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Web‡

Blocks





	Tal	
Bulletin	1492-J, -W	1492-L
Туре	Screw Type Terminal Blocks	Spring-Clamp Terminal Blocks
Technology	Screw terminations are a time-proven method of wire connection. Their greatest advantage is the ability to land multiple wires to a single terminal, potentially saving panel space. Screw type blocks can often accept up to five solid or stranded wires per terminal. They also typically provide the best visual indication of the wire connection.	Compared to screw type terminations, spring clamp terminations can be a significantly faster method of connection and can often reduce wire connection time by 3050%. Because the wire is under constant tension from the spring clamp, spring type terminations also produce very favorable results in high vibration applications.
Certifications	UR, CSA	UR, CSA
Standards Compliance	IEC, CE	IEC, CE
Product Types	Mini blocks Feed-through blocks Multi-conductor blocks Plug-in style blocks Grounding blocks Fuse blocks Two level terminal blocks Three-Level Sensor blocks Electrical Component blocks Isolation blocks	Mini blocks Fuse blocks Feed-through blocks Grounding blocks Multi-circuit blocks Plug-in style blocks Isolation blocks Sensor blocks Electrical component blocks
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Certifications

Allen-Bradley terminal blocks generally have been designed to meet the requirements of one or more regulatory bodies. Most products have also been tested per additional standards. The following is a listing of some of the regulatory bodies and standards which apply to Allen-Bradley terminal block products. See the particular product description for information on specific certifications and ratings.



(Underwriters Laboratories) — Devices in this catalog with one of these ratings have been tested by Underwriters Laboratories and meet the requirements of one or more of the following United States Standards:

- UL 467 Grounding and Bonding Equipment
- UL 486E Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors
- UL 1059 Standard for Terminal Blocks

Reference UL files E34648, E40735, E160646



(Underwriters Laboratories) — Devices in this catalog with this rating have been tested by Underwriters Laboratories and meet the requirements of the following Canadian Standard:

• CSA 22.2 No. 158 — Terminal Blocks

Reference UL file E40735



(Canadian Standards Association) — Devices in this catalog with this rating have been tested by the Canadian Standards Association and meet the requirements of the following Canadian Standard:

• CSA 22.2 No. 158 — Terminal Blocks

Reference CSA files LR67896



Terminal blocks listed in this catalog meet the requirements of the Low Voltage Directive put forth by the European Union. Devices have been tested and comply with one or more of the following European Norms:

- EN 60947-1 Low Voltage Switchgear and Controlgear: General Rules
- EN 60947-7-1 Low Voltage Switchgear and Controlgear: Terminal Blocks for Copper Conductors
- EN 60947-7-2 Low Voltage Switchgear and Controlgear: Protective Conductor Terminal Blocks for Copper Conductors
- EN 60947-7-3 Low Voltage Switchgear and Controlgear: Safety Requirements for Fuse Terminal Blocks



ATEX — Devices listed in this catalog with "ATEX" ratings meet the following European Norms per DEMKO or KEMA, Approval Certification Bodies for the European Union:

- EN 60079-7 Electrical Apparatus for Potentially Explosive Atmospheres — General Requirements
- EN 60079-0 Electrical Apparatus for Potentially Explosive Atmospheres — Increased Safety "e"

Contact your local Rockwell Automation sales office or Allen-Bradley distributor for a copy of the certificate.



Screw Connection Terminal Blocks

Certifications/Introduction

Ex e II — Many 1492-J, 1492-K, 1492-L, and 1492-W terminal blocks in this catalog meet the following Canadian Standards per Underwriters Laboratories:

CAN/CSA E 60079-7 — Electrical Apparatus for Explosive Atmospheres — Part 0 — General Requirements

CAN/CSA E 60079-0 — Electrical Apparatus for Explosive Atmospheres — Part 7 — Increased Safety "e"

These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E187022. Contact your local Allen-Bradley distributor for more information.

