

DEMAND THE BEST.

DEMAND GARDNER BENDER.

**GB**  
Gardner  
Bender

Everything starts with you, the customer. Gardner Bender's goal is to exceed customer expectations by offering an unmatched combination of services, delivery, and product.

## CUSTOMER SERVICE & TECHNICAL SUPPORT

Gardner Bender's customer support team offers over 200 years of industry experience. When you call for support, you are talking with the engineers that design, individuals who manufacture, and contractors who use our products. This same team conducts Gardner Bender's Distributor Training School, forging true customer partnerships.



## EDI SYSTEMS

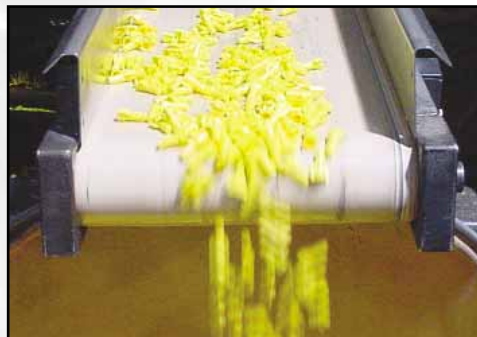
Leading the industry, Gardner Bender introduced EDI (Electronic Data Interaction) systems to our customers in 1988. EDI shortens lead-time between receipt and fulfillment of orders, provides order security and reduces order entry errors. Electronic Commerce increases our customers' competitive edge by providing instant access to inventory while minimizing dollar investment.

## DISTRIBUTION

Gardner Bender operates 4 strategically located North American facilities to minimize transit time. Superior information technology such as Oracle® and DOMS® optimizes inventory levels, delivering 98% fill rates within 24 hours. Radio Frequency and Bar Code scanning ensures accuracy.

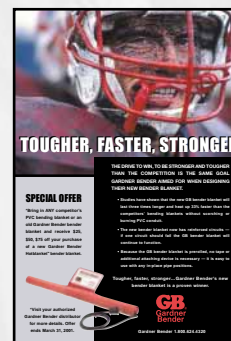
## WORLD CLASS MANUFACTURING

Gardner Bender employs World Class Manufacturing techniques like cellular manufacturing, Kaizen, Poke-a-yoke, Total Productive Maintenance (TPM), Total Quality Control (TQC) to make over 70% of everything we sell. Customer demand drives production through Kan Ban, Just-in-time (JIT), and other inventory pull systems.



## MARKETING SUPPORT

Gardner Bender's marketing support team is committed to selling our product through your business to the end-user. The Impact™ Merchandising Program provides distributors ready-made displays featuring only best-selling products. Gardner Bender's ad campaign focuses on innovative products which reinforce professional quality and promote labor savings. Promotions target your customers.



## A Glimpse Through Time:

### THE EARLY YEARS

- 1959** Jim Gardner founds Gardner Bender
- 1959** Aluminum conduit bender with built-in levels invented
- 1961** Metal stamping products introduced

### INNOVATION

- 1970** First fishtape w/ steering wheel grip invented
- 1974** Jim Gardner builds 21,500 sq. ft. facility
- 1975** First wire connectors w/ offset wings introduced
- 1979** Exclusive Cyclone® bender was introduced

Contractors demand the best. That's why Gardner Bender designs and manufactures electrical tools and supplies that reduce labor and increase safety. See why contractors demand Gardner Bender.

## TRAILER PROGRAM

Gardner Bender operates 16 trailers that travel from jobsite to jobsite throughout North America. The mobile classroom program expands contractor knowledge and supplements distributor open houses, counter days and other activities. No other manufacturer in our class maintains this strong of an investment in end-user training.

## CONTRACTOR NIGHT

Gardner Bender incorporates end-users into the product development cycle through scheduled Contractor Nights. Cross-functional teams of employees, contractors, and engineers design improvements for current product, solutions for new applications and provide feedback for revolutionary concepts. Gardner Bender exclusives like the Volt-Check™, Circuit Alert™, Cyclone®, and HotTube™ are all results of Contractor Nights.

## INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS (IBEW)

Gardner Bender, along with the International Brotherhood of Electrical Workers, train apprentices and journeymen to



become more productive and knowledgeable contractors. Gardner Bender has donated products for training facilities

across the country. Preferred status at locations like Pittsburgh's Local 5 Training Facility demonstrates our commitment to the contractor trade.

## TESTIMONIALS

Gardner Bender is the company of choice for delivering industry-leading contractors quality, innovation, and value:

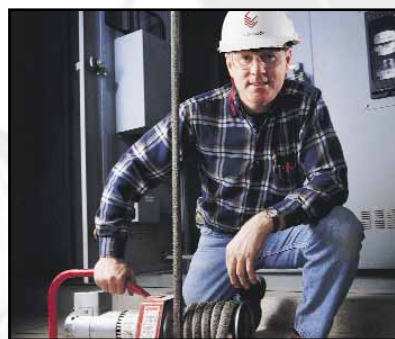
***"Working on jobs this size [Miller Park] require the toughest and most reliable tools. That's why I've trusted Gardner Bender for over twenty-two years."***

Larry Martin • Supervising Foreman  
Pieper Electric • Milwaukee, WI

***"Quality and reliability are key. That's why we demand the best tools in the industry – Gardner Bender."***

Ron Nabors • Project Superintendent  
Sasco Electric • Santa Clara, CA

***"The unique features on Gardner Bender products makes them versatile and durable enough to live up to our everyday demands."***



Rick Brock • Superintendent  
Continental Electric Construction Company • Chicago, IL

## PRODUCT LINE EXTENSION

- 1988** Powered bending & fishing products added
- 1989** Jetline® fishing products added
- 1993** Comprehensive staple product line added
- 1995** Cable Ties product line added

## CAPABILITY EXPANSION

- 1995** 75,000 sq. ft. of manufacturing added
- 1997** 210,000 sq. ft. distribution centers opened
- 1998** Fully embraced World Class Manufacturing
- 1999** ERP system implemented

Gardner Bender's internal design team focuses on designing products that reduce labor, improve craftsmanship and increase job safety. Below are a few examples of products that have been recently added to our product line. Look for the **NEW** icon throughout the catalog for more product additions.



## **NEW WIRE CONNECTORS IN JARS**

WireGard™, WingGard™, Hex-Lok®, and Uni-Lok™ connectors come in convenient, newly designed storage jars.

*See page 5 for info on Wire Connectors.*



## **NEW CYCLONE® BENDER NEWLY ENHANCED**

The best conduit bender is now even better with additional features for improved mobility and safety.

*See page 30 for info on the New Cyclone® Bender.*



## **NEW HOTBLANKET™ NEWLY ENHANCED**

Newly enhanced HotBlanket™ PVC benders feature a multi-strand heavy-gauge wire, unique seven-circuit design and thermostatic control – all increase the lifetime of the blanket up to four times.

*See page 59 for info on HotBlanket™ PVC benders.*



## **NEW CABLE SNAKE™**

Comfortable, ergonomic handle, large gripping surface, and 20% more tape make for faster and easier fishing runs.

*See page 72 for info on Cable Snake™ fish tapes.*



## **NEW SUPER SLUG-OUT™ KNOCKOUTS**

Exclusive three knife design splits slug into three pieces, allowing easy removal from the die.

*See page 120 for info on Super Slug-Out™ knockouts.*



## **NEW VOLT CHECK™**

Automatically selects proper function and range for voltage & continuity testing.

*See page 139 for info on the Volt Check™.*



## **NEW WIRE TRACKER™ & LAN TRACKER™**

Original compact design traces virtually any unshielded and unenergized wire or cable. Unique housing stores all transmitter plugs.

*See pages 155 & 156 for info on the Wire Tracker™ & LAN Tracker™.*



## TABLE OF CONTENTS

For additional assistance, please reference the Index by Part Number located in the back of the catalog.

