

NEW

ALLEN/SLOT
TERMINALS

VR/VP



VSQ



VBQ

600 VAC/250VDC; 50-400 Hertz
NEMA 3, 4, 4X
Class I, Div. 1 & 2, Groups B,C,D;
NEMA 7 B,C,D²
Class I, Zones 1 & 2, IIB+H₂, IIA²
Class II, Div. 1 & 2, Groups F & G;
NEMA 9 F,G²
Class III²



FEATURES-SPECIFICATIONS

NEMA 4X VersaMATE®

THE FIRST NEMA 4X RATED LINE OF
METALLIC PLUGS & RECEPTACLES.

VersaMate® metallic pin & sleeve plugs & receptacles are designed for heavy duty industrial use. These devices supply power to both fixed and portable electrical equipment including pumps, generators, welders, vacuums, blowers and similar apparatus.

Suitable for indoor or outdoor use. Applications include the wet, cold, hosedown, hazardous or corrosive areas in such industrial applications as:

- Pulp & Paper Mills
- Electrical Power Plants
- Petrochemical Plants
- Wastewater Treatment
- Marine, Docks, Ports
- Construction Sites
- Breweries
- Refineries
- Chemical Plants
- Grain Facilities
- Textile Manufacturing
- Food Processing Facilities

Standard Materials:

Copper-free aluminum construction with electrostatically applied epoxy/polyester finish. Contacts are brass with a patented beryllium copper spring tensioner. External screws are 316 stainless steel.

Features:

The VersaMate product line includes 30, 60, 100 and 200 Amp plugs, receptacles and connectors with a full range of back boxes. Popular options include reverse service and polarization. The VersaMate line is **FULLY INTERCHANGEABLE**² with UL1686 configured and listed devices such as Crouse-Hinds® Arktite® or Appleton® Powertite®. Standard location receptacle bolt hole patterns match competitive back boxes so users can upgrade to VersaMate without changing back boxes in instances where changing the conduit system is difficult.

² VersaMate® components are UL classified and intermateable with other UL 1686-C1 configured devices (when installed in accordance with instructions furnished with device). Assemblies containing components from other manufacturers would have the NEMA type rating of the lowest rated device.

² See product pages for specific ratings.

Arktite® is a registered trademark of Crouse-Hinds®.

Powertite® is a registered trademark of Appleton®.

Plugs:

Octagonal style (Patented) for a firm and sure grip when connecting or disconnecting is featured on both plug and cable connector bodies. Insulators have high mechanical and dielectric strength and "Low Arc Tracking." "Increased Safety" type box terminals with gripper ribs securely clamp around conductors. Funneled conductor entry chambers lead all properly stripped conductors into terminals **simultaneously**. NEMA 4X rating when inserted into VersaMate receptacle and locking ring is tightened.



Receptacles:

Exclusive Patented "Breech-Lock" cap serves as either flip lid or screw cover. Receptacle is NEMA 3R with lid snapped shut or NEMA 4X with lid turned shut or when VersaMate plug is inserted and locking ring tightened. Patented notch in cap arm holds cap open for easy plug insertion or maintenance. Patented pin design uses slotted spring clip which avoids excessive wear while providing continuous electrical pin to sleeve contact. VersaMate® receptacles use the same "Increased Safety" terminals and funnel design as VersaMate® plugs.



Cable Clamping Assembly:

Plugs and cable connectors are supplied with an exclusive neoprene "Onion Skin" peel-away type grommet. The VersaRange® cable clamp system captures cable with **four grip points** using **only two** tightening screws. Clamp guide assembly provides a firm fit over a wide range of cable diameters. Non-removable set screws prevent clamp guide assembly from backing out. Clamps have smooth contoured shoulder design to prevent snags or damage when moving equipment.



Back Boxes:

VersaMate back boxes come in a variety of mounting styles. Exclusive "blind" receptacle mounting holes prevent moisture from entering box via thread cavities. Boxes come with a green grounding screw.





