1492-IFM20D120N or 1492-IFM20D120A-2 for inputs. Use 1492-IFM20D120-2 for outputs.

 The voltage rating is relay control/coil voltage. For relay contact ratings, refer to page 192.

 The LED indicates the PLC output status.

 Compatible Removable Terminal Rights (RTR) plug: 1492-RTR20N (screw style terminals) or 1492-RTR20P (push in style terminals). ORDER PLUGS SEPARATELY

- The EED Indicates the PLC output status.

 Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminals) or 1492-RTB20P (push-in style terminals). ORDER PLUGS SEPARATELY.

 Compatible Removable Terminal Block (RTB) plug; 1492-RTB10N (screw style terminals) or 1492-RTB10P (push-in style terminals). ORDER PLUGS SEPARATELY.

 Expandable to 16 using XIM120-8R or XIMF-24-2.

 Expandable to 16 using XIM120-8R or XIMF-24-2.

 Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.

Bulletin 1746 SLC 500 IFMs and Cables, Continued

Bulletin 1746 Digital 32-Point I/O Modules @

Description of 40-PIN IFM	Cat. No. for Wiring System Module with Fixed Terminal Block	Cat. No. for Wiring System Module with	I/O Module Catalog Number 1746									
	Fixed Terminal Block	Removable Terminal Block Socket Assembly (order plugs separately	IB32	IV32	0B32	0B32E	0V32					
Feed-through				•								
Standard 132V AC/DC Max.	1492-IFM40F	1492-RIFM40F 6	Н	Н	Н	Н	Н					
Extra terminals132V AC/DC Max.	1492-IFM40F-2	1492-RIFM40F-2 ⊙	Н	Н	Н	Н	Н					
3-wire sensor type input devices 60V AC/DC Max.	1492-IFM40F-3	_	Н	Н	_		_					
LED Indicating	1	1										
Standard with 24V AC/DC LEDs	1492-IFM40D24	1490-RIFM40D24 6	Н	Н	Н	Н	Н					
24V AC/DC LEDs and extra terminals for outputs	1492-IFM40D24-2	_	_	_	Н	Н	Н					
24V AC/DC LEDs and extra terminals for inputs	1492-IFM40D24A-2	1492-RIFM40D24A-2 6	Н	Н	_	_	_					

Note: Footnotes are on the following page.

Bulletin 1746 Digital 32-Point I/O Modules (Continued)@

Description of 40-PIN IFM	Cat. No. for Wiring System Module with Fixed Terminal Block	Cat. No. for Wiring System Module with Removable Terminal	I/O Module Catalog Number 1746									
	FIXEG TERMINAL BIOCK	Block Socket Assembly (order plugs separately	IB32	IV32	0B32	0B32E	0V32					
120V AC LEDs and extra terminals for outputs	1492-IFM40D120-2	_	<u> </u>	_	_	_	_					
120V AC LEDs and extra terminals for inputs	1492-IFM40D120A-2	_	_	_	_	_	_					
3-wire sensor with 24V AC/DC LEDs	1492-IFM40D24-3	_	Н	Н		_	_					
16 Individually isolated with 24/48V AC/DC LEDs and four terminals/output	1492-IFM40DS24-4	_	_			_						
16 Individually isolated with 24V AC/DC LEDs and four terminals/input	1492-IFM40DS24A-4	_	_		_	_	_					
16 Individually isolated with 120V AC LEDs and four terminals/output	1492-IFM40DS120-4	_	_	_	_	_	_					
16 Individually isolated with 120V AC LEDs and four terminals/input	1492-IFM40DS120A-4	_	_	_	_	_						
16 Individually isolated with 240V AC LEDs and four terminals/input	1492-IFM40DS240A-4	_	_	_	_	_	_					
Fusible	1402 [[]											
120V AC/DC with extra terminals for outputs Extra terminals with 24V AC/DC blown fuse LED	1492-IFM40F-F-2				Н	H	H					
indicators for outputs	1492-IFM40F-F24-2	1492-RIFM40F-F24-2 ⑤			Н	Н	Н					
Extra terminals with 120V AC/DC blown fuse LED indicators for outputs	1492-IFM40F-F120-2	_	_	_		_						
16 Individually isolated with extra terminals for 120V AC/DC outputs	1492-IFM40F-FS-2	_	_	_	_	_	_					
16 Individually isolated with extra terminals and 24V AC/DC blown fuse indicators	1492-IFM40F-FS24-2	_	_	_	_	_	_					
16 Individually isolated with 24V AC/DC blown fuse indicators and four terminals/output	1492-IFM40F-FS24-4	_	_	_	_	_	_					
16 Individually isolated 240V AC/DC with 4 terminals/output	1492-IFM40F-FS-4	_	_	_	_	_	_					
16 Individually isolated with extra terminals and 120V AC/DC blown fuse LED indicators	1492-IFM40F-FS120-2	1492-RIFM40F-FS120-2 6	_	_	_	_	_					
16 Individually isolated with 120V AC/DC blown fuse LED indicators and four terminals/output	1492-IFM40F-FS120-4	1492-RIFM40F-FS120-4 7	_	_	_	_	_					
16 Individually isolated with 240V AC/DC blown fuse LED indicators and four terminals/output	1492-IFM40F-FS240-4	_	_	_	_	_	_					
16 Individually isolated with 24V AC/DC blown fuse LED indicators and four terminals/input	1492-IFM40F-FS24A-4	_	_	_	_	_	_					
16 Individually isolated 120V AC/DC with 4 terminals/input	1492-IFM40F-FSA-4	_	_	_	-	_	_					
16 Individually isolated with 120V AC/DC blown fuse LED indicators and four terminals/input	1492-IFM40F-FS120A-4	1492-RIFM40F-FS120A-4 7	_	_	_	_	_					
16 Individually isolated with 240V AC/DC blown fuse LED indicators and 4 terminals/input	1492-IFM40F-FS240A-4	_	_	_	_	_	_					
Relay Master 🛛 🏵		_										
40-pin master with eight (8) 24V DC relays	1492-XIM4024-8R	_	_	_	Н	Н	_					
40-pin master with sixteen (16) 24V DC relays	1492-XIM4024-16R	1492-RXIM4024-16R 3		-	Н	Н	_					
40-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM4024-16RF	_	_	_	Н	Н						
Relay Expander (LED Indicating) 🐠		_										
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R 9	_		0	0						
Expander with sixteen (16) 24V DC relays with fusing	1492-XIM24-16RF	_	-	-	8	8	_					
Expander with eight (8) 120V AC relays	1492-XIM120-8R	_	_	_	_	_	_					
Fusible Expander (LED Indicating)	4.400 VINAE 50.4.0	_										
8-channel expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	_	0	0	_					
8-channel expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	-		_	_					
Feed through Expander	1402 VIME 2	_			_	•						
Expander with eight feed-through channels	1492-XIMF-2	_			0	0						

Note: Footnotes are on the following page.

- Can have up to two or three expandable modules depending upon master used (total 32 pts or less), extender cable is provided.
- Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: **Catalog Number 1492-CABLE050Y** is for a 5.0 m cable, and the letter Y.
- 1492-XIM24-16RF is to be used with 1492-XIM4024-16R and 1492-XIM4024-16RF 32 PT. Only.
- The voltage rating is relay control/coil voltage. For relay contact ratings, refer to page 192. The LED indicates the PLC output status.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminals) or 1492-RTB20P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB17N (screw style terminals) or 1492-RTB17P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB14N (screw style terminals) or 1492-RTB14P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.

Selection Tables, Continued

Bulletin 1746 SLC 500 IFMs and Cables, Continued

These **pre-wired cables** have a pre-wired removable terminal block (RTB) on one end to connect to the front of a Bulletin 1746 digital I/O module and a connector on the other end to plug into a 20- or 40-terminal IFM/XIM. You must first select the IFM/XIM from one of the preceding selection tables.

Pre-Wired Cables for Bulletin 1746 Digital I/O Modules

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1746 I/O Module Catalog Number
1492-CABLE ● A	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-IA16, -IM16
1492-CABLE ● B	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-IB16, -IH16, -IN16, -ITB16, -ITV16
1492-CABLE●C	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-0A16
1492-CABLE●CR	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-0A16
1492-CABLE ● D	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-0W16, -0X8
1492-CABLE ● E	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-IG16, -OB16, -OB16E, -OBP16, -OG16, -OV16, -OVP16
1492-CABLE ● G	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-0A16
1492-CABLE ● H	0.5, 1.0, 2.5, 5.0 m	Yes	40	1746-IB32, -IV32, -OB32, -OB32E, -OV32
1492-CABLEON	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-0W16, -0X8
1492-CABLEOS	0.5, 1.0, 2.5, 5.0 m	Yes	20	1746-0X8

• Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE005N is for a 0.5 m cable that could be used to connect a Catalog Number 1492-IFM20D24N IFM to a Catalog Number 1746-0W16 I/O module. Build-to-order lengths are also available.

The I/O module-ready cables have a pre-wired RTB on one end to plug onto the front of a Bulletin 1746 I/O module and 20 or 40 individually colored #18 AWG conductors on the other end. These cables provide the convenience of pre-wired connections at the I/O module end, while still allowing the flexibility to field-wire to standard terminal blocks of your choice.

I/O Module-Ready Cables for Bulletin 1746 Digital I/O Modules €

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1746 I/O Module Catalog Number
1492-CABLE 2 N3	1.0, 2.5, 5.0 m	Yes	40	1746-IB32, -IV32, -OB32, -OV32, -OB32E
1492-CABLE ⊘ RTBB	1.0, 2.5, 5.0 m	Yes	20	1746-IB16, -IC16, -IG16, -IH16, -IN16, -ITB16, -ITV16, -IV16, -OB16, -OB16E, -OBP8, -OBP16, -OG16, -OV16, -OVP16
1492-CABLE@RTBO	1.0, 2.5, 5.0 m	Yes	20	1746-0W16, -0X8
1492-CABLE@RTBR	1.0, 2.5, 5.0 m	Yes	20	1746-IA16, -OA16, -OAP12, -IM16

² Cables are available in standard lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE050RTBR is for a 5.0 m cable with a pre-wired Catalog Number 1746-RT25R RTB on one end.

Note: The following I/O Modules do not have RTBs: 1746-IA4, 1746-IA8, 1746-IB8, 1746-IM4, 1746-IM8, 1746-IV8, 1746-OA8, 1746-OB8.

Digital I/O module-ready cables should not be used with analog module as a cable shield and drain wire is not provided.

Selection Tables, Continued

Bulletin 1746 SLC 500 AIFMs and Cables

Bulletin 1746 Analog I/O Modules •

Description of AIFM	Cat. No. for Wiring	Cat. No. for Wiring System	I/O Module Catalog Number 1746															
	System Module with Fixed Terminal Block	Module with Removable Terminal Block Socket Assembly (order plugs separately	HSCE (Diff.)	HSCE2 (Diff.)	FI04I	FI04V	NI4	NI8	NI04I	NI04V	N04I	N08I	N04V	N08V	NR4	0.8	NI16I	N116V
Feed-through	'																	
4-channel input, output or 2-in/2-out combination with 3 terminals/channel	1492-AIFM4-3	1492-RAIFM4-3 ❸		_	L	L	Α	_	L	L	В	_	В	_		_	_	=
6-channel isolated with 34 terminals/channel	1492-AIFM6S-3	1492-RAIFM6S-3 ④		_	_	_	_	_	_	_	_	_			D	_	_	=
8- or 16-channel input or output with 3 terminals/channel	1492-AIFM8-3	1492-RAIFM8-3 ⑤	-	_	_	_	_	С	_	_	_	R	_	R		_	446	446
Thermocouple	1	1																_
6-channel with 3 terminals/channel	1492-AIFM6TC-3	_	-	_	_	_	_	_	_	_	_	_	_	_	_	-	-	=
High-Speed Counter/Encoder	1	1																_
2-channel center input/2 outputs	1492-AIFMCE4	_	K	Р	_	_	_	_	_	_	_	_	_	_	_	-	-	=
Fusible High Speed Counter/Encoder	1	1		1		1			1			1						
2-channel fused counter input/4 fused outputs	1492-AIFMCE4-F	_	K	Р	_	_	_	_	_	_	_	_	_	_	_	_	-	_
Fusible Analog																		_
2-channel input, 2-channel output with 24V DC blown fuse indicators, test points, 5 terminals/input, 3 terminals/output	1492-AIFM4C-F-5	_	-	_	L	L	-	-	L	L	_	_	_	_		-	_	=
4-channel input with 24V DC blown fuse indicators, test points, 5 terminals/input	1492-AIFM4I-F-5	_		_	_	—	Α	—	—	—	_	_	-	_	-	_	_	=
8-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM8-F-5	_	-	_	_	_	—	С	_	_	—	_	_	_		_	_	=
16-channel input with 24V DC blown fuse indicators, 3 terminals/channel	1492-AIFM16-F-3	_	-	_	_	—	_	—	—	_	_	_	-	_		—	446	446
16-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM16-F-5	_	-	_	_	_	_	—	_	_	_	_	_	_		_	_	_
4-input/4-output channel with 8 fuses and 24V DC blown fuse indicators	1492-AIFMQS	_	-	_	_	_	_	_	_		_	_		_	_	Q	_	_

- Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: **Catalog Number 1492-ACABLE025A** is for a 2.5 m cable, and the letter A.
- 2 Cannot be used with SLC I/O.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB8N (screw style terminals) or 1492-RTB8P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB16N (screw style terminals) or 1492-RTB16P (push-in style terminals). ORDER PLUGS SEPARATELY.

These **pre-wired cables** have a pre-wired RTB on one end to connect to the front of a Bulletin 1746 analog I/O module and a connector on the other end to plug into a 15- or 25-pin D-shell terminal AIFM. To use this table, you must first have selected an AIFM from the preceding table.

Pre-Wired Cables for Bulletin 1746 Analog I/O Modules

Cable Catalog Number	Standard Cable Lengths (m)	Build-to-Order Available	AIFM Connector	Mating 1746 I/O Module Catalog Number
1492-ACABLE●A	0.5, 1.0, 2.5, 5.0	Yes	15-pin D-shell	1746-NI4
1492-ACABLE ● B	0.5, 1.0, 2.5, 5.0	Yes	15-pin D-shell	1746-N04I, -N04V
1492-ACABLE●C	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-NI8
1492-ACABLE●D	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-NR4
1492-ACABLE ● K	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-HSCE
1492-ACABLE ● L	0.5, 1.0, 2.5, 5.0	Yes	15-pin D-shell	1746-NIO4I, -NIO4V, -FIO4I, -FIO4V
1492-ACABLE ● P	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-HSCE2
1492-ACABLE ● Q	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-QS
1492-ACABLE●R	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-N08I, N08V
1492-ACAB ● A46	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-NI16I, -NI16V

[•] To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-ACABLE005A is for a 0.5 m cable that could be used to connect a Catalog Number 1492-AIFM4I-F-5 IFM to a Catalog Number 1746-NI4 I/O module.

Selection Tables, Continued

Using Bulletin 1756 Selection Tables to Make Valid 1492 Wiring System Module Catalog Numbers

Follow these steps when using the selection tables to make valid catalog numbers.:

- 1. Find the appropriate table based on the catalog number of the 1756 I/O module.
- 2. Find the column in the selected table for the 1756 I/O module.
- 3. Follow the column down to determine which Wiring System Modules are compatible with the I/O module as indicated by letter code. If there is no letter code, the 1492 Wiring System Module is not compatible with the I/O module. NOTE: The letter codes designate the compatible 1492 cable for that 1756 I/O and 1492 Wiring System Module combination.
- 4. Select the desired 1492 Wiring System Module.
- 5. Configure the cable catalog number using 1492-CABLE (for digital cables) or 1492-ACABLE (for analog cables). See footnote on pages 40 and 42.

Bulletin 1756 ControlLogix IFMs and Cables

Bulletin 1756 Digital 8-Point and 16-Point I/O Modules @

Description of 20-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring System Module															
	System Module with Fixed Terminal Block Socket Assembly (order plugs separately		IA8D	IA16	IB16	1016	IN16	1V16	0 A8	0 A8D	0 A8E	0A16	0B8	0B16E	0.03	0N8	0V16E
Feed-through																	
Standard 264V AC/DC Max.	1492-IFM20F	1492-RIFM20F 	U	Χ	Χ	Χ	Χ	Χ	U	U	U	Χ	U	Χ	U	U	Χ
Narrow standard 132V AC/DC Max.	1492-IFM20FN	1492-RIFM20FN ⊘	U	Χ	Χ	Χ	Χ	Χ	U	U	U	Χ	U	Χ	U	U	Χ
Extra terminals (2 per I/O) 264V AC/DC Max.	1492-IFM20F-2	1492-RIFM20F-2 ⑤	U	Χ	Χ	Χ	Χ	Χ	U	U	U	Χ	U	Χ	U	\Box	Χ
3-wire sensor type input devices 132V AC/DC Max.	1492-IFM20F-3	_	_	Χ	Х	Х	Х	Х	_	_	_	_	_	_	_	_	_
LED Indicating							•	•									
Standard with 24V AC/DC LEDs	1492-IFM20D24	_	_	_	Χ	_	Χ	Χ	_	_	_	_	_	Χ	_	_	Χ
Narrow standard with 24V AC/DC LEDs	1492-IFM20D24N	_	_	_	Χ	_	Χ	Χ	_	_	_	_	_	Χ	_	_	_
Standard with 120V AC/DC LEDs	1492-IFM20D120 ③	_	U	Χ	_	_	_	_	_	_	_	_	_	-	-	_	_
Narrow standard with 120V AC LEDs	1492-IFM20D120N	_	U	Χ	_	_	_	_	_	_	_	Χ	_	-	_	_	_
24V AC/DC LEDs and extra terminals for outputs	1492-IFM20D24-2	_	_		_	_	_	_	_	_	_	_	_	Χ	_	_	Χ
24V AC/DC LEDs and extra terminals for inputs	1492-IFM20D24A-2	_	_	_	Х	_	Х	Х	_	_	_	_	_	_	_	_	_
120V AC LEDs and extra terminals for outputs	1492-IFM20D120-2	_	_	_	_	_	_	_	_	_	_	Χ		_			_
120V AC LEDs and extra terminals for inputs	1492-IFM20D120A-2	_	U	Χ	_	_	_	_	_	_	_	_	_	_	_	_	_
3-wire sensor with 24V AC/DC LEDs	1492-IFM20D24-3	_	_	-	Χ	_	Χ	Χ	_	_	_	_	_	-	-	_	_
8 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM20DS24-4	_	_	_	_	_	_	_	_	_	_	_	W	_	W	W	_
8 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM20DS120-4	_	_	_	_	_	_	_	W	V	V	_	_	_	_		_
240V AC LEDs with extra terminals for outputs	1492-IFM20D240-2	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
240V AC LEDs with extra terminals for inputs	1492-IFM20D240A-2	_	_	-	_	_	_	_	_	_	_	_	_	-	-	_	_
Fusible																	
120V AC/DC with extra terminals for outputs	1492-IFM20F-F-2	1492-RIFM20F-F-2 ⑤	_	_	_	_	_	_	_	_	_	Χ	_	Χ	_	_	Χ
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24-2	1492-RIFM20F-F24-2 ⊙	_	_	_	_	_	_	_	_	_	_	_	Χ	_	_	Χ
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120-2	1492-RIFM20F-F120-2 ⊙	_	_	_	_	_	_	_	_	_	Χ	_	_	_	_	_

Note: Footnotes are on the following page.

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Bulletin 1756 Digital 8-Point and 16-Point I/O Modules (Continued)@

Syste	Cat. No. for Wiring System Module with	Cat. No. for Wiring System Module with Removable Terminal Block	I/O	Mod	ule C	atal	og N	umbe	r 175	6							
	Fixed Terminal Block	Socket Assembly (order plugs separately	IA8D	IA16	IB16	1016	1N16	1V16	0A8	0A8D	0A8E	0A16	0B8	0B16E	800	8N0	0V16E
Extra terminals with 240V AC/DC blown fuse LED indicators	1492-IFM20F-F240-2	_	_	_	_	_	_	_	_	_	_	Х	_	_	_	_	_
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2 ⊙	-	_	Χ	_	Χ	_	_	_	_	_	_	_	_	_	_
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120A-2	1492-RIFM20F-F120A-2 6	-	Χ	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated 120V AC/DC with extra terminals for outputs	1492-IFM20F-FS-2	_	_	_	_	_	_	_	W	V	V	_	W	_	W	W	_
8 Individually isolated with extra terminals/output and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24-2	_	_	_	_	_	_	_	_	_	_	_	W	_	W	W	_
Two 4-point isolated groups with four terminals/input and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24A-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with extra terminals output, and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-2	_	_	_	_	_	_	_	W	V	V	_	_	_	_	_	_
8 Individually isolated with 4 terminals/output and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-4	_	_	_	_	_	_	_	W	V	V	_	_	_	_	_	_
Two 4-point isolated groups with four terminals/input and 120V AC/DC blown fuse indicators	1492-IFM20F-FS120A-4	_	U			_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with 4 terminals/output and 240V AC/DC blown fuse LED indicators	1492-IFM20F-FS240-4	_	-			_	_	_	W	_	_	_	_	_	_	_	_
Relay Master (LED Indicating) 🛛 🗗																	
20-pin master with eight (8) 24V DC relays	1492-XIM2024-8R ❸	_	_	_	_	_	_	_	_	_	_	_	_	Χ	_	_	_
20-pin master with eight (8) 120V AC relays	1492-XIM20120-8R 9	_	_	_	_	_	_	_	_	_	_	Χ	_	_	_	_	_
20-pin master with sixteen (16) 24V CD relays	1492-XIM2024-16R	_	_	_	_	_	_	_	_	_	_	_	_	Χ	_	_	_
20-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM2024-16RF	_	-	-	-	_	-	_	_	_	_	_	_	Χ	_	_	_
20-pin master with sixteen (16) 120V AC relays	1492-XIM20120-16R	_	-		_	_	_	_	_	_	_	Χ	_	_	_	_	_
20-pin master with sixteen (16) 120V AC relays with fusing	1492-XIM20120-16RF	_	_	I		_	_	_	_	_	_	Χ	_	_	_	_	_
Relay Expander (LED Indicating) 🛛 🗗																	
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R*	_	_	_	_	_	_	_	_	_	_	_	0	_	_	_
Expander with eight (8) 120V AC Relays	1492-XIM120-8R	_	_	_	_	_	_	_	_	_	_	0	_	_	_	_	_
Fusible Expander	•			•	•												
Expander with eight (8) 24V channels with blown fuse indicators	1492-XIMF-F24-2	_	_	_	_	_	_	_	_	_	_	_	_	0	_	_	_
Expander with eight (8) 120V channels with blown fuse indicators	1492-XIMF-F120-2	_	_	_	-	_	_	_	_	_	_	0	_	_	_	_	_
Feed-through Expander	•		•			•				•	•	•			•	•	
Expander with eight (8) feed-through channels	1492-XIMF-2	_	_	_	_	_	_	_	_	_	_	0	_	0	_	_	_

Can have up to 1 expandable module depending upon master used (total 16 pts or less) extender cable is provided. Cables are available in standard lengths of $0.5 \, \text{m} \cdot 1.0 \, \text{m}$, $2.5 \, \text{m}$, and $5.0 \, \text{m}$. To order, insert the code for the desired cable length into the catalog number $005 = 0.5 \, \text{m}$ (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-CABLE050W is for a 5.0 m cable, and the letter W.

- This IFM is not recommended for use with PLC I/O modules that have an off-state leakage current exceeding 0.5 mA. Use a 1492-IFM20D120N or 1492-IFM20D120A-2 for inputs. Use 1492-IFM20D120-2 for outputs.
- The voltage rating is relay control/coil voltage. For relay contact ratings, refer to page 192. The LED indicates the PLC output status.
- Compatible Removable Terminal Block (RTB) plug 1492-RTB20N (screw style terminals) or 1492-RTB20P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB10N (screw style terminals) or 1492-RTB10P (push-in style terminals). ORDER PLUGS SEPARATELY. 7
- Expandable to 16 using XIM24-8R or XIMF-24-2. 8
- Expandable to 16 using XIM120-8R or XIMF-24-2.

 Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.

Bulletin 1756 ControlLogix IFMs and Cables, Continued

Bulletin 1756 Digital 16-Point Isolated and 32-Point I/O Modules $oldsymbol{\varnothing}$

Description of 40-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	I/0	Мо	dule	Cat	alog	j Nu	mbe	r 17	56									_
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	IA16I	IB16D	IB16I	IA32	IB32	IV32	IH16I	IM16I	0A16I	OB8EI	0B16D	0B16I	0B16IS	0B32	0V32E	OH81	0W16I	18X0
Feed-through		(order plage coparator)				_							_		_					<u> </u>
Standard 132V AC/DC Max.	1492-IFM40F	1492-RIFM40F 3	Υ	Υ	Υ	Z	Z	Z	Υ	_	Υ	Υ	Υ	Υ	Υ	Z	Z	Υ	Υ	Υ
Extra terminals (2 per I/O) 132V AC/DC Max.	1492-IFM40F-2	1492-RIFM40F-2 3	_	Υ	_	Z	Z	Z	_	_	_	_	Υ	_	_	Z	Z	_	_	=
3-wire sensor type input devices 60V AC/DC Max.	1492-IFM40F-3	_	_	_	_		Z	Z	_	_	_	_	_	_	_	_	_	_	_	=
LED Indicating																				
Standard with 24V AC/DC LEDs	1492-IFM40D24	1492-RIFM40D24 ❸	—	—	_	_	Z	Z	_	_	_	—	_	_	_	Z	Z	_	_	_
24V AC/DC LEDs and extra	1492-IFM40D24-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	Z	Z	_	_	_
terminals for outputs 24V AC/DC LEDs and extra terminals for inputs	1492-IFM40D24A-2	1492-RIFM40D24A-2 3	_	_	_	_	Z	Z	_	_	_	_	_	_	_	_	_	_	_	=
120V AC LEDs and extra terminals	1492-IFM40D120-2	_		_		_	_	_		_		_	_		_	_	_	_		_
for outputs	1432-11 101400 120-2																			
120V AC LEDs and extra terminals for inputs	1492-IFM40D120A-2	_	_	_	-	Z	_	_	_	_	_	_	_	_	_	_	_	_	_	=
3-wire sensor with 24V AC/DC LEDs	1492-IFM40D24-3	_	_	_	_	_	Z	Z	_	_	_	_	_	_	_	_	_	_	_	=
16 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM40DS24-4	_	_	_	_	_	_	_	_	_	_	Υ	Y •	Υ	Υ	_	_	_	Υ	Υ
16 Individually isolated with 24V AC/DC LEDs and 4 terminals/input	1492-IFM40DS24A-4	_	_	Υ	Υ	_	_	_	_	_	_	_	_	_	_	_	_	_		_
16 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM40DS120-4	_		_	_	_	_	_	_	_	Υ	_	_	_	_	_	_		Υ	Υ
16 Individually isolated with 120V AC LEDs and 4 terminals/input	1492-IFM40DS120A-4	_	Υ	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
16 Individually isolated with 240V AC LEDs and 4 terminals/input	1492-IFM40DS240A-4	_	_	_	_	_	_	_	_	Υ	_	_	_	_	_	_	_	_	_	_
Fusible																				
120V AC/DC with extra terminals for outputs	1492-IFM40F-F-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	Z	Ζ	_	_	_
Extra terminals with 24V AC/DC blown fuse indicators for outputs	1492-IFM40F-F24-2	1492-RIFM40F-F24-2 3	_	_	_		_	_	_	_	_	_	_	_	_	Z	Z		_	_
16 Individually fused with 24V DC blown fuse low leakage (0.05 mA) LED circuit, 4 isolated groups, 2 terminals/output	1492-IFM40F-F24D-2	_	_	_	_	_	_	_	_	_	_	_	Y	_	_	_	_			_
Individually Fused w/24V DC blown fuse low leakage (0.05 mA) LED circuit, 4 isolated groups, 4 terminals/input	1492-IFM40F-F24AD-4	_	_	Υ	_	_	_	_	_	_	_	_	_	_	_	_	_			_
Extra terminals with 120V AC/DC blown fuse indicators for outputs	1492-IFM40F-F120-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			_
16 Individually isolated with extra terminals for 120V AC/DC outputs	1492-IFM40F-FS-2	_	_	_	_	_	_	_	_	_	Υ	Υ	Υ	>	▶	_	_	Υ	Υ	Υ
16 Individually isolated with extra terminals and 24V AC/DC blown fuse indicators for outputs	1492-IFM40F-FS24-2	_	_	_	_	_	_	_	_	_	_	Υ	0	>	>	_	_		Υ	Υ
16 Individually isolated with 24V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS24-4	_	_		_	_	_	_	_	_	_	Υ	0	×	×	_	_		Υ	Υ
16 Individually isolated 240V AC/DC with 4 terminals/output	1492-IFM40F-FS-4	_		_							Υ	Υ	Υ	>	Y	_	_		Υ	Υ
16 Individually isolated with extra terminals and 120V AC/DC blown fuse LED indicators	1492-IFM40F-FS120-2	1492-RIFM40F-FS120-2 3	_	_	_	_	_	_	_	_	Υ	_	_	_	_	_	_	Υ	Υ	Υ
16 Individually isolated with 120V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS120-4	1492-RIFM40F-FS120-4 9	_	_	_	_	_	_	_	_	Υ	_	_	_	_	_	_		Υ	Υ

Bulletin 1756 Digital 16-Point Isolated and 32-Point I/O Modules (Continued)@

Description of 40-PIN IFM	40-PIN IFM Cat. No. for Wiring System Module with Fixed Terminal Block Removable Termina	Cat. No. for Wiring	I/0	Мо	dule	Cat	aloç	j Nu	mbe	r 17	56									_
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	IA16I	IB16D	IB161	IA32	IB32	IV32	IH161	IM16I	0A16I	OB8EI	0B16D	0B16I	OB16IS	0B32	0V32E	0H8I	0W16I	18X0
16 Individually isolated with 240V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS240-4	_	_	_	_	_	_	_	_	_	Υ	_	_	_	_	_	_	_	Υ	Υ
16 Individually isolated with 24V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS24A-4	_	_	0	Υ	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
16 Individually isolated 120V AC/DC with 4 terminals/input	1492-IFM40F-FSA-4	_	Υ	Υ	Υ	_	_	_	Υ	_	_	_	_	_	_	_	-	_	_	=
16 Individually Isolated with 120V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS120A-4	1492-RIFM40F-FS120A-4 9	Υ	_	_	_	_	_	Υ	_	_	_	_	_	_	_	_	_	_	_
16 Individually isolated with 240V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS240A-4	_	_	_	_	_	_	_	_	Υ	_	_	_	_	_	_	_	_	_	_
Relay Master (LED Indicating) @																				
40-pin master with eight (8) 24V DC relays	1492-XIM4024-8R	_	_	_					_			_	_	_	_	Z	_	_	_	=
40-pin master with sixteen (16) 24V DC relays	1492-XIM4024-16R	1492-RXIM4024-16R ©	_	_	_	_	_	_	_	_	_	_	_	_	—	Z	—	—	_	=
40-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM4024-16RF	_	_	_	_	_	_	_	_	_	_	_	_	_	—	Z	—	—	_	=
Relay Expander (LED Indicating)																				
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R�	_	_	_	_	_	_	_	_	_	_	_	_	_	0	_	_	_	=
Expander with eight (8) 120V AC relays	1492-XIM120-8R	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_
Fusible Expander																				
8-channel expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	_	-	_		_	_	-	_	_	_	_	_	0	_	_	_	=
8-channel expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	_	_	_	_	_	_	_	_	_	_	_	—	_	—	—	_	_
Expander with sixteen (16) 24V DC relays with fusing	1492-XIM24-16RF	_	_	_	-	_	_	_	_	-	_	_	_	_	_	0	—	_	_	_
Feed-through Expander	•																			
Expander with eight (8) feed- through channels	1492-XIMF-2	_	_	_	_	_		_	_	_	_	_		_	_	0	_	_	_	

- Can have up to two or three expandable modules depending upon master used (total 32 pts or less), extender cable is provided.
- ② Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-CABLE050Y is for a 5.0 m cable, and the letter Y.
- One 1492-XIM24-16RF is to be used with one 1492-XIM4024-16R or 1492-XIM4024-16RF master (32 PT. Only).
- The voltage rating is relay control/coil voltage. For relay contact ratings, refer to page 192.
- The LED indicates the PLC output status.
- The 1492-IFM40F-FS24A-4 module and 1492-CABLE●Y cable can be used with the 1756-IB16D module. However, due to the 1492-IFM40F-FS24A-4 module's blown fuse leakage current rating, the "wire off" diagnostic function of the 1756-IB16D will not indicate a blown or removed fuse as a wire off condition. If you require this diagnostic to function for a blown or removed fuse, you must use a 1492-IFM40F-F24AD-4.
- The 1492-IFM40F-FS24-2 and 1492-IFM40F-FS24-4 module and 1492-CABLE@Y cable can be used with the 1756-0B16D module. However, due to the 1492-IFM40F-FS24-2 and 1492-IFM40F-FS24-4 module's blown fuse leakage current rating, the "no load" diagnostic function of the 1756-0B16D will not indicate a blown or removed fuse as a no load condition. If you require this diagnostic to function for a blown or removed fuse, you must use a 1492-IFM40F-F24D-2.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminals) or 1492-RTB20P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB17N (screw style terminals) or 1492-RTB17P (push-in style terminals). ORDER PLUGS SEPARATELY.
- © Compatible Removable Terminal Block (RTB) plug; 1492-RTB14N (screw style terminals) or 1492-RTB14P (push-in style terminals). ORDER PLUGS SEPARATELY.
- © Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.
- > Do not use this module in output sinking mode with fused IFM modules as the IFM module fuses will not properly protect the circuit.
- ♣ IFMs LED provides PLC output ON/OFF indication. Due to the magnitude of current through the LED, the 1756-0B16D PLC module "No Load" diagnostic function will not work. If this function is required, use the 1492-IFM40F-2.

Bulletin 1756 ControlLogix IFMs and Cables, Continued

These **pre-wired cables** have a pre-wired RTB on one end to connect to the front of a Bulletin 1756 digital I/O module and a connector on the other end to plug into a 20- or 40-terminal IFM/XIM. You must first select the IFM/XIM from one of the preceding selection tables.

Pre-Wired Cables for Bulletin 1756 Digital I/O Modules

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1756 I/O Module Catalog Number
1492-CABLE ● U	0.5, 1.0, 2.5, 5.0 m	Yes	20	1756-IA8D, -OA8, -OA8D, -OA8E, -OB8, -OC8, -ON8
1492-CABLE ● V	0.5, 1.0, 2.5, 5.0 m	Yes	20	1756-0A8D, -0A8E
1492-CABLE ● W	0.5, 1.0, 2.5, 5.0 m	Yes	20	1756-0A8, -0B8, -0C8, -0N8
1492-CABLE ● X	0.5, 1.0, 2.5, 5.0 m	Yes	20	1756-IA16, -IB16, -IC16, -IN16, -IV16, -OA16, -OB16E, -OV16E
1492-CABLE ● Y	0.5, 1.0, 2.5, 5.0 m	Yes	40	1756-IA16I, -IB16D, -IB16I, -IH16, -IM16I, -OA16I, -OB8EI, -OB16D, -OB16I, -OB16IS, -OH8I, -OW16I, -OX8I
1492-CABLE ● Z	0.5, 1.0, 2.5, 5.0 m	Yes	40	1756-IB32, -OB32, -IV32, -OV32E

[•] Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE005Y is for a 0.5 m cable that could be used to connect a Catalog Number 1492-IFM40F IFM to a Catalog Number 1756-IA16I I/O module.

The I/O module-ready cables have a pre-wired RTB on one end to plug onto the front of a Bulletin 1756 I/O module and 20 or 40 individually colored #18 AWG conductors on the other end. These cables provide the convenience of pre-wired connections at the I/O module end, while still allowing the flexibility to field-wire to standard terminal blocks of your choice.

I/O Module-Ready Cables for Bulletin 1756 Digital I/O Modules @

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1756 I/O Module Catalog Number
1492-CABLE ⊘ TBNH	1.0, 2.5, 5.0 m	Yes	20	1756-IA8D, -IA16, -IB16, -IC16, -IN16, -IV16, -OA8, -OA8D, -OA8E, -OA16, -OB8, -OB16E, -OC8, -ON8, -OV16E
1492-CABLE ⊘ TBCH	1.0, 2.5, 5.0 m	Yes	40	1756-IA16I, -IA32, -IB16D, -IB16I, -IB32, -IV32, -IH16I, -IM16I, -OA16I, -OB8EI, -OB16D, -OB16I, -OB16IS, -OB32, -OV32E, -OH8I, -OW16I, -OX8I

Cables are available in standard lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE050TBNH is for a 5.0 m cable with a pre-wired Catalog Number 1756-TBNH RTB on one end.

Discrete I/O ready cables should not be used with PLC analog I/O modules as cable shield and drain wires are not provided.