AEx e II — Devices listed in this catalog with an "AEx e II" rating meet the following United States Standard per Underwriters Laboratories:

• ANSI/UL 60079-0 and 60079-7 — Standard for Electrical Equipment for Use in Class I, Zone 0, 1, and 2 Hazardous (Classified) Locations

These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E187022. Contact your local Rockwell Automation sales office or Allen-Bradley distributor for more information.

Lloyd's Register — Many 1492-H, 1492-J, 1492-L, and 1492-W terminal blocks in this catalog have been certified for use in marine, offshore, and industrial installations per the following standard:

Lloyd's Register Test Specification No. 1:1996

Contact your local Rockwell Automation sales office or Allen-Bradley distributor for a copy of the certificate.

The Allen-Bradley Line of IEC Terminal Blocks... International Products for a Worldwide Marketplace

The Allen-Bradley Bulletin 1492-J line of internationally approved IEC style terminal blocks offers a wide range of features and benefits ideally suited for many industrial applications. The 1492-J line has been designed to meet the tough requirements of almost every industrial application. Functional, internationally approved, finger-safe, and cost-effective — the Allen-Bradley Bulletin 1492-J line.

Products Available in the Bulletin 1492 Screw Terminal Block Line

Our family of IEC terminal blocks consists of many different types of blocks, from general feed-through terminal blocks for control wiring to specialty blocks for grounding and isolating. We even offer thermocouple terminal blocks, specifically designed for temperature-dependent process control applications.

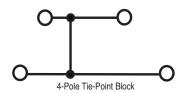
Products offered within the Bulletin 1492 Screw Terminal Block line include:

- Feed-Through Blocks, capable of accommodating #30...2/0 AWG (0.2...70 mm²) wire
- Grounding Blocks for grounding a given circuit to the DIN Rail
- Mini Blocks for applications where panel space is at a premium
- . Two-Level Blocks that double circuit wiring density
- . Multi-Conductor Blocks that allow splitting or joining of control circuits
- Three-Level Sensor Blocks for coordination of three-wire sensor groups
- Isolation Blocks for circuit isolation during testing and troubleshooting
- Fuse Blocks, with and without blown fuse indication, for easily integrated overcurrent protection
- Electrical Component Blocks that allow the insertion of fixed components into control circuits. Available components include resistors, diodes, surge suppression circuits, and shunt bars.



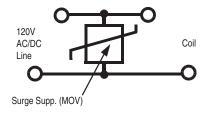
Tie-Point Block (Cat. No. 1492-JD3C)

Incorporates a shunt bar between the upper and lower current bars to provide a common point among all four terminals.



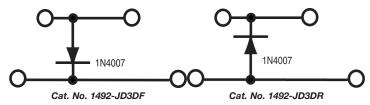
Surge Suppression Block (Cat. No. 1492-JD3SS)

Provides a convenient means of incorporating transient suppression for relays, contactors, and solenoids into a control system.



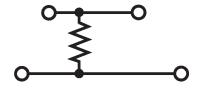
Diode Block (Cat. Nos. 1492-JD3DF. 1492-JD3DR)

Uses a 1N4007 diode between the upper and lower levels for insertion into a control circuit. This block is useful in low voltage DC control circuits for directioning and suppression.



Resistor Block (Cat. No. 1492-JD3RB, -JD3RC001)

Permits the introduction of a 10 $\Omega...4.75~M\Omega$ resistor into a control circuit.



