

### 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 ❶ (for digital cables) or 1492-ACABLE ❶ (for analog cables). See footnote ❶ on pages 34 and 35.

### Bulletin 1746 SLC 500 IFMs and Cables

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

Description of 20-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)	I/O Module Catalog Number 1746-...																								
			IA16	IB16	IC16	IG16	IH16	IM16	IN16	ITB16	ITV16	IV16	OA16	OB16	OB16E	OBP16	OG16	OV16	OVPI6	OW16	OX8	sc-IA8❸	sc-IB8❸	sc-IC8❸	sc-OAP8❸		
<b>Feed-through</b>																											
Standard 264V AC/DC Max.	1492-IFM20F	1492-RIFM20F❹	A	B	B	E	B	A	B	B	B	B	C	E	E	E	E	E	E	D	D	A	B	B	A		
Narrow standard 132V AC/DC Max.	1492-IFM20FN	1492-RIFM20FN❺	A	B	B	E	B	—	B	B	B	B	G	E	E	E	E	E	E	N	N	A	B	B	A		
Extra terminals (2 per I/O) 264V AC/DC Max.	1492-IFM20F-2	1492-RIFM20F-2❹	A	B	B	E	B	A	B	B	B	B	C	E	E	E	E	E	E	D	—	—	—	—	—		
3-wire sensor type input devices 132V AC/DC Max.	1492-IFM20F-3	—	A	B	B	E	B	—	B	B	B	B	—	—	—	—	—	—	—	—	—	—	—	—	—		
<b>LED Indicating</b>																											
Standard with 24V AC/DC LEDs	1492-IFM20D24	—	—	B	—	—	—	—	B	B	B	B	—	E	E	E	—	E	E	D	—	—	—	—	—		
Narrow standard with 24V AC/DC LEDs	1492-IFM20D24N	—	—	B	—	—	—	—	B	B	B	B	—	E	E	E	—	—	—	N	—	—	—	—	—		

Note: Footnotes are on page 31.

## Selection Tables, Continued

### Bulletin 1746 SLC 500 AIFMs and Cables

#### Bulletin 1746 Analog I/O Modules ❶

Description of AIFM	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)	I/O Module Catalog Number 1746-...														
			HSC2 (Diff.)	HSC2Z (Diff.)	FIO4I	FIO4V	NI4	NI8	NI04I	NI04V	NO4I	NO8I	NO4V	NO8V	NR4	QS	NI16I
<b>Feed-through</b>																	
4-channel input, output or 2-in/2-out combination with 3 terminals/channel	1492-AIFM4-3	1492-RAIFM4-3❸	—	—	L	L	A	—	L	L	B	—	B	—	—	—	—
6-channel isolated with 3...4 terminals/channel	1492-AIFM6S-3	1492-RAIFM6S-3❹	—	—	—	—	—	—	—	—	—	—	—	—	D	—	—
8- or 16-channel input or output with 3 terminals/channel	1492-AIFM8-3	1492-RAIFM8-3❺	—	—	—	—	—	C	—	—	—	R	—	R	—	A46	A46
<b>Thermocouple</b>																	
6-channel with 3 terminals/channel❷	1492-AIFM6TC-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>High-Speed Counter/Encoder</b>																	
2-channel center input/2 outputs	1492-AIFMCE4	—	K	P	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Fusible High Speed Counter/Encoder</b>																	
2-channel fused counter input/4 fused outputs	1492-AIFMCE4-F	—	K	P	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Fusible Analog</b>																	
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	—	—	—	—	—	A	—	—	—	—	—	—	—	—	—	—
8-channel input with 24V DC blown fuse indicators, 5 terminals/channel	1492-AIFM8-F-5	—	—	—	—	—	—	C	—	—	—	—	—	—	—	—	—
16-channel input with 24V DC blown fuse indicators, 3 terminals/channel	1492-AIFM16-F-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A46	A46
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	—	—

- 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), and insert the letter in the box. Example: **Catalog Number 1492-ACABLE025A** is for a 2.5 m cable, and the letter A.
- ❷ Cannot be used with SLC I/O.
- ❸ Compatible Removable Terminal Block (RTB) plug; 1492-RTB8N (screw style terminals) or 1492-RTB8P (push-in style terminals). ORDER PLUGS SEPARATELY.
- ❹ Compatible Removable Terminal Block (RTB) plug; 1492-RTB12N (screw style terminals) or 1492-RTB12P (push-in style terminals). ORDER PLUGS SEPARATELY.
- ❺ 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-ACABLE❶A	0.5, 1.0, 2.5, 5.0	Yes	15-pin D-shell	1746-NI4
1492-ACABLE❶B	0.5, 1.0, 2.5, 5.0	Yes	15-pin D-shell	1746-NO4I, -NO4V
1492-ACABLE❶C	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-NI8
1492-ACABLE❶D	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-NR4
1492-ACABLE❶K	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-HSC2
1492-ACABLE❶L	0.5, 1.0, 2.5, 5.0	Yes	15-pin D-shell	1746-NIO4I, -NIO4V, -FIO4I, -FIO4V
1492-ACABLE❶P	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-HSC2Z
1492-ACABLE❶Q	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-QS
1492-ACABLE❶R	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-NO8I, NO8V
1492-ACAB❶A46	0.5, 1.0, 2.5, 5.0	Yes	25-pin D-shell	1746-NI16I, -NI16V

- ❶ 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 I/FM 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-CABLE❶ (for digital cables) or 1492-ACABLE❶ (for analog cables). See footnote ❶ on pages 40 and 42.