Bulletin 1756 ControlLogix AIFMs and Cables

Bulletin 1756 Analog I/O Module • 2

Description of AIFM	Catalog Number	Catalog Number															1/0) Mod	lule													
	for Wiring System Module with Fixed Terminal Block	for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs														(g Nun 1756	nber													Cat. No. 1757
		separately	HSC (24V Diff.)	HCS (5V Diff.)	IF4FX0F2F (Cur In & Out	IF4FX0F2F (Volt In & Out	IF4FX0F2F (Cur In & Volt Out	IF6I (Current)	IF6I (Voltage)	IFECIS	IF8 (SgI-End Volt)	IF8 (SgI-End Current)	IF8 (Diff Voltage)	IF8 (Diff Current)	IF8H (Voltage)	IF8H (Current/Hart)	IF16 (SgI-End Volt)	IF16 (SgI-End Current)	IF16 (Diff Voltage)	IF16 (Diff Current)	IRGI	ITGI	IT612	OF4 (Voltage)	OF4 (Current)	0F6CI	0F6VI	OF8 (Voltage)	OF8 (Current)	OH8H (Voltage)	OF8H (Current/Hart)	PIM
Feed-through																																Т
4-channel input, output or 2- in/2-out combination with 3 terminals/channel	1492-AIFM4-3	1492-RAIFM4-3 ❸	-	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-	_	_	_	VA	VB	_	_	_	_	_	_	-
6-channel isolated with 34 terminals/channel	1492-AIFM6S-3	1492-RAIFM6S-34	_	_	ZA	ZB	ZC	Х	Υ	Z	_	-	_	-	_	_	_	_	_	_	Z	-	-	_	-	Υ	Υ		_	_	_	1-
8- or 16-channel input or output with 3 terminals/channel	1492-AIFM8-3	1492-RAIFM8-3 ⑤	-	_	-	-	_	_	_	-	TA	TB	TC	TD	UC	UD	UA	UB	UC	UD	_	_	_	-	_	_	_	WA	WB	WA	WB	T
Thermocouple																																
6-channel with 3 terminals/channel	1492-AIFM6TC-3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	-	Υ	YT	_	_	_	_	_	_	_	_	F
High Speed Counter/Encod	er											•		•																		
2-channel counter input/4 outputs	1492-AIFMCE4	_	XA	XB	-	-	_	_	_	_	_	_	_	_	_	_	-	_	-	-	_	_	-	_	_	_	-	-	-	_	-	F
Fusible High-Speed Counte	er/Encoder																										•					
2-channel fused counter input/4 fused outputs	1492-AIFMCE4-F	_	XA	XB	_	-	_	_	_	_	_	_	_	_	_	_	-	-	-	_	-	_	_	_	_	_	_	_	_	_	_	F
Fusible Analog																		•	•													
8-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM8-F-5	_	_	_	ZA	ZB	ZC	_	_	_	TA	TB	TC	TD	UC	UD	_	_	UC	UD	_	_	_	_	_	_	_	_	_	_	_	-
16-channel input with 24V DC blown fuse indicators, 3 terminals/channel	1492-AIFM16-F-3	_	-	_	-	_	_	_	_	_	_	_	_	_	_	_	UA	UB	UC	UD	_	_	_	_	_	_	_	-	_	_	_	
16-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM16-F-5	_	-	_	-	-	_			_	_	_		_	_	_	UA	UB	UC	UD		_	_	_	_	_	_	_	_	_	_	
8 input/ 2 output channels	1492-AIFMPI	_	-	-	-	-	_	_	_	_	-	_	_	_	-	_	-	-	-	-	-	_	-	-	_	_	-	_	_	_	_	М

- Some analog I/O modules can be operated in up to four modes (current/voltage, single-ended/differential) based on connections. In all cases, each channel is factory-configured for the same mode. However, you can field configure any channel for another mode. You made need to alter the terminal block wiring to match the application.
 Refer to the PLC installation manual
- 2 Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-ACABLE025TB is for a 2.5 m cable, and the letters TB.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB8N (screw style terminals) or 1492-RTB8P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB16N (screw style terminals) or 1492-RTB16P (push-in style terminals). ORDER PLUGS SEPARATELY.

Bulletin 1756 ControlLogix AIFMs and Cables, Continued

These **pre-wired cables** have a pre-wired RTB on one end to connect to the front of a Bulletin 1756 analog I/O module and a D-shell connector on the other end to plug into a 15- or 25-pin D-shell terminal AIFM. You must first select the AIFM from the preceding selection table.

Pre-Wired Cables for 1756 Analog I/O Modules

Cable Catalog Number	Standard Cable Lengths	Build-to-Order Available	AIFM Connector	Mating 1756 I/O Module Catalog Number
1492-ACABLEOM	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1757-PIM
1492-ACABLE 1 X	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Current
1492-ACABLE 1 Y	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Voltage, -IT6I, -OF6CI, -OF6VI
1492-ACABLE 1 YT	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IT6I2
1492-ACABLE•Z	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IR6I, -IF6CIS
1492-ACABLE 1 TA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF8 Single-Ended Voltage
1492-ACABLE 1 TB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF8 Single-Ended Current
1492-ACABLE 1 TC	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF8 Diff. Voltage
1492-ACABLE 1 TD	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF8 Diff. Current
1492-ACABLEOUA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Single-Ended Voltage
1492-ACABLEOUB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Single-Ended Current
1492-ACABLEOUC	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Diff. Voltage, -IF8H (Voltage)
1492-ACABLEOUD	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Diff. Current, IF8H (Current/Hart)
1492-ACABLE 1 VA	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1756-0F4 Voltage
1492-ACABLE 1 VB	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1756-0F4 Current
1492-ACABLE 1 WA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-OF8 Voltage, -OF8H (Voltage)
1492-ACABLE 1 WB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-0F8 Current, -0F8H (Current/Hart)
1492-ACABLE•XA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-HSC (24V DC Diff.)
1492-ACABLE•XB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-HSC (5V DC Diff.)
1492-ACABLE TZA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF4FX0F2F (Cur In & Out)
1492-ACABLE TZB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF4FX0F2F (Volt In & Out)
1492-ACABLE•ZC	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF4FX0F2F (Cur In & Volt Out)

[•] Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-ACABLE005Y** is for a 0.5 m cable that could be used to connect a Catalog Number 1492-AIFM6TC-3 analog IFM to a Catalog Number 1756-IT6I I/O module.

Using Bulletin 1762/1764 Selection Tables to Make Valid 1492 Wiring System Module Catalog Numbers

Follow these steps when using the selection tables to make valid catalog numbers:

- 1. Find the appropriate table based on the catalog numbers of the 1762/1764 controller.
- 2. Find the column for the 1762/1764 I/O.
- 3. Follow the column down to determine which Wiring System Modules are compatible with the I/O as indicated by letter and number (e.g. A62) code. If there is no letter/number code, the Wiring System Module is not compatible with the I/O module. NOTE: The letter/number codes designate the compatible 1492 cable for that 1762/1764 I/O and Wiring System Module combination.
- 4. Select the desired Wiring System Module.
- Configure the cable catalog number using 1492-CAB●. See footnote on pages 43 and 44.

MicroLogix 1200 Embedded 40 I/O Controllers to IFM Selection Tables

Bulletin 1762-L40x Compatible 40-Terminal 1492-IFMs

Description of 40-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	1762 Embedded I/O Controller											
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	-L40AWA Inputs	-L40BWA Inputs	-L40BXB Inputs	-L40AWA Outputs	-L40BWA Outputs	-L40BXB Outputs						
Feed-through	1	1	l		l	l	l							
Standard 132V AC/DC Max.	1492-IFM40F ¹⁰	1492-RIFM40F ¹⁰	A62	A62	A62	B62	B62	B62						
Extra terminals 132V AC/DC Max.	1492-IFM40F-2 ¹	1492-RIFM40F-2 ⁰²	A62	A62	A62	B62	B62	B62						

[•] When using this IFM module with the base I/O of the 1762 controller, the current rating of the ouputs must be considered.

These **pre-wired cables** have a pre-wired removable terminal block (RTB) on one end to connect to the front of the Bulletin 1762 controller embedded digital I/O and a connector on the other end to plug into a 40-terminal IFM. You must first select the IFM from the preceding selection table.

Pre-Wired Cables for 1762-L40x Embedded I/O Controllers

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1762-L40x Embedded I/O Controller
1492-CAB ① A62	0.5, 1.0, 2.5, 5.0	Yes	40	-L40AWA Inputs, -L40BWA Inputs, -L40BXB Inputs
1492-CAB ① B62	0.5, 1.0, 2.5, 5.0	Yes	40	-L40AWA Outputs, -L40BWA Outputs, -L40BXB Outputs

[•] Pre-wired cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CAB005A62 is for a 0.5 m cable that could be used to connect a Catalog Number 1492-IFM40F to a Cat. No. 1762-L40AWA Input.

Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminlas) or 1492-RTB20P (push-in style terminals). ORDER PLUGS SEPARATELY.

The I/O module-ready cables have a pre-wired RTB on one end to plug onto the front of the Bulletin 1762 controller embedded I/O and 25 or 40 individually colored conductors on the other end. These cables provide the convenience of pre-wired connections at the controller embedded I/O end, while still allowing the flexibility to field-wire to standard terminal blocks of your choice.

I/O Ready Cables for 1762-L40x Embedded I/O Controllers

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors [©]	Mating 1762-L40x Embedded I/O Controller
1492-CAB 2 T62	1.0, 2.5, 5.0 m	Yes	25	-L40AWA Outputs, -L40BWA Outputs, -L40BXB Outputs
1492-CAB 2 X62	1.0, 2.5, 5.0 m	Yes	40	-L40AWA Inputs, -L40BWA Inputs, -L40BXB Inputs

l/O ready cables are available in standard lengths or 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m) Example: Catalog Number 1492-CABLE050RTBR is for a 5.0 m cable with a pre-wired Catalog Number 1746-RT25R RTB on one end.

MicroLogix 1500 Base Unit I/O to IFM Selection Tables

Bulletin 1764, Base Units I/O and Compatible 20-Terminal 1492-IFMs

Description of 20-PIN IFM	Catalog Number for	Catalog Number for Wiring System Module	1764 B	ase Un	it I/O			
	Wiring System Module with Fixed Terminal Block		AWA Inputs	BWA Inputs	BXB Inputs	AWA Outputs	BWA Outputs	BXB Outputs
Feed-through								-
Standard 264Vac/dc Max.	1492-IFM20F ¹⁰	1492-RIFM20F ⁰	A64	A64	B64	C64	C64	F64
Narrow standard 132Vac/dc Max.	1492-IFM20FN ¹⁰	1492-RIFM20FN [●]	A64	A64	B64	C64	C64	F64
With Extra terminals (2 per I/O) 264Vac/dc Max.	1492-IFM20F-2 ⁰	1492-RIFM20F02 ¹⁰	A64	A64	B64	C64	C64	F64

- When using this IFM module with the base I/O of the 1762 controller, the current rating of the ouputs must be considered. Refer to appendix A
- Compatible Removablae Terminal Block (RTB) 1492-RTB20N (screw style terminal) or 1492-RTB20P (push-in style terminal, available March 2006). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB10N (screw style terminals) or 1492-RTB10P (push-in style terminals, available March 2006. ORDER PLUGS SEPARATELY.

These **pre-wired cables** have a pre-wired removable terminal block (RTB) on one end to connect to the front of the Bulletin 1764 base unit digital I/O and a connector on the other end to plug into a 20-terminal IFM. You must first select the IFM from the preceding selection table.

Pre-Wired Cables for 1764 Base I/O

I/O Ready Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1764 Base Unit I/O
1492-CAB [●] A64	0.5, 1.0, 2.5, 5.0	Yes	20	AWA Inputs, BWA Inputs
1492-CAB [®] B64	0.5, 1.0, 2.5, 5.0	Yes	20	BXB Inputs
1492-CAB ¹ C64	0.5, 1.0, 2.5, 5.0	Yes	20	AWA Outputs, BWA Outputs
1492-CAB ① F64	0.5, 1.0, 2.5, 5.0	Yes	20	BXB Output

[•] Pre-wired cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CAB005A64 is for a 0.5 m cable that could be used to connect a Catalog Number 1492-IFM20F to a Cat. No. 1764-AWA Input.

¹⁴⁹²⁻CABOT62 uses 18AWG wire and 1492-CABOX62 uses 22AWG wire.

The I/O module-ready cables have a pre-wired RTB on one end to plug onto the front of the Bulletin 1764 base unit I/O and 20 individually colored conductors on the other end. These cables provide the convenience of pre-wired connections at the base unit I/O end, while still allowing the flexibility to field-wire to standard terminal blocks of your choice.

I/O Ready Cables for 1764 Base I/O

	Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1764 Base Unit I/O
	1492-CAB 2 T64	1.0, 2.5, 5.0 m	Yes	20 ®	AWA Outputs, BWA Outputs
	1492-CAB 2 U64	1.0, 2.5, 5.0 m	Yes	20 [©]	BXB Outputs
٠	1492-CAB 2 W64	1.0, 2.5, 5.0	Yes	20 ®	AWA Inputs, BWA Inputs
	1492-CAB 2 X64	1.0, 2.5, 5.0	Yes	20 4	BXB Inputs

V/O ready cables are available in standard lengths or 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m) Example: Catalog Number 1492-CABLE050RTBR is for a 5.0 m cable with a pre-wired Catalog Number 1746-RT25R RTB on one end.

- Uses #18 AWG wire.
- Uses #22 AWG wire.

Using Bulletin 1769 Selection Tables to Make Valid 1492 Wiring System Module Catalog Numbers

Follow these steps when using the selection tables to make valid catalog numbers:

- 1. Find the appropriate table based on the catalog number of the 1769 I/O module.
- 2. Find the column in the selected table for the 1769 I/O module.
- 3. Follow the column down to determine which Wiring System Modules are compatible with the I/O module as indicated by letter code. If there is no letter code, the Wiring System Module is not compatible with the I/O module. NOTE: The letter codes designate the compatible 1492 cable for that 1769 I/O and Wiring System Module combination.
- 4. Select the desired Wiring System Module.
- Configure the cable catalog number using 1492-CAB

 (for digital cables) or 1492-ACAB
 (for analog cables). See footnote
 on pages 50 and 53.

Bulletin 1769 Compact I/O for CompactLogix and MicroLogix 1500 IFMs and Cables

Bulletin 1769 Digital 8 and 16-Point I/O Modules €

Description of 20-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	I/O Module Catalog Number 1769												
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	IA8I	IA16	1016	1016F	IM12	0A8	0A16	0B8	0B16	0V16	0W8	0W8I	0W16
Feed-through															
Standard 264V AC/DC Max.	1492-IFM20F	1492-RIFM20F ⊘	F69	A69	B69	B69	G69	C69	M69	L69	E69	E69	C69	D69	M69
Narrow standard 132V AC/DC Max.	1492-IFM20FN	1492-RIFM20FN ❸	F69	A69	B69	B69	_	C69	M69	L69	E69	E69	C69		M69
Extra terminals (2 per I/O) 264V AC/DC Max.	1492-IFM20F-2	1492-RIFM20F-2 ⑦	_	A69	B69	B69	G69	C69	M69	L69	E69	E69	C69		M69
3-wire sensor type input devices 132V AC/DC Max.	1492-IFM20F-3	_	_	A69	B69	B69	_	_	_		_	_	_	_	_

Note: Footnotes are on the following page.

Bulletin 1769 Digital 8 and 16-Point I/O Modules (Continued)⊕

Description of 20-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	I/O N	lodule	Catalo	g Numl	ber 176	9							
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	IA8I	IA16	1016	10.16F	IM12	0A8	0A16	0B8	0B16	0V16	8M0	0W8I	0W16
LED Indicating				1	ı.	1	1		u .	u .	1	1	u .		
Standard with 24V AC/DC LEDs	1492-IFM20D24	_	_	_	B69	B69	_	_	_	_	E69	E69	_	_	M69
Narrow standard with 24V AC/DC LEDs	1492-IFM20D24N	_	_	_	B69	B69	_	_	_	_	E69	_	_	_	H69
Standard with 120V AC/DC LEDs	1492-IFM20D120 4	_	_	A69	_	_	_	_	M69	_	_	_	_	_	M69
Narrow standard with 120V AC LEDs	1492-IFM20D120N	_	_	A69	_	_	_	_	H69	_	_	_	_	_	H69
24V AC/DC LEDs and extra terminals for outputs	1492-IFM20D24-2	_	_	_	_	_	_	_	_	_	E69	E69	_	_	M69
24V AC/DC LEDs and extra terminals for inputs	1492-IFM20D24A-2	_	_	_	B69	B69	_	_	_	_	_	_	_	_	_
120V AC LEDs and extra terminals for outputs	1492-IFM20D120-2	_	_	_	_	_	_	_	M69	_	_	_	_	_	M69
120V AC LEDs and extra terminals for inputs	1492-IFM20D120A-2	_	_	A69	_	_	_	_	_	_	_	_	_	_	_
3-wire sensor with 24V AC/DC LEDs	1492-IFM20D24-3	_	_	_	B69	B69	_	_	_	_	_	_	_	_	_
8 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM20DS24-4	_	_	_	_	_	_	_	_	_	_	_	C69	D69	_
8 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM20DS120-4	_	_	_	_	_	_	C69	_	_	_	_	C69	D69	_
240V AC LEDs and extra terminals for outputs	1492-IFM20D240-2	_	_	_	_	_	_	_	M69	_	_	_	_	_	M69
240V AC LEDs and extra terminals for inputs	1492-IFM20D240A-2	_	_	_	_	_	G69	_	_	_	_	_	_	_	_
Fusible															
120V AC/DC with extra terminals for outputs	1492-IFM20F-F-2	14792-RIFM20F-F-2 ⑦	_	_	_	_	_	_	M69	_	E69	E69	_	_	M69
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24-2	1492-IFM20F-F24-2 ⑦	_	_	_	_	_	_	_	_	E69	E69	_	_	M69
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120-2	1492-RIFM20F-F120-2 ⑦	_	_	_	_	_	_	M69	_	_	_	_	_	M69
Extra terminals with 240V AC/DC blown fuse LED indicators	1492-IFM20F-F240-2	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2 	_	_	B69	B69 ●	_	_	_	_	_	E69	_	_	_
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120A-2	1492-RIFM20F-F120A02 	_	A69	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated 120V AC/DC with extra terminals for outputs	1492-IFM20F-FS-2	_	_	_	_	_	_	C69	_	_	_	_	C69	D69	_
8 Individually isolated with extra terminals output, and 24V AC/DC blown fuse indicators	1492-IFM20F-FS24-2	_	_	_	_	_	_	_	_	_	_	_	C69	D69	_
Two 4-point isolated groups with four terminals/input and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24A-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with extra terminals output, and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-2	_	_	_	_	_	_	C69	_	_	_	_	C69	D69	_
8 Individually isolated with four terminals/output and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-4	_	_	_	_	_	-	C69	_	_	_	_	C69	D69	_
Two 4-point isolated groups with four terminals/input and 120V AC/DC blown fuse indicators	1492-IFM20F-FS120A-4	_	_	_	_	_	-	-	_	_	_	_	_	_	_
8 Individually isolated with four terminals/output and 240V AC/DC blown fuse LED indicators	1492-IFM20F-FS240-4	_	_	_	_	-	-	-	_	_	_	_	_	D69	_
Relay Master (LED Indicating) @@	II.			1							1	1			
20-pin master with eight (8) 24V DC relays	1492-XIM2024-8R 9	_	_	_	_	_	_	_	_	_	E69	_	_	_	_
20-pin master with eight (8) 120V AC relays	1492-XIM20120-8R ⊕	_	_	_	_	_	_	_	H69	_	_	_	_	_	_
20-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM2024-16R	_	_	_	_	_	_	_	_	_	E69	_	_	_	_
20-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM2024-16RF	_	-	-	-	-	_	_	_	_	E69	-	_	_	_
20-pin master with sixteen (16) 120V AC relays	1492-XIM20120-16R	_	_	-	_	_	_	_	H69	_	-	-	_	_	_
20-pin master with sixteen (16) 120V AC relays with fusing	1492-XIM20120-16RF	_	_	-	_	_	_	_	H69	_	_	_	_	_	_

Bulletin 1769 Digital 8 and 16-Point I/O Modules (Continued) €

Description of 20-PIN IFM	Cat. No. for Wiring System Module with	Cat. No. for Wiring System Module with	I/O Module Catalog Number 1769					9							
	Fixed Terminal Block	Removable Terminal Block Socket Assembly (order plugs separately	IA8I	IA16	1016	1016F	IM12	0A8	0A16	0B8	0B16	0V16	8M0	0W8I	0W16
LED Indicating				1	ı.	1	1	1	1	ı.		ı	ı.		
Standard with 24V AC/DC LEDs	1492-IFM20D24	_	_	_	B69	B69	_	_	_	_	E69	E69	_	_	M69
Narrow standard with 24V AC/DC LEDs	1492-IFM20D24N	_	_	_	B69	B69	_	_	_	_	E69	_	_	_	H69
Standard with 120V AC/DC LEDs	1492-IFM20D120 4	_	_	A69	_	_	_	_	M69	_	_	_	_	_	M69
Narrow standard with 120V AC LEDs	1492-IFM20D120N	_	_	A69	_	_	_	_	H69	_	_	_	_	_	H69
24V AC/DC LEDs and extra terminals for outputs	1492-IFM20D24-2	_	_	_	_	_	_	_	_	_	E69	E69	_	_	M69
24V AC/DC LEDs and extra terminals for inputs	1492-IFM20D24A-2	_	_	_	B69	B69	_	_	_	_	_	_	_		_
120V AC LEDs and extra terminals for outputs	1492-IFM20D120-2	_	_	_	_	_	_	_	M69	_	_	_	_	_	M69
120V AC LEDs and extra terminals for inputs	1492-IFM20D120A-2	_	_	A69	_	_	_	_	_	_	_	_	_	_	_
3-wire sensor with 24V AC/DC LEDs	1492-IFM20D24-3	_	_	_	B69	B69	_	_	_	_	_	_	_	_	_
8 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM20DS24-4	_	_	_	_	_	_	_	_	_	_	_	C69	D69	_
8 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM20DS120-4	_	_	_	_	_	_	C69	_	_	_	_	C69	D69	_
240V AC LEDs and extra terminals for outputs	1492-IFM20D240-2	_	_	_	_	_	_	_	M69	_	_	_	_	_	M69
240V AC LEDs and extra terminals for inputs	1492-IFM20D240A-2	_	_	_	_	_	G69	_	_	_	_	_	_	_	_
Fusible															
120V AC/DC with extra terminals for outputs	1492-IFM20F-F-2	14792-RIFM20F-F-2 ⑦	_	_	_	_	_	_	M69	_	E69	E69	_	_	M69
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24-2	1492-IFM20F-F24-2 ⑦	_	_	_	_	_	_	_	_	E69	E69	_	_	M69
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120-2	1492-RIFM20F-F120-2 ⑦	_	_	_	_	_	_	M69	_	_	_	_	_	M69
Extra terminals with 240V AC/DC blown fuse LED indicators	1492-IFM20F-F240-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2 ⑦	_	_	B69	B69	_	_	_	_	_	E69	_	_	_
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120A-2	1492-RIFM20F-F120A02 ⑦	_	A69	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated 120V AC/DC with extra terminals for outputs	1492-IFM20F-FS-2	_	_	_	_	_	_	C69	_	_	_	_	C69	D69	_
8 Individually isolated with extra terminals output, and 24V AC/DC blown fuse indicators	1492-IFM20F-FS24-2	_	_	_	_	_	_	_	_	_	_	_	C69	D69	_
Two 4-point isolated groups with four terminals/input and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24A-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with extra terminals output, and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-2	_	_	_	_	_	_	C69	_	_	_	_	C69	D69	_
8 Individually isolated with four terminals/output and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-4	_	_	_	_	_	_	C69	_	_	_	_	C69	D69	_
Two 4-point isolated groups with four terminals/input and 120V AC/DC blown fuse indicators	1492-IFM20F-FS120A-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with four terminals/output and 240V AC/DC blown fuse LED indicators	1492-IFM20F-FS240-4	_	_	_	_	_	_	_	_	_	_	_	_	D69	_
Relay Master (LED Indicating) 🛛 🗗															
20-pin master with eight (8) 24V DC relays	1492-XIM2024-8R ●	_	_	_	_	_	_	_	_	_	E69	_	_	_	_
20-pin master with eight (8) 120V AC relays	1492-XIM20120-8R ®	_	_	_	_	_	_	_	H69	_	_	_	_		_
20-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM2024-16R	_	_	_	_	_	_	_	_	_	E69	_	_	_	_
20-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM2024-16RF	_	_	_	_	_	_	_	_	_	E69	_	_	_	_
20-pin master with sixteen (16) 120V AC relays	1492-XIM20120-16R	_		_	_	_	_	_	H69	_	_	_	_	_	_
20-pin master with sixteen (16) 120V AC relays with fusing	1492-XIM20120-16RF	_	_	_	_				H69	_		_	_	_	_

Note: Footnotes are on the following page.

Bulletin 1769 Digital 8 and 16-Point I/O Modules (Continued)€

Description of 20-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	I/0 M	lodule	Catalo	g Numb	er 1769	9							
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	IA8I	IA16	1016	1016F	IM12	0A8	0A16	0B8	0B16	0V16	0W8	0W8I	0W16
Relay Expander (LED Indicating) @G	3														
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R*	_	_	_	_	_	_	_	_	0	_	_	_	_
Expander with eight (8) 120V AC relays	1492-XIM120-8R	_	_	_	_	_	_	_	_	_	_	_	_		_
Fusible Expander		_	_	_	_	_	_	_	_	_	_	_	_		_
8-channel expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	_	_	_	_	_	_	_	0	_	_		_
8-channel expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	_	_	_	_	_	0	_	_	_	_		_
Feed-through Expander															
Expander with eight (8) feed-through channels 132V AC/DC max.	1492-XIMF-2	_	_	_	_	_	_	_	0	0	0	_	_	_	_

- In the input module's sink mode only.
- One expander module is connected to a master to provide a total of 16 outputs. An extender cable is included with each expander to connect it to the master.
- Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-CABLE050A is for a 5.0 m cable, and the letter A.
- This IFM is not recommended for use with PLC I/O modules that have an off-state leakage current exceeding 0.5 mA. Use a 1492-IFM20D120N or 1492-IFM20D120A-2 for inputs. Use 1492-IFM20D120-2 for outputs.
- The voltage rating is relay control/coil voltage. For relay contact ratings, refer to page 192. The LED indicates the PLC output status.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminals) or 1492-RTB20P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB10N (screw style terminals) or 1492-RTB10P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Expandable to 16 using XIM24-8R or XIMF-24-2.
- Expandable to 16 using XIM120-8R or XIMF-24-2. Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.

Bulletin 1769 Compact I/O for CompactLogix and MicroLogix 1500 IFMs and Cables, Continued

Bulletin 1769 Digital 32-Point I/O Modules •

Description of 40-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	I/O Mo	odule Ca	talog Nu	Number 1769	
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	1032	IQ32T	0B32	0B32T	0V32T
Feed-through				1			
Standard 132V AC/DC Max.	1492-IFM40F	1492-RIFM40F 	J69	Н	K69	Н	Н
Extra terminals (2 per I/O) 132V AC/DC Max.	1492-IFM40F-2	1492-RIFM40F-2 6	J69	Н	K69	Н	Н
3-wire sensor type input devices 60V AC/DC Max.	1492-IFM40F-3	_	J69	Н	_	_	_
LED Indicating				-			
Standard with 24V AC/DC LEDs	1492-IFM40D24	1492-RIFM40D24 6	J69	Н	K69	Н	Н
24V AC/DC LEDs and extra terminals for outputs	1492-IFM40D24-2	_		_	K69	Н	Н
24V AC/DC LEDs and extra terminals for inputs	1492-IFM40D24A-2	1492-RIFM40D24A-2 6	J69	Н		_	
120V AC LEDs and extra terminals for outputs	1492-IFM40D120-2	_	_	_	_	_	
120V AC LEDs and extra terminals for inputs	1492-IFM40D120A-2	_	_	_		_	_
3-wire sensor with 24V AC/DC LEDs	1492-IFM40D24-3		J69	Н		_	_
16 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM40DS24-4	_	_	_	_	_	_
16 Individually isolated with 24V AC/DC LEDs and 4 terminals/input	1492-IFM40DS24A-4	_	_	_	_	_	_
16 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM40DS120-4	_	_	_	_	_	
16 Individually isolated with 120V AC LEDs and 4 terminals/input	1492-IFM40DS120A-4	_	_	_	_	_	
16 Individually isolated with 240V AC LEDs and 4 terminals/input	1492-IFM40DS240A-4	_	_	_	_	_	
Fusible					<u> </u>		
120V AC/DC with extra terminals for outputs	1492-IFM40F-F-2	_		_	K69	Н	Н
Extra terminals with 24V AC/DC blown fuse indicators for outputs	1492-IFM40F-F24-2	1492-RIFM40F-F24-2 ⊙	_		K69	Н	Н
Extra terminals with 120V AC/DC blown fuse indicators	1492-IFM40F-F120-2	_	_			_	
16 Individually isolated with extra terminals for 120V AC/DC outputs	1492-IFM40F-FS-2	_	_	_	_	_	_
16 Individually isolated with extra terminals and 24V AC/DC blown fuse indicators	1492-IFM40F-FS24-2	_	_	_	_	_	_
16 Individually isolated with 24V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS24-4	_	_		_	_	_
16 Individually isolated 240V AC/DC with 4 terminals/output	1492-IFM40F-FS-4	_	_		_	_	
16 Individually isolated with extra terminals and 120V blown fuse indicators	1492-IFM40F-FS120-2	1492-RIFM40F-FS120-2 6	_			_	
16 Individually isolated with 120V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS120-4	1492-RIFM-FS120-4 7	_			_	
16 Individually isolated with 240V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS240-4	_	_		_	_	
16 Individually isolated with 24V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS24A-4	_	_	_	_	_	_
16 Individually isolated 120V AC/DC with 4 terminals/input	1492-IFM40F-FSA-4	_	_	_	_	_	_
16 Individually isolated with 120V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS120A-4	1492-RIFM40F-FS120A- 4 ②	_	_	_	_	_
16 Individually isolated with 240V AC/DC blown fuse indicator and 4 terminals/input	1492-IFM40F-FS240A-4	_	_	_	_	_	_
Relay Master (LED Indicating) 🐠			1	1			
40-pin master with eight (8) 24V DC relays	1492-XIM4024-8R	_		_	K69	Н	_
40-pin master with sixteen (16) 24V DC relays	1492-XIM4024-16R	1492-RXIM4024-16R ❸	_	l —	K69	Н	_

Note: Footnotes are on the following page.

Bulletin 1769 Digital 32-Point I/O Modules (Continued)

Description of 40-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	I/O Module Catalog Number 1769									
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	1032	IQ32T	0B32	0B32T	0V32T					
40-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM4024-16RF	_	_	_	K69	Н	_					
Relay Expander (LED Indicating) 🐠	1		1									
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R 9	_	_	0	9	_					
Expander with eight (8) 120V AC relays	1492-XIM120-8R	_	_	_	_	_						
Fusible Expander	1		1									
8-channel expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	_	0	2						
8-channel expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	_	_	_	_					
Expander with sixteen (16) 24V DC relays with fusing	1492-XIM24-16RF	_	_	_	8	0	_					
Feed-through Expander	!	+		-								
Expander with eight (8) feed-through channels	1492-XIMF-2	_	_	_	0	9	_					

- Cables are available in standard lengths of 0.5, 1.0, 2.5, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: **Catalog Number 1492-CABLE050A** is for a 5.0 m cable, and the letter A.
- 2 Can have 2 or 3 expander modules depending on master used (32 pts. or less). Extender cable is provided.
- One 1492-XIM24-16RF is to be used with one 1492-XIM4024-16R or 1492-XIM4024-16RF master (32 pts. max.).
- 4 The voltage rating is relay control/coil voltage. For relay contact ratings, refer to page 192.
- The LED indicates the PLC output status.
- © Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminals) or 1492-RTB20P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB17N (screw style terminals) or 1492-RTB17P (push-in style terminals). ORDER PLUGS SEPARATELY.
- © Compatible Removable Terminal Block (RTB) plug; 1492-RTB14N (screw style terminals) or 1492-RTB14P (push-in style terminals). ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.

Bulletin 1769 Compact I/O for CompactLogix and MicroLogix 1500 IFMs and Cables, Continued

These **pre-wired cables** have a pre-wired RTB on one end to connect to the front of a Bulletin 1769 digital I/O module and a connector on the other end to plug into a 20- or 40-terminal IFM/XIM. You must first select the IFM/XIM from the preceding selection table.

Pre-Wired Cables for Bulletin 1769 Digital I/O Modules

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1769 I/O Module Catalog Number
1492-CAB ① A69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-IA16
1492-CAB ① B69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-ΙΩ16
1492-CAB ① C69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-OA8, -OW8
1492-CAB ① D69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-0W8I
1492-CAB ① E69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-0B16, -0V16
1492-CAB ① F69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-IA8I
1492-CAB ① G69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-IM12
1492-CAB ① H69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-OA16, -OW16 (IFM modules with single common)
1492-CAB ① J69	0.5, 1.0, 2.5, 5.0 m	Yes	40	1769-IQ32
1492-CAB ● K69	0.5, 1.0, 2.5, 5.0 m	Yes	40	1769-0B32

Pre-Wired Cables for Bulletin 1769 Digital I/O Modules (Continued)

	Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1769 I/O Module Catalog Number
Ī	1492-CAB ● L69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-0B8
Ī	1492-CAB ● M69	0.5, 1.0, 2.5, 5.0 m	Yes	20	1769-0A16, -0W16 (IFM modules with multiple commons)
Ī	1492-CABLE ● H	0.5, 1.0, 2.5, 5.0 m	Yes	40	1769-IQ32T, -OB32T, -OV32T

• Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CAB005E69 is for a 0.5 m cable that can be used to connect a Catalog Number 1492-IFM20D24N IFM to a Catalog Number 1769-0B16 I/O module.

The I/O module-ready cables have a pre-wired RTB on one end to plug onto the front of a Bulletin 1769 I/O module and 20 individually colored #18 AWG conductors on the other end. These cables provide the convenience of pre-wired connections at the I/O module end, while still allowing the flexibility to field-wire to standard terminal blocks of your choice.

I/O Module-Ready Cables for Bulletin 1769 Digital I/O Modules @

Cable Catalog Number	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1769 I/O Module Catalog Number
1492-CAB 3 RTN10	1.0, 2.5, 5.0 m	Yes	12	1769-0A8, -0W8
1492-CAB ③ RTN18	1.0, 2.5, 5.0 m	Yes	20	1769-IA8I, -IA16, -IQ16, -IQ16F, -OA16, -OB16, -OV16, -OW16, -OW8I, -IM12, -OB8
1492-CAB 3 RTN32I	1.0, 2.5, 5.0 m	Yes	40 🛭	1769-IQ32
1492-CAB@RTN320	1.0, 2.5, 5.0 m	Yes	40 🛭	1769-0B32
1492-CABLE ③ N3	1.0, 2.5, 5.0 m	Yes	40 \mathbf 2	1769-IQ32T, -OB32T, -OV32T

- 2 1492-CAB3 RTN32I and 1492-CAB3 RTN320 cables use 22 AWG wire.
- Solution Cables are available in standard lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CAB050RTN10 is for a 5.0 m cable with a wired Catalog Number 1746-RTBN10 on one end.
- Discrete I/O ready cables should not be used with PLC analog I/O modules as a cable shield and drain wires are not provided.

Bulletin 1769 Compact I/O for CompactLogix and MicroLogix 1500 AIFMs and Cables

IFMs for Bulletin 1769 Analog I/O Modules®

Description of AIFM Catalog Number for Catalog Number for I/O Module Catalog Number 1769																			
	Wiring System Module with Fixed Terminal Block	Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately	HSC (Differential)	IF4 (Single-Ended Voltage)	IF8 (Single-Ended Voltage)	IF4 (Single-Ended Current)	IF8 (Single-Ended Current)	IF4 (Differential Voltage)	IF8 (Differential Voltage)	IF4 (Differential Current)	IF8 (Differential Current)	IF4XOF2 or IF4FXOF2F (Cur In & Out)	IF4X0F2 or IF4FX0F2F (Volt in & Out)	IF4XOF2 or IF4FXOF2F (Cur In & Volt Out)	IR6	OF2 (Voltage)	0F8V (Voltage)	0F2 (Current)	OF8C (Current)
Feed-through																			
4-channel input, output or 2-in/2- out combination with 3 terminals/channel		1492-RAIFM4-3 ❷	_	BA69	_	BB69	_	BC69	_	BD69	_	_	_	_	_	AA69	_	AB69	_
6-channel isolated with 34 terminals/channel	1492-AIFM6S-3	1492-RAIFM6S-3 ❸	_	_	_	_	_		_	_		CA69	CB69	CC69	C69		_		_
8- or 16-channel input or output with 3 terminals/channel	1492-AIFM8-3	1492-RAIFM8-3 4	_	_	EA69	_	EB69	_	EC69	_	ED69	_	_	_	_	_	D69	_	D69
Thermocouple																			
6-channel with 3 terminals/channel	1492-AIFM6TC-3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
High-Speed Counter/Encoder																			
2-channel counter input/4 outputs	1492-AIFMCE4	_	HA69	_	_	_	_	_	_	_		_	_	_	_		_	_	_
Fusible High-Speed Counter/E					•	•			•					•	•				
2-channel fused counter input/4 fused outputs	1492-AIFMCE4-F	_	HA69	_	_	_	_	_	_	_	_	_	_	_	_		_		_
Fusible Analog																			
4-channel with 24V DC blown fuse indicators, test points, 5 terminals/input 3 terminals/output	1492-AIFM4I-F-5	_	_	BA69	_	BB69	_	BC69	_	BD69		_	_	_	_		_	_	_
2-channel input, 2-channel output with 24V DC blown fuse indicators, test points, 5 terminals/input, 3 terminals/output	1492-AIFM4C-F-5	_	_	_	_	_		_	_	_		_	_	_				_	
8-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM8-F-5	_	_	_	EA69	_	EB69	_	EC69	_	ED69	CA69	CB69	CC69	_	_	_	_	_
16-channel input with 24V DC blown fuse indicators, 3 terminals/channel	1492-AIFM16-F-3	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_
16-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM16-F-5	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
4-input/4-output channel with 8 fuses and 24V DC blown fuse indicators	1492-AIFMQS	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

[•] Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: **Catalog Number 1492-ACAB025BA69** is for a 2.5 m cable, and the letters BA.