NEW! ALLEN/SLOT
TERMINALS

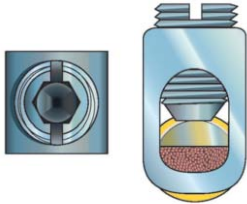
- First NEMA 4X - Still the BEST!
- Exclusive interior gasketing
- Exclusive Terminal Designs
 - No conductor machining
 - Allen or Phillips types

- Exclusive Onion-Skin Gasket
- Perfect Cable Fit
- Exclusive 4-Point Cable Grip
- Uses only 2 Recessed Screws
- Exclusive Breech-Lock Cap
- Flip or Screw-On
- Notch to hold open

KILLARK BRAND

OTHER BRANDS

TERMINALS



New Allen/slot terminal screws do not contact or machine conductor. Allows higher torque values typical in the oil industry.

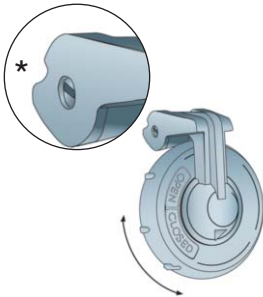


Conventional screw type terminals. Screws "machine" (grind or fray) conductor. Screws are not under tension and more easily loosen from heating and cooling cycles or from vibration. Screws can fall out (and be lost) during initial shipment-requires reassembly.



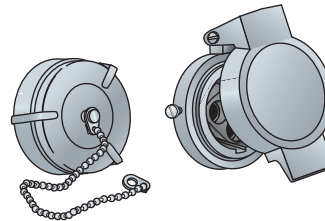
VersaMate original Phillips/slot "Increased Safety" type terminals reduce connection fatigue. Screws do not contact or machine conductor and are under spring tension to reduce loosening and pullout due to vibration.

CAP



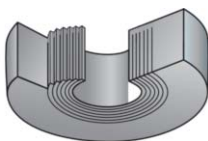
"Breech-Lock" design serves as both flip lid or screw cover style. Special notch in lid arm holds cover open to ease plug insertion or maintenance.

**Slip pencil or screwdriver into notch.*

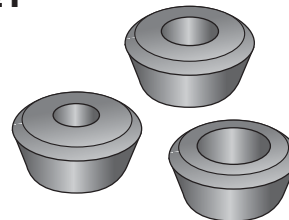


Conventional caps: user must choose between flip lid's convenience or screw cover's better sealing capabilities. Broken chains can mean lost covers.

GASKET

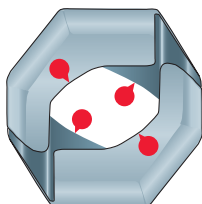


Exclusive "Onion Skin" style gasket assures a tight seal around cable. Skin layers are removed from a single gasket to adjust for various cable diameters.

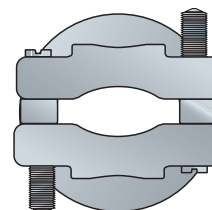


Multiple gaskets require trial & error sizing to be sure of best fit and seal.

CABLE CLAMP



Versatile range Cable Clamp system captures cable at four grip points using only two screws. Smooth contoured design avoids snags when moving equipment.



Standard clamps squeeze and pinch cable. Protruding screws snag or scratch when moving equipment. Other clamp systems with multiple screws are difficult to tighten evenly.

EXCLUSIVE VersaMATE® FEATURES:

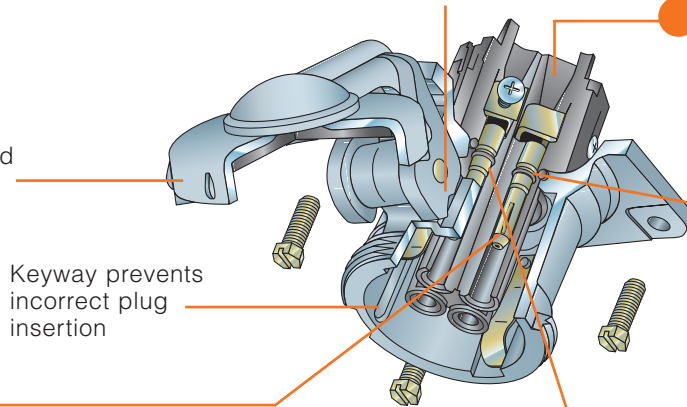
Key user needs were identified from “Focus Groups” comprised of Design Engineers, Contractors, and Maintenance Personnel. Input from these forums resulted in VersaMate’s unique features.

