

# Terminal Blocks/Wiring Systems/Signal Conditioners

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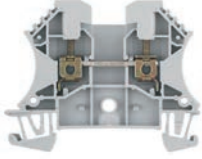
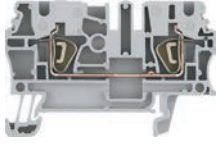
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†Information for this product line is available on the Industrial Controls Catalog website: [www.ab.com/catalogs](http://www.ab.com/catalogs).



		
Bulletin	1492-J, -W	1492-L
Type	<b>Screw Type Terminal Blocks</b>	<b>Spring-Clamp Terminal Blocks</b>
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 30...50%. 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	<ul style="list-style-type: none"> <li>• Mini blocks</li> <li>• Feed-through blocks</li> <li>• Multi-conductor blocks</li> <li>• Plug-in style blocks</li> <li>• Grounding blocks</li> <li>• Fuse blocks</li> <li>• Two level terminal blocks</li> <li>• Three-Level Sensor blocks</li> <li>• Electrical Component blocks</li> <li>• Isolation blocks</li> </ul>	<ul style="list-style-type: none"> <li>• Mini blocks</li> <li>• Fuse blocks</li> <li>• Feed-through blocks</li> <li>• Grounding blocks</li> <li>• Multi-circuit blocks</li> <li>• Plug-in style blocks</li> <li>• Isolation blocks</li> <li>• Sensor blocks</li> <li>• Electrical component blocks</li> </ul>
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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

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**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, off-shore, 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

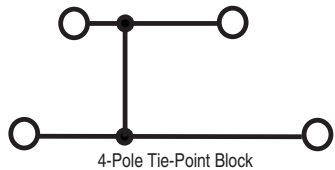
Our family of IEC terminal blocks consists of many different types of blocks, from general feed-through terminal blocks for control wiring to specialty blocks for grounding and isolating. We even offer thermocouple terminal blocks, specifically designed for temperature-dependent process control applications.

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

- **Feed-Through Blocks**, capable of accommodating #30...2/0 AWG (0.2...70 mm<sup>2</sup>) 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.

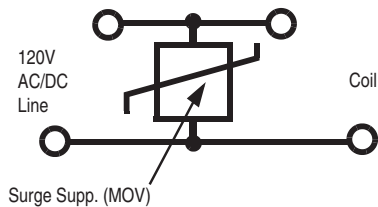
### Tie-Point Block (Cat. No. 1492-JD3C)

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



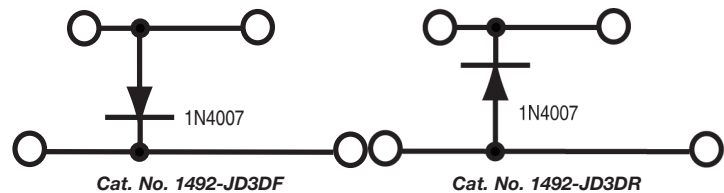
### Surge Suppression Block (Cat. No. 1492-JD3SS)

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



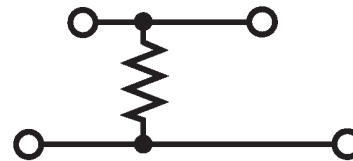
### Diode Block (Cat. Nos. 1492-JD3DF, 1492-JD3DR)

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 Ω...4.75 MΩ 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