Compatible Removable Terminal Block (RTB) plug; 1492-RTB8N (screw style terminals) or 1492-RTB8P. ORDER PLUGS SEPARATELY.

[•] Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P. ORDER PLUGS SEPARATELY.

Compatible Removable Terminal Block (RTB) plug. 1492-RTB16N (screw style terminals) or 1492-RTB16P. ORDER PLUGS SEPARATELY.

These **pre-wired cables** have a pre-wired RTB on one end to connect to the front of a Bulletin 1769 analog I/O module and a connector on the other end to plug into a 15- or 25-pin D-shell terminal AIFM. You must first select the AIFM from the preceding selection table.

Pre-Wired Cables for Bulletin 1769 Analog I/O Modules

Cable Catalog Number	Standard Cable Lengths	Build-to-Order Available	AIFM Connector	Mating 1769 I/O Module Catalog Number
1492-ACAB•AA69	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1769-0F2 Voltage
1492-ACAB ● AB69	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1769-OF2 Current
1492-ACAB ● BA69	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1769-IF4 Single-Ended Voltage
1492-ACAB	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1769-IF4 Single-Ended Current
1492-ACAB ● BC69	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1769-IF4 Differential Voltage
1492-ACAB ● BD69	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1769-IF4 Differential Current
1492-ACAB ● C69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-IR6 Resist. Temperature Detector
1492-ACAB ● CA69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-IF4XOF2 or -IF4FXOF2F (Cur In & Out)
1492-ACAB ● CB69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-IF4XOF2 or -IF4FXOF2F (Volt In & Out)
1492-ACAB ● CC69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-IF4XOF2 or -IF4FXOF2F (Cur In & Volt Out)
1492-ACAB ● D69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-0F8C, 1769-0F8V
1492-ACAB ● EA69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-IF8 Single-Ended Voltage
1492-ACAB ● EB69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-IF8 Single-Ended Current
1492-ACAB ● EC69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-IF8 Differential Voltage
1492-ACAB ● ED69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-IF8 Differential Current
1492-ACAB ● HA69	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1769-HSC Counter/Encoder (Differential)

[•] Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-ACAB005 is for a 0.5 m cable.

Selection Tables

Using Bulletin 1794 Selection Tables to Make Valid 1492 Wiring System Module Catalog Numbers

Follow these steps when using the selection tables to make valid catalog numbers:

Note: I/O modules must use Flex D-shell base cat. nos. 1794-TB37DS or 1794-TB62DS.

- 1. Find the appropriate table based on the catalog numbers of the 1794 I/O module.
- 2. Find the column for the 1794 I/O module.
- 3. Follow the column down to determine which Wiring Systems Modules are compatible with the I/O module as indicated by letter code. If there is no letter code, the 1492 Wiring System Module is not compatible with the I/O module. NOTE: The letter codes designate the compatible 1492 cable for that 1794 I/O and 1492 Wiring System Module combination.
- **4.** Select the desired 1492 Wiring System Module.
- 5. Configure the cable catalog number using 1492-CAB❶ (for digital cables) or 1492-ACAB❶ (for analog cables). See footnote ❶ on page 57.

Note: Footnotes are on the following page.

Pre-Wired Cable and IFMs for Bulletin 1794 Digital 8-Point and 16-Point I/O Modules €

Description of 20-PIN IFM and Flex	Cat. No. for Wiring System Module with	dule with Removable Terminal Block Socket Assembly (order plugs separately Plugs F 1492-RIFM20F 1492-F	Cat. No. for	Flex	Digital	I/O Mo	dule -	– Uses	D-She	ell Bas	e 1794	TB37D	S	
Distributed I/O	Fixed Terminal Block	Removable Terminal Block Socket Assembly (order plugs	Compatible Screw Style (N) and Push-in Style (P) RTB Plugs •	IB16	IB8	IB10X0B6	IV16	0B16	0B16P	088	0B8EP	0V16	0V16P	0W8
Feed-through														
Standard 264V AC/DC Max.	1492-IFM20F	1492-RIFM20F	1492-RTB20 ☉	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94
Narrow standard 132V AC/DC Max.	1492-IFM20FN	1492-RIFM20FN	1492-RTB10 ☉	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94
Extra terminals (2 per I/O) 264V AC/DC Max.	1492-IFM20F-2	1492-RIFM20F-2	1492-RTB20 ❖	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94	A94
3-wire sensor type input devices 132V AC/DC Max.	1492-IFM20F-3	_	_	A94	A94	_	A94	_	_	_	_		_	_
LED Indicating														
Standard with 24V AC/DC LEDs	1492-IFM20D24	_	_	_	_	_	_	A94	A94	A94	A94	A94	A94	_
Narrow standard with 24V AC/DC LEDs	1492-IFM20D24N	_	_	A94	A94	_	_	A94	A94	A94	A94	_	_	_
Standard with 120V AC/DC LEDs	1492-IFM20D120	_	_	_	_	_	_	_	_	_	_	_	_	_
Narrow standard with 120V AC LEDs	1492-IFM20D120N	_	_	_	_		_	_	_	_	_	_	_	_
24V AC/DC LEDs and extra terminals for outputs	1492-IFM20D24-2	_	_	_	_	_	_	A94	A94	A94	A94	A94	A94	_
24V AC/DC LEDs and extra terminals for inputs	1492-IFM20D24A-2	_	_	A94	A94	_	A94	_	_	_	_	_	_	_
120V AC LEDs and extra terminals for outputs	1492-IFM20D120-2	_	_	_	_	_	_	_	_	_	_	_	_	_
120V AC LEDs and extra terminals for inputs	1492-IFM20D120A-2	_	_	_	_	_	_	_	_	_	_	-	_	_
3-wire sensor with 24V AC/DC LEDs	1492-IFM20D24-3	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM20DS24-4	_	_	_	_	_	_	_	_	_	_	_	-	A94
8 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM20DS120-4	_	_	-	_	_	_	_	_	_	_	_	_	A94
240V AC LEDs and extra terminals for outputs	1492-IFM20D240-2	_	_	-	_	_	_	_	_	_	_	_	_	_
240V AC LEDs and extra terminals for inputs	1492-IFM20D240A-2	_	_	_	_	_	_	_	_	_	_	_	_	_
Fusible														
120V AC/DC with extra terminals for outputs	1492-IFM20F-F-2	1492-RIFM20F-F-2	1492-RTB20 ❖	_	_	_	_	A94	A94	A94	A94	A94	A94	_
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24-2	1492-RIFM20F-F24-2	1492-RTB20 ❖	_	_	_	_	A94	A94	A94	A94	A94	A94	_
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120-2	1492-RIFM20F-F120-2	1492-RTB20 ❖	_	_	_	_	_	_	_	_	_	_	_
Extra terminals with 240V AC/DC blown fuse LED indicators	1492-IFM20F-F240-2	_				_				_				_
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2	1492-RTB20 ❖	A94	A94	_	_	_	_	_	_	_	_	_
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120A-2	1492-RIFM20F-F120A-2	1492-RTB20 ❖	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated 120V AC/DC with extra terminals for outputs	1492-IFM20F-FS-2	_	_	_	_	_	_	_	_	_	_	_	_	A94
8 Individually isolated with extra terminals and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24-2	_	_	_	_	_	_	_	_	_	_	_	_	A94
Two 4-point isolated groups with four terminals/input and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24A-4	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with extra terminals output, and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-2	_	_			_				_			_	A94
8 Individually isolated with four terminals/output and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-4	_	_		_	_	_	_	_	_	_	_	_	_
Two 4-point isolated groups with four terminals/input and 120V AC/DC blown fuse indicators	1492-IFM20F-FS120A-4	_	_	_		_	_		_	_			_	_
8 Individually isolated with 4 terminals/output and 240V AC/DC blown fuse indicators	1492-IFM20F-FS240-4	_	_	_	_	_	_	_	_	_	_	_	_	_

Note: Footnotes are on the following page.

Pre-Wired Cable and IFMs for Bulletin 1794 Digital 8-Point and 16-Point I/O Modules ⊕ (Continued)

Description of 20-PIN IFM and Flex	Cat. No. for Wiring	Cat. No. for Wiring	Cat. No. for	Flex I	Digital	I/O Mo	dule –	– Uses	D-She	II Bas	e 1794-	TB37D	S	
Distributed I/O	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	Compatible Screw Style (N) and Push-in Style (P) RTB Plugs ①	IB16	1B8	IB10X0B6	IV16	0B16	0B16P	088	0B8EP	0V16	0V16P	0W8
Relay Master (LED Indicating) ூூ														
20-pin master with eight (8) 24V DC relays	1492-XIM2024-8R	_	_	_	_	_	_	A94	A94	A94	_	_	_	_
20-pin master with eight (8) 120V AC relays	1492-XIM20120-8R	_	_	_	_	_	_	_	_	_	_	_	_	_
20-pin master with sixteen (16) 120V AC relays	1492-XIM20120-16R	_	_	_	_	_	_	_	_	_	_	_	_	_
20-pin master with sixteen (16) 120V AC relays with fusing	1492-XIM20120-16RF	_	_	_	_	_	_	_	_	_	_	_	_	_
20-pin master relay with sixteen (16) 24V DC relays	1492-XIM2024-16R	_	_	_	_	_	_	A94	A94	_	_	_	_	_
20-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM2024-16RF	_	_	_	_	_	_	A94	A94	_	_	_	_	_
Relay Expander (LED Indicating) ⊕⊙														
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R	1492-RTB12 ❖	_	_	_	_	0	0	_	_	_	_	_
Expander with eight (8) 120V AC relays	1492-XIM120-8R	_	_	_	_	_	_	_	_	_	_	_	_	_
Fusible Expander														
8-channel expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	_	_	_	_	0	0	_	_	_	_	_
8-channel expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	_	_	_		_	_	_	_	_	_	_
Feed-through Expander														
Expander with eight (8) feed-through channels	1492-XIMF-2	_	_	_	_	_	_	0	0	_	_	_	_	_

Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the on 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. The number (i.e, 20) in the cat. no. indicates the number of connections/pole.

The voltage rating is relay control/coil voltage. For Relay Contact Ratings, refer to page 192. The LED indicates the PLC output status.

Pre-Wired Cables and IFMs for Bulletin 1794 Digital 16-Point Isolated and 32-Point I/O Modules ⊚

Description of 40-PIN IFM	Cat. No. for Wiring System Module with	Cat. No. for Wiring System Module with	Cat. No. for Compatible Screw Style (N) and		tal I/O Mod 4-TB62DS.	lule — Uses 	D-Shell
	Fixed Terminal Block	Removable Terminal Block Socket Assembly (order plugs separately)	Push-in Style (P) RTB Plug ⁽³⁾	IB16D	IB16X0B16P	IB32	0B32P
Feed-through							
Standard 132V AC/DC Max.	1492-IFM40F	1492-RIFM40F	1492-RTB20 ⊘	B94	B94	B94	B94
Extra terminals (2 per I/O) 132V AC/DC Max.	1492-IFM40F-2	1492-RIFM40F-2	1492-RTB20 ❖	B94	B94	B94	B94
3-wire sensor type input devices 60V AC/DC Max.	1492-IFM40F-3	_	_	_	_	_	_
LED Indicating							
Standard with 24V AC/DC LEDs	1492-IFM40D24	1492-RIFM40D24	1492-RTB20 ⊘	_	_	B94	B94
24V AC/DC LEDs and extra terminals for outputs	1492-IFM40D24-2	_	_	_	_	_	B94
24V AC/DC LEDs and extra terminals for inputs	1492-IFM40D24A-2	1492-RIFM40D24A-2	1492-RTB20 ❖	_	_	_	_
120V AC LEDs and extra terminals for outputs	1492-IFM40D120-2	_	_	_	_	_	_
120V AC LEDs and extra terminals for inputs	1492-IFM40D120A-2	_	_	_	_	_	_
3-wire sensor with 24V AC/DC LEDs	1492-IFM40D24-3	_	_	_	_	_	_
16 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM40DS24-4	_	_	_	_	_	_
16 Individually isolated with 24V AC/DC LEDs and 4 terminals/input	1492-IFM40DS24A-4	_	_	_	_	_	_
16 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM40DS120-4	_	_	_	_	_	_
16 Individually isolated with 120V AC LEDs and 4 terminals/input	1492-IFM40DS120A-4	_	_	_	_	_	_

connections/poile.
Can have up to one relay expansion module depending upon relay master used (total 16 points or less). Extender cable is provided.
Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m
(010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-CAB010A94 is for a 1.0 m cable, and the suffix A94.
This IFM is not recommended for use with PLC I/O modules that have an off-state leakage current exceeding 0.5 mA. Use a 1492-IFM20D120N or 1492-IFM20D120A-2 for inputs. Use 1492-IFM20D120-2 for outputs.

Pre-Wired Cables and IFMs for Bulletin 1794 Digital 16-Point Isolated and 32-Point I/O Modules (Continued)⊕

Description of 40-PIN IFM	Cat. No. for Wiring System Module with Fixed Terminal Block	Cat. No. for Wiring System Module with Removable Terminal	Cat. No. for Compatible Screw Style (N) and Push-in Style (P) RTB	Flex Digi Base 179	tal I/O Mod 4-TB62DS.	lule — Uses 	D-Shell
	rixeu Terminal Block	Block Socket Assembly (order plugs separately)	Plug ®	IB16D	IB16X0B16P	IB32	0B32P
16 Individually isolated with 240V AC LEDs and 4 terminals/input	1492-IFM40DS240A-4	_	_	_	_	_	_
Fusible							
120V AC/DC with extra terminals for outputs	1492-IFM40F-F-2	_	_	_	_	_	B94
Extra terminals with 24V AC/DC blown fuse indicators for outputs	1492-IFM40F-F24-2	1492-RIFM40F-F24-2	1492-RTB20 ⊙	_	_	_	B94
Extra terminals with 120V AC/DC blown fuse indicators for outputs $$	1492-IFM40F-F120-2	_	_	_	_	_	_
16 Individually isolated with extra terminals for 120V AC DC outputs	1492-IFM40F-FS-2	_	_	_	_	_	_
Individually isolated with extra terminals and 24V AC/DC blown fuse indicators for outputs	1492-IFM40F-FS24-2	_	_	_	_	_	_
16 Individually isolated with 24V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS24-4	_	_	_	_	_	_
16 Individually isolated 240V AC/DC with 4 terminals/output	1492-IFM40F-FS-4	_	_	_	_	_	_
16 Individually isolated with extra terminals and 120V AC/DC blown fuse indicators for outputs	1492-IFM40F-FS120-2	1492-RIFM40F-FS120-2	1492-RTB20 ⊙	_	_	_	_
16 Individually isolated with 120V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS120-4	1492-RIFM40F-FS120-4	1492-RTB17 ⊙	_	_	_	_
16 Individually isolated with 240V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS240-4	_	_	_	_	_	_
16 Individually isolated with 24V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS24A-4	_	_	_	_	_	_
16 Individually isolated with 120V AC/DC 4 terminals/input	1492-IFM40F-FSA-4	_	_	_	_	_	_
16 Individually isolated with 120V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS120A-4	1492-RIFM40F-FS120A-4	1492-RTB17 ⊙	_	_	_	_
16 Individually isolated with 240 VAC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS240A-4	_	_	_	_	_	_
Relay Master (LED Indicating) 🐠							
40-pin master with eight (8) 24V DC relays	1492-XIM4024-8R	_	_	_	_	_	B94
40-pin master with sixteen (16) 24V DC relays	1492-XIM4024-16R	1492-RXIM4024-16R	1492-RTB14 ⊙	_	_	_	B94
40-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM4024-16RF	_	_	_	_	_	B94
Relay Expander (LED Indicating) 🐠							
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R	1492-RTB12 ۞	_	_	_	0
Expander with eight (8) 120V AC relays	1492-XIM120-8R	_	_	_	_	_	_
Fusible Expander							
8-channel expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	_	_	_	0
8-channel expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	_	_	_	_
Expander with sixteen (16) 24V DC relays with fusing	1492-XIM24-16RF	_	_	_	_	_	0
Feed through Expander	1	1		1	1	1	1
Expander with eight (8) feed-through channels	1492-XIMF-2	_	_	_	_	_	0

- Two or three expanders are connected to a master to provide a total of 32 outputs max (depends on PLC module). An extender cable is included with each expander to connect it to the master.
- One 1492-XIM24-16RF is to be used with one 1492-XIM4024-16R AND 1492-XIM4024-16RF master (32 PT. only).
- Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-CAB010A94 is for a 1.0 m cable, and the suffix A94
- The voltage rating is relay control/coil voltage. For Relay Contact Ratings, refer to page 192.
- The LED indicates the PLC output status.
- 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. The number (i.e, 20) in the cat. no. indicates the number of connections/pole.

Bulletin 1794 Pre-wired Cables

These **pre-wired cables** have a 37- or 62-pin D-shell connector on one end to mate with the Flex base (Cat. No. 1492-TB37DS or -TB62DS) and a 20- or 40-pin AMP connector at the other end to mate with the IFM/XIM module. You must first select the IFM/XIM from one of the preceding selection tables.

Pre-Wired Cables for Bulletin 1794 Flex Digital I/O Modules Using Flex Base 1794-TB37DS or -TB62DS

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Uses Flex Base	Mating 1794 I/O Modules Catalog Number
1492-CAB ● A94	0.5, 1.0, 2.5, 5.0 m	Yes	20	1794-TB37DS	1794-IB16, -IB8, -IV16, -OB16, -OB16P, - OB8, -OB8EP, -OV16, -OV16P,-OW8, -IB10XOB8
1492-CAB ● B94	0.5, 1.0, 2.5, 5.0 m	Yes	40	1794-TB62DS	1794-IB16D, -IB32, -OB32P, -IB16XOB16P

[•] Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CAB050A94 is for a 5.0 m cable that could be used to connect a Catalog Number 1492-IFM40F IFM to a Catalog Number 1794-IB16 I/O module.

The I/O module-ready cables have a 37- or 62-pin D-shell connector on one end to mate with the Cat. No. 1794-TB37DS or 1794-TB62DS Flex I/O base and 20 or 40 individually colored #22 AWG conductors (flying leads) at the other end. These cables provide the convenience of pre-wired connectors at the I/O module end, while allowing the flexibility to field-wire to standard terminal blocks of your choice.

I/O Module-Ready Cables for 1794 Flex Digital I/O modules Using Flex Base 1794-TB37DS or -TB62DS

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Uses Flex Base	Mating 1794 I/O Modules Catalog Number
1492-CAB ● G94	1.0, 2.5, 5.0 m	Yes	20	1794-TB37DS	1794-IB16, -IB8, -IV16, -OB16, -OB16P, -OB8, - OB8EP, -OV16, -OV16P,-OW8, -IB10XOB8
1492-CAB 1 H94	1.0, 2.5, 5.0 m	Yes	40	1794-TB62DS	1794-IB16D, -IB32, -OB32P, -IB16XOB16P

[•] Cables are available in standard lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CAB050G94 is for a 5.0 m cable.

Pre-Wired Cable, Analog, and Specialty IFMs for Bulletin 1794 Analog I/O Modules

Description of AIFM	Cat. No. for Wiring System Module with Fixed Terminal Block	Cat. No. for Wiring System Module with Removable Terminal Block Socket	Cat. No. for Compatible Screw Style (N) and Push- in Style (P) RTB Plug ❸			Catalo 4 O			
	FIXEU TEHIIIIIAI DIUCK	Assembly (order plugs separately	in Style (P) KIB Plug 🕹	IE4X0E2	IE8	IF2X0F2I	IF4I	0E4	0F4I
Feed-through	1		1						
4-channel input, output or 2 in/2 out combination with 3 terminal/channel	1492-AIFM4-3	1492-RAIFM4-3	1492-RTB8 ◆	_	_	_	_	_	_
6-channel isolated with 34 terminals/channel	1492-AIFM6S-3	1492-RAIFM6S-3	1492-RTB12 ◆	-	_	_	_	_	_
8-channel differential 16-channel single-ended with 3 terminals/channel	1492-AIFM8-3	1492-RAIFM8-3	1492-RTB16 ◆	Z94	Z94	Z94	Z94	Z94	Z94
Thermocouple									
6-channel with 3 terminals/channel 2	1492-AIFM6TC-3	_	_	_	_	_	_	_	_
Fusible									
4-channel with 24V DC blown fuse indicators, test points, 5 terminals/input	1492-AIFM4I-F-5	_	_	_	_	_	_	_	_
2-channel with 24V DC blown fuse indicators, test points, 5 terminals/input, 3 terminals/output	1492-AIFM4C-F-5	_	_	_	_	_	_	_	_
8-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM8-F-5	_	_	Z94	Z94	Z94	Z94	_	_
16-channel input with 24V DC blown fuse indicators, 3 terminals/channel	1492-AIFM16-F-3	_	_	_	_	_	_	_	_
16-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM16-F-5	_	_	-	_	_	_	_	_
4-input/4-output channel with 8 fuses and 24V blown fuse indicators	1492-AIFMMQS	_	_	_	_	_	_	_	_

These pre-wired cables have a wiring arm on one end to connect to the front of a Bulletin 1794 analog I/O module and a connector on the other end to plug into a 15- or 25-pin D-shell terminal AIFM. You must first select the AIFM from the preceding selection table

Pre-Wired Cables for 1794 Flex Analog I/O modules Using Flex Base 1794-TB37DS or -TB62DS

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Uses Flex Base	Mating 1794 I/O Modules Catalog Number
1492-ACAB•Z94	0.5, 1.0, 2.5, 5.0 m	Yes	20	1794-TB37DS	1794-IE8, -IF4I, -OE4, -IE4XOE2, -IF2XOF2I

Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-ACAB050Z94** is for a 5.0 m cable, and the suffix Z94.

Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: **Catalog Number 1492-ACAB010294** is for a 1.0 m cable, and the suffix Z94. Cannot be used with 1794 I/O. Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the continue in the catalog number of catalog number of catalog number is plug in the catalog number. The code for screw style is N and the code for push in style is P. The number (i.e, 20) in the cat. no. indicates the number of

Using Bulletin 1771 Selection Tables to Make Valid 1492 Wiring System Module Catalog Numbers

Follow these steps when using the selection tables to make valid catalog numbers:

- 1. Find the appropriate table based on the catalog number of the 1771 I/O module.
- 2. Find the column in the selected table for the 1771 I/O module.
- 3. Follow the column down to determine which Wiring System Modules are compatible with the I/O module as indicated by letter code. If there is no letter code, the Wiring System Module is not compatible with the I/O module. NOTE: The letter codes designate the compatible 1492 cable for that 1771 I/O and Wiring System Module combination.
- 4. Select the desired Wiring System Module.
- 5. Configure the cable catalog number using 1492-CABLE (for digital cables) or 1492-ACABLE (for analog cables). See footnote on pages 62 and 64.

Bulletin 1771 PLC-5 IFMs and Cables

IFMs for Bulletin 1771 Digital 8-Point and 16-Point I/O Modules

Description of 20-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	1/0	Mod	ule C	Catalo	g Nu	ımbe	r 177	l									
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	ΙA	IA2	IAD	9	IBD	ICD	QĐI	IMD	Ξ	Z	QNI	<u></u>	0AD 0	0800	090	OMD	0 ND
Feed-through		1																	
Standard 264V AC/DC Max.	1492-IFM20F	1492-RIFM20F ⊘	_	_	F	_	F	F	F	F	_	_	F	_	F,FF	F,FF	F	F	F,FF
Narrow standard 132V AC/DC Max.	1492-IFM20FN	1492-RIFM20FN ❸	_	_	F	_	F	F	F	_	_	_	F	_	F,FF	F,FF	F	—	F,FF
Extra terminals (2 per I/O) 264V AC/DC Max.	1492-IFM20F-2	1492-RIFM20F-20	_	_	F	_	F	F	F	F	_	_	F	_	F,FF	F,FF	F	F	F,FF
3-wire sensor type input devices 132V AC/DC Max.	1492-IFM20F-3	_	_	_	F	_	F	F	F	_	_	_	F	_	_	_	_	_	_
LED Indicating		1																	
Standard with 24V AC/DC LEDs	1492-IFM20D24	_	_	_	_	_	F	F	_	_	_	_	F	_	F,FF	F,FF	_	_	F,FF
Narrow standard with 24V AC/DC LEDs	1492-IFM20D24N	_	_	_	_	_	F	F	_	_	_	-	F	_	F,FF	F,FF	_	_	F,FF
Standard with 120V AC/DC LEDs	1492-IFM20D120 ④	_	_	_	F	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Narrow standard with 120V AC LEDs	1492-IFM20D120N	_	_	_	F	_	_	_	_	_	_	_	_	_	F,FF	_	_	_	_
24V AC/DC LEDs and extra terminals for outputs	1492-IFM20D24-2	_	_	_	_	_	_	_	_	_	_	-	_	_	F,FF	F,FF	_	_	F,FF
24V AC/DC LEDs and extra terminals for inputs	1492-IFM20D24A-2	_	_	_	_	_	F	F	_	_	_	-	F	_	_	_	_	_	_
120V AC LEDs and extra terminals for outputs	1492-IFM20D120-2	_	_	_	_	_	_	_	_	_	_	_	_	_	F,FF	_	_	_	_
120V AC LEDs and extra terminals for inputs	1492-IFM20D120A-2	_	_	_	F	_	_	_	_	_	_	_	_	_	_	_	_	_	_
3-wire sensor with 24V AC/DC LEDs	1492-IFM20D24-3	_	_	_	_	_	F	F	_	_	_	_	_	_	_	_	_	—	_
8 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM20DS24-4	_	-	_	_	_	-	_	-	_	-	-	_	_	_	_	_	_	_
8 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM20DS120-4	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	-	_	_
240V AC LEDs and extra terminals for outputs	1492-IFM20D240-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	F	_
240V AC LEDs and extra terminals for inputs	1492-IFM20D240A-2	_	_	_	_	_	_	_	_	F	_	_	_	_	_	_	_	—	_
Fusible																			
120V AC/DC with extra terminals for outputs	1492-IFM20F-F-2	1492-RIFM20F-F-2 7	_	_	_	_	_	_	_	_	_	_	_	_	F	F	_	_	F
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24-2	1492-RIFM20F-F24-2 7	_	_	_	_	_	_	_	_	_	_	_	_	F	F	_	_	F
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120-2	1492-RIFM20F-F120-2 7	_	_	_	_	_	_	_	_	_	_	_	_	F	_	-	_	_
Extra terminals with 240V AC/DC blown fuse LED indicators	1492-IFM20F-F240-2	_	_	_	_	-	_	_	_	-	_	_	_	_	_	_	_	F	_
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24A-2	1492-RIFM20F-F24A-2 ⊘	_	-	_	-	F	F	_	_	_	-	F	_	_	_	_	_	_
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120A-2	1492-RIFM20F-F120A-2 	_	_	F	_	_	_	_	_	_	-	_	_	_	_	_	_	_

IFMs for Bulletin 1771 Digital 8-Point and 16-Point I/O Modules (Continued)

Description of 20-PIN IFM Cat. No. for Wiring System Module with System W																			
	Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	IA	IA2	IAD	IB	IBD	ICD	Q91	IMD	=	Z	QNI	Ħ	0AD@	0800	090	OMD	OUDO
8 Individually isolated 120V AC/DC with extra terminals for outputs	1492-IFM20F-FS-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with extra terminals and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Two 4-point isolated groups with four terminals/input and 24V AC/DC blown fuse LED indicators	1492-IFM20F-FS24A-4	_	_	_	_	T	_	_	_	_	T	T	_	T	_	_	_	_	_
8 Individually isolated with extra terminals output, and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with four terminals/output and 120V AC/DC blown fuse LED indicators	1492-IFM20F-FS120-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Two 4-point isolated groups with four terminals/input and 120V AC/DC blown fuse indicators	1492-IFM20F-FS120A-4	_	T	T	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
8 Individually isolated with 4 terminals/output and 240V AC/DC blown fuse indicators	1492-IFM20F-FS240-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Relay Master (LED Indicating) ூூ																			
20-pin master with eight (8) 24V DC relays	1492-XIM2024-8R	_	_	_	_	_	_	_	_	_	_	_	_	_	_	F,FF	_	_	T —
20-pin master with eight (8) 120V AC relays	1492-XIM20120-8R	_	_	_	_	_	_	_	_	_	_	_	_	_	F,FF	_	_	_	_
20-pin master with sixteen (16) 120V AC relays	1492-XIM20120-16R	_	—	_	_	_	_	_	_	_	_	_	_	_	F,FF	_	_	_	_
20-pin master with sixteen (16) 120V AC relays with fusing	1492-XIM20120-16RF	_	_	_	_	_	_	_	_	_	_	_	_	_	F,FF	_	_	_	_
20-pin master relay with sixteen (16) 24V DC relays	1492-XIM2024-16R	_	_	_	_	_	_	_	_	_	_	_	_	_	_	F,F	_	_	_
20-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM2024-16RF	_	_					_	_		_		_	_	_	F,F	_	_	_
Relay Expander (LED Indicating) ⊕⊙				•	•			•			•			•		•	•		•
Expander with eight (8) 24V DC relays	1492-XIM24-8R	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0	_	_	T —
Expander with eight (8) 120V AC relays	1492-XIM120-8R	_	-	-	_	_	_	-	_	_	_	—	-	_	0	_	_	-	<u> </u>
Fusible Expander			•	•	•	•	•	•	•	•	•	•	•	•			•	•	
8-channel expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	-	_	-	-	-	_	-	-	-	-	-	_	0	_	-	_
8-channel expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	_	_	-	-	_	_	-	_	-	_	_	0	-	_	_	_
Feed-through Expander															•				
Expander with eight (8) feed-through channels	1492-XIMF-2	_	_	_	_	_	_	_	_	_	_	_	_	_	0	0	_	_	<u> </u>
Cithau Fau FF								+			+		+	+				+	

Either F or FF.

One expander is connected to a master to provide a total of 16 outputs. An extender cable is included with each expander to connect it to the master.

Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m

(010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-CABLE050A is for a 5.0 m cable, and the letter A.

This IFM is not recommended for use with PLC I/O modules that have an off-state leakage current exceeding 0.5 mA. Use a 1492-IFM20D120N or 1492-IFM20D120A-2 for inputs. Use 1492-IFM20D120-2 for outputs.

The voltage rating is relay control/coil voltage. For Relay Contact Ratings, refer to page 192.

The LED indicates the PLC output status.

Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminals) or 1492-RTB20P. ORDER PLUGS SEPARATELY.

Compatible Removable Terminal Block (RTB) plug; 1492-RTB10N (screw style terminals) or 1492-RTB10P. ORDER PLUGS SEPARATELY. 4

Bulletin 1771 PLC-5 IFMs and Cables, Continued

IFMs for Bulletin 1771 Digital 16-Point Isolated and 32-Point I/O Modules ⊕

System Module with Syst	Cat. No. for Wiring	1/0	Mod	ule Ca	atalo	g Nur	nber '	1771-										
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	IAN	IBN	1D16	1016	NAI	OAN	OBN	0D16	000	0016	NAO	0W16	NWO	OWNA	scIM16@	sc0M16@
Feed-through																		
Standard 132V AC/DC Max.	1492-IFM40F	1492-RIFM40F 3	J	J	М	М	K	L	L	М	М	М	L	R	L	L	_	M
Extra terminals (2 per I/O) 132V AC/DC Max.	1492-IFM40F-2	1492-RIFM40F-2 ❸	J	J	_	_	K	L	L	_	_	_	L	R	L	L	_	_

Note: Footnotes are on the following page.

IFMs for Bulletin 1771 Digital 16-Point Isolated and 32-Point I/O Modules (Continued)⊕

Description of 40-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring	1/0	Mod	ule C	atalo	g Nui	nber	1771-									
	System Module with Fixed Terminal Block	System Module with Removable Terminal Block Socket Assembly (order plugs separately	IAN	IBN	ID16	10.16	IVN	OAN	OBN	0D16	000	0.016	OVN	0W16	OWN	OWNA	scIM16@	sc 0M16@
3-wire sensor type input devices 60V AC/DC Max.	1492-IFM40F-3	_	_	J	_	_	K	_	_	_	_	_	_	_	_	_	_	-
LED Indicating					ı	1	ı	ı			ı	1	1	l	ı	ı	ı	1
Standard with 24V AC/DC LEDs	1492-IFM40D24	1492-RIFM40D24 3	_	J	_	_	K	_	L	_	_	_	L	_	L	L	_	_
24V AC/DC LEDs and extra terminals for outputs	1492-IFM40D24-2	_	_	_	-	_	-	-	L	_	-	_	L	_	L	L	_	-
24V AC/DC LEDs and extra terminals for inputs	1492-IFM40D24A-2	1492-RIFM40D24A-2 ③	_	J	-	_	K	-	_	_	-	_	_	_	-	-	-	-
120V AC LEDs and extra terminals for outputs	1492-IFM40D120-2	_	_	_	_	_	_	L	_	_	_	_	_	_	L	L	_	_
120V AC LEDs and extra terminals for inputs	1492-IFM40D120A-2	_	J	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
3-wire sensor with 24V AC/DC LEDs	1492-IFM40D24-3	_	_	J	_	_	K	_	_	_	_	_	_	_	_	_	_	_
16 Individually isolated with 24/48V AC/DC LEDs and 4 terminals/output	1492-IFM40DS24-4	_	_	_	_	_	_	_	_	_	_	М	_	_	_	_	_	-
16 Individually isolated with 24V AC/DC LEDs and 4 terminals/input	1492-IFM40DS24A-4	_	_	_	_	М	_	_	_	_	_	_	_	_	_	_	_	_
16 Individually isolated with 120V AC LEDs and 4 terminals/output	1492-IFM40DS120-4	_	_	_	_	_	_	_	_	М	М	_	_	_	_	_	_	М
16 Individually isolated with 120V AC LEDs and 4 terminals/input	1492-IFM40DS120A-4	_	_	_	М	_	_	_	_	_	_	_	_	_	_	_	_	_
16 Individually isolated with 240V AC LEDs and 4 terminals/input	1492-IFM40DS240A-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	М	-
Fusible																		
120V AC/DC with extra terminals for outputs	1492-IFM40F-F-2	_	—	—	_	_	_	L	L	_	_	_	L	_	L	L	_	_
Extra terminals with 24V AC/DC blown fuse indicators for outputs	1492-IFM40F-F24-2	1492-RIFM40F-F24-2 3	_	_	_	_	_	_	L	_	_	_	L	_	L	L	_	_
Extra terminals with 120V AC/DC blown fuse indicators for outputs	1492-IFM40F-F120-2	_	_	_	_	_	_	L	_	_	_	_	_	_	L	L	_	-
16 Individually isolated with extra terminals for 120V AC DC outputs	1492-IFM40F-FS-2	_	_	_	_	_	_	_	_	М	М	М	_	R71 ⑤	_	_		M
Individually isolated with extra terminals and 24V AC/DC blown fuse indicators for outputs	1492-IFM40F-FS24-2	_	_	_	_	_	_	_	_	_	_	М	_	R71 6	_	_	_	-
16 Individually isolated with 24V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS24-4	_	_	_	_	_	_	_	_	_	_	М	_	_	_	_	_	_
16 Individually isolated 240V AC/DC with 4 terminals/output	1492-IFM40F-FS-4	_	_	_	_	_	_	_	_	_	_	М	_	_	_	_	_	_
16 Individually isolated with extra terminals and 120V AC/DC blown fuse indicators for outputs	1492-IFM40F-FS120-2	1492-RIFM40F-FS120-28	_	_	_	_	_	_	_	М	М	_	_	R71 ⑤	_	_	_	M
16 Individually isolated with 120V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS120-4	1492-RIFM40F-FS120-4 ⊙	_	_	_	_	_	_	_	М	М	_	_	_	_	_	_	М
16 Individually isolated with 240V AC/DC blown fuse indicators and 4 terminals/output	1492-IFM40F-FS240-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	M
16 Individually isolated with 24V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS24A-4	_	_	_	_	М	_	_	_	_	_	_	_	_	_	_	_	_
16 Individually isolated with 120V AC/DC 4 terminals/input	1492-IFM40F-FSA-4	_	_	_	М	М	_	_	_	_	_	_	_	_	_	_	_	_
16 Individually isolated with 120V AC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS120A-4	1492-RIFM40F-FS120A- 4 ⊙	_	_	М	_	_	_	_	_	_	_	_	_	_	_	_	_
16 Individually isolated with 240 VAC/DC blown fuse indicators and 4 terminals/input	1492-IFM40F-FS240A-4	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Relay Master (LED Indicating) 🏽 🗸																		
40-pin master with eight (8) 24V DC relays	1492-XIM4024-8R	_	_	_					L			_		_				_
40-pin master with sixteen (16) 24V DC relays	1492-XIM4024-16R	1492-RXIM4024-16R ®	—	—	_	_	_	_	L	_	_	_	_	_	_	_	_	_
40-pin master with sixteen (16) 24V DC relays with fusing	1492-XIM4024-16RF	_	_	_	_	_	_	_	L	_	_	_	_	_	_	_	_	
Relay Expander (LED Indicating) 🎯 🗸														,				
Expander with eight (8) 24V DC relays	1492-XIM24-8R	1492-RXIM24-8R ❖	_	_	-	-	-	-	0	_	-	-	-	_	-	-	-	
Expander with eight (8) 120V AC relays	1492-XIM120-8R	_	_	_	_	-	_	_	_	_	_	_	—	_	_	_	_	$\perp =$
Fusible Expander					1	1	1	1		1	1			ı	1	1	1	
8-channel expander with 24V DC blown fuse indicators	1492-XIMF-F24-2	_	_	_	-	-	-	-	0	_	-	_	_	_	-	-	-	-

IFMs for Bulletin 1771 Digital 16-Point Isolated and 32-Point I/O Modules (Continued)®

Description of 40-PIN IFM	Cat. No. for Wiring	Cat. No. for Wiring System Module with	I/0	Mod	ule C	atalo	g Nur	nber	1771-														
	System Module with Fixed Terminal Block	Removable Terminal Block Socket Assembly	IAN	IBN	ID16	1016	IVN	OAN	OBN	0D16	QQQ	0.016	OVN	0W16	0 WN	OWNA	scIM16@	sc0M16@					
8-channel expander with 120V AC blown fuse indicators	1492-XIMF-F120-2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
Expander with sixteen (16) 24V DC relays with fusing	1492-XIM24-16RF	_	_	_	_	_	_	_	0	_	_	_	_	_	_	_	_	_					
Feed through Expander																							
Expander with eight (8) feed-through channels	1492-XIMF-2	_	_	_	_	_	_	_	0	_	_	_	_	_	_	_	_	_					

- Two or three expanders are connected to a master to provide a total of 32 outputs max (depends on PLC module). An extender cable is included with each expander to connect it to the master.
- One 1492-XIM24-16RF is to be used with one 1492-XIM4024-16R AND 1492-XIM4024-16RF master (32 PT. only).
- Cables are available in standard lengths of 0.5 m 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: Catalog Number 1492-CABLE025J is for a 2.5 m cable, and the letter J.
- For information concerning this I/O module contact Spectrum Controls (phone: 425-641-9473 or www.spectrumcontrols.com).
- The voltage rating is relay control/coil voltage. For Relay Contact Ratings, refer to page 192.
- The LED indicates the PLC output status.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminals) or 1492-RTB20P. ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB17N (screw style terminals) or 1492-RTB17P. ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB14N (screw style terminals) or 1492-RTB14P. ORDER PLUGS SEPARATELY.
- Ompatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P. ORDER PLUGS SEPARATELY.

