Bulletin 1492 In-Panel I/O Wiring System
Modules and Cables for Allen-Bradley
Programmable Controllers
Reduced Wiring Time, Accurate Connections
Simplify Your Wiring and Reduce Errors

Let's face it: in business, time is money. The last thing you can afford is costly downtime due to incorrect field wiring and troubleshooting your field operations. Quick and easy field wiring solutions not only help reduce your wiring time and maintenance costs, but they allow for more accurate connections.

Let us help you meet your project deadlines with our versatile line of Allen-Bradley I/O field wiring interface modules and cables that can help reduce in-panel programmable controller wiring to discrete (on/off) or analog field devices by up to 75%. This means quicker, more accurate connections between control and factory devices when compared to traditional wiring methods.

Have you struggled with assembling rails of terminal blocks or cutting stripping, labeling and terminating your 20 to 40 control wires per I/O module? With an Allen-Bradley Bulletin 1492 wiring systems solution you simply mount the interface module (IFM) onto a Standard DIN #3 rail. Then, attach the 1492 cable with its pre-wired programmable controller removable terminal block to the programmable controller I/O module and plug the connector into the IFM. In addition, a select group of modules have field Removable Terminal blocks (RTBs) to further simplify initial installation and replacement. It’s a snap!

Are wiring errors your concern? We can help you by providing point-to-point connections which reduce the likelihood of mistakes. Not only will you finish installation more quickly, but you’re most likely to be up and running the first time you start up your application.

Troubleshooting an assembled wiring system is easy should an I/O problem arise. Simply pinpoint the problem by looking for glowing LEDs or blown-fuse indicators on selected IFMs.

You’ll see troubleshooting in a whole new light. What have you got to lose? Except maybe more time with another wiring method.

Bulletin 1492 In-Panel Wiring Systems for Flex™ I/O

Bulletin 1492 In-Panel Wiring Systems for Flex™ I/O using Flex d-shell base modules

Bulletin 1492 In-Panel Wiring Systems for 1762 MicroLogix™ 1200 Controllers with 40 Embedded I/O

Bulletin 1492 In-Panel Wiring Systems for 1764 MicroLogix™ 1500 Base I/O Units
NOTE: In addition to the above Allen-Bradley PLCs, a select group of Bulletin 1492 wiring system modules interface to PowerFlex® 700S and 700H drive control I/O.
Reduce Control I/O Wiring Time and Errors

See for yourself some snapshots showing the benefits of faster point to point I/O wiring installation using a Bulletin 1492 wiring system compared with the traditional terminal block method.

Traditional I/O Wiring Assembly Process

0:23
The assembler begins the arduous task of measuring, and cutting each control wire.

1:08
The assembler using the traditional method has measured and cut about 10 of the 18 wires needed for the same job. And there are numerous steps remaining.

0:36
Continuing to measure and cut each control wire.

14:58
Still not done with wiring PLC module.

0:45
Assembler has begun the tagging process.

18:04
Wiring each terminal block one at a time.

24:37
Finally, half of the process is complete and PLC Module is wired and snapped into place.

34:34
Assembler begins tagging each wire before connecting it to the terminal blocks.

37:00
Traditional wiring process is now complete.

46:30
Traditional wiring process is now complete.
Bulletin 1492 I/O Wiring System Assembly Process

0:23
The assembler removes the Bulletin 1492 Interface Module (IFM) from its box and applies the supplied preprinted labels to mark the terminals.

0:36
Simply snaps the 1492 module to the DIN rail.

0:45
Assembler removes pre-wired 1492 cable from the box and connects the PLC end of the cable to the PLC.

1:04
Then routes the cable through the wire duct and snaps the other end of cable to the 1492 IFM Module.

1:08
Now the process is complete.

Time is Money!
You can achieve up to 75% savings on your control wiring time and reduce wiring errors when using a Bulletin 1492 Wiring System compared with wiring to traditional terminal blocks. To see a video comparing the two wiring methods go to www.ab.com/industrialcontrols/products/terminal_blocks_and_wiring/wiring/digital_interface.html and click on 1492 PLC Wiring System Timesaver Video under “Related Links.”
**WIRING SYSTEMS**