### **WIRE CONNECTING, TERMINATION & CONTROL 5**

wire connectors • crimp connectors • grounding accessories • heat shrink tubing • terminals & disconnects • switches

### **CONDUIT BENDING 30**

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### **CONDUIT FISHING & WIRE HANDLING 61**

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### **HAND TOOLS & HOLE CUTTING 93**

wire strippers • multi-tools • voice/data/video strippers & crimpers • pliers • cable strippers & cutters • knockouts & knockout sets • hole saws • arbors & saw blades • bits • metal cases

### **TESTERS & ACCESSORIES 135**







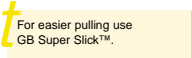







voltage & continuity testers • non-contact voltage testers • receptacle testers • stud finders • analog multimeters • digital multimeters • clamp meters • test kits • voice/data/video testers

### **CABLE TIES, STAPLES & FASTENERS 161**

cable ties & accessories • wire markers & clips • metal staples • plastic staples • cable clamps & fasteners • fittings & bushings • seals & straps • fastening kits

## ICON KEY

The Icons below have been placed throughout the catalog for easy use and identification.

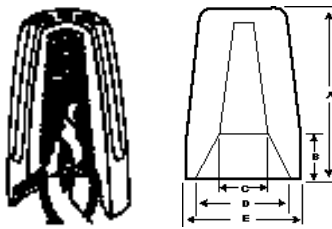
	Item has recently been added to the product line.		Recognized by Underwriters Laboratory Inc.
	Products are designed for Voice Data Video applications.		Approved by Canadian Standard Association.
	Indicates where complimentary products are listed within catalog.		Certified to European standards.
	Indicates helpful tips for product use.		Meets IEC-1010-1 specifications for Category III applications.
	Product is made in USA.		Product carries a one year limited warranty.
	Listed by Underwriters Laboratory Inc.		Product carries a five year limited warranty.
	Listed by Underwriters Laboratory Inc. for United States and Canada.		Product carries a lifetime warranty.



## WIREGARD™ COLOR-CODED SCREW-ON WIRE CONNECTORS

The industry's standard twist-on connector with quality performance and durability.

- Color-coded for easy size selection.
- Tight, square-wire spring makes quick, secure connections for positive continuity.
- Tough, thermoplastic shell shields against environmental extremes.
- Resists chemical action from hydrocarbons, dilute acid or alkaline solutions.
- Flame-retardant properties resist heat distortion up to 105 °C (221 °F).
- High-dielectric shell features deep skirt design to prevent exposure of bare wire.
- Copper to copper connections only.



Dimensions

Model	A	B	C	D	E
GB-1	37/64	11/64	1/8	1/4	21/64
GB-2	45/64	11/64	3/16	5/16	25/64
GB-3	27/32	21/64	13/64	11/32	7/16
GB-4	15/16	17/64	15/64	7/16	35/64
GB-6	11/16	17/64	21/64	17/32	21/32