Bulletin 1771 PLC-5 IFMs and Cables, Continued

These **pre-wired cables** have a wiring arm on one end to connect to the front of a Bulletin 1771 digital I/O module and a connector on the other end to plug into a 20- or 40-terminal IFM/XIM. You must first select the IFM/XIM from one of the preceding selection tables

Pre-Wired Cables for Bulletin 1771 Digital I/O Modules

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1771 I/O Modules Catalog Number
1492-CABLE ● F	0.5, 1.0, 2.5, 5.0 m	Yes	20	1771-IAD, -IBD, -ICD, -IGD, -IND, -OAD, -OBD, -OGD, -OMD, -OND, -IMD
1492-CABLE ● FF	0.5, 1.0, 2.5, 5.0 m	Yes	20	1771-OAD, -OBD, -OND
1492-CABLE ● J	0.5, 1.0, 2.5, 5.0 m	Yes	40	1771-IAN, -IBN
1492-CABLE ● K	0.5, 1.0, 2.5, 5.0 m	Yes	40	1771-IVN
1492-CABLE ● L	0.5, 1.0, 2.5, 5.0 m	Yes	40	1771-OAN, -OBN, -OVN, -OWN, -OWNA
1492-CABLE ● M	0.5, 1.0, 2.5, 5.0 m	Yes	40	1771-ID16, -IQ16, -OD16, -ODD, -OQ16, -SCIM16, -SCOM16
1492-CABLE ● R	0.5, 1.0, 2.5, 5.0 m	Yes	40	1771-0W16
1492-CAB ● R71 ②	0.5, 1.0, 2.5, 5.0 m	Yes	40	1771-0W16
1492-CABLEOT	0.5, 1.0, 2.5, 5.0 m	Yes	20	1771-IA, -IA2, -IB, -IH, -IN, -IT

Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE005M is for a 0.5 m cable that could be used to connect a Catalog Number 1492-IFM40F IFM to a Catalog Number 1771-ODD I/O module.

2 Cable Catalog Number 1492-CAB 171 has only the N.O. contacts connected.

Note: Footnotes are on the following page.

The I/O module-ready cables have a wiring arm on one end to plug onto the front of a Bulletin 1771 I/O module and 20 or 40 individually colored #18 AWG conductors on the other end. These cables provide the convenience of pre-wired connections at the I/O module end, while still allowing the flexibility to field-wire to standard terminal blocks of your choice.

I/O Module-Ready Cables for 1771 Digital I/O Modules 🛛

Cable Cat. No.	Standard Cable Lengths	Build-to-Order Available	No. of Conductors	Mating 1771 I/O Modules Catalog Number
1492-CABLE ❸ WA	1.0, 2.5, 5.0 m	Yes	12	1771-IA, -IA2, -IB, -IC, -IH, -IM, -IN, -IT, -IV, -OA, -OB, -OC, -OM, -ON, -OP
1492-CABLE ® WD	1.0, 2.5, 5.0 m	Yes	12	1771-ID, -ID01, -OD, -ODZ, -OR, -OW, -OYL, -OZL
1492-CABLE ③ WH	1.0, 2.5, 5.0 m	Yes	20	1771-IAD, -IBD, -ICD, -IGD, -IMD, -IND, -OAD, -OBD, -OGD, -OMD, -OND
1492-CABLE®WHF	1.0, 2.5, 5.0 m	Yes	20	1771-IBD 4, -OAD 4, -OBD 4, -OMD 4, -OND 4
1492-CABLE ❸ WN	1.0, 2.5, 5.0 m	Yes	40	1771-IAN, -IBN, -ID16, -IQ16, -IVN, -OAN, -OBN, -OD16, -ODD, -OQ16, -OVN, -OW16, -OWN, -OWNA

- Cables are available in standard lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE050WN is for a 5.0 m cable with a pre-wired Catalog Number 1771-WN wiring arm on one end.
- Includes an optional 3 A fuse in the Wiring Arm for 1771 PLC mating I/O Modules.
- Discrete I/O ready cables should not be used with PLC analog I/O modules as a cable shield and drain wires are not provided.

Bulletin 1771 PLC-5 AIFMs and Cables

IFMs for Bulletin 1771 Analog I/O Modules

Description of AIFM	Catalog Number	Catalog Number	I/0 I	Modu	le Cat	talog	Numb	er 17	71		
	for Wiring System Module with Fixed Terminal Block	for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately	IFE (Differential)	IFE (Single-Ended)	IFF (Differential)	IFF (Single-Ended)	11	IR	OFE1	0FE2	0FE3
Feed-through											
4-channel input, output or 2 in/2 out combination with 3 terminals/channel	1492-AIFM4-3	1492-RAIFM4-3 ❸	-	_	_	_		_	G	G	G
6-channel isolated with 34 terminals/channel	1492-AIFM6S-3	1492-RAIFM6S-3 4	_	—	—	_	_	J	_	_	
8-channel differential 16-channel single-ended with 3 terminals/channel	1492-AIFM8-3	1492-RAIFM8-3 6	E	F	Е	F	Н			_	_
Thermocouple						•		•	•		
6-channel with 3 terminals/channel	1492-AIFM6TC-3	_	_	_	_						
Fusible			•	•							
4-channel with 24V DC blown fuse indicators, test points, 5 terminals/input	1492-AIFM4I-F-5	_	_	_	_	_	_			_	_
2-channel/input, 2-channel/output with 24V DC blown fuse indicators, test points, 5 terminals/input, 3 terminals/ output	1492-AIFM4C-F-5	_	_			_				_	_
8-channel Input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM8-F-5	_	E		E			_	_	_	

IFMs for Bulletin 1771 Analog I/O Modules (Continued)

Description of AIFM	Catalog Number	Catalog Number	I/0 I	Modu	le Cat	talog	Numb	er 17	71		
	for Wiring System Module with Fixed Terminal Block	for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately		IFE (Single-Ended)	IFF (Differential)	IFF (Single-Ended)	1	R	OFE1	0FE2	0FE3
16-channel Input with 24V DC blown fuse indicators, 3 terminals/channel	1492-AIFM16-F-3	_	_	F	_	F	_	_	_	_	_
16-channel Input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM16-F-5	_	_	F	_	F	_	_	_	_	
4-input /4-output channel with 8 fuses and 24V blown fuse indicators	1492-AIFMQS	_		_	_			_	_	_	

- Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number 005 = 0.5 m (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m), and insert the letter in the box. Example: **Catalog Number 1492-ACABLE025H** is for a 2.5 m cable, and the letter H.
- Cannot be used with 1771 I/O.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB8N (screw style terminals) or 1492-RTB8P. ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P. ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB) plug; 1492-RTB16N (screw style terminals) or 1492-RTB16P. ORDER PLUGS SEPARATELY.

These **pre-wired cables** have a wiring arm on one end to connect to the front of a Bulletin 1771 analog I/O module and a connector on the other end to plug into a 15- or 25-pin D-shell terminal AIFM. You must first select the AIFM from the preceding selection table

Pre-Wired Cables for Bulletin 1771 Analog I/O Modules

Cable Catalog Number	Standard Cable Lengths	Build-to-Order Available	AIFM Connector	Mating 1771 I/O Modules
1492-ACABLE ● E	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1771-IFE, -IFF Differential
1492-ACABLEOF	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1771-IFE, -IFF Single-Ended
1492-ACABLE ● G	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1771-0FE1, -0FE2, -0FE3
1492-ACABLE ● H	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1771-IL
1492-ACABLE ● J	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1771-IR

[•] Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-ACABLE005E is for a 0.5 m cable that could be used to connect a Catalog Number 1492-AIFM8-3 IFM to a Catalog Number 1771-IFE I/O module. Build-to-order lengths are also available.

IFM-Ready I/O Cables

IFM-ready cables have a cable connector on one end to attach to the IFM and either 20 or 40 individually colored conductors on the other end (CABLE P and CABLE Q, respectively). These cables allow the IFM to be used in specialty applications that require a custom connection.

IFM-Ready I/O Cable

Cable Catalog Number	Standard Cable Lengths	Insulation Rating	No. Conductors	Conductor Size	Nominal Outer Diameter	Current/ Conductor	Compatible IFM Catalog Numbers
1492-CABLE ● P	1.0, 2.5, 5.0 m	300V, 80°C	20	22 AWG	9 mm (0.36 in.)	2 A	1492-IFM20, 1492-XIM20
1492-CABLE ● Q	1.0, 2.5, 5.0 m	300V, 80°C	40	22 AWG	11.7 mm (0.46 in.)	2 A	1492-IFM40, 1492-XIM40

[•] Cables are available in lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-CABLE025P** is for a 2.5 m, 20 conductor IFM-ready cable. Also refer to Build-to-Order Length Cables on page 65.

Build-to-Order Length Cables

Build-to-Order Length Cables

Cable Lengths	Increment Size	Cable Length Codes	Example Catalog Number
0.12.0 m	0.1 m	001020	1492-CABLE015A (1.5 m cable)
2.010.0 m	0.5 m	020100	1492-CABLE075P (7.5 m cable)
10.099.0 m	1.0 m	100990	1492-CABLE150RTBB (15.0 m cable)

All Bulletin 1492 cables are available in build-to-order lengths. Consult your distributor for availability.

Using PowerFlex 700H & 700S Drive Selection Tables to Make Valid 1492 Wiring System Module Catalog Numbers

Follow these steps when using the selection tables to make valid catalog numbers:

- 1. Find the appropriate table based on the PowerFlex 700H or 700 S control I/O module.
- 2. Find the column in the selected table for the I/O module.
- 3. Follow the column down to determine which Wiring System Modules are compatible with the I/O module as indicated by letter code. If there is no letter code, the Wiring System Module is not compatible with the I/O module. NOTE: The letter codes designate the compatible 1492 cable for that PowerFlex 700H or 700S control I/O and Wiring System Module combination.
- 4. Select the desired Wiring System Module.
- 5. Configure the cable catalog number using 1492-CAB● (for digital cables) or 1492-ACAB● (for analog cables). See footnote on pages 50 and 53.

PowerFlex 700H and 700S Drive IFMs, AIFMs and Cables

PowerFlex 700H and 700S drive Digital Control I/O

Description of 20-PIN IFM	Catalog Number for Wiring System	Catalog Number for Wiring System Module	700H I/O M		700S Drive I/O Module	
	Module with Fixed Terminal Block	with Removable Terminal Block Socket Assembly (order plugs separately)	20C-D01 & 20CDA1-A	20C-D01 & 20CDA1-B	ТВ2	
Feed-through	-					
Standard 264V AC/DC Max.	1492-IFM20F	1492-RIFM20F o	A7H	В7Н	A7S	
Narrow standard 132V AC/DC Max.	1492-IFM20FN	1492-RIFM20FN ⊘	A7H	В7Н	A7S	
Extra terminals (2 per I/O) 264V AC/DC N	Max. 1492-IFM20F-2	1492-RIFM20F-2 ●	A7H	В7Н	A7S	

- Compatible Removable Terminal Block (RTB plug; 1492-RTB20N (screwstyle terminals) or 1492-RTB20P. ORDER PLUGS SEPARATELY.
- Compatible Removable Terminal Block (RTB plug; 1492-RTB10N (screwstyle terminals) or 1492-RTB10P. ORDER PLUGS SEPARATELY.

These **pre-wired cables** have a pre-wired removable terminal block (RTB) on one end to connect to the PowerFlex 700H or PowerFlex 700S drive digital control I/O board terminal. There is a second connector on the other end to plug into a 20-pin IFM. You must first select the IFM from the table below.

Pre-Wired cables for PowerFlex 700H and 700S Drive Digital I/O

Cable Catalog Number	Standard Cable Length	Build-to-Order Available	Number of Conductors	Mating PowerFlex Control Board Cat. No or Terminal
1492-CAB o A7H	0.5, 1.0, 2.5, 5.0 m	Yes	20	20C-DA1-A and 20C-D01
1492-CAB o B7H	0.5, 1.0, 2.5, 5.0 m	Yes	20	20C-DA1-B and 20C-D01
1492-CAB•A7S	0.5, 1.0, 2.5, 5.0 m	Yes	20	Terminal TB2

Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CAB005A7H is for a 0.5 m cable that could be used to connect a Catalog Number 1492-IFM20F IFM to a PowerFlex 700H drive 20C-D01 and 20C-DA1-A module.

PowerFlex 700H and 700S Drive Analog Control I/O

Description of Analog IFM	Catalog Number for Wiring System Module with Fixed Terminal Block	Catalog Number for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately)	20C-DA1-A or 20C-DA1-B H0004 Or 100 H0004 OR	781 (Pins 112) Module	TB1 (Pins 1324)
Feed-through					
6-channel isolated with 34 terminals/channel	1492-AIFM6S-3	1492-RIFM6S-3 0	Z7H	Z7S	
2-channel counter inputs with 4 output points	1492-AIFMCE4	_	_	_	X7S
2-channel fused counter inputs with 4 fused output points	1492-AIFMCE4-F	_		_	X7S

Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals, available August 2007). ORDER PLUGS SEPARATELY. These pre-wired cables have a pre-wired removable terminal block (RTB) on one end to connect to the PowerFlex 700H or PowerFlex 700S drive analog control I/O board terminal. There is a 25-pin D-shell connector on the other end to plug into the mating AIFM module terminal. You must first select the AIFM from the table below.

Pre-Wired Cables for PowerFlex 700H and 700S Drive Analog I/O

Cable Catalog Number	Standard Cable Length	Build-to-Order Available	Number of Conductors	Mating PowerFlex Control Board Cat. No or Terminal
1492-ACAB o Z7H	0.5, 1.0, 2.5, 5.0 m	Yes	25-Pin D-Shell	20C-DA1-A or 20C-DA1-B I/O board
1492-ACAB•Z7S	0.5, 1.0, 2.5, 5.0 m	Yes	25-Pin D-Shell	Terminal TB1 (DINS 112)
1492ACAB•Z7S	0.5, 1.0, 2.5, 5.0 m	Yes	25-Pin D-Shell	Terminal TB2 (DINS 1324)

Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-ACAB005Z7S is for a 0.5 m cable that could be used to connect a Catalog Number 1492-AIFM6S-3 analog IFM to a PowerFlex 700S drive analog terminal I/O.

Digital IFM Specifications

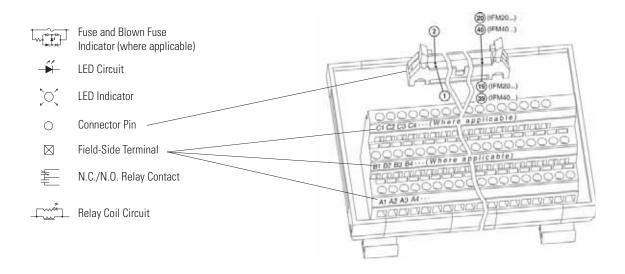
IFM Catalog Number	Page No. for Application Notes and Pinout	Page No. for Specifications	IFM Catalog Number	Page No. for Application Notes and Pinout	Page No. for Specifications	IFM Catalog Number	Page No. for Application Notes and Pinout	Page No. for Specifications
1492-IFM20F, -RIFM20F	70	187	1492-IFM20D240A-2	76	188	1492-IFM40DS120A-4	100	186
1492-IFM20F-2, -RIFM20F-2	71	187	1492-IFM20F-F240-2	82	188	1492-IFM40F-F120-2	106	187
1492-IFM20F-3	71	187	1492-IFM20F-FS240-4	88	188	1492-IFM40F-FS120-2, -RIFM40F-FS120-2	110	187
1492-IFM20FN, -RIFM20FN	70	187	1492-IFM20DS24-4	78	188	1492-IFM40F-FS120-4, -RIFM40F-FS120-4	111	187
_	_	_	1492-IFM20F-F-2, -RIFM20F-F-2	80	188	1492-IFM40F-FS120A-4, -RIFM40F-FS120A-4	114	187
1492-IFM20D24N	72	187	1492-IFM20F-FS-2	83	188	1492-IFM40DS240A-4	101	186
1492-IFM20D24-2	74	187	1492-IFM40F, -RIFM40F	89	188	1492-IFM40F-FS240-4	112	187
1492-IFM20D24A-2	74	187	1492-IFM40F-2, - RIFM40F-2	89	188	1492-XIM4024-16R, -RXIM4024-16R	123	188
1492-IFM20D24-3	77	187	1492-IFM40F-F-2	102	188	1492-XIM4024-16RF	126	188
1492-IFM20F-F24-2, -RIFM20F-F24-2	80	187	1492-IFM40F-FS-2	107	188	1492-XIM4024-8R	122	188
1492-IFM20F-F24A-2, -RIFM20F-F24A-2	81	187	1492-IFM40F-FSA-4	114	188	1492-XIM2024-8R	115	188
1492-IFM20F-FS24-2	83	187	1492-IFM40F-FS-4	108	189	1492-XIM2024-16R	118	188
1492-IFM20F-FS24A-4	84	187	1492-IFM40F-3	90	189	1492-XIM2024-16RF	119	188
1492-IFM20D120	73	187	1492-IFM40DS24-4	97	189	1492-XIM24-8R, -RXIM24-8R	127	188
1492-IFM20D120N	73	187	1492-IFM40D24, -RIFM40D24	91	189	1492-XIM24-16RF	131	188
1492-IFM20D120-2	75	187	1492-IFM40D24-2	92	189	1492-XIMF-F24-2	132	188
1492-IFM20D120A-2	75	187	1492-IFM40D24A-2, -RIFM40D24A-2	93	189	1492-XIM20120-16R	120	188
1492-IFM20DS120-4	79	187	1492-IFM40D24-3	96	189	1492-XIM20120-16RF	121	188
1492-IFM20F-F120-2, -RIFM20F-F120-2	81	187	1492-IFM40DS24A-4	98	189	1492-XIM20120-8R	117	188
1492-IFM20F-F120A-2, -RIFM20F-F120A-2	82	187	1492-IFM40F-F24-2, -RIFM40F-F24-2	103	189	1492-XIM120-8R	129	188
1492-IFM20F-FS120-2,	85	187	1492-IFM40F-FS24-2	107	189	1492-XIMF-F120-2	134	188
1492-IFM20F-FS120-4	86	187	1492-IFM40D120A-2	95	189	1492-XIMF-2	136	188
1492-IFM20F-FS120A-4	87	187	1492-IFM40D120-2	94	189	_	_	_
1492-IFM20D240-2	76	187	1492-IFM40DS120-4	99	189	_	_	_

For all IFM dimensions, refer to page 180.

For general Adhesive Label Card information, refer to page 181.

For Field-Side Wiring Diagrams, refer to the Wiring System web page at http://www.ab.com/catalogs/RAISE. Refer to page 186 for specific platform web site information. Refer to the online documentation for new product information.

Symbols and Terminal Identification Conventions Used Throughout the Pinout Section



1492-IFM20F 1492-RIFM20F

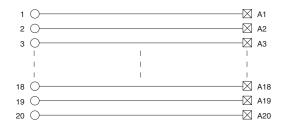
Feed-Through Standard 264V AC/DC Max.



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.

Pinout



1492-IFM20FN 1492-RIFM20FN

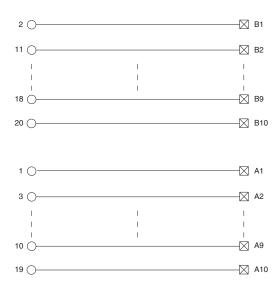
Feed-Through Narrow Standard 132V AC/DC Max.



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.

Pinout



1492-IFM20F-2 1492-RIFM20F-2

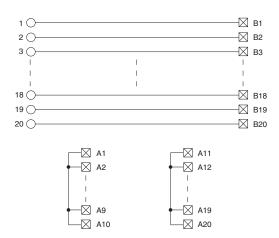
Feed-Through Extra Terminals (2 per I/O) 264V AC/DC Max.



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Isolation The power bus is isolated into two groups of 10 terminals. This allows each group of the I/O devices to reference a different power source.
- **4. Dimensions** Refer to page 187.

Pinout



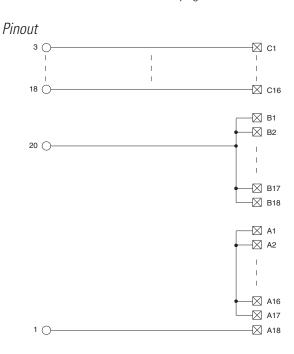
1492-IFM20F-3

Feed-Through 3-Wire Sensor Type Input Devices 132V AC/DC Max.



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power busses are connected to one common (one bus has 17 terminals, and one bus has 18 terminals). All of the input devices used must reference the same power source.
- 4. **Dimensions** Refer to page 187.



1492-IFM20D24

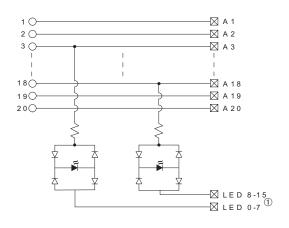
LED Indicating Standard with 24V AC/DC LEDs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring The LEDs are powered from the two-position terminal block. Make only one connection to the power source for normal operation. Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Isolation The LEDs are broke into two separate groups. Group 1 is commoned at terminal "Test 0-7" and Group 2 is commoned at terminal "Test 8-15."
- **4. Dimensions** Refer to page 187.

Pinout



1492-IFM20D24N

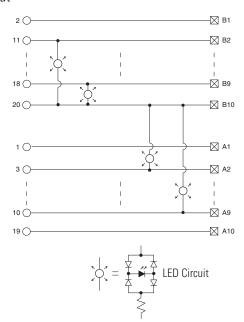
LED Indicating Narrow Standard with 24V AC/DC LEDs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The LEDs are connected to one common. All of the I/O devices must reference the same power source.
- 4. **Dimensions** Refer to page 187.

Pinout



1492-IFM20D120

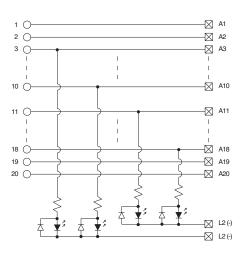
LED Indicating Standard with 120V AC/DC LEDs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. This IFM is not recommended for use with input devices or programmable controller output circuits having an off-state leakage current exceeding 0.5 mA. Use Cat. No. 1492-IFM20D120N instead, or use Cat. No. 1492-IFM20D120A-2 for input modules and Cat. No. 1492-IFM20D120-2 for output modules. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The LEDs are isolated into two groups of eight terminals. This allows each group of the I/O devices to reference a different power source.
- **4. Dimensions** Refer to page 187.

Pinout



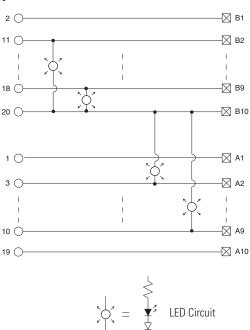
1492-IFM20D120N

LED Indicating Narrow Standard with 120V AC LEDs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The LEDs are connected to one common. All of the I/O devices must reference the same power source.
- 4. **Dimensions** Refer to page 187.



1492-IFM20D24-2

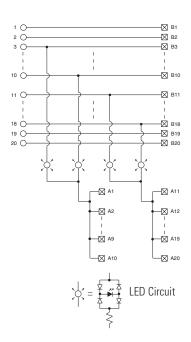
LED Indicating 24V AC/DC LEDs & Extra Terminals for Outputs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power bus and LEDs are isolated into two groups of 10 terminals (eight LEDs). This allows each group of output devices to reference a different power source.
- **4.** Dimensions Refer to page 187.

Pinout



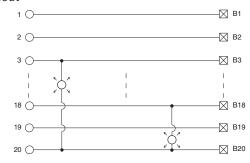
1492-IFM20D24A-2

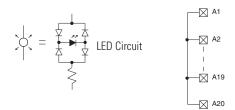
LED Indicating 24V AC/DC LEDs & Extra Terminals for Inputs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power bus comprises 20 terminals connected together. The LEDs are connected to one common. All of the I/O devices must reference the same power source.
- 4. Dimensions Refer to page 187.





1492-IFM20D120-2

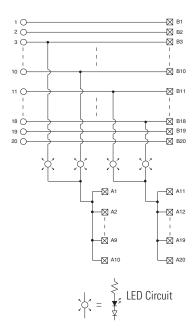
LED Indicating 120V AC LEDs & Extra Terminals for Outputs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power bus and LEDs are isolated into two groups of 10 terminals (8 LEDs). This allows each group of output devices to reference a different power supply.
- 4. Dimensions Refer to page 187.

Pinout



1492-IFM20D120A-2

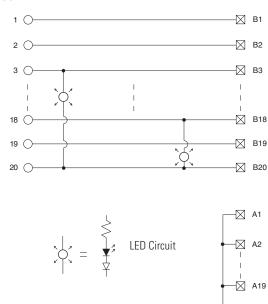
LED Indicating 120V AC LEDs & Extra Terminals for Inputs



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power bus comprises 20 terminals connected together. The LEDs are connected to one common. All of the I/O devices must reference the same power source.
- 4. Dimensions Refer to page 187.

Pinout



— A20

1492-IFM20D240-2

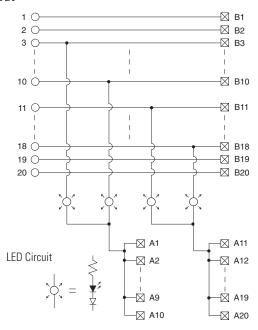
LED Indicating 240V AC LEDs & Extra Terminals for Outputs



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Isolation The power bus and LEDs are isolated into two groups of 10 terminals (8 LEDs). This allows each group of output devices to reference a different power supply.
- **4. Dimensions** Refer to page 187.

Pinout



1492-IFM20D240A-2

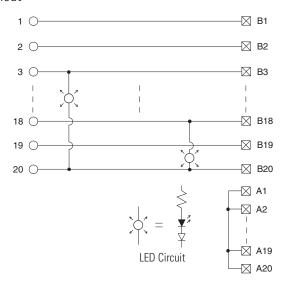
LED Indicating 120V AC LEDs & Extra Terminals for Inputs



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power bus comprises 20 terminals connected together. The LEDs are connected to one common. All of the I/O devices must reference the same power source.
- 4. Dimensions Refer to page 187.

Pinout



Publication 1492-TD008D-EN-P - January 2009

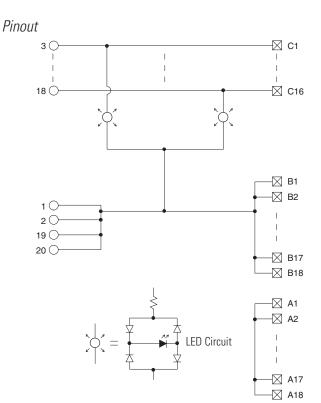
1492-IFM20D24-3

LED Indicating 3-Wire Sensor with 24V AC/DC LEDs



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The LEDs are connected to one common. All of the field input devices must reference the same power source.
- 4. Dimensions Refer to page 187.



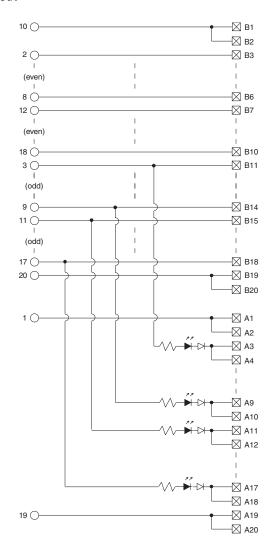
1492-IFM20DS24-4

LED Indicating 8 Individually Isolated with 24/48V AC/DC LEDs & 4 Terminals/Output



Application Notes

- Compatibility To ensure proper operation
 with the I/O module, do not exceed the voltage
 and current ratings of the IFM. When this IFM is
 used with a hard contact (relay) output circuit that
 switches an inductive load, surge suppression must
 be used.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. **Isolation** There are eight individually isolated channels. LED returns are individually isolated.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- **5.** Dimensions Refer to page 187.



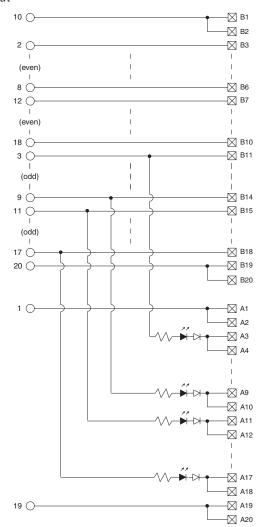
1492-IFM20DS120-4

LED Indicating 8 Individually Isolated with 120V AC LEDs & 4 Terminals/Output



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. **Isolation** There are eight individually isolated channels. LED returns are individually isolated.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- 5. Dimensions Refer to page 187.



1492-IFM20F-F-2 1492-RIFM20F-F-2

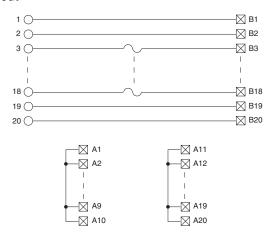
Fusible Extra Terminals for Outputs



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus and fuse clips are isolated into two groups of 10 terminals (eight fuse clips). This allows each group of output devices to reference a different power source.
- 5. Dimensions Refer to page 187.

Pinout



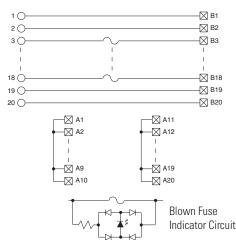
1492-IFM20F-F24-2 1492-RIFM20F-F24-2

Fusible Extra Terminals with 24V AC/DC Blown Fuse Indicators



Application Notes

- Compatibility To ensure proper operation
 with the I/O module, do not exceed the voltage
 and current ratings of the IFM. When this IFM is
 used with a hard contact (relay) output circuit that
 switches an inductive load, surge suppression must
 be used.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus, fuse clips, and blown fuse indicators are isolated into two groups of 10 terminals (eight fuse clips and blown fuse indicators). This allows each group of output devices to reference a different power source.
- 5. Dimensions Refer to page 187.



1492-IFM20F-F24A-2 1492-RIFM20F-F24A-2

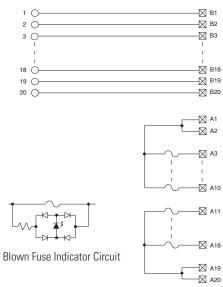
Fusible Extra Terminals with 24V AC/DC Blown Fuse Indicators



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus, fuse clips, and blown fuse indicators are isolated into two groups of 10 terminals (eight fuse clips and blown fuse indicators). This allows each group of input devices to reference a different power source.
- **5. Dimensions** Refer to page 187.

Pinout



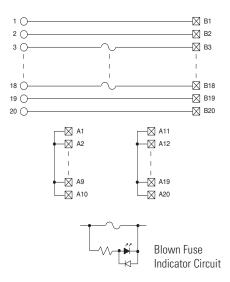
1492-IFM20F-F120-2 1492-RIFM20F-F120-2

Fusible Extra Terminals with 120V AC/DC Blown Fuse Indicators



Application Notes

- Compatibility To ensure proper operation
 with the I/O module, do not exceed the voltage
 and current ratings of the IFM. When this IFM is
 used with a hard contact (relay) output circuit that
 switches an inductive load, surge suppression must
 be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus, fuse clips, and blown fuse indicators are isolated into two groups of 10 terminals (eight fuse clips and blown fuse indicators). This allows each group of output devices to reference a different power source.
- 5. Dimensions Refer to page 187.



1492-IFM20F-F120A-2 1492-RIFM20F-F120A-2

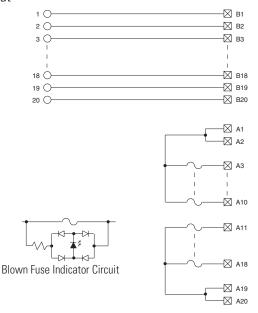
Fusible Extra Terminals with 120V AC/DC Blown Fuse Indicators



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus, fuse clips, and blown fuse indicators are isolated into two groups of 10 terminals (eight fuse clips and blown fuse indicators). This allows each group of input devices to reference a different power source.
- 5. Dimensions Refer to page 187.

Pinout



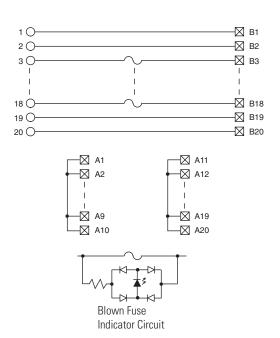
1492-IFM20F-F240-2

Fusible Extra Terminals with 240V AC/DC Blown Fuse Indicators



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus, fuse clips, and blown fuse indicators are isolated into two groups of 10 terminals (eight fuse clips and blown fuse indicators). This allows each group of output devices to reference a different power source.
- 5. **Dimensions** Refer to page 187.



1492-IFM20F-FS-2

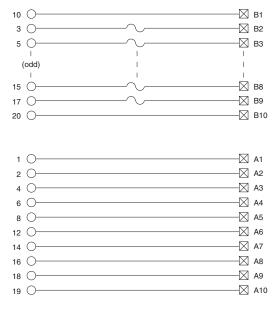
Fusible 8 Individually Isolated 120V AC/DC with Extra Terminals for Outputs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. **Isolation** The fuse clips are isolated into eight groups of terminals. This allows each output device to reference a different power source.
- 5. Dimensions Refer to page 187.

Pinout



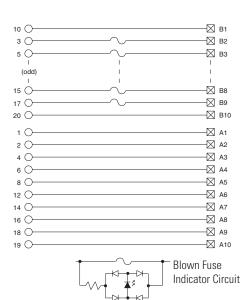
1492-IFM20F-FS24-2

Fusible 8 Individually Isolated with Extra Terminals and 24V AC/DC Blown Fuse Indicators



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- **4. Isolation** The fuse clips and blown fuse indicators are isolated into eight groups of terminals. This allows each output device to reference a different power source.
- 5. Dimensions Refer to page 187.