- Return Blocks that have both terminations on the same side of the terminal block allowing the rail to be mounted next to the wall of an enclosure
- Plug-In Style Blocks that allow the insertion of removable plugs into control circuits. Available plugs include a Disconnect Plug, a Fuse Plug, and a Component Plug which will accommodate various electrical components.
- Thermocouple Terminal Blocks (Types B, E, J, K, N, S, T) for temperature control applications
- A wide variety of Snap-In Markers for individual or group circuit identification
- Multi-pole insulated Center Jumpers which provide a convenient method of commoning control circuits

Materials and Design Features

The Bulletin 1492-J line is designed for safety, installation ease, and ruggedness. Features using these design criteria include the following:

- Tin-plated terminals and steel screws for corrosion resistance (Bulletin 1492-W terminal blocks have nickel-plated terminals and stainless steel screws)
- High copper content copper alloy for excellent conductivity
- Four-sided wire funnel guides for easy wire insertion
- Finger-safe housings to prevent accidental contact with live circuits
- International approvals for worldwide use
- DIN Rail (Cat. No. 199-DR1) mountability, allowing terminal blocks to be placed on the same channel as contactors, starters, relays, and other DIN Rail-mounted control devices
- Self-extinguishing, polyamide 6.6 housing material with UL 94-V0 flammability rating (Bulletin 1492-W terminal blocks have UL 94-V2 flammability rating)
- · Backed out screws for fast wiring



Spring-Clamp Connection Terminal Blocks

Allen-Bradley spring-clamp terminal blocks generally have been designed to meet the requirements of one or more regulatory bodies. Most products have also been tested per additional standards. The following is a listing of some of the regulatory bodies and standards which apply to Allen-Bradley spring-clamp terminal block products. See the particular product description for information on specific certifications and ratings.



(Underwriters Laboratories) — Allen-Bradley spring-clamp terminal blocks with one of these ratings have been tested by Underwriters Laboratories and meet the requirements of one or more of the following United States Standards:

- UL 486E Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors
- UL 1059 Standard for Terminal Blocks

Reference UL file E40735



(Underwriters Laboratories) — Allen-Bradley spring-clamp terminal blocks with this rating have been tested by Underwriters Laboratories and meet the requirements of one or more of the following Canadian Standards:

CSA 22.2 No. 158 — Terminal Blocks

Reference UL file E40735



(Canadian Standards Association) — Allen-Bradley spring-clamp terminal blocks with this rating have been tested by the Canadian Standards Association and meet the requirements of the following Canadian Standard:

CSA 22.2 No. 158 — Terminal Blocks

Reference CSA files 677896



Allen-Bradley spring-clamp terminal blocks listed in this catalog meet the requirements of the Low Voltage Directive put forth by the European Union. Devices have been tested and comply with one or more of the following European Norms:

- EN 60947-1 Low Voltage Switchgear and Controlgear: General Rules
- EN 60947-7-1 Low Voltage Switchgear and Controlgear: Terminal Blocks for Copper Conductors
- EN 60947-7-2 Low Voltage Switchgear and Controlgear: Protective Conductor Terminal Blocks for Copper Conductors
- EN 60947-7-3 Low Voltage Switchgear and Controlgear: Safety Requirements for Fuse Terminal Blocks



ATEX — Devices listed in this catalog with "ATEX" ratings meet the following European Norms per DEMKO or KEMA, Approval Certification Bodies for the European Union:

- EN 60079-0 Electrical Apparatus for Potentially Explosive Atmospheres General Requirements
- EN 60079-7 Electrical Apparatus for Potentially Explosive Atmospheres Increased Safety "e" Contact your local Allen-Bradley distributor for a copy of the certificate.

Ex e II — Bulletin 1492-L terminal blocks in this catalog meet the following Canadian Standards per Underwriters Laboratories:

- CAN/CSA E60079-7 Electrical Apparatus for Explosive Atmospheres Part 0 General Requirements
- CAN/CSA E60079-0 Electrical Apparatus for Explosive Atmospheres Part 7 Increased Safety "e"

These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E187022. Contact your local Allen-Bradley distributor for more information.

AEx e II — Allen-Bradley spring-clamp terminal blocks with an "AEx e II" rating meet the following United States Standard per Underwriters

UL 2279 — Standard for Electrical Equipment for Use in Class I, Zone 0, 1, and 2 Hazardous (Classified) Locations

These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E187022. Contact your local Allen-Bradley distributor for more information.