P **Patented** Exclusive “Breach-Lock” cap serves as either flip lid or screw cover

- NEMA 3R Rating: When receptacle cap is snapped shut
- NEMA 4X Rating: When receptacle cap is turned shut or with VersaMate® plug inserted and ring tightened

P **Patented** Special notch is designed to hold cap open for easy field service or plug insertion with two free hands

Funneled wiring chamber design for fast and accurate conductor insertion to speed assembly. All wires can be inserted **simultaneously**



Keyway prevents incorrect plug insertion

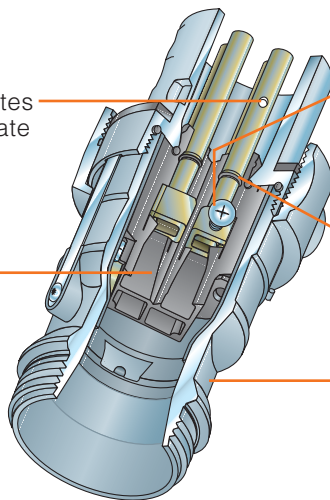
O-ring seals

Custom pin design using slotted spring clip to provide superior contact and reliability

Sleeve incorporates contaminate relief port

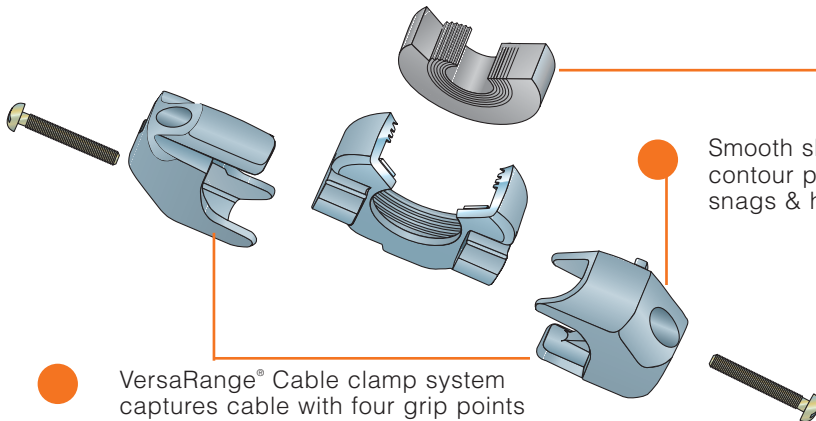
NEW 30,60,100A “AT” Allen/Slot or “Increased safety” Phillips/Slot terminals provide secure clamping of conductors

Funneled wiring chamber design for fast and accurate conductor insertion to speed assembly. All wires can be inserted at **one time**



O-ring seals

P **Patented** Body style with octagonal shape for easy grip



Exclusive neoprene “Onion Skin” peel-away type gasket for the ultimate in sealing a variety of cable sizes

Smooth shoulder contour prevents snags & hang ups

VersaRange® Cable clamp system captures cable with four grip points using only two tightening screws. Provides secure grip without damaging the cable insulation

Unique VersaMate® Feature
The VersaMate® Line is designed for the industrial customer based on engineering and user surveys

REVERSE SERVICE: S39

Add suffix **S39** for factory Reverse Service of receptacles, plugs or connectors. Receptacles or connectors are assembled with plug interiors while plugs are assembled with receptacle interiors. For applications where the plug is energized (i.e. from a generator) to feed a non-energized receptacle. Prevents easy contact with energized exposed pins. This conversion can be performed in the field with a complementary plug & receptacle (30A to 100A devices shown on pages PR6-8). 200A Amp devices shown on page PR9 are a factory-only option. Reverse Service is not for hazardous locations.



Typical Application

POLARIZED OPTION: S37

Add suffix **S37** for special polarity. Can prevent connection between mismatched voltages or frequencies in areas where devices of the same amperage, poles and grounding style are used. Receptacle or connector interiors are rotated 22-1/2° to the right; plug is rotated opposite to match. This is a factory only option.