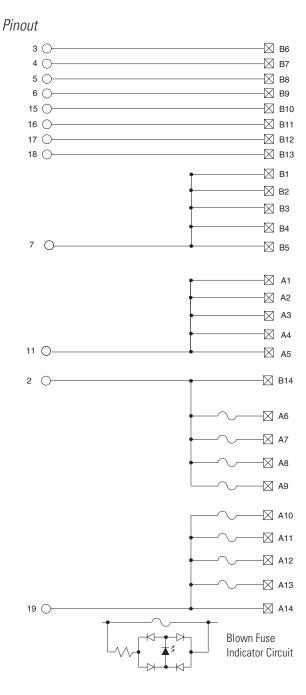
1492-IFM20F-FS24A-4

Fusible Two 4-Point Isolated Groups with 4 Terminals/Input and 24V AC/DC Blown Fuse LED Indicators



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The fuse clips and blown fuse indicators are isolated into two groups of terminals. This allows each group of output devices to reference a different power source.
- 5. Dimensions Refer to page 187.



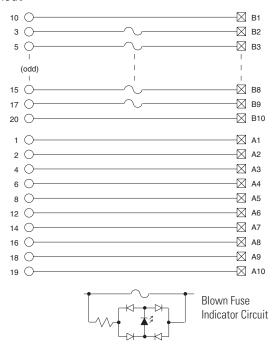
1492-IFM20F-FS120-2

Fusible 8 Individually Isolated with Extra Terminals and 120V AC/DC Blown Fuse LED Indicators



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- **4. Isolation** The fuse clips and blown fuse indicators are isolated into eight groups of terminals. This allows each output device to reference a different power source.
- 5. Dimensions Refer to page 187.



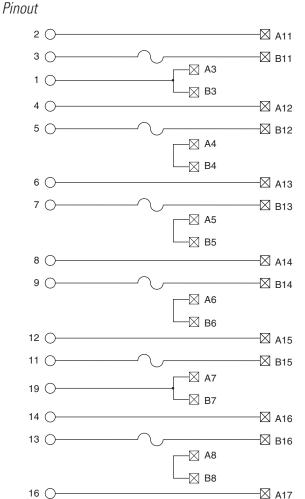
1492-IFM20F-FS120-4

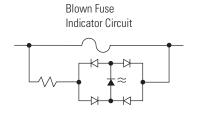
Fusible 8 Individually Isolated with 4 Terminals/Output and 120V AC/DC Blown Fuse LED Indicators



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Ten fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- **4. Isolation** The fuse clips and blown fuse indicators are isolated into eight groups of terminals. This allows each output device to reference a different power source.
- 5. Dimensions Refer to page 187.





18 🔾

17 🔾

⊠ в17

-⊠ A18

-⊠ B18

-⊠ A9

-⊠ B9

-⊠ A10 -⊠ B10

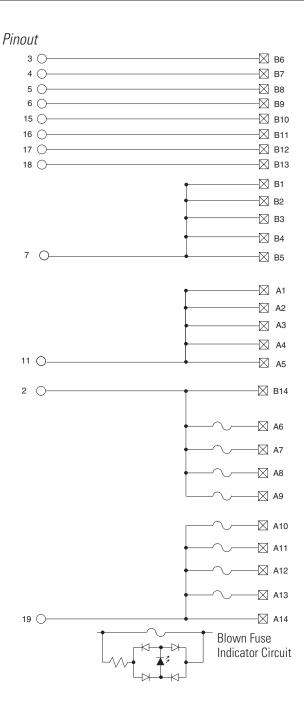
1492-IFM20F-FS120A-4

Fusible Two 4-Point Isolated Groups with 4 Terminals/Input and 120V AC/DC Blown Fuse LED Indicators



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load or an MOV across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Ten fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- **4. Isolation** The fuse clips and blown fuse indicators are isolated into two groups of terminals. This allows each group of input devices to reference a different power source.
- 5. Dimensions Refer to page 187.



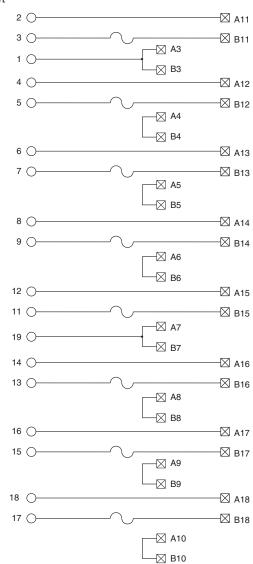
1492-IFM20F-FS240-4

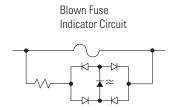
Fusible 8 Individually Isolated with 4 Terminals/Output and 240V AC/DC Blown Fuse LED Indicators



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load or an MOV across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- **4. Isolation** The fuse clips and blown fuse indicators are isolated into eight groups of terminals. This allows each output device to reference a different power source.
- 5. Dimensions Refer to page 187.





1492-IFM40F 1492-RIFM40F

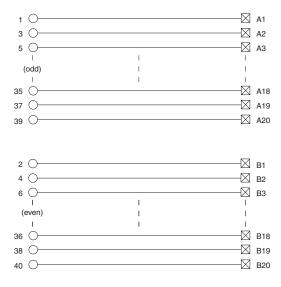
Feed-Through Standard 132V AC/DC



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.

Pinout



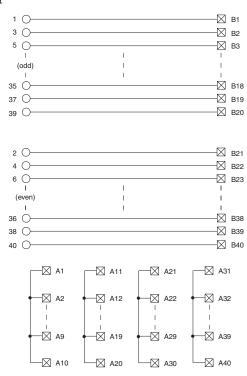
1492-IFM40F-2 1492-RIFM40F-2

Feed-Through Extra Terminals (2 per I/O) 132V AC/DC



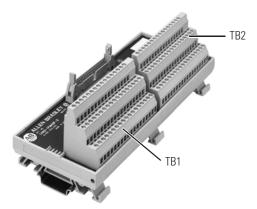
Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Isolation The power bus is isolated into four groups of 10 terminals. This allows each group of the I/O devices to reference a different power source.
- 4. Dimensions Refer to page 187.



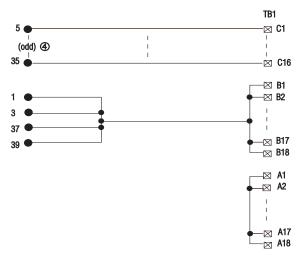
1492-IFM40F-3

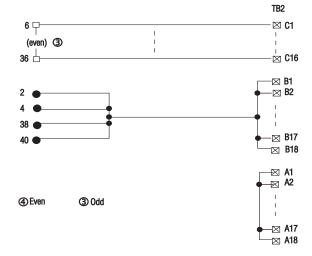
Feed-Through 3-Wire Sensor Type Input Devices 60V AC/DC



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power busses are isolated into two groups of 18 terminals. This allows the input devices connected to the left field-side terminal block to reference a different power source than the input devices connected to the right field-side terminal block.
- 4. Dimensions Refer to page 187.





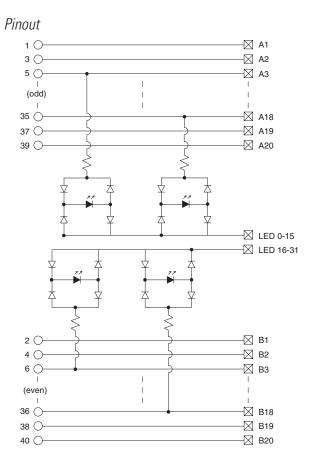
1492-IFM40D24 1492-RIFM40D24

LED Indicating Standard with 24V AC/DC LEDs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring The LEDs are powered off the two-position terminal block. Make only one connection to the power source for normal operation. Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The LEDs are connected to one common. All of the I/O devices used must reference the same power source.
- **4. Dimensions** Refer to page 187.



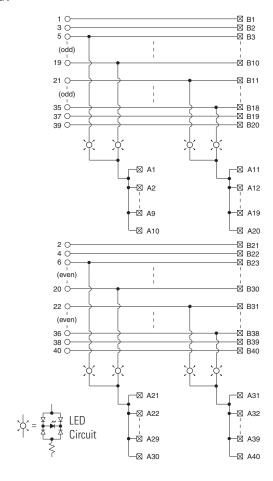
1492-IFM40D24-2

LED Indicating 24V AC/DC LEDs and Extra Terminals for Outputs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power bus and LEDs are isolated into four groups of 10 terminals (eight LEDs). This allows each group of output devices to reference a different power source.
- 4. Dimensions Refer to page 187.



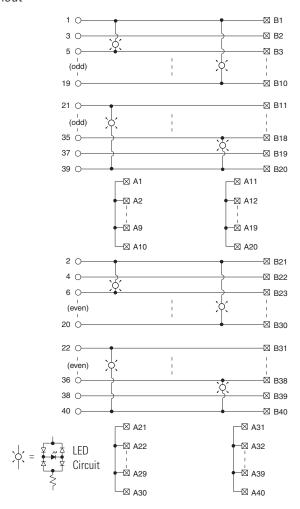
1492-IFM40D24A-2 1492-RIFM40D24A-2

LED Indicating 24V AC/DC LEDs and Extra Terminals for Inputs



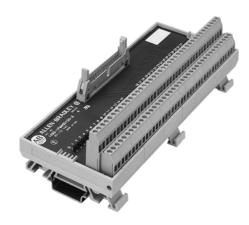
Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power bus and LEDs are isolated into four groups of 10 terminals (eight LEDs). This allows each group of input devices to reference a different power source.
- 4. Dimensions Refer to page 187.



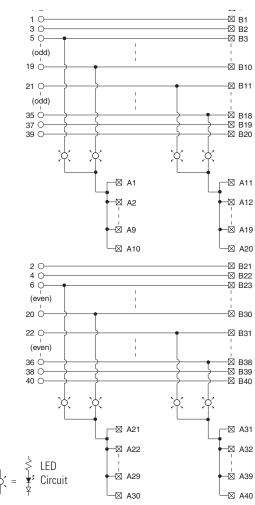
1492-IFM40D120-2

LED Indicating 120V AC LEDs and Extra Terminals for Outputs



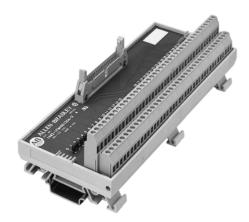
Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Isolation The power bus and LEDs are isolated into four groups of 10 terminals (eight LEDs). This allows each group of output devices to reference a different power source.
- 4. Dimensions Refer to page 187.



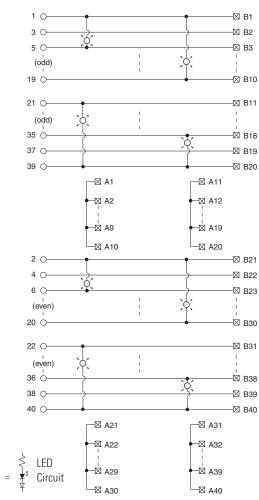
1492-IFM40D120A-2

LED Indicating 120V AC LEDs and Extra Terminals for Inputs



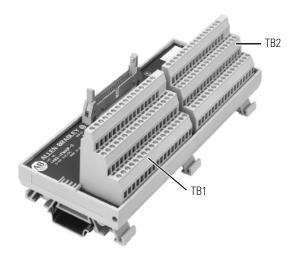
Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation The power bus and LEDs are isolated into four groups of 10 terminals (eight LEDs). This allows each group of input devices to reference a different power source.
- 4. Dimensions Refer to page 187.



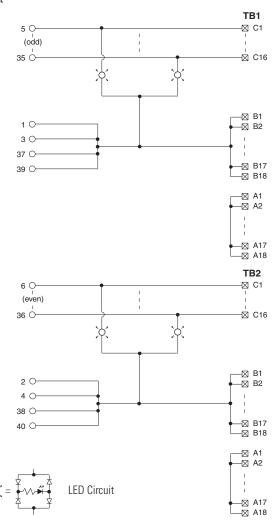
1492-IFM40D24-3

LED Indicating 3-Wire Sensor with 24V AC/DC LEDs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Isolation The power busses and LEDs are isolated into two groups of 18 terminals (16 LEDs). This allows the input devices connected to the left field-side terminal block to reference a different power source than the input devices connected to the right field-side terminal block.
- **4. Dimensions** Refer to page 187.



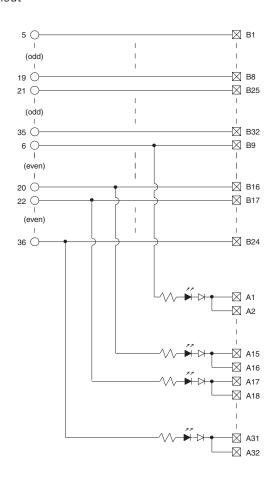
1492-IFM40DS24-4

LED Indicating 16 Individually Isolated with 24/48V AC/DC LEDs and 4 Terminals/Output



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. **Isolation** There are 16 individually isolated channels. LED returns are individually isolated.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- 5. Dimensions Refer to page 187.



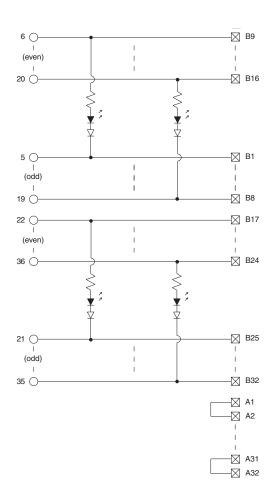
1492-IFM40DS24A-4

LED Indicating 16 Individually Isolated with 24V AC/DC LEDs and 4 Terminals/Input



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Isolation There are 16 individually isolated channels. LED returns are individually isolated.
- **4.** Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- **5. Dimensions** Refer to page 187.



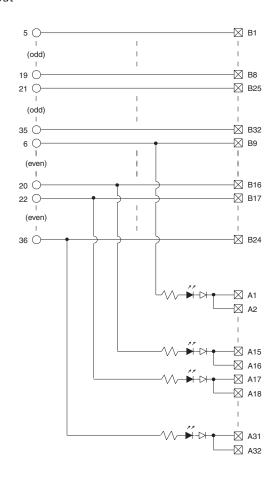
1492-IFM40DS120-4

LED Indicating 16 Individually Isolated with 120V AC and 4 Terminals/Output



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. **Isolation** There are 16 individually isolated channels. LED returns are individually isolated.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- **5. Dimensions** Refer to page 187.



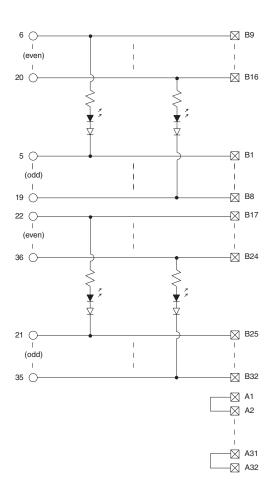
1492-IFM40DS120A-4

LED Indicating 16 Individually Isolated with 120V AC LEDs and 4 Terminals/Input



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. **Isolation** There are 16 individually isolated channels. LED returns are individually isolated.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- **5. Dimensions** Refer to page 187.



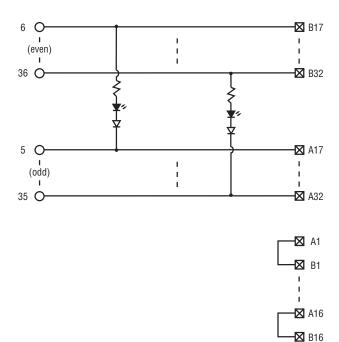
1492-IFM40DS240A-4

LED Indicating 16 Individually Isolated with 240V AC LEDs and 4 Terminals/Input



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. **Isolation** There are 16 individually isolated channels. LED returns are individually isolated.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- 5. Dimensions Refer to page 187.



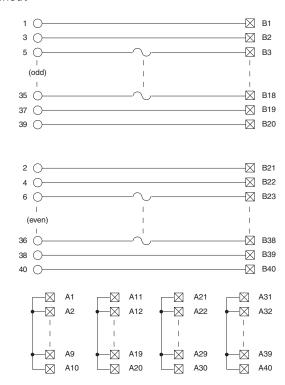
1492-IFM40F-F-2

Fusible 120V AC/DC with Extra Terminals for Outputs



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus and fuse clips are isolated into four groups of 10 terminals (eight fuse clips). This allows each group of output devices to reference a different power source.
- 5. Dimensions Refer to page 187.



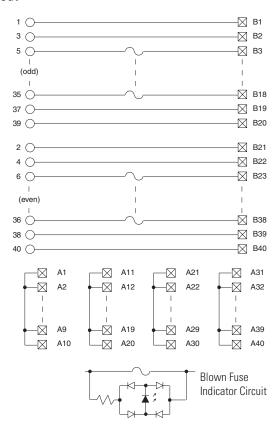
1492-IFM40F-F24-2 1492-RIFM40F-F24-2

Fusible Extra Terminals with 24V AC/DC Blown Fuse LED Indicators for Outputs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus, fuse clips, and blown fuse indicators are isolated into four groups of 10 terminals (eight fuse clips and blown fuse indicators). This allows each group of output devices to reference a different power source.
- 5. Dimensions Refer to page 187.



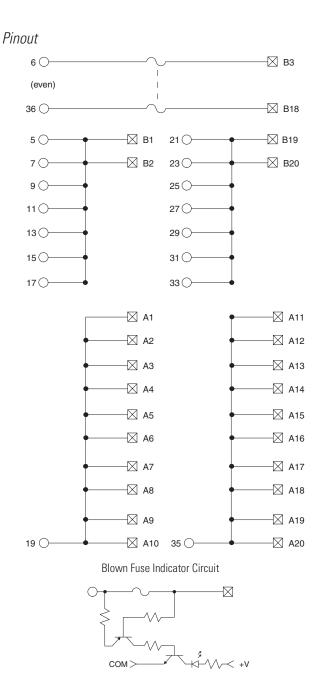
1492-IFM40F-F24D-2

16 Individually fused with 24V DC blown fuse low leakage (0.05 mA) LED circuit, 4 isolated groups, 2 terminals/output



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- **4. Isolation** Each point is individually fused. The fuse clips and blown fuse indicators are isolated into 4 groups of terminals. This allows use with 4 separate power supplies.
- 5. Dimensions Refer to page 187.



1492-IFM40F-F24AD-4

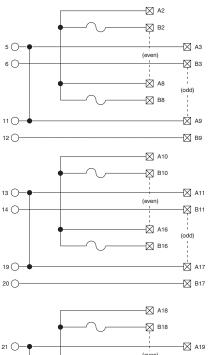
Individually Fused w/24V DC blown fuse low leakage (0.05 mA) LED circuit, 4 isolated groups, 4 terminals/input

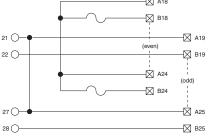


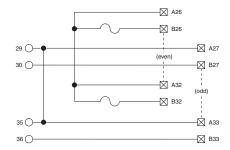
Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- 5. Isolation Each point is individually fused. The fuse clips and blown fuse indicators are isolated into 4 groups. This allows use of 4 separate power supplies.
- **6.** Dimensions Refer to page 187.

Pinout







Blown Fuse

Indicator Circuit

+DC

COM
A3 - A33 (ODD)

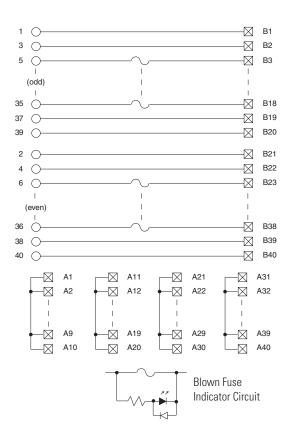
1492-IFM40F-F120-2

Fusible Extra Terminals with 120V AC/DC Blown Fuse LED Indicators for Outputs



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., an MOV wired across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The power bus, fuse clips, and blown fuse indicators are isolated into four groups of 10 terminals (eight fuse clips and blown fuse indicators). This allows each group of output devices to reference a different power source.
- 5. Dimensions Refer to page 187.



1492-IFM40F-FS-2

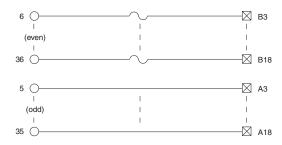
Fusible 16 Individually Isolated with Extra Terminals for 120V AC/DC Outputs



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. **Isolation** The fuse clips are isolated into 16 groups of terminals. This allows each output device to reference a different power source.
- 5. Dimensions Refer to page 187.

Pinout



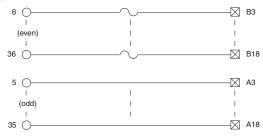
1492-IFM40F-FS24-2

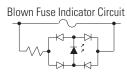
Fusible 16 Individually Isolated with Extra Terminals and 24V AC/DC Blown Fuse LED Indicators for Outputs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- **4. Isolation** The fuse clips and blown fuse indicators are isolated into 16 groups of terminals. This allows each output device to reference a different power source.
- **5. Dimensions** Refer to page 187.





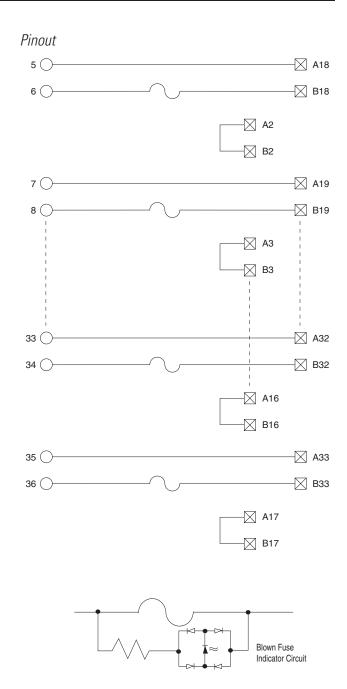
1492-IFM40F-FS24-4

Fusible Individually Isolated with 24V AC/DC Blown Fuse Indicators and 4 Terminals/Output



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load or an MOV for AC loads).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing 20 fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- Isolation The fuse clips and blown fuse indicators are isolated into 16 groups of terminals. This allows each output device to reference a different power source.
- **6.** Dimensions Refer to page 187.



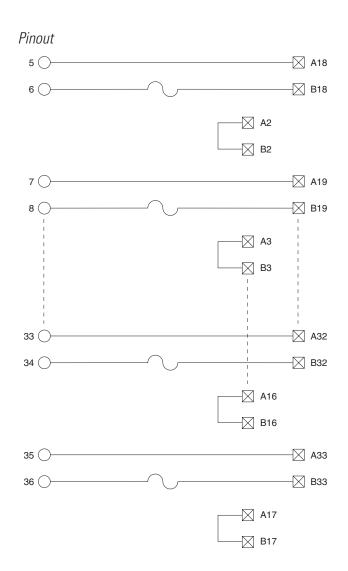
1492-IFM40F-FS-4

Fusible 16 Individually Isolated 240V AC/DC with 4 Terminals/Output



:Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load or an MOV for AC loads).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing 20 fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- 5. **Isolation** The fuse clips are isolated into 16 groups of terminals. This allows each output device to reference a different power source.
- **6.** Dimensions Refer to page 187.



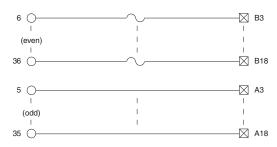
1492-IFM40F-FS120-2 1492-RIFM40F-FS120-2

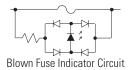
Fusible 16 Individually Isolated with Extra Terminals and 120V AC/DC Blown Fuse LED Indicators for Outputs



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load or an MOV across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Isolation The fuse clips and blown fuse indicators are isolated into 16 groups of terminals. This allows each output device to reference a different power source.
- **5.** Dimensions Refer to page 187.



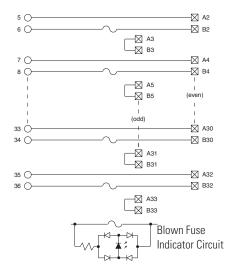


1492-IFM40F-FS120-4 1492-IFM40F-FS120-4

Fusible 16 Individually Isolated with 120V AC/DC Blown Fuse LED Indicators & 4 Terminals/Output



Pinout



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load or an MOV across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- Isolation The fuse clips and blown fuse indicators are isolated into 16 groups of terminals. This allows each output device to reference a different power source.
- **6.** Dimensions Refer to page 187.

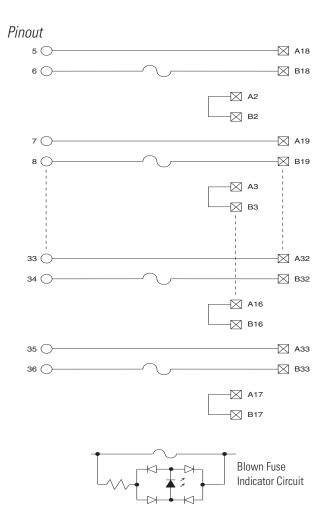
1492-IFM40F-FS240-4

Fusible 16 Individually Isolated with 240V AC/DC Blown Fuse LED Indicators & 4 Terminals/Output



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM. When this IFM is used with a hard contact (relay) output circuit that switches an inductive load, surge suppression must be used (e.g., a 1N4004 diode reverse-wired across a DC load or an MOV across an AC load).
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- Isolation The fuse clips and blown fuse indicators are isolated into 16 groups of terminals. This allows each output device to reference a different power source.
- **6.** Dimensions Refer to page 187.



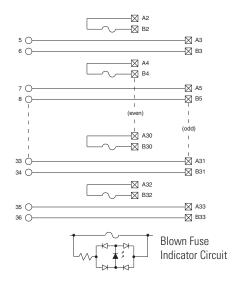
1492-IFM40F-FS24A-4

Fusible 16 Individually Isolated 24V AC/DC with 4 Terminals/Input



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- Isolation The fuse clips and blown fuse indicators are isolated into 16 groups of terminals. This allows each input device to reference a different power source.
- **6. Dimensions** Refer to page 187.



1492-IFM40F-FSA-4

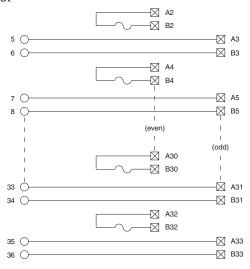
Fusible 16 Individually Isolated 120V AC/DC 4 Terminals/Input



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- 5. **Isolation** The fuse clips are isolated into 16 groups of terminals. This allows each input device to reference a different power source.
- 6. Dimensions Refer to page 187.

Pinout



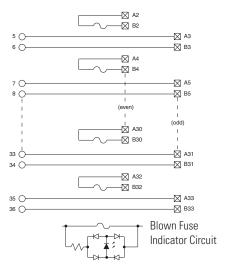
1492-IFM40F-FS120A-4 1492-RIFM40F-FS120A-4

Fusible 16 Individually Isolated with 120V AC/DC Blown Fuse LED Indicators & 4 Terminals/Input



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- Isolation The fuse clips and blown fuse indicators are isolated into 16 groups of terminals. This allows each input device to reference a different power source.
- **6. Dimensions** Refer to page 187. *Pinout*



1492-IFM40F-FS240A-4

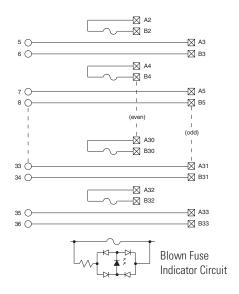
Fusible 16 Individually Isolated with 240V AC/DC Blown Fuse LED Indicators and 4 Terminals/Input



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the IFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the IFM. Fuses (5 x 20 mm) are not included.
- 4. Extra Terminals Two field-side terminals are internally connected on the IFM for each channel, and are available for power source common connections.
- Isolation The fuse clips and blown fuse indicators are isolated into 16 groups of terminals. This allows each input device to reference a different power source.

Dimensions — Refer to page 187.



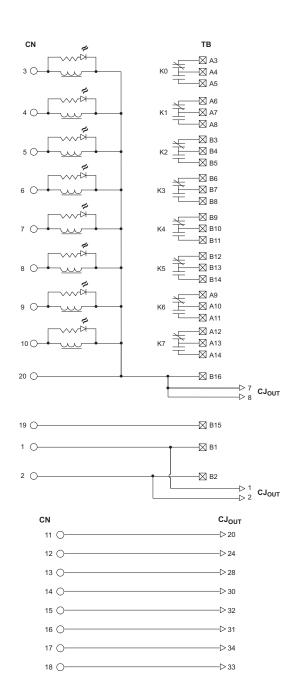
1492-XIM2024-8R

Relay Master (LED Indicating) 20-Pin Master with Eight (8) 24V DC Relays



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.
- **4.** Maximum Relay Switching Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. With expansion module and cable (included with expansion module) can expand to 16 relays.



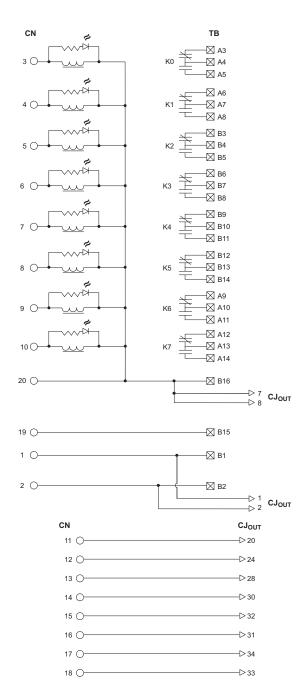
1492-XIM20120-8R

Relays Masters (LED Indicating) 20-Pin Master with Eight (8) 120V AC Relays



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.
- 4. Maximum Relay Switching Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. With expansion module and cable (included with expansion module) can expand to 16 relays.



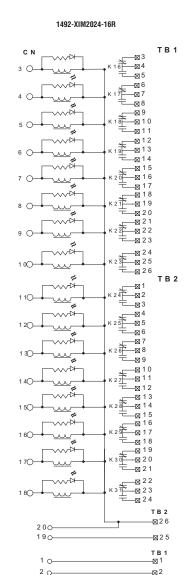
1492-XIM2024-16R

Relays Master (LED Indicating) 20-Pin Master with Sixteen (16) 24V DC Relays



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.
- 4. Maximum Relay Switching Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. No expansion capability.



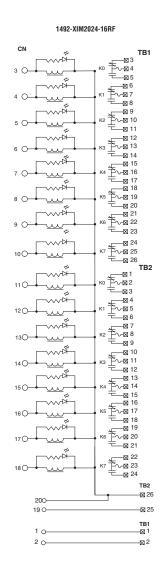
1492-XIM2024-16RF

Relay Master (LED Indicating) 20-Pin Master with Sixteen (16) 24V DC Relays with Fusing



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to 187.
- **4. Maximum Relay Switching** Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. No expansion capability.



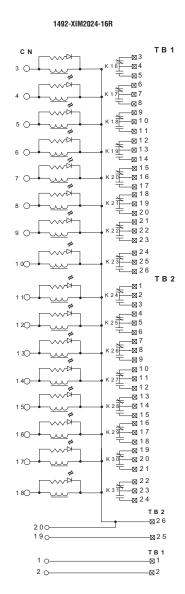
1492-XIM20120-16R

Relay Master (LED Indicating) 20-Pin Master with Sixteen (16) 120V AC Relays



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.
- **4.** Maximum Relay Switching Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. No expansion capability.



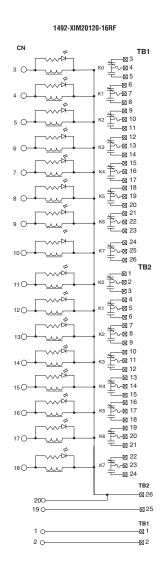
1492-XIM20120-16RF

Relay Master (LED Indicating) 20-Pin Master with Sixteen (16) 120V AC Relays with Fusing



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.
- 4. Maximum Relay Switching Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. No expansion capability.



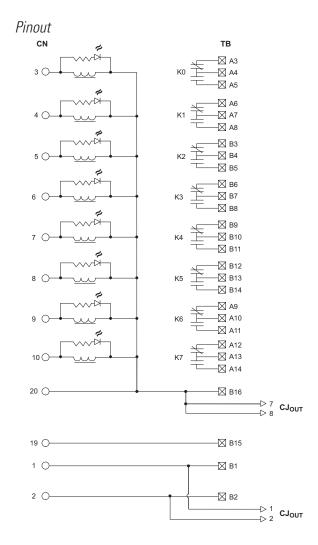
1492-XIM4024-8R

Relay Master (LED Indicating) 40-Pin Master with Eight (8) 24V DC Relays



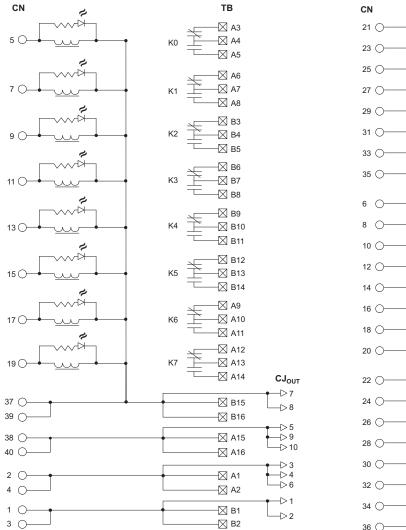
Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.
- 4. Maximum Relay Switching Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. With expansion module(s) and cable (included with expansion module) can expand to 32 relays.



1492-XIM4024-8R, Continued

Pinout, Continued



CN	CJ _{ou}
21 🔾	———— ≥20
23 🔾	
25 🔾	——⇒28
27 🔾	
29 🔾	
31 🔾	
33 🔾	
35 🔾	
6 🔾	———D 12
8 🔾	——D 11
10 🔾	
12 🔾	——D 13
14 🔾	
16 🔾	——D 15
18 🔾	
20 🔾	
22 🔾	——⇒22
24 🔾	———D≥26
26 🔾	——D 19
28 🔾	——>21
30 🔾	
32 🔾	—— > 25
34 〇	—— > 27
36 (

1492-XIM4024-16R 1492-RXIM4024-16R

Relay Master (LED Indicating) 40-Pin Master with Sixteen (16) 24V DC Relays



Application Notes

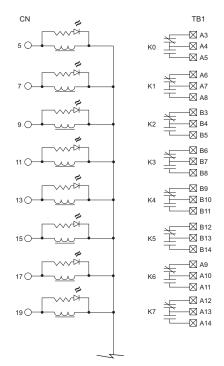
- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.
- **4.** Maximum Relay Switching Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. With expansion module(s) and cable(s) (included with expansion module) can expand to 32 relays.

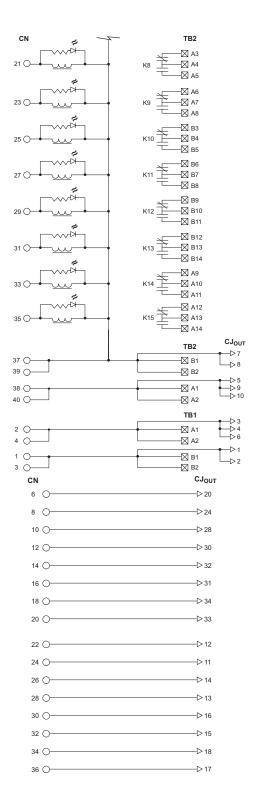
Pinout

Refer to page 125.

1492-XIM4024-16R 1492-RXIM4024-16R, Continued

Pinout, Continued





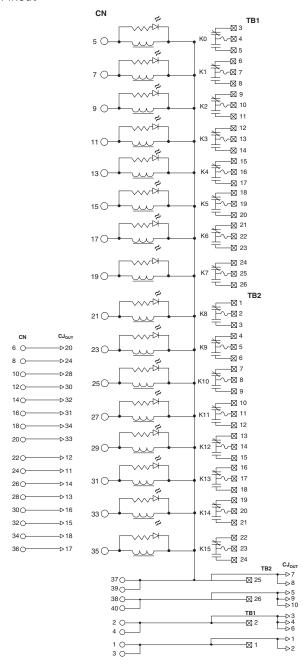
1492-XIM4024-16RF

Relay Master (LED Indicating) 40-Pin Master with Sixteen (16) 24V DC Relays with Fusing



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Dimensions Refer to page 187.
- 4. Maximum Relay Switching Refer to page 192.
- 5. LEDs provide PLC output ON/OFF indication.
- 6. With expansion module(s) and cable(s) (included with expansion module) can expand to 32 relays.



1492-XIM24-8R 1492-RXIM24-8R

Relay Expander (LED Indicating) with Eight (8) 24V DC Relays



Application Notes

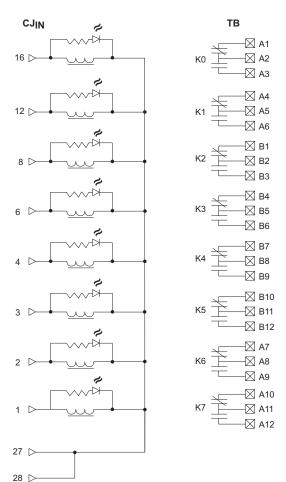
- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. This relay expander must be used with a 24V DC relay master.
- 4. Dimensions Refer to page 187.
- 5. Maximum Relay Switching Refer to page 192.
- 6. LEDs provide PLC output ON/OFF indication.

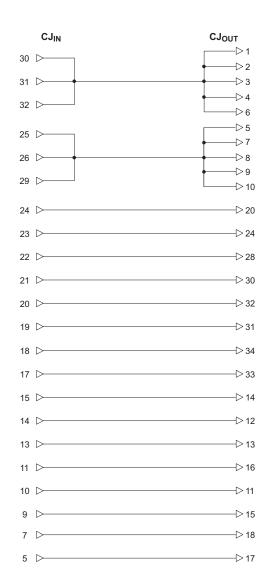
Pinout

Refer to page 128.