# Screw Connection Terminal Blocks

## Space-Saver Feed-Through Blocks

	1492-W10				1492-W16S			
Dimensions are not intended to be used for manufacturing purposes. <b>Note:</b> Height dimension is measured from top of rail to top of terminal block.								
	Single-circuit terminal block.				Single-circuit terminal block.			
<b>Specifications</b>								
<b>Certifications</b>		<b>IEC</b>	<b>CSA</b>	<b>ATEX</b>		<b>IEC</b>	<b>CSA</b>	<b>ATEX</b>
<b>Voltage Rating</b>	600V AC/DC	800V AC/DC	600V AC/DC	550V AC/DC	600V AC/DC	800V AC/DC	600V AC/DC	550V AC/DC
<b>Maximum Current</b>	50 A	57 A	50 A	50 A	85 A	76 A	85 A	76 A
<b>Wire Range (Rated Cross Section)</b>	#22...8 AWG	10 mm <sup>2</sup>	#22...8 AWG	0.5...10 mm <sup>2</sup>	#14...4 AWG	16 mm <sup>2</sup>	#14...4 AWG	2.5...16 mm <sup>2</sup>
<b>Wire Strip Length</b>	0.51 in. (13 mm)				0.51 in. (13 mm)			
<b>Recommended Tightening Torque</b>	12.2...13.4 lb•in (1.4 N•m)				18...20 lb•in (2.1 N•m)			
<b>Density</b>	38 pcs/ft (125 pcs/m)				27 pcs/ft (90 pcs/m)			
<b>Housing Temperature Range</b>	-40...+195 °F (-40...+90 °C)				-40...+195 °F (-40...+90 °C)			
<b>Terminal Blocks</b>		<b>Cat. No.</b>		<b>Pkg Qty.</b>		<b>Cat. No.</b>		<b>Pkg Qty.</b>
<b>Color:</b>	Grey	1492-W10		50	1492-W16S		50	
	Red	1492-W10-RE		50	1492-W16S-RE		50	
	Blue	1492-W10-B		50	1492-W16S-B		50	
	Black	1492-W10-BL		50	1492-W16S-BL		50	
	Green	1492-W10-G		50	1492-W16S-G		50	
	Yellow	1492-W10-Y		50	1492-W16S-Y		50	
	Orange	1492-W10-OR		50	1492-W16S-OR		50	
	Brown	1492-W10-BR		50	1492-W16S-BR		50	
	White	1492-W10-W		50	1492-W16S-W		50	
<b>Accessories</b>		<b>Cat. No.</b>		<b>Pkg Qty.</b>		<b>Cat. No.</b>		<b>Pkg Qty.</b>
<b>Mounting Rails:</b>								
1 m Symmetrical DIN (Steel)		199-DR1		10	199-DR1		10	
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)		1492-DR7		2	1492-DR7		2	
<b>End Barrier</b>		1492-EB10		50	1492-EB10		50	
<b>End Anchors:</b>								
DIN Rail — Normal Duty		1492-EAJ35		100	1492-EAJ35		100	
DIN Rail — Heavy Duty		1492-EAHJ35		50	1492-EAHJ35		50	
<b>Jumpers:</b>								
Side Jumper — 10-pole insulated		1492-SJ8-10		10	—		—	
Center Jumper — 40-pole		1492-CJ8-40		5	—		—	
Center Jumper — 10-pole		1492-CJ8-10		10	1492-CJS11-10		10	
Center Jumper — 5-pole		1492-CJ8-5		10	1492-CJS11-5		10	
Center Jumper — 4-pole		1492-CJ8-4		10	1492-CJS11-4		10	
Center Jumper — 3-pole		1492-CJ8-3		10	1492-CJS11-3		10	
Center Jumper — 2-pole		1492-CJ8-2		10	1492-CJS11-2		10	
Center Jumper Link		1492-CJL8		10	—		—	
Center Jumper Cover — White		1492-CJCW6		20	—		—	
<b>Other Accessories:</b>								
Partition Plate		1492-PP10		50	1492-PP10		50	
Test Plug		1492-TP28		10	—		—	
Test Plug Adapter		1492-TA40		10	1492-TA40L		10	
Electrical Warning Plate (1-pole)		1492-EWP8		10	1492-EWP11		10	
Electrical Warning Plate (4-pole)		1492-EWP8-4		10	1492-EWP11-4		10	
<b>Marking Systems:</b>								
Snap-in Marker Card		1492-MS8X12 (56/card)		5	1492-MS6X12 (80/card)		5	