Standard



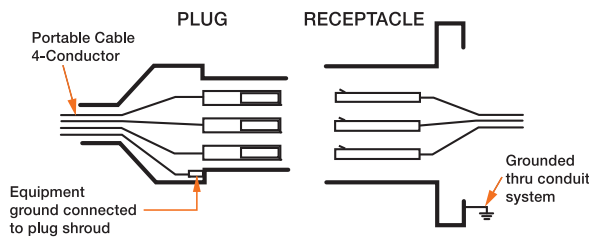
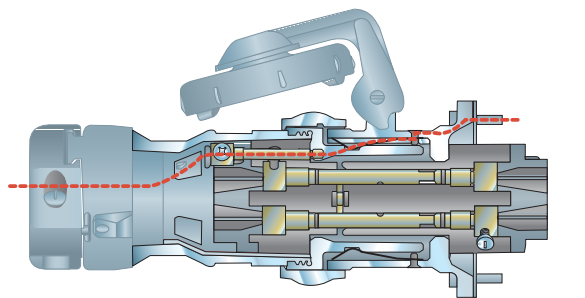
S37 Option

GROUNDING:

To minimize the danger of electrical shock when utilizing portable equipment, the National Electrical Code requires exposed metal parts be grounded if operated at more than 150 volts to ground. The VersaMate® plug & receptacle system is available in two grounding styles. Please note Style I and II devices cannot be intermated.

Style I

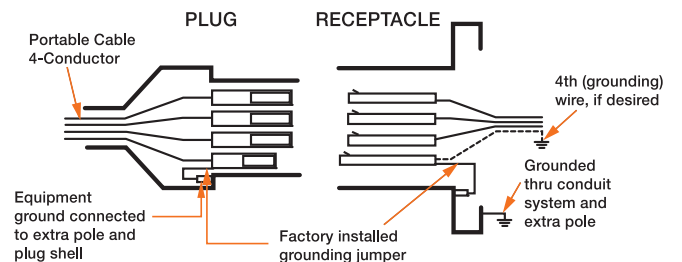
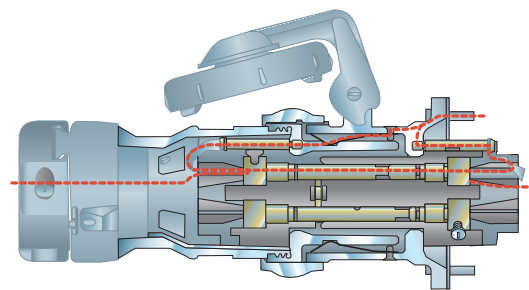
In a Style I plug, the cable's ground conductor is bonded to the plug housing by means of solderless connector. The receptacle is grounded by being part of a grounded conduit system. Upon insertion, detent springs in the receptacle housing contact and ground the plug housing before current carrying poles. All poles are current carrying.



3W3P Illustrated

Style II

In a Style II plug, the cable's ground conductor is bonded to the extra grounding pole and to the plug housing via a bonding jumper. The receptacle has a matching grounding pole connected to the system ground conductor which is further tied to the grounded conduit system via a bonding jumper. Upon insertion, detent springs in the receptacle housing contact and ground the plug housing; then the extra long ground pole connects before the current carrying poles engage. The Style II ground pole makes first and breaks last.



3W4P Illustrated

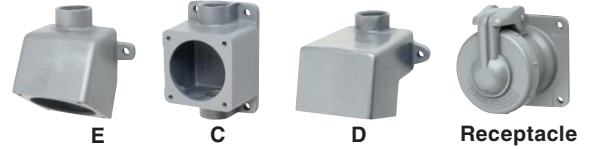


- 60 Amp 600VAC/250VDC; 50-400 Hertz NEMA 3, 4, 4X^①
- **PLUGS ONLY^②**:
 Class I, Div. 1 & 2, Groups B,C,D; NEMA 7 B,C,D
 Class I, Zones 1 & 2, IIB+H₂, IIA
 Class II, Div. 1 & 2, Groups F & G; NEMA 9 F,G; Class III

Wire Range

Regular Stranding: #6 - #2 original style or "AT" type
 Extra flex: #6 - #4 original style or "AT" type