1492-XIM24-8R, Continued 1492-RXIM24-8R, Continued

Pinout, Continued





1492-XIM120-8R

Relay Expander (LED Indicating) with Eight (8) 120V AC Relays



Application Notes

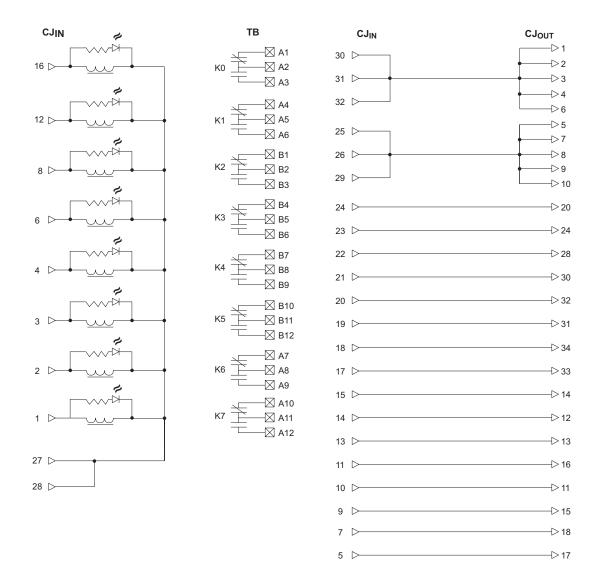
- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. This relay expander must be used with a 120V AC relay master.
- 4. Dimensions Refer to page 187.
- 5. Maximum Relay Switching Refer to page 192.
- **6.** LEDs provide PLC output ON/OFF indication.

Pinout

Refer to page 130.

1492-XIM120-8R, Continued

Pinout, Continued



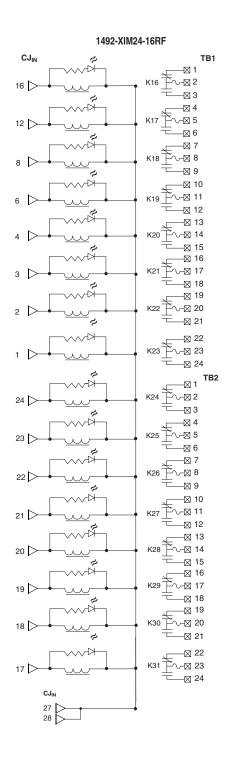
1492-XIM24-16RF

Expander with Sixteen (16) 24V DC Relays with Fusing



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. This relay expander must be used with a 24 VDC relay master.
- **4. Dimensions** Refer to page 187.
- 5. Maximum Relay Switching Refer to page 192.
- 6. LEDs provide PLC output ON/OFF indication.



1492-XIMF-F24-2

Fusible 8-Channel Expander with 24V DC Blown Fuse Indicators



Application Notes

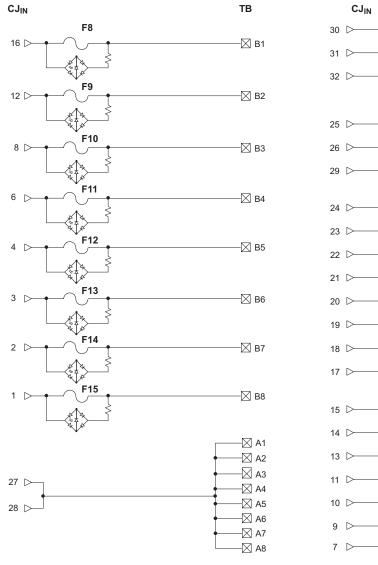
- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Extra Terminals Eight field-side terminals are jumpered together on the XIM. For some I/O modules, the terminals are also internally connected to module common through the prewired cable. Refer to the XIM and CABLE pinouts.
- **4. Dimensions** Refer to page 187.
- 5. LEDs provide blown fuse indication.

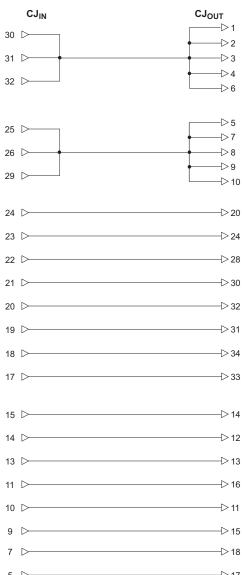
Pinout

Refer to page 133.

1492-XIMF-F24-2, Continued

Pinout, Continued





1492-XIMF-F120-2

Fusible 8-Channel Expander with 120V AC Blown Fuse Indicators



Application Notes

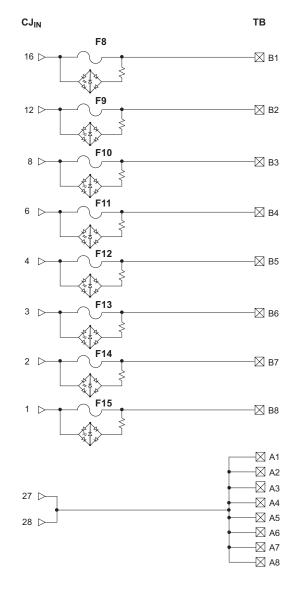
- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Extra Terminals Eight field-side terminals are jumpered together on the XIM. For some I/O modules, the terminals are also internally connected to module common through the prewired cable. Refer to the XIM and CABLE pinouts.
- 4. Dimensions Refer to page 187.
- **5.** LEDs provide blown fuse indication.

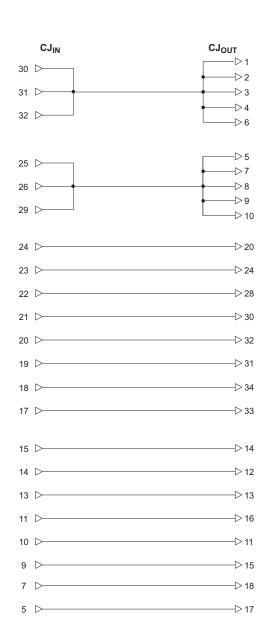
Pinout

Refer to page 135.

1492-XIMF-F120-2, Continued

Pinout, Continued





1492-XIMF-2

Expander with Eight (8) Feed-Through Channels



Application Notes

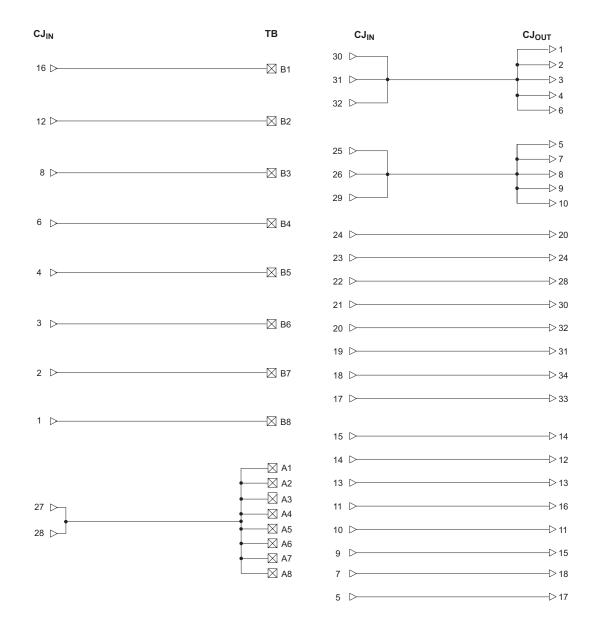
- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the XIM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Extra Terminals Eight field-side terminals are jumpered together on the XIM. For some I/O modules, the terminals are also internally connected to module common through the prewired cable. Refer to the XIM and CABLE pinouts.
- **4. Dimensions** Refer to page 187.

Pinout

Refer to page 137.

1492-XIMF-2, Continued

Pinout, Continued

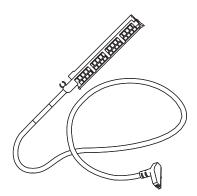


Digital Cable Specifications

Bulletin 1492 pre-wired cables are designed to minimize control wiring in a panel. Digital pre-wired cables, when used with an IFM or XIM, replace the point-to-point wiring between Allen-Bradley programmable controller I/O modules and individual terminal blocks. The digital ready-to-wire cables provide one end of the cable pre-terminated, for either an IFM (IFM-ready cable) or a programmable controller I/O module (I/O module-ready cable).

Pre-Wired Cables

Specifications



The pre-wired cables have a Bulletin 1746 Removable Terminal Block, 1756 Removable Terminal Block, 1769 Removable Terminal Block, or 1771 Wiring Arm on one end and a cable connector on the other to connect to the IFM or XIM. The broad offering of digital pre-wired cables supports over 100 different 16- and 32-point Bulletin 1746, 1756, 1769, 1794, and 1771 digital I/O modules.

Pre-Wired Cables, Continued

Digital Pre-Wired Cable Specifications

Catalog Number	Standard Cable Lengths	Insulation Rating	No. of Conductors	Conductor Size	Nominal Outer Diameter	I/O Module Connector
1492-CABLE ● A	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25R Red Removable Terminal Block
1492-CABLE ● B	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25B Blue Removable Terminal Block
1492-CABLE ● C	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25R Red Removable Terminal Block
1492-CABLE●CR	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25R Red Removable Terminal Block
1492-CABLE ● D	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25C Orange Removable Terminal Block
1492-CABLE ● E	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25B Blue Removable Terminal Block
1492-CABLE ● F	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1771-WH (16-Point/21 Terminal) Wiring Arm
1492-CABLE ● FF	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1771-WHF (16-Point/21 Terminal) Fused Wiring Arm
1492-CABLE ● G	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25R Red Removable Terminal Block
1492-CABLE ● H	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1746-N3 40-Pin Cable Connector
1492-CABLE ● J	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1771-WN (32-Point/40 Terminal) Wiring Arm
1492-CABLE ● K	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1771-WN (32-Point/40 Terminal) Wiring Arm
1492-CABLE ① L	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1771-WN (32-Point/40 Terminal) Wiring Arm
1492-CABLE ⊕ M	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1771-WN (32-Point/40 Terminal) Wiring Arm
1492-CABLE ● N	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25C Orange Removable Terminal Block
1492-CABLE ● R	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1771-WN (32-Point/40 Terminal) Wiring Arm
1492-CAB ① R71	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1771-WN (32-Point/40 Terminal) Wiring Arm
1492-CABLE ● S	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1746-RT25C Orange Removable Terminal Block
1492-CABLE ● T	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	11.7 mm (0.46 in.)	1771-WA (8-Point/10 Terminal) Wiring Arm
1492-CABLE ● U	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1756-TBNH Removable Terminal Block
1492-CABLE ● V	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1756-TBNH Removable Terminal Block
1492-CABLE ⊕ W	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1756-TBNH Removable Terminal Block
1492-CABLE ⊕ X	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1756-TBNH Removable Terminal Block
1492-CABLE ● Y	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1756-TBCH Removable Terminal Block
1492-CABLE ● Z	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1756-TBCH Removable Terminal Block
1492-CAB ① A62	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1762-L40xxx Input Terminal
1492-CAB ① B62	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1762-L40xxx Output Terminal
1492-CAB ① A64	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1764-24AWA, -24BWA Input Terminal
1492-CAB ① B64	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1764-28BXB Input Terminal
1492-CAB ① C64	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1764-24AWA, -24BWA Output Terminal
1492-CAB ① F64	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1764-28BXB Output Terminal
1492-CAB ● A69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block
1492-CAB ● B69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block
1492-CAB ① C69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN10 Removable Terminal Block
1492-CAB ● D69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block
1492-CAB ● E69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block
1492-CAB ● F69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block
1492-CAB ● G69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block
1492-CAB ● H69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block

Digital Pre-Wired Cable Specifications (Continued)

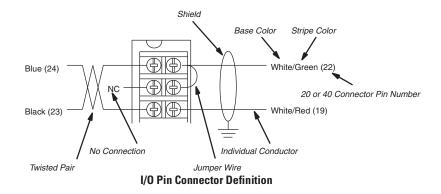
Catalog Number	Standard Cable Lengths	Insulation Rating	No. of Conductors	Conductor Size	Nominal Outer Diameter	I/O Module Connector
1492-CAB ⊕ J69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.1 mm (0.46 in.)	(2) 1769-RTBN18 Removable Terminal Block
1492-CAB ● K69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.1 mm (0.46 in.)	(2) 1769-RTBN18 Removable Terminal Block
1492-CAB ⊕ L69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block
1492-CAB ● M69	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1769-RTBN18 Removable Terminal Block
1492-CAB ⊕ A7H	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	20C-DA1-A and 20C-D01 Terminals
1492-CAB ● A7S	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	20C-DB1-A and 20C-D01 Terminals
1492-CAB ⊕ B7H	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	TB2
1492-CAB ● A94	0.5, 1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	37-Pin male D-shell ❷
1492-CAB ⊕ B94	0.5, 1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	62-Pin male D-shell ③

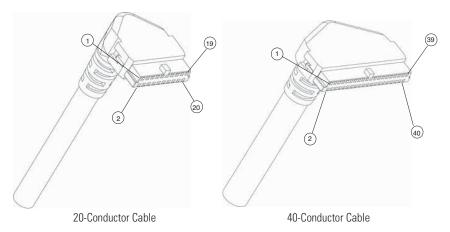
- Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE005A is for a 0.5 m cable for the 1746-IA16 I/O Module. Also refer to Build-to-Order Length Cables on page 65.
- Mates with 1794 Flex D-shell style base: 1794-TB37DS
 Mates with 1794 Flex D-shell style base: 1794-TB62DS

Pinouts

Digital Pre-Wired Cables

The following diagrams illustrate how the individual conductors in the digital pre-wired cables are terminated at both ends. The description listed first is the wire color of the conductor connected to the PLC or PowerFlex drive removable terminal block (Bulletin 1746, 1756, 1762, 1764, 1769, 700S and 700H I/O) wiring arm (1771 I/O) or D-shell connector (Cat. No. 1794-TB37DS or 1794-62DS). The number that follows in parentheses is the corresponding pin number of the IFM/XIM mating connector.

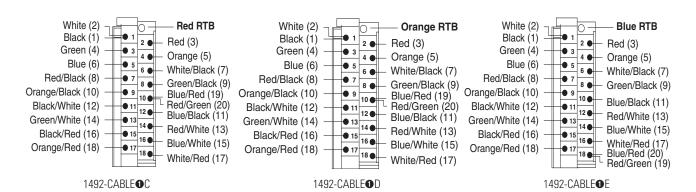


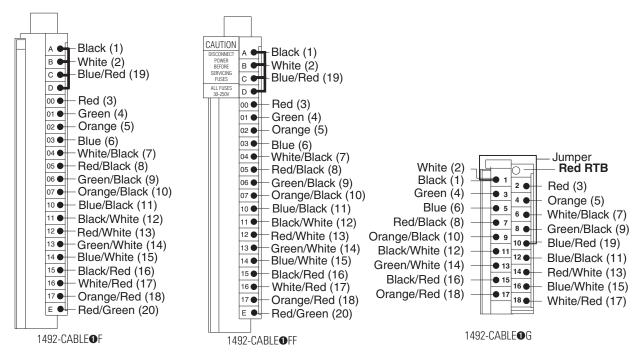


IFM Mating Connector Definition

Pinouts, Continued

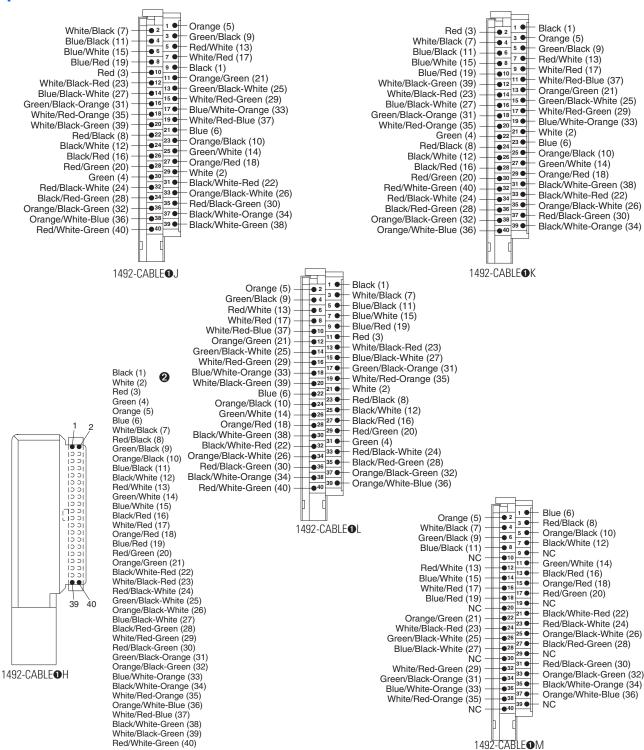






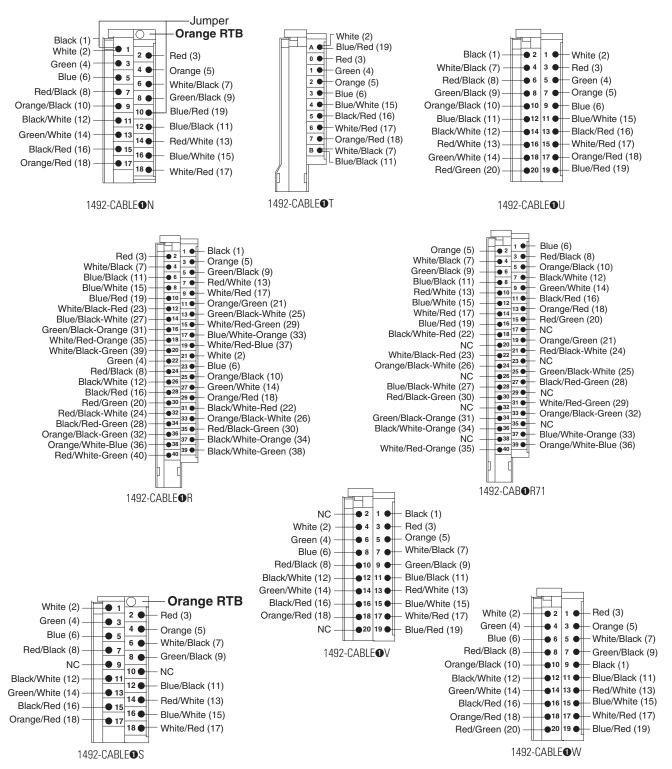
Refer to footnote on page 149.

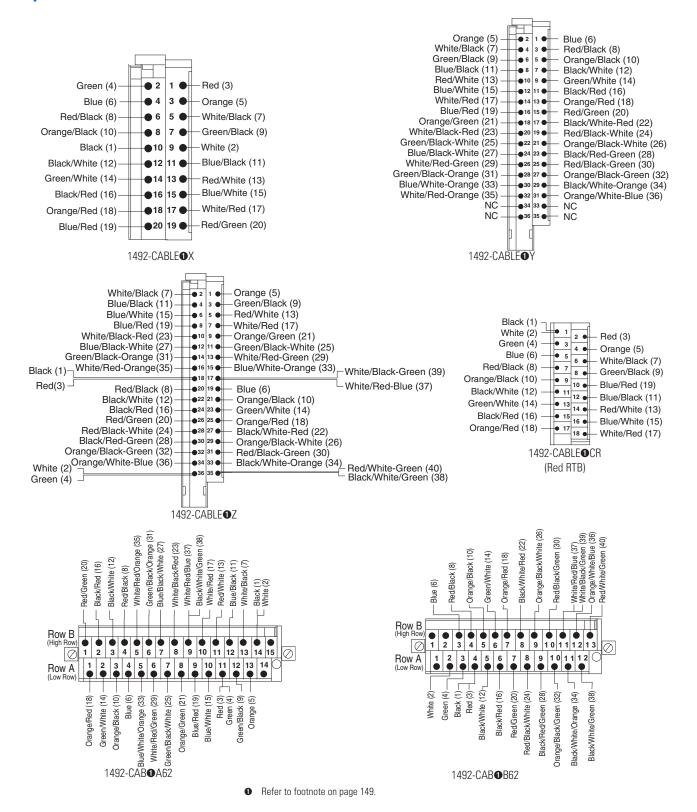
Pinouts, Continued



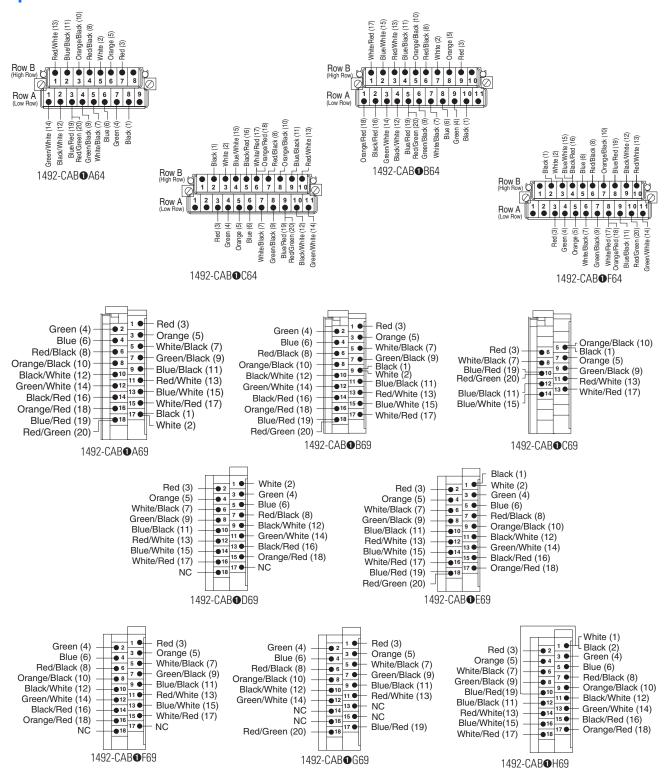
- Refer to footnote on page 149.
- Connector Pin reference. For the IFM end reference, refer to the table on page 151 and match the wire color to the IFM Pin reference number.

Pinouts, Continued

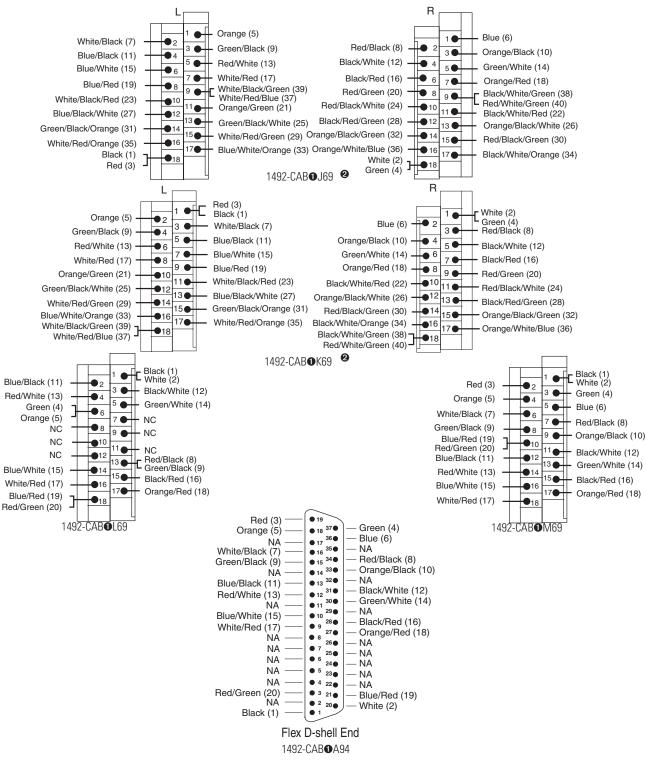




Digital Cable Pinouts, Continued Specifications, Continued



• Refer to footnote on page 149.



- Refer to footnote on page 149.
- 1492-CAB

 K69 and 1492-CAB

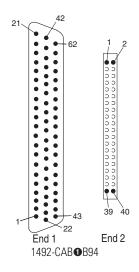
 J69 are made up of two (2) individual 18-pin terminal blocks connected to a single cable assembly.

 Output

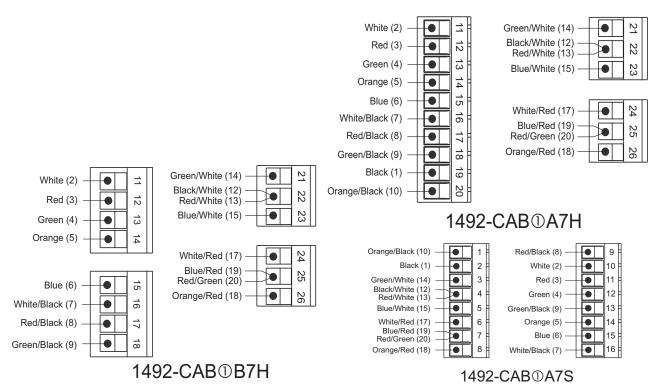
 Description:

 Descrip

Pinouts, Continued



	Cable Wi	iring Table Conduc	tor for 1492-CAB	1 B94	
Connector 62 Pin D–Shell Reference, End 1	Conductor Color Code	Connectors 40- Pin Reference, End 2	Connector 62 Pin D-Shell Reference, End 1	Conductor Color Code	Connectors 40-Pin Reference, End 2
15	Black	1	39	Orange/Green	21
23	White	2	28	Black/White/Red	22
16	Red	3	40	White/Black/Red	23
24	Green	4	29	Red/Black/White	24
17	Orange	5	41	Green/Black/White	25
4	Blue	6	45	Orange/Black/White	26
18	White/Black	7	42	Blue/Black/White	27
5	Red/Black	8	46	Black/Red/Green	28
19	Green/Black	9	59	White/Red/Green	29
6	Orange/Black	10	47	Red/Black/Green	30
20	Blue/Black	11	60	Green/Black/Orange	31
7	Black/White	12	48	Orange/Black/Green	32
21	Red/White	13	61	Blue/White/Orange	33
8	Green/White	14	49	Black/White/Orange	34
36	Blue/White	15	62	White/Red/Orange	35
25	Black/Red	16	50	Orange/White/Blue	36
37	White/Red	17	57	White/Red/Blue	37
26	Orange/Red	18	1	Black/White/Green	38
38	Blue/Red	19	58	White/Black/Green	39
27	Red/Green	20	2	Red/White/Green	40



• Refer to footnote on page 149.

I/O Module-Ready Cables



The I/O module-ready cables have a pre-wired wiring arm or removable terminal block on one end to connect the programmable controller I/O module and 12...40 individually colored #18 or #22 AWG conductors on the other. These cables provide the convenience of a pre-wired I/O module connector, while still allowing the flexibility to wire to standard terminal blocks.

Pre-wired I/O module connectors include:

- Catalog Number 1746-N3 40-point plug-in connector (Catalog Number CABLE®N3)
- Bulletin 1746 16-point removable terminal blocks in Red, Blue, and Orange (Catalog Number CABLEORTBR, ORTBB, ORTBO)
- Catalog Number 1756-TBCH 36-point removable terminal block (Catalog Number CABLE TBCH)
- Catalog Number 1756-TBNH 20-point removable terminal block (Catalog Number CABLE TBNH)
- Catalog Number 1769-RTBN10 8-point removable terminal block (Catalog Number CABLE®RTN10)
- Catalog Number 1769-RTBN18 20-point removable terminal block (Catalog Number CABLEORTN18)
- Catalog Number 1769-RTBN32I and 1769-RTBN320 for 32-point 1769
 I/O modules
- Catalog Number 1771-WH 16-point wiring arm (Catalog Number CABLEOWH)
- Catalog Number 1771-WN 32-point wiring arm (Catalog Number CABLEOWN)
- Catalog Number 1771-WHF 16-point fused wiring arm (with fuses) (Catalog Number CABLE WHF)
- Catalog Number 1771-WD 6-point wiring arm (Catalog Number CABLE WD)
- Catalog Number 1771-WA 8-point wiring arm (Catalog Number CABLEOWA)
- Cables are available in lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE025WH is for a 2.5 m cable with a pre-wired 1771-WH Wiring Arm on one end. Also refer to Build-to-Order Length Cables on page 65.

I/O Module-Ready Cables, Continued

I/O Module-Ready Cable Specifications

Catalog Number	Cable Lengths	Insulation Rating	Number of Conductors	Conductor Size	Nominal Outer Diameter	I/O Module Connector
1492-CABLE 1 N3	1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.2 mm (0.44 in.)	1746-N3 (40-Point) Plug-in Connector
1492-CABLEORTBB	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1746-RT25B Blue Removable Terminal Block
1492-CABLEORTBO	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1746-RT25C Orange Removable Terminal Block
1492-CABLEORTBR	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1746-RT25R Red Removable Terminal Block
1492-CABLE ● TBCH	1.0, 2.5, 5.0 m	300V 80°C	40	#18 AWG	14.1 mm (0.55 in.)	1756-TBCH (36-Point) Removable Terminal Block
1492-CABLE ● TBNH	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1756-TBNH (20-Point) Removable Terminal Block
1492-CAB ① T62	1.0, 2.5, 5.0 m	300V 80°C	25	#18 AWG	13.2 mm (0.52 in.)	1762-L40xxx Output Connector
1492-CAB ① X62	1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	1762-L40xxx Input Connector
1492-CAB ① T64	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1764-24AWA, -24BWA Output Terminal
1492-CAB ① U64	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1764-28BXB Output Terminal
1492-CAB ① W64	1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1764-24AWA, -BWA Input Terminal
1492-CAB ① X64	1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	1764-28BXBH Input Terminal
1492-CAB O RTN10	1.0, 2.5, 5.0 m	300V 80°C	12	#18 AWG	9.0 mm (0.36 in.)	1769-RTBN10 Removable Terminal Block
1492-CAB O RTN18	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1769-RTBN18 (20-Point) Removable Terminal Block
1492-CAB ① RTN32I	1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	(2) 1769-RTBN18 (20-Point) Removable Terminal Block
1492-CAB O RTN320	1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	(2) 1769-RTBN18 (20-Point) Removable Terminal Block
1492-CAB ① G94	1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	37-pin male D-shell ⊘
1492-CAB ① H94	1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	62-pin male D-shell ⊚
1492-CABLE 1 WA	1.0, 2.5, 5.0 m	300V 80°C	12	#18 AWG	9.0 mm (0.36 in.)	1771-WA (8-Point/10 Terminal) Wiring Arm
1492-CABLEOWD	1.0, 2.5, 5.0 m	300V 80°C	12	#18 AWG	9.0 mm (0.36 in.)	1771-WD (6-Point/12 Terminal) Wiring Arm
1492-CABLEOWH	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1771-WH (16-Point/21 Terminal) Wiring Arm
1492-CABLEOWHF	1.0, 2.5, 5.0 m	300V 80°C	20	#18 AWG	11.4 mm (0.45 in.)	1771-WHF (16-Point/21 Terminal) Fused Wiring Arm
1492-CABLEOWN	1.0, 2.5, 5.0 m	300V 80°C	40	#18 AWG	14.1 mm (0.55 in.)	1771-WN (32-Point/40 Terminal) Wiring Arm

Cables are available in lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE025WH is for a 2.5 m cable with a pre-wired 1771-WH Wiring Arm on one end. Also refer to Build-to-Order Length Cables on page 65.

Mates with Bul. 1794 Flex D-shell style base: Cat. No. 1794-TB37DS.

Mates with Bul. 1794 Flex D-shell style base: Cat. No. 1794-TB62DS.

I/O Module-Ready Cables, Continued

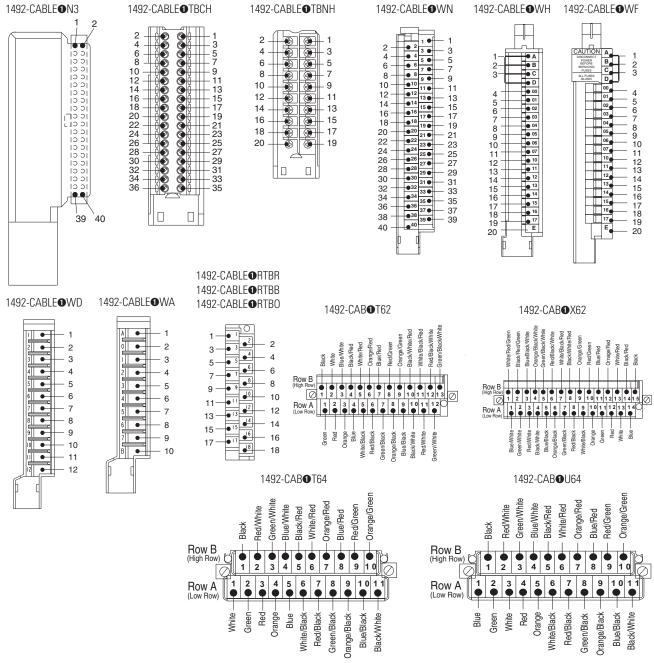
Wire Colors for I/O Module-Ready Cables $\,$ and IFM Pint Reference Number for I/O Ready Pre-Wired Cables $\,$

IFM Pin Reference Number	Wire Color Base/Stripe/Stripe	IFM Pin Reference Number	Wire Color Base/Stripe/Stripe
1	Black	21	Orange/Green
2	White	22	Black/White/Red
3	Red	23	White/Black/Red
4	Green	24	Red/Black/White
5	Orange	25	Green/Black/White
6	Blue	26	Orange/Black/White
7	White/Black	27	Blue/Black/White
8	Red/Black	28	Black/Red/Green
9	Green/Black	29	White/Red/Green
10	Orange/Black	30	Red/Black/Green
11	Blue/Black	31	Green/Black/Orange
12	Black/White	32	Orange/Black/Green
13	Red/White	33	Blue/White/Orange
14	Green/White	34	Black/White/Orange
15	Blue/White	35	White/Red/Orange
16	Black/Red	36	Orange/White/Blue
17	White/Red	37	White/Red/Blue
18	Orange/Red	38	Black/White/Green
19	Blue/Red	39	White/Black/Green
20	Red/Green	40	Red/White/Green

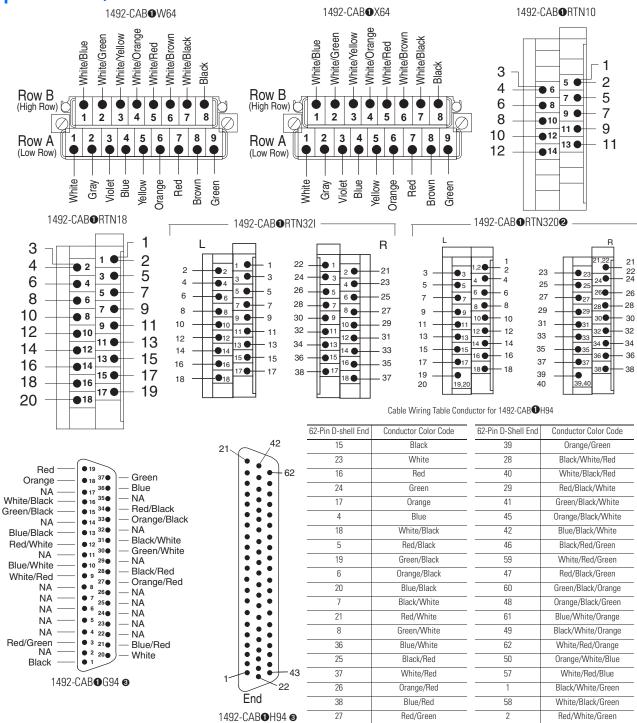
Cables are available in lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog
Number 1492-CABLE025WH is for a 2.5 m cable with a pre-wired 1771-WH Wiring Arm on one end. Also refer to Build-to-Order Length Cables on page 65.

I/O Module-Ready Cables, Continued

Below is the wire color table for I/O module-ready cables. Each conductor is given a reference number in the table on page 151. The reference number is used in the illustrations that follow to indicate the corresponding screw terminal.



- Cables are available in lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE025WH is for a 2.5 m cable with a pre-wired 1771-WH Wiring Arm on one end. Also refer to Build-to-Order Length Cables on page 65
- The 1492-CABRTN32F and -RTN320 are made up of two (2) individual 18-pin terminal blocks (L = Left, R=Right) connected to a single cable assembly.



- Cables are available in lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: Catalog Number 1492-CABLE025WH is for a 2.5 m cable with a pre-wired 1771-WH Wiring Arm on one end. Also refer to Build-to-Order Length Cables on page 65.
- The 1492-CAB●RTN32I and -RTN320 are made up of two (2) individual 18-pin terminal blocks (L = Left, R=Right) connected to a single cable assembly.
- Cable 1492-CAB G94 and -CAB H94 do not follow the cable wire color code chart on page 151.

IFM-Ready Cable Specifications



IFM-ready cables have a cable connector on one end to attach to the IFM and either 20 or 40 individually colored conductors on the other end (Catalog Numbers CABLE P and CABLE Q, respectively). These cables allow the IFM to be used in specialty applications that require a custom connection.

IFM-Ready Cable Specifications

Catalog Number	Cable Lengths	Insulation Rating	Number of Conductors	Conductor Size	Nominal Outer Diameter	Current/ Conductor	Compatible IFM Catalog Numbers
1492-CABLE ● P	1.0, 2.5, 5.0 m	300V 80°C	20	#22 AWG	9.0 mm (0.36 in.)	2 A	1492-IFM20 1492-XIM20
1492-CABLE ● Q	1.0, 2.5, 5.0 m	300V 80°C	40	#22 AWG	11.7 mm (0.46 in.)	2 A	1492-IFM40 1492-XIM40

Each colored conductor is connected to one pin of the molded cable connector as listed in the tables below.