**BULLETIN 1492**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Features</th>
<th>Field Side</th>
<th>Terminal Types</th>
<th>Rated Voltage</th>
<th>Maximum Current</th>
<th>Degree of Protection</th>
<th>I/O Connection Pin Count</th>
<th>Connector/Body Dimensions</th>
<th>Cable O.D.</th>
<th>Field Terminal Wire Range (Rating/Cross Reference)</th>
<th>Indicator Circuit Current (Minimum)</th>
<th>Certifications</th>
</tr>
</thead>
</table>
| 1492 | 1492 Digital Interface Module |  • 20 or 40 Pin Latch Header  
• Supports 1756, 1769, 1746, 1794 and 1771 Modular I/O  
• Also supports 1594 Latch (VL, V1, 40P), Base I/O, TM8 and TM50 PowerFlex Control I/O | Standard | Extra Terminal  
• Standard  
• Extra Terminal  
• Fixed  
• Removable (Terminal as screw or push-in style) | 0..265V AC/DC | 2 A per Circuit | IP20 | 26 and 40 Latch Header | 230 mm (length) x 68 mm (height) x 83 mm x 50…75 mm | — | 22…41 AWG (0.2…4 mm²) | 2.2…2.6 mA | cULus: Standard Locations, CE  
• cULus: Hazardous Locations Class I DIV 1, 2, E, Factory Mutual |
<table>
<thead>
<tr>
<th>Terminal Blocks &amp; Wiring Systems</th>
<th>1492 Analog Interface Module Fused Interface Modules</th>
<th>1492 CABLE &amp; 1492-ACABLE &amp; 1492-ACAB</th>
<th>IFM Ready</th>
<th>I/O Ready</th>
</tr>
</thead>
<tbody>
<tr>
<td>1492 Analog Interface Module (Thermocouple)</td>
<td>1492 to PLC Pre-Wired Digital I/O Cable</td>
<td>1492 to PLC Pre-Wired Digital I/O Cable</td>
<td>1492 RM Ready Cables for Digital I/O</td>
<td>1492 I/O Ready Cables for Digital I/O</td>
</tr>
<tr>
<td>15 or 25 pin D-Shell to VFD with shield</td>
<td>Supports thermocouple input analog module</td>
<td>Supports 1756, 1794, 1746, 1734, 1771 I/O Platforms, 700H and 700S PowerFlex Control I/O</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>20 or 40 pin</td>
<td>Standard length cables — 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30 mm</td>
<td>15 and 25 pin</td>
<td>20 or 40 pin</td>
<td>20 or 40 pin</td>
</tr>
<tr>
<td>10…30V DC</td>
<td>12 A per module</td>
<td>2 A per Circuit</td>
<td>300V 80°C</td>
<td>2 A per connector</td>
</tr>
<tr>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
</tr>
<tr>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
</tr>
<tr>
<td>1492 Analog Interface Module Fused Interface Modules</td>
<td>1492 to PLC Pre-Wired Digital I/O Cable</td>
<td>1492 to PLC Pre-Wired Digital I/O Cable</td>
<td>1492 RM Ready Cables for Digital I/O</td>
<td>1492 I/O Ready Cables for Digital I/O</td>
</tr>
<tr>
<td>15 or 25 pin D-Shell to VFD with shield</td>
<td>Supports thermocouple input analog module</td>
<td>Supports 1756, 1794, 1746, 1734, 1771 I/O Platforms, 700H and 700S PowerFlex Control I/O</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>20 or 40 pin</td>
<td>Standard length cables — 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30 mm</td>
<td>15 and 25 pin</td>
<td>20 or 40 pin</td>
<td>20 or 40 pin</td>
</tr>
<tr>
<td>10…30V DC</td>
<td>12 A per module</td>
<td>2 A per Circuit</td>
<td>300V 80°C</td>
<td>2 A per connector</td>
</tr>
<tr>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
</tr>
<tr>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
</tr>
<tr>
<td>1492 Analog Interface Module Fused Interface Modules</td>
<td>1492 to PLC Pre-Wired Digital I/O Cable</td>
<td>1492 to PLC Pre-Wired Digital I/O Cable</td>
<td>1492 RM Ready Cables for Digital I/O</td>
<td>1492 I/O Ready Cables for Digital I/O</td>
</tr>
<tr>
<td>15 or 25 pin D-Shell to VFD with shield</td>
<td>Supports thermocouple input analog module</td>
<td>Supports 1756, 1794, 1746, 1734, 1771 I/O Platforms, 700H and 700S PowerFlex Control I/O</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>20 or 40 pin</td>
<td>Standard length cables — 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30 mm</td>
<td>15 and 25 pin</td>
<td>20 or 40 pin</td>
<td>20 or 40 pin</td>
</tr>
<tr>
<td>10…30V DC</td>
<td>12 A per module</td>
<td>2 A per Circuit</td>
<td>300V 80°C</td>
<td>2 A per connector</td>
</tr>
<tr>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
<td>1492-ACABLE &amp; 1492-ACAB</td>
</tr>
<tr>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
<td>IFM Ready</td>
</tr>
</tbody>
</table>

www.ab.com/components
Selection Overview

Please refer to the Bulletin 1492 Wiring Systems Technical Data and the Allen-Bradley Industrial Controls catalog for detailed in formation and catalog number explanations.

Types of Controllers:

Programmable Automation Controllers:

- CompactLogix, ControlLogix and FlexLogix™
  - Merge PC-based and PLC architecture
  - Provide multidiscipline automation (i.e., process, discrete, motion, drive and batch) within a single hardware and software platform
  - Provide scalability and application portability within an open, modular architecture (number) and the column I/O module). The "Letter Code" represents the suffi  x of the pre-wired cable.

Programmable Logic Controllers are:

- MicroLogix, PLC-5®, SLC500
  - Implement specific functions such as:
    - I/O control
    - logic
    - timing
    - communication
    - report generation
    - data file manipulation
    - arithmetic
    - counting

Modules:

- IFM – Interface Module
- RTB – Removable Terminal Block
- RIFM – RTB Style IFM
- XIM – Relay Master/Expander
- RXIM – RTB Style XIM
- AIFM – Analog IFM
- RAIFM – RTB Style Analog IFM

Product Selection Tools

Great tools for you to use for easier product selection.

2. On-line catalog at www.ab.com
4. Industrial Controls Catalog

Allen-Bradley and Rockwell Software are trademarks of Rockwell Automation, Inc.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 3201 South Second Street, Milwaukee, WI 53214 USA. Tel: (262) 465-3899, Fax: (262) 465-3896
Europe/Middle East/Africa: Rockwell Automation, Nasslaustrasse 64, 13357 Berlin, Germany. Tel: (30) 2 667 6600, Fax: (30) 2 667 6640
Asia/Pacific: Rockwell Automation, Level 9, Cent. P. Cyberpark 3, 195 Cyberport Road, Hong Kong. Tel: (852) 2883 8799, Fax: (852) 2883 8822

Publication H00-ABtech-04-P - January 2008
Supersedes Publication H00-PPE0101-EN-P - November 2006

Copyright ©2009 Rockwell Automation, Inc. All Rights Reserved. Printed in USA.