Lloyd's Register — Bulletin 1492-L terminal blocks in this catalog have been certified for use in marine, off-shore, and industrial installations per the following standard:

Lloyd's Register Test Specification No. 1:1996

Contact your local Allen-Bradley distributor for a copy of the certificate.



Spring-Clamp Connection Terminal Blocks

Introduction

The Allen-Bradley Line of Spring-Clamp Terminal Blocks...

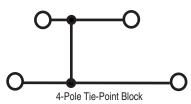
The Bulletin 1492-L line of internationally approved spring-clamp IEC-style terminal blocks offers a variety of products that can make any

- Fast Reduces wiring time by more than 50%
- Practical Requires only a flat-head screwdriver for easy installation. Maintenance-free, no need to retighten
- Reliable Secure contact is durable under extreme conditions such as high-vibration applications

Products Available in the 1492-L Spring-Clamp Line

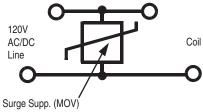
- Feed-Through Blocks, accommodating wire sizes from #30...#2 AWG (0.2...35 mm²)
- Grounding Blocks for grounding a given circuit to the DIN Rail
- Multi-Circuit Blocks for doubling circuit wiring density
- · Isolation Blocks for circuit isolation during testing and troubleshooting
- · Plug-In Style Terminal Blocks accommodating component plugs, fuse plugs, and disconnect plugs
- Sensor Blocks for coordination of three-wire sensor groups with or without ground terminations
- Electrical Component Blocks which allow for the insertion of fixed components into control circuits. Components include diodes and surge suppression circuits

Tie-Point Block (Cat. Nos. 1492-LD2C, LD3C, LD4C)



Surge Suppression Block (Cat. No. 1492-LD4SS)

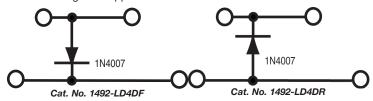
Provides a convenient means of incorporating transient suppression for relays, contactors and solenoids into a control system.



Diode Block

(Cat. Nos. 1492-LD4DF, 1492-LD4DR)

Uses a 1N4007 diode between the upper and lower levels for insertion into a control circuit. This block is useful in low voltage DC control circuits for directioning and suppression.



- Test Blocks for allowing a bank of pluggable terminal strips to be easily connected for test purposes
- · A wide variety of snap-in markers are available for individual or group circuit identification
- A broad offering of accessories such as screwless end retainers, electrical warning plates, end barriers, protective stops and test plugs to provide exactly what the application requires
- · Operating instructions (printed on an adhesive label), for fixing inside a panel
- Mini-blocks available in rail-mount or panel-mount configurations

Materials and Design Features

The 1492-L line is specially designed for safety, installation ease, and ruggedness. Features include:

- Tin-plated terminals and stainless steel spring clamps for resistance to corrosion and vibration
- · Spring clamp design to minimize stress relaxation and maintain contact force, even under vibration
- Top wire entry for ease of installation
- · Circuit testing with standard 2 mm diameter test probe or stackable test plugs on most spring-clamp blocks
- · Insulation stops to ensure electrical connection when using smaller gauge wires
- · Markers that are visible after terminal blocks are wired
- · Multiple marking options
- · Common profiles to minimize stocking of accessories
- Self-extinguishing, polymide 6.6 housing materials with a flammability rating UL 94-V0 (1492-R terminal blocks have a UL 94-V2 flammability rating)
- Screwless center jumpers to simplify jumpering terminals together

Note: To ensure proper wire termination, these blocks are designed to accept only one wire per terminal.