1492-CABLE**O**P

Connector Pin Number	Wire Color Base/Stripe/Stripe	Connector Pin Number	Wire Color Base/Stripe/Stripe	
1	Black	11	Blue/Black	
2	White	12	Black/White	
3	Red	13	Red/White	
4	Green	14	Green/White	
5	Orange	15	Blue/White	
6	Blue	16	Black/Red	
7	White/Black	17	White/Red	
8	Red/Black	18	Orange/Red	
9	Green/Black	19	Blue/Red	
10	Orange/Black	20	Red/Green	

[•] Cables are available in lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-CABLE025P** is for a 2.5 m, 20 conductor IFM-ready cable. Also refer to Build-to-Order Length Cables on page 65.

IFM-Ready Cable Specifications, Continued

1492-CABLE**0**0

Connector Pin Number	Wire Color Base/Stripe/Stripe	Connector Pin Number	Wire Color Base/Stripe/Stripe	
1	Black	21	Orange/Green	
2	White	22	Black/White/Red	
3	Red	23	White/Black/Red	
4	Green	24	Red/Black/White	
5	Orange	25	Green/Black/White	
6	Blue	26	Orange/Black/White	
7	White/Black	27	Blue/Black/White	
8	Red/Black	28	Black/Red/Green	
9	Green/Black	29	White/Red/Green	
10	Orange/Black	30	Red/Black/Green	
11	Blue/Black	31	Green/Black/Orange	
12	Black/White	32	Orange/Black/Green	
13	Red/White	33	Blue/White/Orange	
14	Green/White	34	Black/White/Orange	
15	Blue/White	35	White/Red/Orange	
16	Black/Red	36	Orange/White/Blue	
17	White/Red	37	White/Red/Blue	
18	Orange/Red	38	Black/White/Green	
19	Blue/Red	39	White/Black/Green	
20	Red/Green	40	Red/White/Green	

[•] Cables are available in lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-CABLE025P** is for a 2.5 m, 20 conductor IFM-ready cable. Also refer to Build-to-Order Length Cables on page 65.

Analog IFM Specifications (1492-AIFM-xx and 1492-RAIFM-xx))

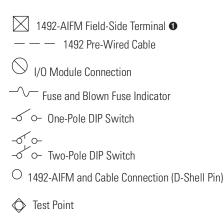
AIFM Catalog Number	Page No. for Application Notes, and Pinout	Page No. for Specifications	AIFM Catalog Number	Page No. for Application Notes, and Pinout	Page No. for Specifications	AIFM Catalog Number	Page No. for Application Notes, and Pinout	Page No. for Specifications
1492-AIFM8-3, -RAIFM8-3	158	188	1492-AIFM4C-F-5	160	188	1492-AIFM16-F-5	164	188
1492-AIFM4-3, -RAIFM4-3	157	188	1492-AIFM4I-F-5	161	188	1492-AIFMPI	166	188
1492-AIFM6S-3, -RAIFM6S-3	158	188	1492-AIFM8-F-5	162	188	1492-AIFMQS	165	188
1492-AIFM6TC-3	159	188	1492-AIFM16-F-3	163	188	_	_	_

For all AIFM dimensions, refer to page 187.

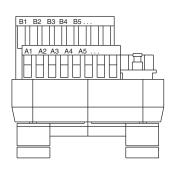
For general Adhesive Label Card information, refer to page 181.

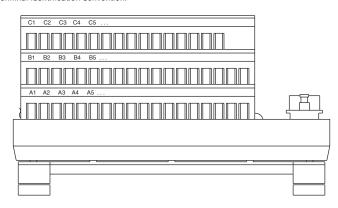
For Field-Side Wiring Diagrams, refer to the Wiring System web page at http://www.ab.com/raise. Refer to page 186 for specific platform web site information. Refer to the online documentation for new product information.

Symbols and Terminal Identification Conventions Used Throughout the Pinout Section



Field-Side Terminal Identification Convention:





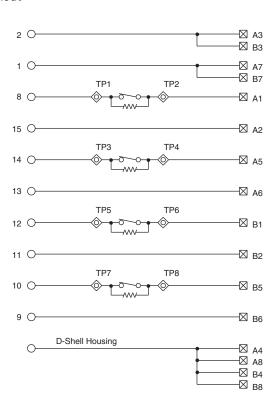
1492-AIFM4-3 1492-RAIFM4-3

Feed-Through 4-channel Input, Output or 2-in/2-out Combination with 3 Terminals/Channel



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. DIP Switches Selectable resistors are available to current limit the Catalog Numbers 1771-OFE2 and -OFE3 output circuits. By opening the switch (off or down position), 250 Ω series impedance is inserted into the output circuit. Default switch position is on/closed/no series impedance. Do not exceed maximum loop impedance of output module (1200 Ω for -OFE2; 450 Ω for -OFE3).
- 4. Test Points With optional 250 Ω series impedance in output circuit (refer to DIP Switches), test points can be used to measure loop voltage/current. Refer to the Pinout for test point circuit location.
- 5. Shield Terminals Four field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 6. Dimensions Refer to page 188.



1492-AIFM6S-3 1492-RAIFM6S-3

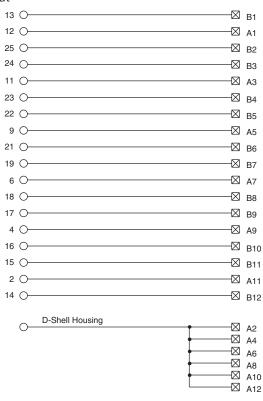
Feed-Through 6-Channel Isolated with 3...4 Terminals/Channel



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Shield Terminals Six field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- **4. Dimensions** Refer to page 187.

Pinout



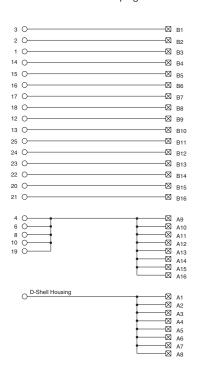
1492-AIFM8-3 1492-RAIFM8-3

Feed-Through 8-Channel Differential 16-Channel Single-Ended with 3 Terminals/Channel



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the AIFM.
- Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Extra Terminals Eight field-side terminals are jumpered together on the AIFM. For some I/O modules, the terminals are also internally connected to module common through the prewired cable. Refer to the AIFM and ACABLE pinouts.
- 4. Shield Terminals Eight field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 5. Dimensions Refer to page 187.



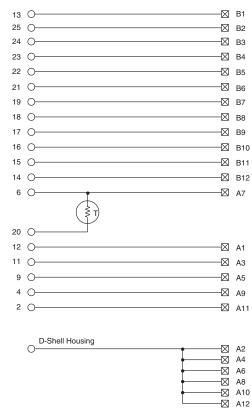
1492-AIFM6TC-3

Thermocouple 6-Channel with 3 Terminals/Channel



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- Shield Terminals Six field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 4. Cold Junction Compensation This AIFM contains on-board cold junction compensation (CTC) through a thermistor (T) and isothermal bar mounted to the field-side terminals. Do not install the cold junction sensor (provided with the Catalog Number 1756-IT6I or 1756-IT6I2 thermocouple input module) on the removable terminal block of the pre-wired cable. This module is NOT compatible with other PLC systems (e.g. bulletin numbers 1746, 1771, etc.) that do not have external CJC capability.
- **5. Dimensions** Refer to page 187.



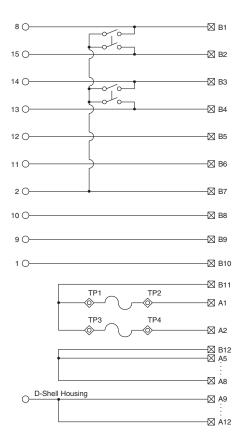
1492-AIFM4C-F-5

Fusible 2-channel Input, 2-Channel Output with 24V DC Blown Fuse Indicators, Test Points, 5 Terminals/Input, 3 Terminals/Output



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the AIFM. Fuses (5 x 20 mm) are not included. Do not exceed 2 A per input, 12 A per AIFM.
- 4. Isolation The fuse clips and blown fuse indicators are internally connected to one power source field-side terminal. All inputs must reference the same power source.
- 5. DIP Switches For ease of wiring, unused inputs can be jumpered to module common by closing the DIP switches (ON position) for analog modules that have this capability. Default switch position is OPEN/OFF/NOT jumpered together.
- 6. Test Points When using a two-wire transmitter, test points (TP1-TP2) can be used to measure input loop current. Refer to the Pinout for test point circuit location.
- 7. Extra Terminals Four field-side terminals are internally jumpered on the AIFM. They can be used for power source common connections.
- 8. Shield Terminals Four field-side terminals are jumpered together on AIFM and internally connected to the D-shell housing.
- 9. Dimensions Refer to page 187.



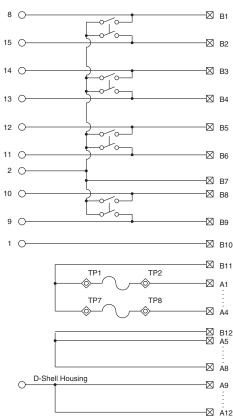
1492-AIFM4I-F-5

Fusible 4-Channel Input with 24V DC Blown Fuse Indicators, Test Points, 5 Terminals/Input



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the AIFM. Fuses (5 x 20 mm) are not included. Do not exceed 2 A per input, 12 A per AIFM.
- 4. Isolation The fuse clips and blown fuse indicators are internally connected to one power source field-side terminal. All inputs must reference the same power source.
- 5. DIP Switches For ease of wiring, unused inputs can be jumpered to module common by closing the DIP switches (ON position) for analog modules that have this capability. Default switch position is OPEN/OFF/NOT jumpered together.
- 6. Test Points When using a two-wire transmitter, test points (TP1-TP2) can be used to measure input loop current. Refer to the Pinout for test point circuit location.
- 7. Extra Terminals Four field-side terminals are internally jumpered on the AIFM. They can be used for power source common connections.
- 8. Shield Terminals Four field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 9. Dimensions Refer to page 187.



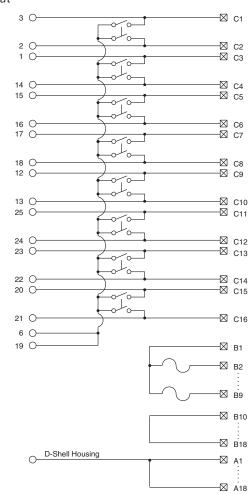
1492-AIFM8-F-5

Fusible 8-Channel Input with 24V DC Blown Fuse Indicators, 5 Terminals/Channel



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the AIFM. Fuses (5 x 20 mm) are not included. Do not exceed 2 A per input, 12 A per AIFM.
- 4. Isolation The fuse clips and blown fuse indicators are internally connected to one power source field-side terminal. All inputs must reference the same power source.
- DIP Switches For ease of wiring, unused inputs can be jumpered to module common by closing the DIP switches (ON position) for analog modules that have this capability. Default switch position is OPEN/OFF/NOT jumpered together.
- Extra Terminals Nine field-side terminals are internally jumpered on the AIFM. They can be used for power source common connections.
- 7. Shield Terminals Eighteen field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 8. Dimensions Refer to page 187.



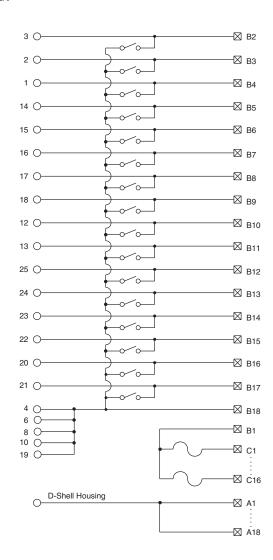
1492-AIFM16-F-3

Fusible 16-Channel Inputs with 24V DC Blown Fuse Indicators, 3 Terminals/Channel



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the AIFM. Fuses (5 x 20 mm) are not included. Do not exceed 2 A per input, 12 A per AIFM.
- 4. Isolation The fuse clips and blown fuse indicators are internally connected to one power source field-side terminal. All inputs must reference the same power source.
- DIP Switches For ease of wiring, unused inputs can be jumpered to module common by closing the DIP switches (ON position) for analog modules that have this capability. Default switch position is OPEN/OFF/NOT jumpered together.
- 6. Shield Terminals Eighteen field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 7. Dimensions Refer to page 187.



1492-AIFM16-F-5

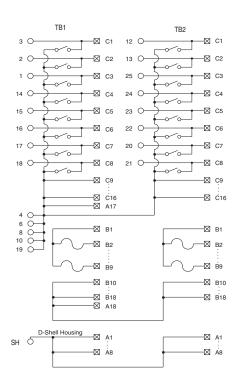
Fusible 16-Channel Input with 24V DC Blown Fuse Indicators, 5 Terminals/Channel



Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the AIFM. Fuses (5 x 20 mm) are not included. Do not exceed 2 A per input, 12 A per AIFM.
- 4. Isolation The fuse clips and blown fuse indicators are internally connected to two separate power source field-side terminals. All inputs within a group(TB1 or TB2) must reference the same power source.
- DIP Switches For ease of wiring, unused inputs can be jumpered to module common by closing the DIP switches (ON position) for analog modules that have this capability. Default switch position is OPEN/OFF/NOT jumpered together.

- 6. Extra Terminals Sixteen field-side terminals (C9...C16 on TB1 and TB2) are internally jumpered on the AIFM and connected to module common. Eighteen field-side terminals (B10...B18 on TB1 and TB2) are internally jumpered on the AIFM and can be used for power source common connections. There are two field-side terminals (A17 and A18 on TB1) that can be externally jumpered to connect the two groups of field-side terminals.
- 7. Shield Terminals Sixteen field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 8. Dimensions Refer to page 187.



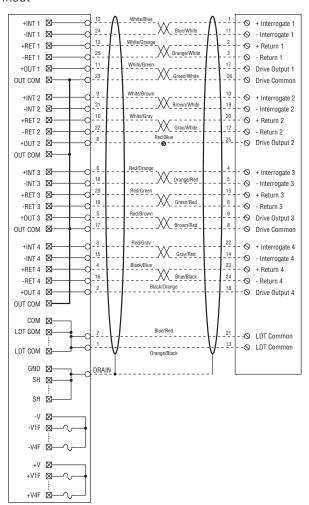
1492-AIFMQS

Fusible 4-Input/4 Output Channel with 8 Fuses & 24V DC Blown Fuse Indicators



Application Notes

- 1. Compatibility To ensure proper operation with the I/O module, do **not** exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Fuse holders are included with the AIFM. Fuses (5 x 20 mm) are not included. Do not exceed 3 A per input, 12 A per AIFM.
- 4. Isolation The fuse clips and blown fuse indicators are internally connected to two separate power source field-side terminals. All inputs within a group must reference the same power source.
- 5. Extra Terminals Four field-side terminals (on TB1) are internally jumpered on the AIFM and connected to module common. Four field-side terminals (on TB1) are internally jumpered on the AIFM and can be used for power source common connections.
- **6. Shield Terminals** Eight field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 7. **Dimensions** Refer to page 187.



1492-AIFMPI

Fusible 8-Input/2 Output Channels



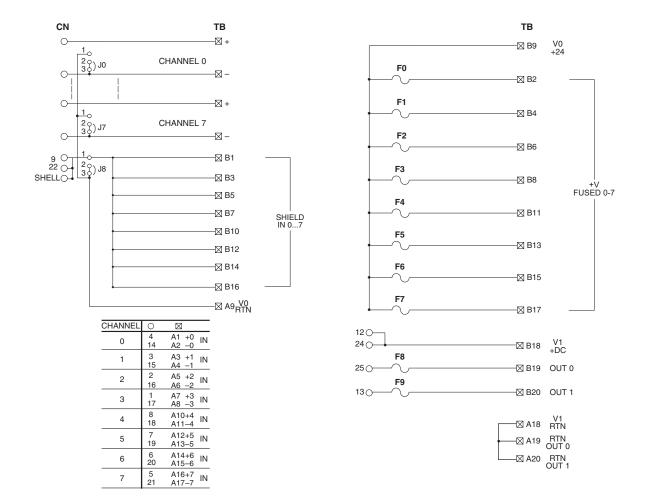
Application Notes

- Compatibility To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the AIFM.
- 2. Wiring Refer to the Label Section on page 181. For Field-Side Wiring Diagrams, refer to the Wiring System web site information on page 186.
- 3. Fusing Two fuse holders for the outputs are included with the AIFM. Eight fuses (0.25 A, 5 x 20 mm) are included with the fused supply inputs. Do not exceed 2 A per output.
- 4. Isolation The fuse clips and blown fuse indicators are internally connected to one power source field-side terminal. All inputs must reference the same power source.
- 5. Jumpers J0...J7 provide the option of connecting the negative inputs to the return. J8 commons the shield to the return. Default switch position is OPEN/OFF/NOT jumpered together.
- Shield Terminals Eight field-side terminals are jumpered together on the AIFM and internally connected to the D-shell housing.
- 7. The 1492-AIFMPI is designed exclusively for the 1757-PIM module.
- **8.** Dimensions Refer to page 187.

Pinout

Refer to page 167.

1492-AIFMPI, Continued

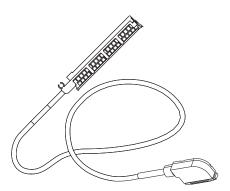


Analog Cable Specifications

Bulletin 1492 pre-wired cables are designed to minimize control wiring in a panel. Analog pre-wired cables, when used with an AIFM, replace the point-to-point wiring between Allen-Bradley programmable controller I/O modules and individual terminal blocks. The analog ready-to-wire cables provide one end of the cable pre-terminated for an AIFM (AIFM-ready cable).

Pre-Wired Cables

Specifications



The pre-wired cables have a Bulletin 1746 Removable Terminal Block, Bulletin 1756 Removable Terminal Block, Bulletin 1769 Removable Terminal Block, Bulletin 1771 Wiring Arm, or Bul. 1794 (Flex) 37-pin D-Shell (mates with Cat. No. 1794-TB37DS) on one end and a D-shell on the other to connect to the AIFM. All analog cables have an overall shield and most have #22 AWG twisted pairs for additional noise immunity. In addition, most analog cables have prepared ring lugs on the drain wire for convenient grounding of the cable shield to the programmable controller chassis. The broad offering of analog pre-wired cables supports over 40 different Bulletin 1746, 1756, 1769, 1771, 700S, 700H, and 1794 analog, RTD, and thermocouple (1756 only) I/O modules.

Pre-Wired Cables, Continued

Analog Pre-Wired Cable Specifications

Catalog Number and Length •	Standard Cable Lengths	I/O Module Connector	AIFM Connector	No. of Conductors @@	Insulation Rating	Conductor Size	Nominal Outer Diameter
1492-ACABLE ● A	0.5, 1.0, 2.5, 5.0 m	1746-RT28 12-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACABLE ● B	0.5, 1.0, 2.5, 5.0 m	1746-RT26 2-Position and 1746-RT27 8-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACABLE●C	0.5, 1.0, 2.5, 5.0 m	1746-RT25G Green Removable Terminal Block	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACABLE ● D	0.5, 1.0, 2.5, 5.0 m	1746-RT25G Green Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLE ● E	0.5, 1.0, 2.5, 5.0 m	1771-WG (21 terminal)	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACABLE ● F	0.5, 1.0, 2.5, 5.0 m	1771-WG (21 terminal) Wiring Arm	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLE ● G	0.5, 1.0, 2.5, 5.0 m	1771-WC (10 terminal) Wiring Arm	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACABLE ● H	0.5, 1.0, 2.5, 5.0 m	1771-WF (18 terminal) Wiring Arm	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACABLE ● J	0.5, 1.0, 2.5, 5.0 m	1771-WF (18 terminal) Wiring Arm	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLE ● K	0.5, 1.0, 2.5, 5.0 m	1746-RT25G Green Removable Terminal Block	25-pin D-shell	11 Twisted Pairs	300V 80°C	22 AWG	11.5 mm (0.45")
1492-ACABLE ● L	0.5, 1.0, 2.5, 5.0 m	1746-RT28 12-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACABLE ● M	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	11 Twisted Pairs	300V 80°C	22 AWG	11.5 mm (0.45")
1492-ACABLE ● P	0.5, 1.0, 2.5, 5.0 m	1746-RT25G Green Removable Terminal Block	25-pin D-shell	11 Twisted Pairs	300V 80°C	22 AWG	11.5 mm (0.45")
1492-ACABLE ● Q	0.5, 1.0, 2.5, 5.0 m	1746-QS (26 terminal D-shell)	25-pin D-shell	12 Twisted Pairs	300V 80°C	22 AWG	10.2 mm (0.40")
1492-ACABLE ● R	0.5, 1.0, 2.5, 5.0 m	1746-RT25G Green Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLE ● X	0.5, 1.0, 2.5, 5.0 m	1756-TBNH 20-Position Removable Terminal Block	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACABLEOY	0.5, 1.0, 2.5, 5.0 m	1756-TBNH 20-Position Removable Terminal Block	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACABLEOYT	0.5, 1.0, 2.5, 5.0 m	1756-TBNH 20-Position Removable Terminal Block	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACABLE ● Z	0.5, 1.0, 2.5, 5.0 m	1756-TBNH 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLE A46	0.5, 1.0, 2.5, 5.0 m	1746-RT25G Green Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	10.2 mm (0.40")
1492-ACABLE ● TA	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLE ● TB	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLEOTC	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLEOTD	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLEOUA	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLEOUB	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLEOUC	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACABLEOUD	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACABLEOVA	0.5, 1.0, 2.5, 5.0 m	1756-TBNH 20-Position Removable Terminal Block	15-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLEOVB	0.5, 1.0, 2.5, 5.0 m	1756-TBNH 20-Position Removable Terminal Block	15-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLEOWA	0.5, 1.0, 2.5, 5.0 m	1756-TBNH 20-Position Removable Terminal Block	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
			<u> </u>		300V 80°C	22 AWG	
1492-ACABLEOWB	0.5, 1.0, 2.5, 5.0 m	1756-TBNH 20-Position Removable Terminal Block 1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	9 Twisted Pairs			6.78 mm (0.267")
	0.5, 1.0, 2.5, 5.0 m		25-pin D-shell	11 Twisted Pairs	300V 80°C	22 AWG	11.5 mm (0.45")
1492-ACABLEOXB	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	11 Twisted Pairs	300V 80°C	22 AWG	11.5 mm (0.45")
1492-ACABLE • ZA	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLE • ZB	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACABLEOZC	0.5, 1.0, 2.5, 5.0 m	1756-TBCH 36-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACAB•AA69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN10 12-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACAB•AB69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN10 12-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACAB • BA69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACAB ● BB69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACAB ① BC69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACAB 0 BD69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	15-pin D-shell	5 Twisted Pairs	300V 80°C	22 AWG	7.44 mm (0.293")
1492-ACAB ① C69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACAB ● CA69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACAB ● CB69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACAB ● CC69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACAB ● D69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACAB ● EA69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACAB ● EB69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
1492-ACAB ● ED69	0.5, 1.0, 2.5, 5.0 m	1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")
		1769-RTBN18 20-Position Removable Terminal Block	25-pin D-shell	11 Twisted Pairs	300V 80°C	22 AWG	11.5 mm (0.45")

Analog Pre-Wired Cable Specifications

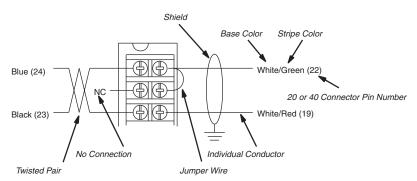
Catalog Number and Length 0	Standard Cable Lengths	I/O Module Connector	AIFM Connector	No. of Conductors @0	Insulation Rating	Conductor Size	Nominal Outer Diameter
1492-ACAB ● Z7H	0.5, 1.0, 2.5, 5.0 m	20C-DA1-A or 20C-DA1-B I/O Board	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACAB•Z7S	0.5, 1.0, 2.5, 5.0 m	Terminal TB1 (Pins 112)	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACAB•X7S	0.5, 1.0, 2.5, 5.0 m	Terminal TB1 (Pins 1325)	25-pin D-shell	9 Twisted Pairs	300V 80°C	22 AWG	6.78 mm (0.267")
1492-ACAB ● Z94	0.5, 1.0, 2.5, 5.0 m	37-Pin D-Shell Connector to Mate with Cat. No. 1794-TB37DS Base	25-pin D-shell	20 Conductors	300V 80°C	22 AWG	8.43 mm (0.332")

- Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m and 5.0 m. To order, insert the desired cable length code into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example:
 Catalog Number 1492-ACABLE005A is for a 0.5 m cable for the 1746-NI4 I/O Module. Also refer to Build-to-Order Length Cables on page 65.
- All pre-wired analog cables have an overall shield. On 1492-ACABLE C and 1492-ACABLE D, the drain wire is connected to the shield terminal on the I/O module connector. All other 1492-ACABLEs have a ring lug on the 7.87" (200 mm) exposed drain wire at the I/O module end of the cable.
- 3 Not every connection is always used.

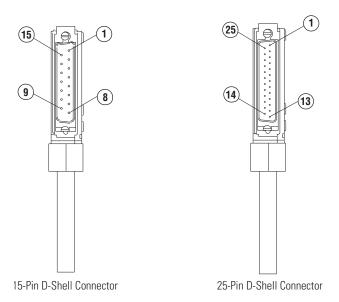
Pinouts

Analog Pre-Wired Cables

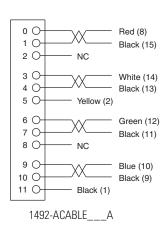
The following diagrams indicate how the analog pre-wired cables are connected on both ends. The description listed first is the wire color of the conductor connected to the screw terminal on the respective Wiring Arm or Removable Terminal Block. The number that follows in parentheses is the corresponding pin number in the D-shell connector on the other end.

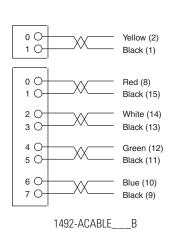


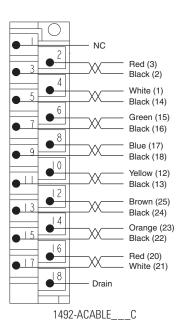
Output Pin Connector Definition

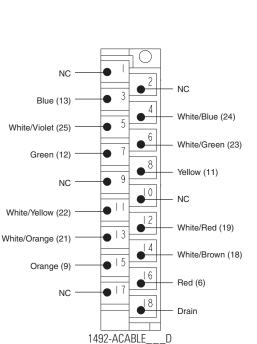


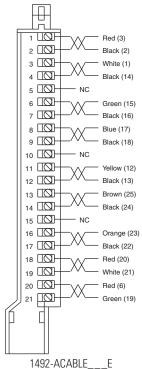
AIFM Mating Connector Definition

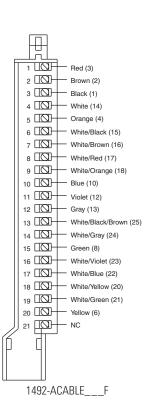


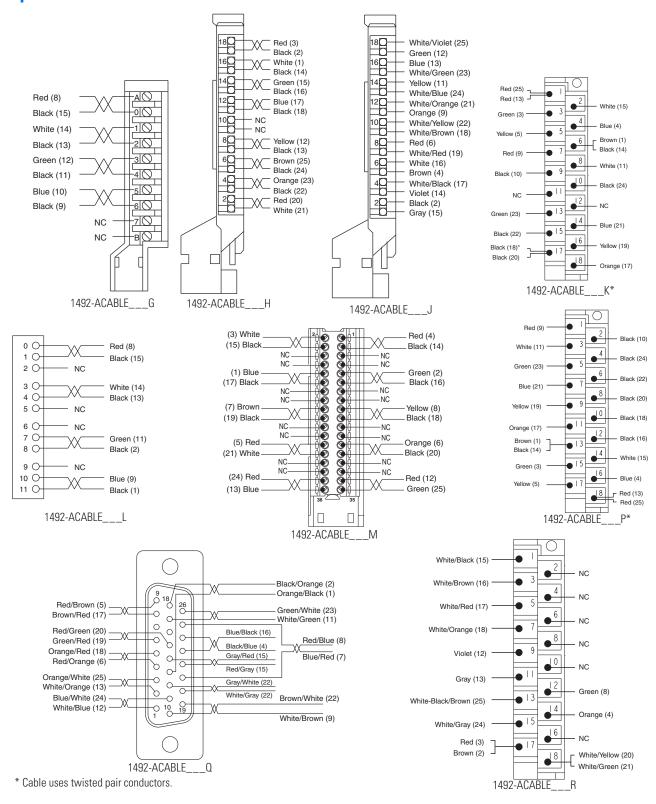


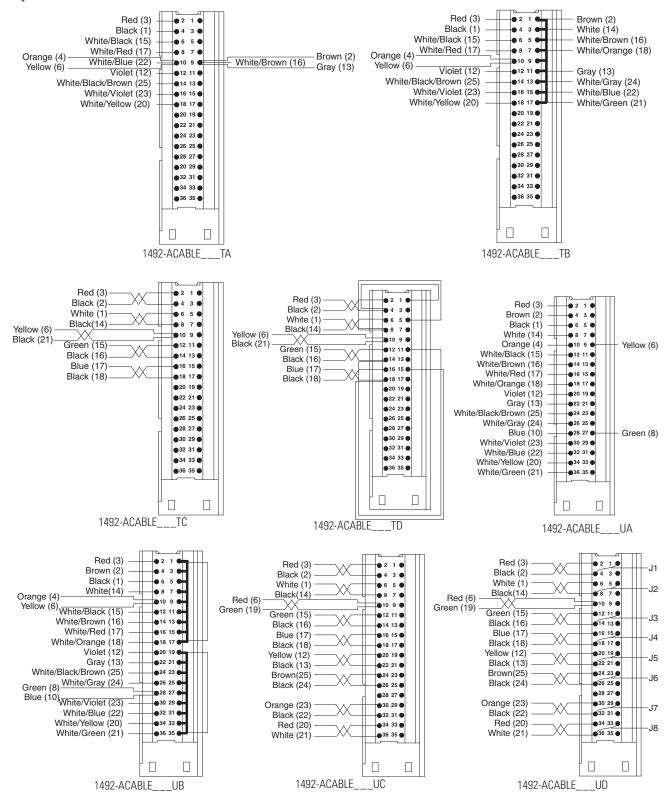


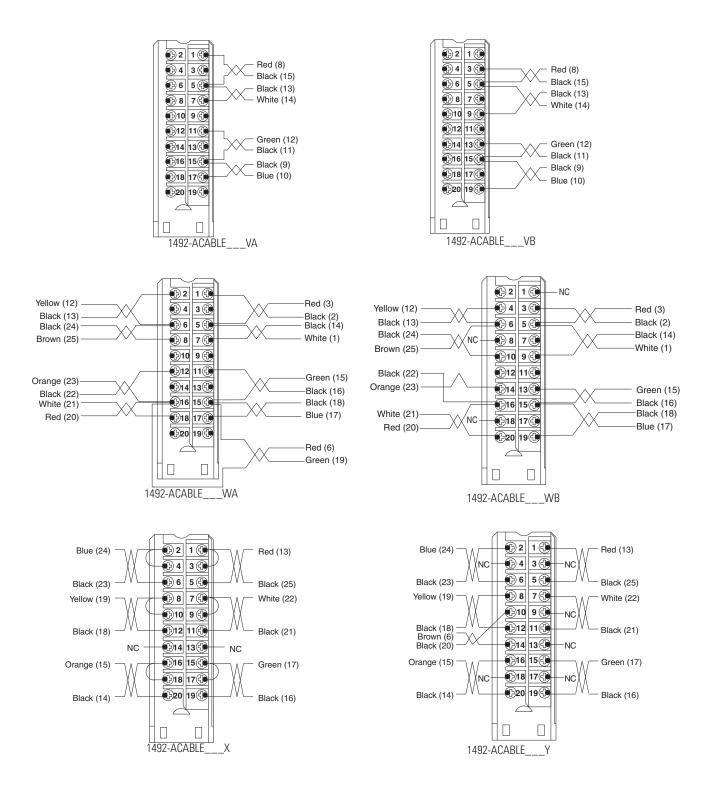


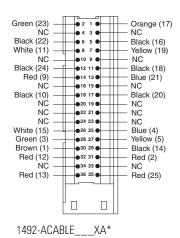


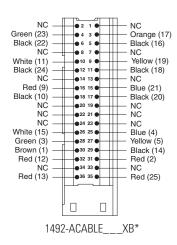


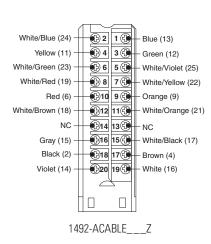


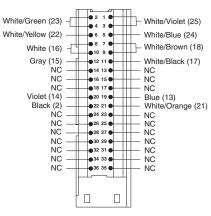




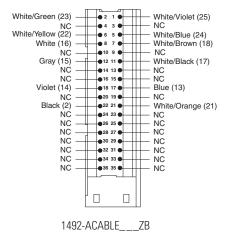


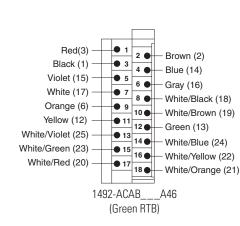


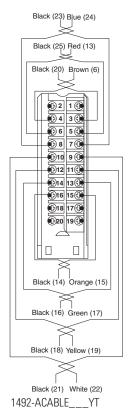


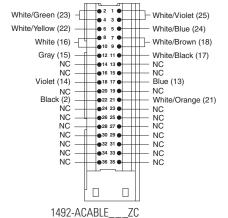




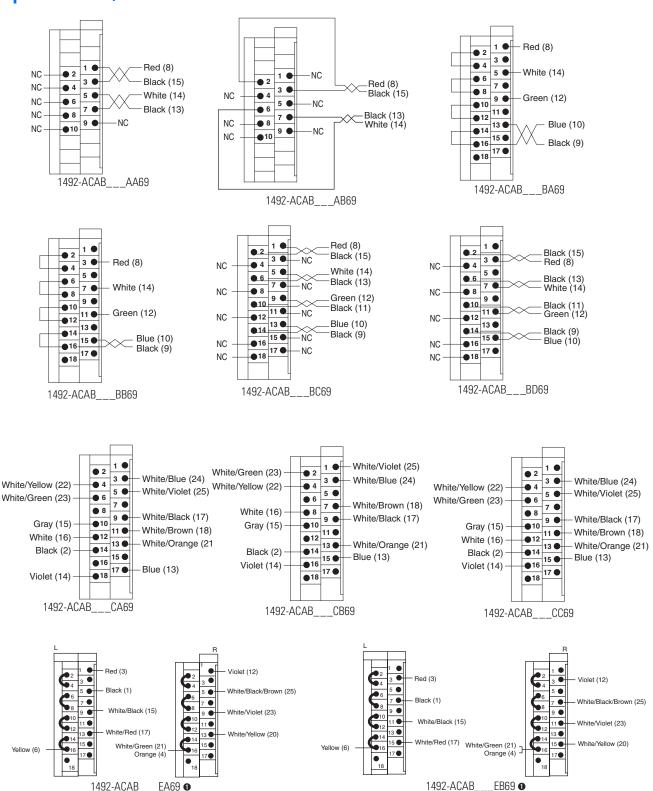




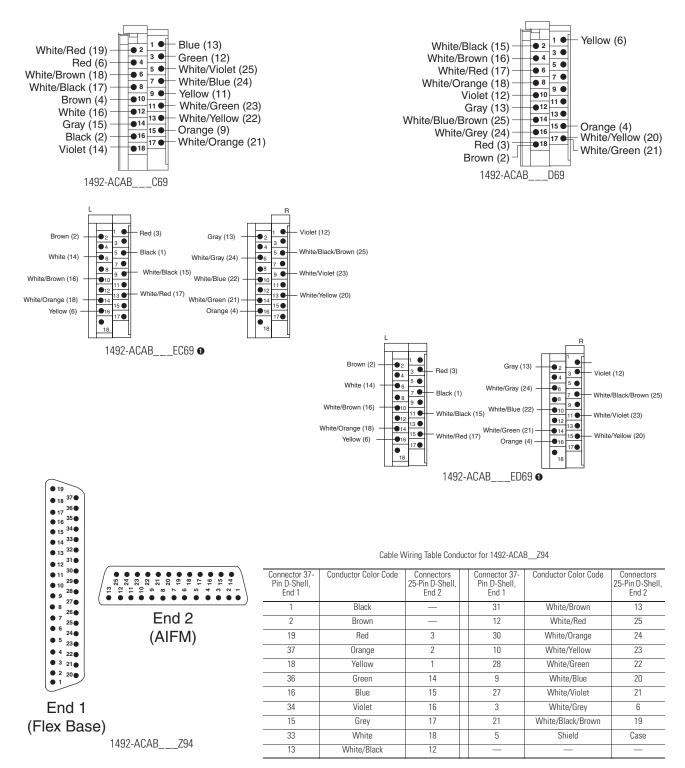




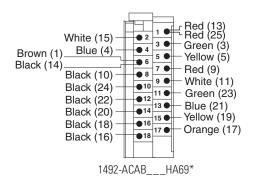
^{*} Cable uses twisted pair conductors.

