## 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.

**1492 – CAB 010 A6x**

**Bulletin No.**

**Digital Interface Cable**

| Standard or Build-to-Order Length Cable | | |
|---|---|---|
| 005 | 0.5 m (1.64 ft) | Standard Length |
| 010 | 1.0 m (3.28 ft) | |
| 025 | 2.5 m (8.20 ft) | |
| 050 | 5.0 m (16.40 ft) | |
| 001…020 | 0.1…2.0 m (0.328…6.56 ft)<br>0.1 m (0.328 ft) increments | Build-to-Order Length |
| 020…100 | 2.0…10.0 m (6.56…32.8 ft)<br>0.5 m (1.64 ft) increments | |
| 100…300 | 10.0…30.0 m (32.8…98.4 ft)<br>1.0 m (3.28 ft) increments | |

| Cable Type for Bul. 1492-CAB010A62 | |
|---|---|
| A62, B62 | Pre-wired cables for Bulletin 1762 40 I/O controllers |
| X62 | I/O-ready cable for 1762-L40AWA, -L40BXB, and -L40BWA inputs |
| T62 | I/O-ready cable for 1762-L40AWA, -L40BXB and -L40BWA outputs |

| Cable Type for Bul. 1492-CAB010A64 | |
|---|---|
| A64, B64, C64, F64 | Pre-wired cables for Bulletin 1764 I/O base units |
| W64 | I/O-ready cable for 1764-24AWA, -24BWA base unit inputs |
| X64 | I/O-ready cable 1764-28BXB base unit inputs |
| T64 | I/O-ready cable for1764-24AWA, -24BWA base unit outputs |
| U64 | I/O-ready cable for 1764-28BXB base unit outputs |

## 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.

**1492 – CAB 010 A94**

**Bulletin No.**

**Digital Interface Cable**

| Standard or Build-to-Order Length Cable | | |
|---|---|---|
| 005 | 0.5 m (1.64 ft) | Standard Length |
| 010 | 1.0 m (3.28 ft) | |
| 025 | 2.5 m (8.20 ft) | |
| 050 | 5.0 m (16.40 ft) | |
| 001-020 | 0.1…2.0 m (0.328…6.56 ft)<br>0.1 m (0.328 ft increments) | Build-to-Order Length |
| 020-100 | 2.0…10.0 m (6.56…32.8 ft)<br>0.5 m (1.64 ft) increments | |
| 100-300 | 10.0…30.0 m (32.8…98.4 ft)<br>1.0 m (3.28 ft) increments | |

| Cable Type | |
|---|---|
| A94 | Pre-wired cables for Bulletin 1794 Flex digital I/O using the Bulletin 1794-TB37DS base |
| B94 | Pre-wired cables for Bulletin 1794 Flex digital I/O using the Bulletin 1794-TB62DS base |
| G94 | Digital I/O ready cable for digital I/O using the Bulletin 1794 TB37DS base |
| H94 | Digital I/O ready cable for digital I/O using the Bulletin 1794 TB62DS base |

## Selection Tables, Continued

## 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.
5. Configure the cable catalog number using 1492-CAB❶. See footnote ❶ 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 System Module with Fixed Terminal Block | Cat. No. for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately | 1762 Embedded I/O Controller | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | -L40AWA Inputs | -L40BWA Inputs | -L40BXB Inputs | -L40AWA Outputs | -L40BWA Outputs | -L40BXB Outputs |
| **Feed-through** | | | | | | | | |
| Standard 132V AC/DC Max. | 1492-IFM40F❶ | 1492-RIFM40F❶❷ | A62 | A62 | A62 | B62 | B62 | B62 |
| Extra terminals 132V AC/DC Max. | 1492-IFM40F-2❶ | 1492-RIFM40F-2❶❷ | A62 | A62 | A62 | B62 | B62 | B62 |

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

❷ Compatible Removable Terminal Block (RTB) plug; 1492-RTB20N (screw style terminlas) or 1492-RTB20P (push-in style terminals). 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 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-CAB❶A62 | 0.5, 1.0, 2.5, 5.0 | Yes | 40 | -L40AWA Inputs, -L40BWA Inputs, -L40BXB Inputs |
| 1492-CAB❶B62 | 0.5, 1.0, 2.5, 5.0 | Yes | 40 | -L40AWA Outputs, -L40BWA Outputs, -L40BXB Outputs |

❶ 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.