File No. E10757 Certified File No. LR111846



FEATURES-SPECIFICATIONS

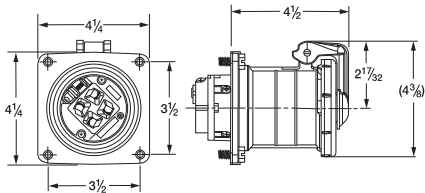
60 AMP PLUGS & CONNECTORS						
GROUND STYLE	CIRCUIT	GROMMET RANGE	CATALOG NUMBER			
			PLUG		CONNECTOR	
			ORIG.	AT	ORIG.	AT
Style I	2W2P	.65 - 1.50 IN	VP6275	VP6022	VPR6255	VPR6022
	3W3P	.65 - 1.50 IN	VP6375	VP6033	VPR6355	VPR6033
	4W4P	.65 - 1.50 IN	VP6475	VP6044	VPR6455	VPR6044
Style II	2W3P	.65 - 1.50 IN	VP6385	VP6023	VPR6365	VPR6023
	3W4P	.65 - 1.50 IN	VP6485	VP6034	VPR6465	VPR6034

60 AMP RECEPTACLES & BACK BOXES									
GROUND STYLE	CIRCUIT	CATALOG NUMBER							
		E ^③ TYPE		C ^③ TYPE		D ^③ TYPE		RECEPTACLE ONLY	
		ORIG.	AT	ORIG.	AT	ORIG.	AT	ORIG.	AT
Style I	2W2P	VR621E4	VR6022E4	VR621C4	VR6022C4	VR621D4	VR6022D4	VR621	VR6022
	3W3P	VR631E4	VR6033E4	VR631C4	VR6033C4	VR631D4	VR6033D4	VR631	VR6033
	4W4P	VR641E4	VR6044E4	VR641C4	VR6044C4	VR641D4	VR6044D4	VR641	VR6044
Style II	2W3P	VR632E4	VR6023E4	VR632C4	VR6023C4	VR632D4	VR6023D4	VR632	VR6023
	3W4P	VR642E4	VR6034E4	VR642C4	VR6034C4	VR642D4	VR6034D4	VR642	VR6034
Splice box only ^③		VRE46	VRE46	VRC46	VRC46	VRD46	VRD46	-	-

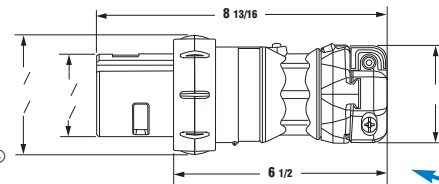
MODIFICATIONS*	
CATALOG NUMBER	DESCRIPTION
S39	Reverse service for receptacles, plugs & connectors
S37	Polarization for receptacles, plugs & connectors

^③ 60 Amp Back Boxes are available in 1", 1-1/4" and 1-1/2" conduit sizes. Size listed above is 1-1/4". For other available sizes, change the BOLD "4" in either the assembly or box only number as follows: **3**=1", **4**=1-1/4", **5**=1-1/2". Assembly catalog numbers are listed for ease of ordering or specification and devices are shipped as components. Note: 60 Amp receptacles also fit 100 Amp mounting boxes - see Note^③ on 100 Amp page PR8.

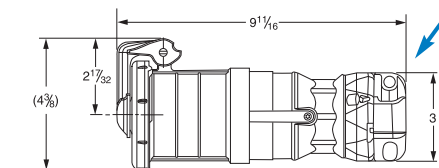
*See page PR5 for more information on these options.



Receptacle



Plug



Connector

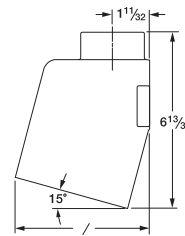
VersaRange[®] clamps provide a firm fit for one plug (or connector) over a wide range of cable diameters (competitors often need two - requiring additional sizing decisions).

^① Components are interchangeable & UL classified with other UL1686 configured devices (when installed in accordance with instructions furnished with device). Assemblies containing components from other manufacturers would have the NEMA type rating of the lowest rated device.

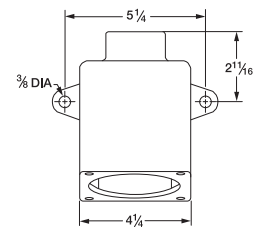
^② Plugs are hazardous suitable when mated with properly rated receptacles configured to use UL1686 type plugs, such as VersaMate VSQ/VBQ.

^③ Dimensions in () are 3 pole devices; balance are 4 pole.

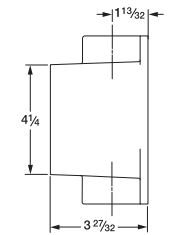
Back Box Dimensions



VRE



VRC



VRD