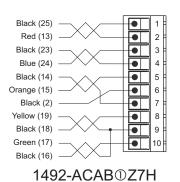


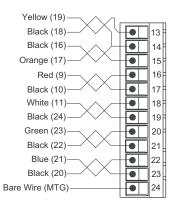
Pinouts, Continued

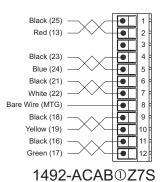


• Cable is made up of two (Left & Right pair) individual terminal blocks.









1492-ACAB①X7S

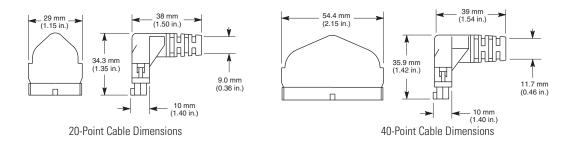
Cable is made up of two (Left & Right pair) individual terminal blocks.

^{*} Cable uses twisted pair conductors.

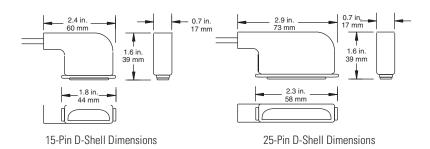
Dimensions

Approximate dimensions are shown in millimeters unless otherwise indicated (to convert to inches, multiply by 0.0394). Dimensions are not to be used for manufacturing purposes.

Digital IFM Mating Connector

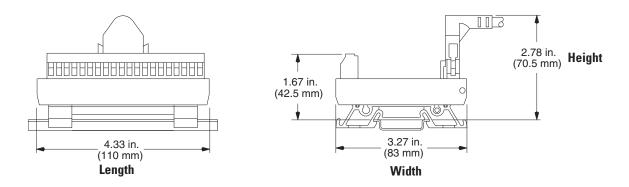


Analog D-Shell Connector



Wiring System Module Dimensions

The following is an example to show the length (L) and width (W) and Height (H) dimension layout for a Wiring System Module. Refer to the Quick Reference table on Page 187 for a complete list of module dimensions.



Marking Systems

Pre-Printed and Blank Adhesive Label Cards

All Bulletin 1492 IFMs, XIFMs, and AIFMs come with an adhesive label card. To see an example, refer to pages 182 and 183. The label card provides the field-side connection descriptions for the programmable controller I/O module. The label strips basically copy the wiring descriptions from the I/O module in the chassis down to the Interface Module terminals on the DIN Rail.

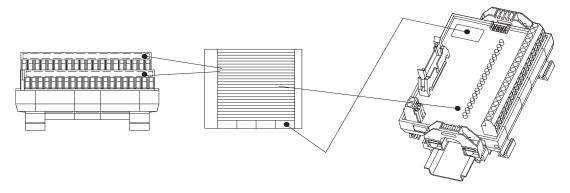
The label cards list all of the compatible I/O modules and their respective wiring descriptions. Depending on the I/O module that is used, the label strip(s) are simply peeled from the label card and applied to the field-side terminals on the Interface Module.

Labels are provided in the octal and decimal numbering systems for Bulletin 1746 I/O modules. Labels for Bulletin 1771 I/O modules are supplied in the octal numbering system, like the I/O modules themselves. Labels for Bulletin 1756 and 1769 I/O modules are supplied in the decimal numbering system, like the I/O modules. Interface Modules with LEDs or fuse clips come with the LEDs or fuse clips/blown fuse indicators numbered in decimal. LED and fuse labels are also provided in octal for use with Bulletin 1771 I/O modules. The LED or fuse conversion label(s) are placed directly on the circuit board of the Interface Module. For extra terminal modules, pre-printed labels are provided to identify the power bus(ses) or commoned terminals (middle and/or lower rows of terminals) on the Interface Module. For each I/O module, corresponding labels with L1, L2, COM, or +V are provided. The labels indicate isolated power busses or grouped commons with a different letter or number. For example, L1-A, L1-B, L1-C or COM1, COM2, COM3, etc.

In addition, if generic numbering of the field-side terminals is desired, numeric labels are provided. Examples: 1...20, 1...40, and evens and odds. For write-on identification, the label cards contain blank label strips (for field-side terminals) and rectangular boxes (for the large group marking area on each IFM, XIFM, or AIFM).

Examples of available label cards are on page 182. This information is helpful for determining field-side wiring layouts prior to installation. Label cards can be ordered as spare parts should a replacement be required. Refer to page 187 for a listing of label cards that apply to your IFM.

An example of how the labels are applied is shown below:



Marking Systems, Continued (Example Label Cards)

Part 1 of Adhesive Label Card for Catalog Numbers 1492-IFM20F, -IFM20D24, and -IFM20D120

I/O CAT. NO.									MC	DULI	ELAB	EL								
1746-IA16, IM16,			IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	L2	L2
IN16 (AC)			IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17	L2	L2
1746-IB16, IC16, IH16, IN16 (DC),			IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	COM	COM
TB16			IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17	COM	COM
1746-IG16	+V	+V	IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	COM	СОМ
	+V	+V	IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17	COM	COM
1746-IV16, ITV16			IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	+V	+V
			IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17	+V	+V
1746-OA16, OW16 (AC) 1769-OA16,	L1 1	L1 1	OUT	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	L1 2	L1 2
OW16 (AC)	L1 1	L1 1	OUT 00	OUT 01	OUT 02	OUT 03	OUT 04	OUT 05	OUT 06	OUT 07	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	OUT 16	OUT 17	L1 2	L1 2
1746-OB16, OB16E, OBP16, OG16, OV16, OVP16	+V	+V	OUT	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	COM	COM
1769-OB16, 0V16	+V	+V	OUT 00	OUT 01	OUT 02	OUT 03	OUT 04	OUT 05	OUT 06	OUT 07	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	OUT 16	OUT 17	COM	COM
1746-OW16 (DC) 1769-OW16 (DC)	+V1	+V1	OUT	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	+V2	+V2
	+V1	+V1	OUT 00	OUT 01	OUT 02	OUT 03	OUT 04	OUT 05	OUT 06	OUT 07	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	OUT 16	OUT 17	+V2	+V2
1746-OX8 (AC) 1769-OW8I (AC)		L1 0	OUT 0	L1 1	OUT 1	L1 2	OUT 2	L1 3	OUT 3		OUT 4	L1 4	OUT 5	L1 5	OUT 6	L1 6	OUT 7	L1 7		
1746-OX8 (DC) 1769-OW8I (DC)		+V0	OUT	+V1	OUT 1	+V2	OUT 2	+V3	OUT 3		OUT 4	+V4	OUT 5	+V5	OUT 6	+V6	OUT 7	+V7		
1756-IA8D, TC-IDX081		L1 0	IN 0	IN 1	IN 2	IN 3	L2 0	L2 0	L2 0	L2 0	L2 1	L2 1	L2 1	L2 1	IN 4	IN 5	IN 6	IN 7	L1 1	L2 1
1756-IA16, IN16, TC-IDA161	L2 0	L2 0	IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	L2 1	L2 1
1756-IB16, IC16, TC-IDD161, IDE161	GND 0	GND 0	IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	GND 1	GND 1
1756-OA8, ON8,	L1 0	OUT	OUT 1	OUT 2	OUT 3		L1 0	L1 0	L1 0	L1 0	L1 1	L1 1	L1 1	L1 1	OUT 4	OUT 5	OUT 6	OUT 7		L1 1

Marking Systems, Continued (Example Label Cards)

Part 2 of Adhesive Label Card for Catalog Numbers 1492-IFM20F, -IFM20D24, and -IFM20D120

1756-OA8D, OA8E, TC-ODX081		L2 0	OUT 0	OUT 1	OUT 2	OUT 3	L1 0	L1 0	L1 0	L1 0	L1 1	L1 1	L1 1	L1 1	OUT 4	OUT 5	OUT 6	OUT 7	L2 1	L1 1
1756-OA16, TC-ODA161	L1 0	L2 0	OUT 0	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	L1 1	L:
1756-OB8, OC8, TC-ODD081, TC-ODE081	+DC 0	OUT	OUT 1	OUT 2	OUT 3	RTN 0	+DC 0	+DC 0	+DC 0	RTN 0	+DC 1	+DC 1	+DC 1	+DC 1	OUT 4	OUT 5	OUT 6	OUT 7	RTN 1	RT 1
1756-OB16E, TC-ODD161	+DC 0	RTN 0	OUT 0	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	+DC	RT 1
1769-IA8I			IN 0	L2 0	IN 1	L2 1	IN 2	L2 2	IN 3	L2 3	IN 4	L2 4	IN 5	L2 5	IN 6	L2 6	IN 7	L2 7		
1769-IA16	L2	L2	IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	L2	Ľ
1769-IM12			IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11					L2	L
1769-IQ16 SINK	COM 1	COM 1	IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	COM 2	1 00
1769-IQ16 SOURCE	+VDC 1		IN 0	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	IN 9	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	+VDC 2	
1769-OA8 (AC),	L1		OUT		OUT		OUT		OUT	L1	OUT		OUT		OUT		OUT		L1	L
OW8 1769-OW8 (DC)	1 +VDC 1		0 OUT 0		OUT 1		OUT 2		OUT 3	1 +VDC 1	OUT 4		5 OUT 5		6 OUT 6		7 OUT 7		2 +VD0 2	2 +VI 2
1771-IAD (AC), IND (AC)	L1		IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17		La
1771-IMD (AC)			IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17		La
1771-IAD (DC), IND (DC)	+V		IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17		CC
1771-IMD (DC)			IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17		CC
1771-IBD, ICD			IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17		CC
1771-IGD	+V	+V	IN 00	IN 01	IN 02	IN 03	IN 04	IN 05	IN 06	IN 07	IN 10	IN 11	IN 12	IN 13	IN 14	IN 15	IN 16	IN 17	+V	CC
1771-OAD, OND, OMD	L1	L1	OUT 00	OUT 01	OUT 02	OUT 03	OUT 04	OUT 05	OUT 06	OUT 07	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	OUT 16	OUT 17	L1	L
1771-OBD, OGD	+V	+V	OUT 00	OUT 01	OUT 02	OUT 03	OUT 04	OUT 05	OUT 06	OUT 07	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	OUT 16	OUT 17	+V	CC
NUMERIC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	21
LED LABEL			00	01	02	03	04	05	06	07	10	11	12	13	14	15	16	17		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		

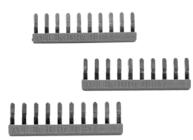
Accessories



Catalog Number 1492-IFMFH1 Fuse Holder



Catalog Number 1492-ISOSW-1 Isolation Switch Fuse Plug



Catalog Number 1492-SJM5-10 Insulated Side Jumper

Replacement Fuse Holders

IFM

The 1492-IFMFH1 fuse holders accommodate either a 5 x 20 mm fuse or the Catalog Number 1492-ISOSW-1 isolation switch plug and reside in the IFM or AIFM under normal operation. All of the fusible Bulletin 1492 IFMs and AIFMs come standard with fuse holders (for the number of fuse holders included, refer to the specifications for each IFM or AIFM).

Replacement fuse holders (Catalog Number 1492-IFMFHI) are available in packages of 20. Catalog Number 1492-IFMFHI fuse holders are not compatible with fusible expandable XIMs.

Accessories, Continued

Replacement Fuse Holders, Continued

AIFM

The Catalog Number 1492-IFMFH1 fuse holders accommodate a 5 x 20 mm fuse or the Catalog Number 1492-ISOSW-1 isolation switch fuse plug and reside in the AIFM under normal operation. All of the fusible Catalog Number 1492 AIFMs come standard with the fuse holders — 10 fuse holders with the Catalog Number 1492-AIFM4C-F-5, -AIFM4I-F-5, and -AIFM8-F-5 modules; 20 fuse holders with the Catalog Number 1492-AIFM16-F-3, and -AIFM16-F-5 modules. Replacement fuse holders are available in packages of 20.

Replacement Relays

The relays in the Relay Master and Relay Expander modules are replaceable. The following replacement relays must be used:

Replacement Relays

XIM Catalog Number	Replacement Part Catalog Number
1492-XIM4024-16R, -16RF	700-HK36Z24
1492-XIM4024-8R	700-HK36Z24
1492-XIM2024-8R, -16R	700-HK36Z24
1492-XIM20120-8R, -16R, -16RF	700-HK36A1
1492-XIM24-8R, -16RF	700-HK36Z24
1492-XIM120-8R	700-HK36A1
Flexible Relay Module Expansion Cable	W22101-061-01

Isolation Switch Plugs

The Catalog Number 1492-ISOSW-1 is an isolation switch or "dummy fuse" in a 5 x 20 mm fuse form factor. The isolation switch plugs will fit into the Catalog Number 1492-IFMFH1 fuse holders. If fusing is not desired on a fusible IFM or AIFM, the Catalog Number 1492-ISOSW-1 isolating switch can be used to provide feed-through functionality under normal operation and isolation switch functionality once power has been removed from the circuit. The isolation switch can then be opened for maintenance and troubleshooting. Metering equipment can also be inserted into a two-wire transmitter circuit to measure input loop current. The Catalog Number 1492-ISOSW-1 isolation switch plugs are available in packages of four.

Accessories, Continued

Insulated Side Jumpers

The Catalog Number 1492-SJM5-10 is a 10-pole "comb-style" insulated side jumper. A side cutter can be used to cut the 10-pole jumper into smaller pole assemblies. The jumper fits the field-side terminal spacings on all of the Bulletin 1492 IFMs and AIFMs. Use of this jumper is a convenient means of connecting unused inputs together on the feed-through. The Catalog Number 1492-SJM5-10 insulated side jumpers are available in packages of 10.

Web Site Information

Wiring diagrams are provided on-line if you require additional information to wire your field device to the terminals of the IFM, XIM or AIFM wiring system modules.

Visit the following web site for I/O wiring diagrams of the Interface Modules and cables:

- 1. http://www.ab.com/raise
- 2. Type in the catalog number of the IFM/XIM or AIFM you are interested in. Click on "Submit."
- 3. Click on the Modify key (lower left).
- 4. Click on the areas that indicate NO SELECTION and enter your information (e.g, I/O Platform, I/O Module, etc.).
- **5.** To obtain the wiring diagram, be sure to select the Pre-Wired Cable Connector selection.
- **6.** Configure the 1492 cable for your application by filling in the NO SELECTION areas.
- 7. Click on the Accept key for the 1492 cable.
- 8. Click on the Accept key for the 1492 wiring system module (E.g., 1492-IFM20F).
- The configuration results page is displayed. In the selected components table column "Supplementary Documents," click on the "Wiring Diagram for the I/O Module to IFM."

Quick Reference

Digital IFM Specifications

Digital IFM Catalog Number	Voltage Range	Max. Current (Per Circuit)	Max. Current (Per Module)	Dimensions (W x H x D) (in.) ⊕	Indicator Circuit Current (Nominal)	Label Card Replacement Part Catalog Number ❷
1492-IFM20F, -RIFM20F	0264V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 ❸	(Noninia)	46006-190-01, 46006-233-01
1492-IFM20FN, -RIFM20FN	0132V AC/DC	2 A	12 A	2.36 x 3.27 x 2.78 ②	_	46006-197-01, -237-01, -220- 01
1492-IFM20F-2, -RIFM20F-2	0264V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 3	_	46006-192-01, -235-01, -221- 01
1492-IFM20F-3	0132V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	_	46006-210-01
1492-IFM20D24	1030V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	2 mA	46006-190-01, 46006-233-01
1492-IFM20D24N	1030V AC/DC	2 A	12 A	2.36 x 3.27 x 2.78	2 mA	46006-197-01, -237-01, -220- 01
1492-IFM20D24-2	1030V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	2 mA	46006-192-01, -235-01, -221- 01
1492-IFM20D24A-2	1030V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	2 mA	46006-211-01
1492-IFM20DS24-4	1060V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	1.6 mA	46006-209-01
1492-IFM20D24-3	1030V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	2 mA	46006-193-01, 46006-236-01
1492-IFM20D120	85132V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	2.5 mA	46006-190-01, 46006-233-01
1492-IFM20D120N	85132V AC	2 A	12 A	2.36 x 3.27 x 2.78	2.5 mA	46006-197-01, -237-01, -220- 01
1492-IFM20D120-2	85132V AC	2 A	12 A	4.33 x 3.27 x 2.78	2.5 mA	46006-192-01, -235-01
1492-IFM20D120A-2	85132V AC	2 A	12 A	4.33 x 3.27 x 2.78	2.5 mA	46006-211-01
1492-IFM20DS120-4	85132V AC	2 A	12 A	4.33 x 3.27 x 2.78	2.6 mA	46006-209-01
1492-IFM20D240-2	204264V AC	2 A	12 A	4.33 x 3.27 x 2.78	2.5 mA	46006-192-01, -235-01
1492-IFM20D240A-2	204264V AC	2 A	12 A	4.33 x 3.27 x 2.78	2.5 mA	46006-211-01
1492-IFM20F-F-2, -RIFM20F-F-2	0132V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 ❸	_	46006-192-01, -235-01, -221- 01
1492-IFM20F-F24-2, -RIFM20F-F24-2	1030V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 ③	2 mA	46006-192-01, -235-01, -221- 01
1492-IFM20F-F24A-2, -RIFM20F-F24A-2	1030V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 3	2.4 mA	46006-212-01, -189-01
1492-IFM20F-F120-2, -RIFM20F-F120-2	85132V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 3	2.5 mA	46006-192-01, -235-01, -221- 01
1492-IFM20F-F120A-2, -RIFM20F-F120A-2	85132V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 3	1.2 mA	46006-212-01, -189-01
1492-IFM20F-F240-2	204264V AC/DC	2 A	12 A	4.72 x 3.27 x 2.78	1.2 mA	46006-192-01, -235-01
1492-IFM20F-FS-2	0132V AC/DC	2 A	12 A	2.36 x 3.27 x 2.78	_	46006-204-01
1492-IFM20F-FS24-2	1030V AC/DC	2 A	12 A	2.36 x 3.27 x 2.78	2 mA	46006-204-01
1492-IFM20F-FS24A-4	1030V AC/DC	2 A	12 A	3.15 x 3.27 x 2.78	2.4 mA	46006-215-01
1492-IFM20F-FS120-2	85132V AC/DC	2 A	12 A	2.36 x 3.27 x 2.78	2.5 mA	46006-204-01
1492-IFM20F-FS120-4	85132V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	1.2 mA	46006-214-01
1492-IFM20F-FS120A-4	85132V AC/DC	2 A	12 A	3.15 x 3.27 x 2.78	2.2 mA	46006-215-01
1492-IFM20F-FS240-4	204264V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78	1.2 mA	46006-214-01
1492-IFM40F, -RIFM40F	0132V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 3	_	46006-191-01, -234-01, 252-01
1492-IFM40F-2	0132V AC/DC	2 A	12 A	8.27 x 3.27 x 2.78	_	46006-224-01, -225-01, -239- 01, -240-01, -194-01, -195-01, -253-01
1492-RIFM40F-2	0132V AC/DC	2A	12A	8.27 x 3.27 x 2.78	_	46006-224-01, -225-01, -239- 01, -240-01, -194-01, -195-01, -253-01
1492-IFM40F-3	060V AC/DC	2 A	12 A	8.27 x 3.27 x 2.78	_	46006-193-01, 46006-236-01
1492-IFM40D24, -RIFM40D24	1030V AC/DC	2 A	12 A	4.33 x 3.27 x 2.78 ❸	2 mA	46006-191-01, -234-01, -252- 01
1492-IFM40D24-2	1030V AC/DC	2 A	12 A	8.27 x 3.27 x 2.78	2 mA	46006-194-01, -195-01, -253- 01
1492-IFM40D24A-2	1030V AC/DC	2 A	12 A	8.27 x 3.27 x 2.78	2 mA	46006-224-01, -225-01, -239- 01, -240-01, -194-01, -195-01, -253-01
1492-RIFM40D24A-2	1030V AC/DC	2A	12A	8.27 x 3.27 x 2.78	2 mA	46006-224-01, -225-01, -239- 01, -240-01, -194-01, -195-01, -253-01
1492-IFM40DS24-4	1060V AC/DC	2 A	12 A	6.69 x 3.27 x 2.78	4.1 mA	46006-208-01
1492-IFM40DS24A-4	1030V AC/DC	2 A	12 A	6.69 x 3.27 x 2.78	4.1 mA	46006-208-01
1492-IFM40D24-3	1030V AC/DC	2 A	12 A	8.27 x 3.27 x 2.78	2 mA	46006-193-01, 46006-236-01

Digital IFM Specifications (Continued)

Digital IFM Catalog Number	Voltage Range	Max. Current (Per Circuit)	Max. Current (Per Module)	Dimensions (W x H x D) (in.) ⊕	Indicator Circuit Current (Nominal)	Label Card Replacement Part Catalog Number ❷
1492-IFM40D120-2	85132V AC	2 A	12 A	8.27 x 3.27 x 2.78	2.5 mA	46006-194-01, -195-01, -253- 01
1492-IFM40D120A-2	85132V AC	2 A	12 A	8.27 x 3.27 x 2.78	2.5 mA	46006-194-01, -195-01, -253- 01
1492-IFM40DS120-4	85132V AC	2 A	12 A	6.69 x 3.27 x 2.78	2.6 mA	46006-208-01
1492-IFM40DS120A-4	85132V AC	2 A	12 A	6.69 x 3.27 x 2.78	2.6 mA	46006-208-01
1492-IFM40DS240A-4	204264V AC	2 A	12 A	6.69 x 3.27 x 2.78	2.6 mA	46006-208-01
1492-IFM40F-F-2	0132V AC/DC	2 A	12 A	8.27 x 3.27 x 2.78	_	46006-194-01, -195-01, -253- 01
1492-IFM40F-F24-2	1030V AC/DC	2 A	12 A	8.27 x 3.27 x 2.78	2 mA	46006-224-01, -225-01, -239- 01, -240-01, -194-01, -195-01
1492-RIFM40F-F24-2	1030V AC/DC	2 A	12A	8.27 x 3.27 x 2.78	2 mA	46006-224-01, -225-01, -239- 01, -240-01, -194-01, -195-01
1492-IFM40F-F24D-2	1030V DC	2 A	8 A	4.72 x 3.27 x 2.78	<0.05 mA	46006-201-01
1492-IFM40F-F24AD-4	1030V DC	2 A	8 A	7.09 x 3.27 x 2.78	<0.05 mA	46006-206-01
1492-IFM40F-F120-2	85132V AC/DC	2 A	12 A	8.27 x 3.27 x 2.78	2.5 mA	46006-194-01, -195-01, -253- 01
1492-IFM40F-FS-2	0132V AC/DC	2 A	12 A	4.72 x 3.27 x 2.78	_	46006-201-01
1492-IFM40F-FS24-2	1030V AC/DC	2 A	12 A	4.72 x 3.27 x 2.78	2 mA	46006-201-01
1492-IFM40F-FS24-4	1030V AC/DC	2 A	12 A	7.09 x 3.27 x 2.78	2.4 mA	46006-207-01
1492-IFM40F-FS120-2, -RIFM40F-FS120-2	85132V AC/DC	2 A	12 A	4.72 x 3.27 x 2.78	2.5 mA ❸	46006-201-01
1492-IFM40F-FS120-4	85132V AC/DC	2 A	12 A	7.09 x 3.27 x 2.78	1.4 mA	46006-206-01
1492-RIFM40F-FS120-4	8530V AC/DC	2A	12A	7.09 x 3.27 x 2.78	1.4 mA	46006-226-01
1492-IFM40F-FS240-4	204264V AC/DC	2 A	12 A	7.09 x 3.27 x 2.78	2.4 mA	46006-207-01
1492-IFM40F-FS24A-4	1030V AC/DC	2 A	12 A	7.09 x 3.27 x 2.78	3.1 mA	46006-226-01
1492-IFM40F-FS120A-4	85132V AC/DC	2 A	12 A	7.09 x 3.27 x 2.78	1.4 mA	46006-226-01
1492-RIFM40F-FS120A-4	8530V AC/DC	2A	12A	7.09 x 3.27 x 2.78	1.4 mA	46006-226-01
1492-IFM40F-FS-4	0264V AC/DC	2 A	12 A	7.09 x 3.27 x 2.78	_	46006-207-01
1492-IFM40F-FSA-4	0132V AC/DC	2 A	12 A	7.09 x 3.27 x 2.78	_	46006-226-01
1492-IFM40F-FS240A-4	159265V AC/DC	2 A	12 A	7.09 x 3.27 x 2.78	1.4 mA	46006-226-01

- Dimensions are in inches. To convert to millimeters, multiply inches by 25.4.
- ② Ships with each module. For spare part, precede part number with the letter "W."
- 3 Add 0.39 in. to the width dimension for Bul. 1492Rxxx module.

Analog IFM Specifications

Analog IFM Catalog Number	Voltage Range	Max. Current (Per Circuit)	Max. Current (Per Module)	Dimensions (W x H x D) (in.)	Indicator Circuit Current (Nominal)	Label Card Replacement Part Catalog Number ⊘
1492-AIFM4-3, -RAIFM4-3	010V DC	2 A	12 A	2.36 x 3.27 x 2.74	_	46006-205-01
1492-AIFM4C-F-5	1030V DC	2 A	12 A	3.15 x 3.27 x 2.74	2 mA	46006-203-01
1492-AIFM4I-F-5	1030V DC	2 A	12 A	3.15 x 3.27 x 2.74	2 mA	46006-203-01
1492-AIFM6S-3, -RAIFM6S-3	0132V AC/DC	2 A	12 A	3.15 x 3.27 x 2.74	_	46006-202-01
1492-AIFM6TC-3	0132V AC/DC	2 A	12 A	3.15 x 3.27 x 2.74	_	46006-202-01
1492-AIFMCE4	530V DC	2 A	8 A	5.12 x 3.27 x 2.74	_	46006-232-01
1492-AIFMCE4-F	530V DC	2 A	8 A	5.12 x 3.27 x 2.74	1 mA @ 5V DC 6 mA @ 24V DC	46006-232-01
1492-AIFM8-3, -RAIFM8-3	0132V AC/DC	2 A	12 A	4.33 x 3.27 x 2.74	_	46006-200-01, 46006- 238-01
1492-AIFM8-F-5	1030V DC	2 A	12 A	4.72 x 3.27 x 2.74	2 mA	46006-196-01, -254- 01
1492-AIFM16-F-3	1030V DC	2 A	12 A	4.72 x 3.27 x 2.74	2 mA	46006-213-01
1492-AIFM16-F-5	1030V DC	2 A	12 A	8.27 x 3.27 x 2.74	2 mA	46006-198-01
1492-AIFMQS	1030V DC	3 A	12 A	4.72 x 3.27 x 2.74	_	46006-199-01
1492-AIFMPI	030V DC	2 A	12 A	4.72 x 3.27 x 2.74	2 mA	46006-243-01

- Dimensions are in inches. To convert to millimeters, multiply inches by 25.4.
- 2 Ships with each module. For spare part, precede part number with the letter "W."

Quick Reference, Continued

Relay Master/Expandable Interface Module Specifications o

Relay Master/Expandable XIM Catalog Number	Relay Coil Voltage Range	Max. Current (Per Circuit/ Per Relay Pair)	Max. Current (Per Module)	Dimensions (W x H x D) (in.)	Indicator Circuit Current (Nominal)	Label Card Replacement Part Catalog Number ⊗
1492-XIM4024-16R, -RXIM4024- 16R	2026V DC	10/12 A	96 A	9.06 x 3.27 x 2.78	2 mA	46006-222-01
1492-XIM4024-8R	2026V DC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-216-01
1492-XIM2024-8R	2026V DC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-216-01
1492-XIM20120-8R	96132V AC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-216-01
1492-XIM24-8R, -RXIM24-8R	2026V DC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-217-01
1492-XIM120-8R	96132V AC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-217-01
1492-XIM2024-16R	2026V DC	10/12 A	96 A	10.65 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIM2024-16RF	2026V DC	10/12 A	96 A	10.65 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIM20120-16R	96132V AC	10/12 A	96 A	10.65 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIM20120-16RF	96132V AC	10/12 A	96 A	10.65 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIM4024-16RF	2026V DC	10/12 A	96 A	11.05 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIMF-2	0132V AC/DC	2/NA A	4 A	3.15 x 3.27 x 2.19	_	46006-218-01
1492-XIMF-F24-2	1030V DC	2/NA A	4 A	3.15 x 3.27 x 2.28	2 mA	46006-218-01
1492-XIMF-F120-2	85132V AC	2/NA A	4 A	3.15 x 3.27 x 2.28	2 mA	46006-218-01
1492-XIM24-16RF	2026V DC	10/12 A	96 A	11.05 x 3.27 x 2.78	2 mA	46006-219-01

[•]Dimensions are in inches. To convert to millimeters, multiply inches by 25.4.

1764-24AWA and -24BWA Base Unit Output Current Ratings when using 1492-IFM20x Modules

IFM Cat. Number	Voltage Range	1764-24AWA & 24BWA Max. Current/Output using IFM	Max. Current per IFM Module	IFM Module Indicator Circuit Current	Operating Ambient Temperature	
1492-IFM20F	0264V AC	(Out 0-Out 3) 2 Amps	12 Amps	NA	0°C to 60°C	
1432-11 101201	10125V DC	(Out 4-Out 11) 1 Amps	12 Amps	IVA	0 0 10 00 0	
1492-IFM20FN	0132V AC	(Out 0-Out 3) 2 Amps	12 Amps	NA	0°C to 60°C	
1432-11 IVIZUI IV	10125V DC	(Out 4-Out 11) 1 Amps	12 Amps	IVA	0 0 10 00 0	
1492-IFM20F-2	0264V AC	(Out 0-Out 3) 2 Amps	12 Amps	NA	0°C to 60°C	
1402-11 101201-2	10125V DC	(Out 4-Out 11) 1 Amps	12 Allips	IVA	0 0 10 00 0	

②Ships with each module. For spare part, precede part number with the letter "W."

Note: For inputs use standard 2 A/circuit ratings

1764-28BXB Base Unit Output Current Ratings when using 1492-IFM20x Modules

IFM Cat. Number	Voltage Range	1764-2BXB Max. Current/Output using IFM	Max. Current per IFM Module	IFM Module Indicator Circuit Current	Operating Ambient Temperature
	0264V AC	(Out 0-Out 1) 2 AMP			
1492-IFM20F	10125V DC	(Out 8-Out 11) 1 AMP	12 Amps	NA	0°C to 60°C
	24V DC	(Out 2-Out 7) 0.5 AMP			
	0132V AC	(Out 0-Out 1) 2 AMP			
1492-IFM20FN	10125V DC	(Out 8-Out 11) 1 AMP	12 Amps	NA	0°C to 60°C
	24V DC	(Out 2-Out 7) 0.5 AMP			
	0264V AC	(Out 0-Out 1) 2 AMP			
1492-IFM20F-2	10125V DC	(Out 8-Out 11) 1 AMP	12 Amps	NA	0°C to 60°C
	24V DC	(Out 2-Out 7) 0.5 AMP			

Note: For inputs use standard 2 A/circuit ratings

1762-L40AWA and -L40BWA Base Unit Output Current Ratings when using 1492-IFM40x Module

IFM Cat. Number	Voltage Range	1762-L40AWA & -L40BWA max. Current/Output using IFM	Max. Current per IFM Module	IFM Module Indicator Circuit Current	Operating Ambient Temperature	
1492-IFM40F	0132V AC	(Out 0-Out 3) 2 Amps	12 Amps	NA	0°C to 60°C	
1432-11 101401	10125V DC	(Out 4-Out 15) 1 Amps	12 Amps	IVA	0 0 10 00 0	
1492-IFM40F-2	0264V AC	(Out 0-Out 3) 2 Amps	12 Amps	NA	0°C to 60°C	
1432-11 101401-2	10125V DC	(Out 4-Out 15) 1 Amps	12 Amps	IVA	0 6 10 00 6	

Note: For inputs use standard 2 A/circuit ratings.

1762-L40BXB Output Current Ratings when using 1492-IFM40x Modules

IFM Cat. Number	Voltage Range	1762-L40BXB Max. Current/Output using IFM	Max. Current per IFM Module	IFM Module Indicator Circuit Current	Operating Ambient Temperature
	0132V AC	(Out 0,1,10,11) 2 AMP			
1492-IFM40F	10125VD C	(Out 12-Out 15) 1 AMP	12 Amps	NA	0°C to 60°C
	24V DC	(Out 2-Out 9) 0.5 AMP	=		
	0264V AC	(Out 0,1,10,11) 2 AMP			
1492-IFM40F-2	10125V DC	(Out 12-Out 15) 1 AMP	12 Amps	NA	0°C to 60°C
	24V DC	(Out 2-Out 9) 0.5 AMP			

Note: For inputs use standard 2 A/circuit ratings.

General Wiring System Specifications

Parameter	Specifications
Agency Certifications: Modules and Cables	cULus: Hazardous Locations; Class I Div 2 (all modules, except those with relays); Groups A, B, C, and D. Temperature Code T3C @ 60°C. UL File E10314, Guide No. NRAG
	cULus: Ordinary Locations; Module with relays, UL File E113724, Guide No. NRAQ
Agency Certification Modules	Factory Mutual (FM): Hazardous Locations; Class I Di v 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
Maximum Peak Transient Voltage	600V ①
Terminal Block Wire Range (Rated Cross Section)	Fixed Screw Style: #12#22 AWG (4.00.2 mm²) Removable Screw Style: #12 to #22 AWG 2.50.5 mm²) Removable Push-in Style: #12 to #26 AWG (2.50.2mm²)
Wire Strip Length	Fixed Screw Style:.32 in. (8.0 mm) Removable Screw Style:.28 in. (7.0 mm) Removable Push-in Style:.39 in. (10.0 mm)
Recommended Terminal Block Screw Torque	Fixed Screw Style: 3.54.5 lb-in. (0.380.50 Nm) Removable Screw Style: 3.54.5 lb-in. (0.380.50 Nm) Removable Push-in Style: NA (See Figure 1)
Operating Temperature Range	0+60°C
Operating Humidity	5% to 95% non-condensing
Storage Temperature Cables	-20+80°C
Storage Temperature Modules	-40+85°C
Pollution Degree	2 2

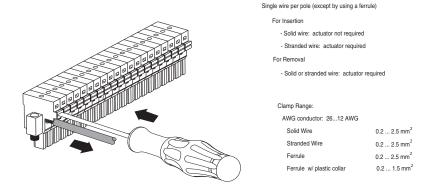
- For transients > 600V use a UL Recognized suppression device rated at 2.5 kV withstand.
- Pollution Degree 2 is an environment where normally only non-conduction pollution occurs, except for occasional temporary conductivity caused by condensation shall be expected.

Fixed Screw Style Terminal Block

Max. AWG	#22	#20	#18	#16	#14	#12
Max. No. of Wires per Terminal O	3	3	3	2	1	1

 $\bullet \ \text{Maximum number of the same gauge of wire stranded copper conductors allowed per wire funnel}$

Figure 1 — Push-in RTB Plug Specifications

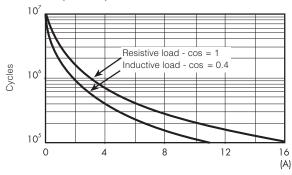


Maximum Switching Capacity Relay Contact Rating

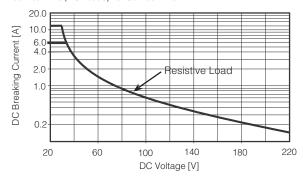
Rated Thermal Current (<i>I_{th}</i>) Rated Thermal Current (<i>UI</i>)		1-pole, 1 CO, SPDT - 16 A ● 250V IEC, 300V UL/CSA ●		
		240VAC	AC-15, 3.1 A B300 Pilot duty, 1.5A 3/4 Hp (0.55 kW) 1-phase	
		230VAC	0.55 kW 1-phase	
	Inductive VDC	24VDC	DC-13, 5.0 A	
		125VDC	DC-13, 0.2 A R300 Pilot Duty, 0.22 A	
		250VDC	DC-13, 0.1 A R300 Pilot duty, 0.11 A	
	Resistive	23VAC	AC-1, 16 A o	
		277VAC	16A General use ●	
	Make, Break, and Continuous	30VDC	DC-1, 12 A 10 A, Resistive	
Minimum Pern Rating	m Permissible Contact 300 mW (5V/60 mA or 60V/5 mA) for silver		0 mA or 60V/5 mA) for silver contacts	

- Maximum module current:
 -10 Amp per relay output
 -12 Amps per 2 adjacent relay outputs
 Panlacement relays:
- Replacement relays:
 -24V DC control (coil) voltage (Cat. No. 700-HK36Z24)
 -120V AC control (coil) voltage (Cat. No. 700-HK36A1)

Bul. 700-HK36 SPDT Electrical Life (AC Loads) vs. Contact Life



Bul. 700-HK36 Maximum DC1 Breaking Capacity Electrical Life (DC Loads) vs. Contact Life



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of \geq 100 x 10³ can be expected.
- In case of inductive loads (DC13), the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.

 Note: The release time for the load will be increased.

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