# IEC Terminal Block Accessories

## Jumpers

### Screw Type Center Jumpers



For Use With	Pkg Qty.	Cat. No.
1492-J3, JD3..., JDG3..., J2Q, J3TW, J3F, JD3F	50	<b>1492-CJJ5-2</b>
	50	<b>1492-CJJ5-3</b>
	50	<b>1492-CJJ5-4</b>
	20	<b>1492-CJJ5-10</b>
1492-J4, J4M	50	<b>1492-CJJ6-2</b>
	50	<b>1492-CJJ6-3</b>
	50	<b>1492-CJJ6-4</b>
	20	<b>1492-CJJ6-10</b>
1492-J6	50	<b>1492-CJJ8-2</b>
	50	<b>1492-CJJ8-3</b>
	50	<b>1492-CJJ8-4</b>
	20	<b>1492-CJJ8-10</b>
1492-J10	50	<b>1492-CJJ10-2</b>
	50	<b>1492-CJJ10-3</b>
	50	<b>1492-CJJ10-4</b>
	20	<b>1492-CJJ10-10</b>
1492-J16	20	<b>1492-CJJ12-2</b>
	20	<b>1492-CJJ12-3</b>
	20	<b>1492-CJJ12-4</b>
	10	<b>1492-CJJ12-10</b>
1492-J35	20	<b>1492-CJJ16-2</b>
	20	<b>1492-CJJ16-3</b>
	20	1492-CJJ16-4
	10	<b>1492-CJJ16-10</b>
1492-J50	10	<b>1492-CJJ18-2</b>
	10	1492-CJJ18-3
	10	1492-CJJ18-4
1492-J70	5	1492-CJJ20-2
	5	1492-CJJ20-3
	5	1492-CJJ20-4
1492-WM3	10	<b>1492-CJM5-2</b>
	10	<b>1492-CJM5-3</b>
	10	1492-CJM5-4
	10	1492-CJM5-5
	10	<b>1492-CJM5-10</b>
1492-W3, WM3, WR3, WTF3..., WTS3...	10	<b>1492-CJL5</b> (Link)
1492-WR3	5	<b>1492-CJD5-50</b>
	10	<b>1492-CJD5-2</b>
	10	<b>1492-CJD5-3</b>
	10	1492-CJD5-4
	10	1492-CJD5-5
	10	<b>1492-CJD5-10</b>

For Use With	Pkg Qty.	Cat. No.
1492-WM4	5	<b>1492-CJD6-50</b>
	10	<b>1492-CJD6-2</b>
	10	<b>1492-CJD6-3</b>
	10	1492-CJD6-4
	10	1492-CJD6-5
	10	<b>1492-CJD6-10</b>
1492-WM4, W4TW	10	1492-CJLD6 (Link)
1492-W3	10	<b>1492-CJ5-2</b>
	10	<b>1492-CJ5-3</b>
	10	<b>1492-CJ5-10</b>
	20	<b>1492-CJCW5</b> (CJ Cover)*
1492-WTF3..., WTS3...	5	<b>1492-CJT5-50</b>
	10	<b>1492-CJT5-2</b>
	10	1492-CJT5-3
	10	1492-CJT5-4
	10	1492-CJT5-5
1492-W4, W4TW	5	<b>1492-CJ6-50</b>
	10	<b>1492-CJ6-2</b>
	10	<b>1492-CJ6-3</b>
	10	<b>1492-CJ6-4</b>
	10	<b>1492-CJ6-5</b>
	10	<b>1492-CJ6-10</b>
1492-W4	10	<b>1492-CJL6</b> (Link)
1492-W4, W6, W10	20	<b>1492-CJCW6</b> (CJ Cover)
1492-W6	5	<b>1492-CJ7-40</b>
	10	<b>1492-CJ7-2</b>
	10	<b>1492-CJ7-3</b>
	10	<b>1492-CJ7-4</b>
	10	1492-CJ7-5
1492-W6	10	<b>1492-CJ7-10</b>
1492-W6	10	1492-CJL7 (Link)
1492-W10	5	<b>1492-CJ8-40</b>
	10	<b>1492-CJ8-2</b>
	10	<b>1492-CJ8-3</b>
	10	1492-CJ8-4
1492-W10	10	1492-CJ8-5
	10	<b>1492-CJ8-10</b>
	10	<b>1492-CJL8</b> (Link)
1492-W16S	10	<b>1492-CJS11-2</b>
	10	<b>1492-CJS11-3</b>
	10	1492-CJS11-4
	10	<b>1492-CJS11-5</b>
	10	<b>1492-CJS11-10</b>

Note: Notching out one or more jumper poles, with the notched jumpers going across different potentials, will require de-rating to 400V.

\* May only be used as a marking surface. May not be installed over center jumper.