## Selection Tables, Continued

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 Conductors❸ | Mating 1762-L40x Embedded I/O Controller |
|---|---|---|---|---|
| 1492-CAB❷T62 | 1.0, 2.5, 5.0 m | Yes | 25 | -L40AWA Outputs, -L40BWA Outputs, -L40BXB Outputs |
| 1492-CAB❷X62 | 1.0, 2.5, 5.0 m | Yes | 40 | -L40AWA Inputs, -L40BWA Inputs, -L40BXB Inputs |

❷ I/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.

❸ 1492-CAB❶T62 uses 18AWG wire and 1492-CAB❶X62 uses 22AWG wire.

## 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 Wiring System Module with Fixed Terminal Block | Catalog Number for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately | 1764 Base Unit I/O | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | AWA Inputs | BWA Inputs | BXB Inputs | AWA Outputs | BWA Outputs | BXB Outputs |
| **Feed-through** | | | | | | | | |
| Standard 264Vac/dc Max. | 1492-IFM20F❶ | 1492-RIFM20F❶❷ | A64 | A64 | B64 | C64 | C64 | F64 |
| Narrow standard 132Vac/dc Max. | 1492-IFM20FN❶ | 1492-RIFM20FN❶❸ | A64 | A64 | B64 | C64 | C64 | F64 |
| With Extra terminals (2 per I/O) 264Vac/dc Max. | 1492-IFM20F-2❶ | 1492-RIFM20F02❶❷ | A64 | A64 | B64 | C64 | C64 | F64 |

❶ 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

❷ Compatible Removablae Terminal Block (RTB) 1492-RTB20N (screw style terminal) or 1492-RTB20P (push-in style terminal, available March 2006). ORDER PLUGS SEPARATELY.

❸ 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-CAB❶A64 | 0.5, 1.0, 2.5, 5.0 | Yes | 20 | AWA Inputs, BWA Inputs |
| 1492-CAB❶B64 | 0.5, 1.0, 2.5, 5.0 | Yes | 20 | BXB Inputs |
| 1492-CAB❶C64 | 0.5, 1.0, 2.5, 5.0 | Yes | 20 | AWA Outputs, BWA Outputs |
| 1492-CAB❶F64 | 0.5, 1.0, 2.5, 5.0 | Yes | 20 | BXB Output |

❶ 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.

**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 |
|---|---|---|---|---|
| 1492-CAB❶L69 | 0.5, 1.0, 2.5, 5.0 m | Yes | 20 | 1769-OB8 |
| 1492-CAB❶M69 | 0.5, 1.0, 2.5, 5.0 m | Yes | 20 | 1769-OA16, -OW16 (IFM modules with multiple commons) |
| 1492-CABLE❶H | 0.5, 1.0, 2.5, 5.0 m | Yes | 40 | 1769-IQ32T, -OB32T, -OV32T |

❶ 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-OB16 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 ❹**

| Cable Catalog Number | Standard Cable Lengths | Build-to-Order Available | No. of Conductors | Mating 1769 I/O Module Catalog Number |
|---|---|---|---|---|
| 1492-CAB❸RTN10 | 1.0, 2.5, 5.0 m | Yes | 12 | 1769-OA8, -OW8 |
| 1492-CAB❸RTN18 | 1.0, 2.5, 5.0 m | Yes | 20 | 1769-IA8I, -IA16, -IQ16, -IQ16F, -OA16, -OB16, -OV16, -OW16, -OW8I, -IM12, -OB8 |
| 1492-CAB❸RTN32I | 1.0, 2.5, 5.0 m | Yes | 40 ❷ | 1769-IQ32 |
| 1492-CAB❸RTN32O | 1.0, 2.5, 5.0 m | Yes | 40 ❷ | 1769-OB32 |
| 1492-CABLE❸N3 | 1.0, 2.5, 5.0 m | Yes | 40 ❷ | 1769-IQ32T, -OB32T, -OV32T |

❷ 1492-CAB❸ RTN32I and 1492-CAB❸ RTN32O cables use 22 AWG wire.

❸ 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.

❹ 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.