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1492-RFB4.. 1492-RAFB4.. (43.8 mm) E Dimensions are not intended to be used for manufacturing purposes. (44.8 Note: Height dimension is measured 0.39" (10 mm) 0.31 1.72 .76 from top of rail to top of terminal block. 4.33" (110 mm) 3.82" (97 mm) Single-circuit fuse terminal block with or without blown Single-circuit fuse terminal block with or without blown **Specifications** fuse indicator fuse indicator Certifications cUR IEC cUR IEC Maximum Current 15 A* 15 A* 12 A 12 A 15 A× 12 A #22...12 AWG 0.5...4 mm² #22...12 AWG 0.5...4 mm² Wire Range (Rated Cross Section) #22...12 AWG #22...12 AWG RFB4/RAFB4 300V AC/DC 500V AC/DC 300V AC/DC 500V AC/DC Voltage Rating RFB424/RAFB424 10...57V AC/DC 10...57V AC/DC RFB4250/RAFB4250 85...264V AC 85...264V AC RFB4/RAFB4 Non-indicating Non-indicating Indicator Type RFB424/RAFB424 LED LED RFB4250/RAFB4250 Neon Neon RFB4/RAFB4 RFB424/RAFB424 2 mA @ 24V 2 mA @ 24V Leakage Current RFB4250/RAFB4250 1 mA @ 264V 1 mA @ 264V 5 x 20 mm 1/4 x 1 -1/4 in. Fuse Size (Not Supplied) Wire Strip Length 0.47 in. (12 mm) 0.47 in. (12 mm) Density 37 pcs/ft (125 pcs/m) 30 pcs/ft (100 pcs/m) Insulation Temperature Range -4...+140 °F (-20...+60 °C) -4...+221 °F (-40...+105 °C) **Terminal Blocks** Cat. No. Pkg Qty. Pkg Qty. Cat. No. Color Black (Non-Indicating) 1492-RFB4 25 1492-RAFB4 25 Black (10...57V LED) 1492-RFB424 25 1492-RAFB424 25 Black (85...264V Neon) 1492-RFB4250 25 1492-RAFB4250 25 Pkg Qty. Pkg Qty. Accessories Cat. No. Cat. No. Mounting Rails 199-DR1 10 199-DR1 10 1 m Symmetrical DIN (Steel) 1 m Symmetrical DIN (Aluminum) 1492-DR5 10 1492-DR5 10 1 m Hi-Rise Sym. DIN (Aluminum) 1492-DR6 2 1492-DR6 2 1 m Angled Hi-Rise Sym. DIN (Steel) 2 1492-DR7 2 1492-DR7 End Barrier Not Required Not Required End Retainers/Anchors 1492-ERL35 20 1492-ERL35 20 Screwless End Retainer 50 DIN Rail — Heavy Duty 1492-EAHJ35 50 1492-EAHJ35 Plug-in Center Jumper, 10-Pole 1492-CJR8-10 10 Plug-in Center Jumper, 9-Pole 1492-CJR8-9 10 1492-CJR8-8 Plug-in Center Jumper, 8-Pole 10 Plug-in Center Jumper, 7-Pole 1492-CJR8-7 10 1492-CJR8-6 Plug-in Center Jumper, 6-Pole 10 Plug-in Center Jumper, 5-Pole 1492-CJR8-5 10 1492-CJRA10-5 10 Plug-in Center Jumper, 4-Pole 1492-CJR8-4 10 1492-CJRA10-4 10 Plug-in Center Jumper, 3-Pole 1492-CJR8-3 10 1492-CJRA10-3 10 Plug-in Center Jumper, 2-Pole 1492-CJB8-2 10 1492-CJBA10-2 10 Center Jumper Link 1492-CJRL6 10 1492-CJRL5 10 Marking Systems 1492-MS8X12 (56/card) 5 1492-MS8X12 (56/card) 5 Snap-in Marker for Block

1492-MS6X9 (80/card)

Snap-in Marker for Handle

5

1492-MS6X9 (80/card)

5

^{*} IEC standards for 5 x 20 mm fuses do not include ratings above 6.3 A.