# IEC Terminal Block Accessories

## Specifications

Cat. No.	Wire Size [AWG]																		
	#30	#28	#26	#24	#22	#20	#18	#16	#14	#12	#10	#8	#6	#4	#2	#1	1/0	2/0	3/0
	Number of the Same Size Wires Per Terminal																		
1492-JG10	—	—	—	—	4	4	4	4	3	2	1	1	1	—	—	—	—	—	—
1492-JG16	—	—	4	4	4	4	4	4	1	3	2	1	1	1	—	—	—	—	—
1492-JG2Q	—	—	4	4	4	3	1	1	1	—	—	—	—	—	—	—	—	—	—
1492-JG3	4	4	4	4	4	4	3	3	2	1	—	—	—	—	—	—	—	—	—
1492-JG35	—	—	—	—	—	—	—	—	3	3	3	2	2	1	1	1	—	—	—
1492-JG3TW (single side)	4	4	4	4	4	4	1	1	1	1	—	—	—	—	—	—	—	—	—
1492-JG3TW (twin side)	—	—	4	4	4	3	1	1	1	1	—	—	—	—	—	—	—	—	—
1492-JG4	—	—	—	—	4	4	3	3	2	1	1	—	—	—	—	—	—	—	—
1492-JG4Q	1	1	1	1	4	4	3	3	3	2	1	—	—	—	—	—	—	—	—
1492-JG4TW	1	1	1	1	4	4	3	3	3	2	1	—	—	—	—	—	—	—	—
1492-JG50	—	—	—	—	—	—	—	—	—	1	2	2	1	1	1	1	1	—	—
1492-JG6	—	—	—	—	4	4	3	3	3	2	1	1	—	—	—	—	—	—	—
1492-JG70	—	—	—	—	—	—	—	—	5	5	5	2	2	2	1	1	1	1	—
1492-JKD3	4	4	4	4	3	3	3	3	2	1	—	—	—	—	—	—	—	—	—
1492-JKD3TP	4	4	4	4	3	3	3	3	2	1	—	—	—	—	—	—	—	—	—
1492-JKD4	—	—	—	—	4	4	3	3	2	1	1	—	—	—	—	—	—	—	—
1492-JKD4Q	1	1	1	1	1	4	3	3	2	1	1	—	—	—	—	—	—	—	—
1492-JKD4QTP	1	1	1	1	1	4	3	3	2	1	1	—	—	—	—	—	—	—	—
1492-JKD4TP	—	—	—	—	4	4	3	3	2	1	1	—	—	—	—	—	—	—	—
1492-JKD4TW	1	1	1	1	1	4	3	3	2	1	1	—	—	—	—	—	—	—	—
1492-JKD4TWTP	1	1	1	1	1	4	3	3	2	1	1	—	—	—	—	—	—	—	—
1492-JPO	—	—	4	—	1	1	3	2	2	1	—	—	—	—	—	—	—	—	—
1492-JSD4	—	—	1	1	4	4	3	3	2	1	1	—	—	—	—	—	—	—	—
1492-JT3M	4	4	4	4	4	4	3	3	2	1	—	—	—	—	—	—	—	—	—
1492-W10	—	—	—	—	4	4	4	4	3	2	1	1	—	—	—	—	—	—	—
1492-W16S	—	—	—	—	—	—	—	—	4	3	2	2	1	1	—	—	—	—	—
1492-W3	4	—	—	—	4	4	3	2	1	—	—	—	—	—	—	—	—	—	—
1492-W4	—	—	—	—	4	4	3	2	2	1	1	—	—	—	—	—	—	—	—
1492-W6	—	—	—	—	4	4	3	2	2	1	1	—	—	—	—	—	—	—	—
1492-WD4	—	—	—	—	4	4	3	2	2	1	—	—	—	—	—	—	—	—	—
1492-WD4C	—	—	—	—	4	4	3	2	2	1	—	—	—	—	—	—	—	—	—
1492-WG4	—	—	—	—	4	4	3	2	2	1	—	—	—	—	—	—	—	—	—
1492-WG6	—	—	—	—	4	4	4	4	3	2	1	—	—	—	—	—	—	—	—
1492-WM3	4	—	—	—	4	3	2	1	1	—	—	—	—	—	—	—	—	—	—
1492-WM4	—	—	—	—	4	4	3	2	2	1	—	—	—	—	—	—	—	—	—
1492-WMD1	—	—	—	—	2	1	1	1	—	—	—	—	—	—	—	—	—	—	—
1492-WMG4	—	—	—	—	4	4	3	2	2	1	—	—	—	—	—	—	—	—	—
1492-WR3	—	—	—	—	4	4	3	2	1	—	—	—	—	—	—	—	—	—	—
1492-WTF3	—	—	4	4	4	4	3	2	1	—	—	—	—	—	—	—	—	—	—
1492-WTF3LN	—	—	4	4	4	4	3	2	1	—	—	—	—	—	—	—	—	—	—
1492-WTF3LP	—	—	4	4	4	4	3	2	1	—	—	—	—	—	—	—	—	—	—
1492-WTS3	—	—	4	4	4	4	3	2	1	—	—	—	—	—	—	—	—	—	—
1492-WTS3LN	—	—	4	4	4	4	3	2	1	—	—	—	—	—	—	—	—	—	—
1492-WTS3LP	—	—	4	4	4	4	3	2	1	—	—	—	—	—	—	—	—	—	—