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

| Description of 20-PIN IFM and Flex Distributed I/O | Cat. No. for Wiring System Module with Fixed Terminal Block | Cat. No. for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately | Cat. No. for Compatible Screw Style (N) and Push-in Style (P) RTB Plugs ❶ | Flex Digital I/O Module — Uses D-Shell Base 1794-TB37DS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | IB16 | IB8 | IB10XOB6 | IV16 | OB16 | OB16P | OB8 | OB8EP | OV16 | OV16P | OW8 |
| **Relay Master (LED Indicating) ❺❻** | | | | | | | | | | | | | | |
| 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) ❺❻** | | | | | | | | | | | | | | |
| Expander with eight (8) 24V DC relays | 1492-XIM24-8R | 1492-RXIM24-8R | 1492-RTB12✪ | — | — | — | — | ❷ | ❷ | — | — | — | — | — |
| 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 | — | — | — | — | — | — | ❷ | ❷ | — | — | — | — | — |
| 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 | — | — | — | — | — | — | ❷ | ❷ | — | — | — | — | — |

❶ 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.
❷ Can have up to one relay expansion module depending upon relay master used (total 16 points or less). Extender cable is provided.
❸ 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.
❹ 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.
❺ The voltage rating is relay control/coil voltage. For Relay Contact Ratings, refer to page 192.
❻ 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 ❸

| Description of 40-PIN IFM | Cat. No. for Wiring System Module with Fixed Terminal Block | Cat. No. for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately) | Cat. No. for Compatible Screw Style (N) and Push-in Style (P) RTB Plug ❻ | Flex Digital I/O Module — Uses D-Shell Base 1794-TB62DS… | | | |
|---|---|---|---|---|---|---|---|
| | | | | IB16D | IB16XOB16P | IB32 | OB32P |
| **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 | — | — | — | — | — | — |

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

| Description of 40-PIN IFM | Cat. No. for Wiring System Module with Fixed Terminal Block | Cat. No. for Wiring System Module with Removable Terminal Block Socket Assembly (order plugs separately) | Cat. No. for Compatible Screw Style (N) and Push-in Style (P) RTB Plug ❻ | Flex Digital I/O Module — Uses D-Shell Base 1794-TB62DS… | | | |
|---|---|---|---|---|---|---|---|
| | | | | IB16D | IB16XOB16P | IB32 | OB32P |
| 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) ❹❺** | | | | | | | |
| 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) ❹❺** | | | | | | | |
| Expander with eight (8) 24V DC relays | 1492-XIM24-8R | 1492-RXIM24-8R | 1492-RTB12✪ | — | — | — | ❶ |
| 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 | — | — | — | — | — | ❶ |
| 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 | — | — | — | — | — | ❷ |
| **Feed through Expander** | | | | | | | |
| Expander with eight (8) feed-through channels | 1492-XIMF-2 | — | — | — | — | — | ❶ |

❶ 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.

❷ One 1492-XIM24-16RF is to be used with one 1492-XIM4024-16R AND 1492-XIM4024-16RF master (32 PT. only).

❸ 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

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

❺ The LED indicates the PLC output status.

❻ 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-CAB❶A94 | 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-CAB❶B94 | 0.5, 1.0, 2.5, 5.0 m | Yes | 40 | 1794-TB62DS | 1794-IB16D, -IB32, -OB32P, -IB16XOB16P |

❶ 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-CAB❶G94 | 1.0, 2.5, 5.0 m | Yes | 20 | 1794-TB37DS | 1794-IB16, -IB8, -IV16, -OB16, -OB16P, -OB8, –OB8EP, -OV16, -OV16P,-OW8, -IB10XOB8 |
| 1492-CAB❶H94 | 1.0, 2.5, 5.0 m | Yes | 40 | 1794-TB62DS | 1794-IB16D, -IB32, -OB32P, -IB16XOB16P |

❶ 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 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-CAB❶A7H | 0.5, 1.0, 2.5, 5.0 m | Yes | 20 | 20C-DA1-A and 20C-DO1 |
| 1492-CAB❶B7H | 0.5, 1.0, 2.5, 5.0 m | Yes | 20 | 20C-DA1-B and 20C-DO1 |
| 1492-CAB❶A7S | 0.5, 1.0, 2.5, 5.0 m | Yes | 20 | Terminal TB2 |

❶ 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-DO1 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) | 700H Drive I/O Module | 700S Drive I/O Module | |
|---|---|---|---|---|---|
| | | | 20C-DA1-A or 20C-DA1-B | TB1 (Pins 1…12) | TB1 (Pins 13…24) |
| **Feed-through** | | | | | |
| 6-channel isolated with 3…4 terminals/channel | 1492-AIFM6S-3 | 1492-RIFM6S-3❶ | 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 |

❶ 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-ACAB❶Z7H | 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-ACAB❶Z7S | 0.5, 1.0, 2.5, 5.0 m | Yes | 25-Pin D-Shell | Terminal TB1 (DINS 1…12) |
| 1492ACAB❶Z7S | 0.5, 1.0, 2.5, 5.0 m | Yes | 25-Pin D-Shell | Terminal TB2 (DINS 13…24) |

❶ 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.