## Bulletin 1756 ControlLogix IFMs and Cables

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

Description of 20-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)	I/O Module Catalog Number 1756-...													
			IA8D	IA16	IB16	IC16	IN16	IV16	OA8	OA8D	OAE	OA16	OB8	OB16E	OC8	ON8
<b>Feed-through</b>																
Standard 264V AC/DC Max.	1492-IFM20F	1492-RIFM20F❶	U	X	X	X	X	X	U	U	U	X	U	X	U	X
Narrow standard 132V AC/DC Max.	1492-IFM20FN	1492-RIFM20FN❶	U	X	X	X	X	X	U	U	U	X	U	X	U	X
Extra terminals (2 per I/O) 264V AC/DC Max.	1492-IFM20F-2	1492-RIFM20F-2❶	U	X	X	X	X	X	U	U	U	X	U	X	U	X
3-wire sensor type input devices 132V AC/DC Max.	1492-IFM20F-3	—	—	X	X	X	X	X	—	—	—	—	—	—	—	—
<b>LED Indicating</b>																
Standard with 24V AC/DC LEDs	1492-IFM20D24	—	—	—	X	—	X	X	—	—	—	—	—	X	—	X
Narrow standard with 24V AC/DC LEDs	1492-IFM20D24N	—	—	—	X	—	X	X	—	—	—	—	—	X	—	—
Standard with 120V AC/DC LEDs	1492-IFM20D120 ❶	—	U	X	—	—	—	—	—	—	—	—	—	—	—	—
Narrow standard with 120V AC LEDs	1492-IFM20D120N	—	U	X	—	—	—	—	—	—	—	X	—	—	—	—
24V AC/DC LEDs and extra terminals for outputs	1492-IFM20D24-2	—	—	—	—	—	—	—	—	—	—	—	—	X	—	X
24V AC/DC LEDs and extra terminals for inputs	1492-IFM20D24A-2	—	—	—	X	—	X	X	—	—	—	—	—	—	—	—
120V AC LEDs and extra terminals for outputs	1492-IFM20D120-2	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—
120V AC LEDs and extra terminals for inputs	1492-IFM20D120A-2	—	U	X	—	—	—	—	—	—	—	—	—	—	—	—
3-wire sensor with 24V AC/DC LEDs	1492-IFM20D24-3	—	—	—	X	—	X	X	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Fusible</b>																
120V AC/DC with extra terminals for outputs	1492-IFM20F-F-2	1492-RIFM20F-F-2❶	—	—	—	—	—	—	—	—	—	X	—	X	—	X
Extra terminals with 24V AC/DC blown fuse LED indicators	1492-IFM20F-F24-2	1492-RIFM20F-F24-2❶	—	—	—	—	—	—	—	—	—	—	—	X	—	X
Extra terminals with 120V AC/DC blown fuse LED indicators	1492-IFM20F-F120-2	1492-RIFM20F-F120-2❶	—	—	—	—	—	—	—	—	—	X	—	—	—	—

**Note: Footnotes are on the following page.**

## Selection Tables, Continued

### 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-ACABLE01M	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1757-PIM
1492-ACABLE01X	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Current
1492-ACABLE01Y	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Voltage, -IT6I, -OF6CI, -OF6VI
1492-ACABLE01YT	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IT6I2
1492-ACABLE01Z	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IR6I, -IF6CIS
1492-ACABLE01TA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF8 Single-Ended Voltage
1492-ACABLE01TB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF8 Single-Ended Current
1492-ACABLE01TC	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF8 Diff. Voltage
1492-ACABLE01TD	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF8 Diff. Current
1492-ACABLE01UA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Single-Ended Voltage
1492-ACABLE01UB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Single-Ended Current
1492-ACABLE01UC	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Diff. Voltage, -IF8H (Voltage)
1492-ACABLE01UD	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF16 Diff. Current, IF8H (Current/Hart)
1492-ACABLE01VA	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1756-OF4 Voltage
1492-ACABLE01VB	0.5, 1.0, 2.5, 5.0 m	Yes	15-pin D-shell	1756-OF4 Current
1492-ACABLE01WA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-OF8 Voltage, -OF8H (Voltage)
1492-ACABLE01WB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-OF8 Current, -OF8H (Current/Hart)
1492-ACABLE01XA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-HSC (24V DC Diff.)
1492-ACABLE01XB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-HSC (5V DC Diff.)
1492-ACABLE01ZA	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF4FXOF2F (Cur In & Out)
1492-ACABLE01ZB	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF4FXOF2F (Volt In & Out)
1492-ACABLE01ZC	0.5, 1.0, 2.5, 5.0 m	Yes	25-pin D-shell	1756-IF4FXOF2F (Cur In & Volt Out)

- ① 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.