**SEE PAGE 9**  
for info on Assortments & Kits

	Color	Part #	Pkg Qty	Wire Range	Min	Max
GB-1 / 71B		10-001	100/box	#22 - #16 AWG <sup>1</sup>	1 #20 w/1 #22	2 #16
		11-001	1,000/bulk case	#22 - #16 AWG <sup>1</sup>	1 #20 w/1 #22	2 #16
		12-001	25,000/bulk keg	#22 - #16 AWG <sup>1</sup>	1 #20 w/1 #22	2 #16
		16-001	150/jar	#22 - #16 AWG <sup>1</sup>	1 #20 w/1 #22	2 #16
		19-001	14/card	#22 - #16 AWG <sup>1</sup>	1 #20 w/1 #22	2 #16
		25-001	25/resealable bag	#22 - #16 AWG <sup>1</sup>	1 #20 w/1 #22	2 #16
GB-2 / 72B		10-002	100/box	#22 - #16 AWG <sup>1</sup>	3 #22	3 #16
		11-002	1,000/bulk case	#22 - #16 AWG <sup>1</sup>	3 #22	3 #16
		12-002	10,000/bulk keg	#22 - #16 AWG <sup>1</sup>	3 #22	3 #16
		16-002	150/jar	#22 - #16 AWG <sup>1</sup>	3 #22	3 #16
		19-002	14/card	#22 - #16 AWG <sup>1</sup>	3 #22	3 #16
		25-002	25/resealable bag	#22 - #16 AWG <sup>1</sup>	3 #22	3 #16
GB-3 / 73B		10-003	100/box	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		11-003	1,000/bulk case	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		12-003	10,000/bulk keg	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		13-003	10,000/keg <sup>4</sup>	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		16-003	100/jar	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		16-003L	700/jar	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		17-003	50/bag	#22 - #14 AWG <sup>3</sup>	4 #20	5 #16 w/1 #20
		18-430	400/bag	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		19-003	12/card	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		25-003	25/resealable bag	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
		50-003	6,000/bucket <sup>6</sup>	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
GB-4 / 74B		10-004	100/box	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		11-004	1,000/bulk case	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		12-004	10,000/bulk keg	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		13-004	10,000/keg <sup>4</sup>	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		16-004	200/jar	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		16-004L	400/jar	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		17-004	50/bag	#18 - #10 AWG <sup>3</sup>	2 #14 w/1 #18	5 #14
		18-440	400/bag	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		19-004	9/card	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		25-004	25/resealable bag	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
		50-004	4,000/bucket <sup>7</sup>	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
GB-6 / 76B		10-006	100/box	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		11-006	1,000/bulk case	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		12-006	5,000/bulk keg	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		13-006	5,000/keg <sup>5</sup>	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		16-006	125/jar	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		16-006L	300/jar	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		17-006	50/bag	#18 - #10 AWG <sup>3</sup>	3 #14	3 #10 w/2 #12
		18-260	200/bag	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		19-006	6/card	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		25-006	25/resealable bag	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12
		50-006	2,500/bucket <sup>11</sup>	#18 - #10 AWG <sup>3</sup>	2 #14	2 #10 w/2 #12

<sup>1</sup> Connections rated at 300 V Max. <sup>2</sup> Connections rated at 600 V Max. <sup>3</sup> Connections rated at 300 V Max. and 600 V Max.  
 Note: Connection rated at 600 + V Max. for Building Wiring and rated at 1000 V Max. in lighting fixtures/luminaries and signs.  
 See carton for detailed wire combination ratings.  
<sup>4</sup> 20 bags of 500 ea. <sup>5</sup> 20 bags of 250 ea. <sup>6</sup> 12 bags of 500 ea. <sup>7</sup> 8 bags of 500 ea. <sup>11</sup> 10 bags of 250 ea.



## HI-TEMP BLACK CONNECTORS FOR TOUGH ENVIRONMENTS

Connectors manufactured with high-temperature rated plastic to withstand extreme temperatures.

- Temperature rated to 150 °C (302 °F).
- Available in four standard models.



Model	Size	Part #	Pkg Qty	Wire Range	Min	Max
GB-1	71B	10-001HT	100/box	#22 - #16 AWG <sup>1</sup>	3 #22	2 #16
GB-1	71B	27-001	25,000/bulk keg	#22 - #16 AWG <sup>1</sup>	3 #22	2 #16
GB-2	72B	10-002HT	100/box	#22 - #16 AWG <sup>1</sup>	3 #20	3 #16
GB-2	72B	27-002	10,000/bulk keg	#22 - #16 AWG <sup>1</sup>	3 #20	3 #16
GB-3	73B	10-003HT	100/box	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
GB-3	73B	27-003	10,000/bulk keg	#22 - #14 AWG <sup>3</sup>	3 #20	4 #16 w/1 #20
GB-4	74B	10-004HT	100/box	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14
GB-4	74B	27-004	10,000/bulk keg	#18 - #10 AWG <sup>3</sup>	1 #14 w/1 #18	4 #14

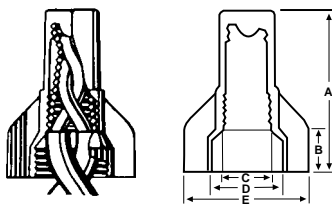
<sup>1</sup> Connections rated at 300 V Max. <sup>3</sup> Connections rated at 300 V Max. and 600 V Max. Note: Connection rated at 600 + V Max. for building wiring and rated at 1000 V Max. in lighting fixtures/luminaries and signs. See carton for detailed wire combination ratings.



## WINGGARD™ COLOR-CODED TWIST-ON WIRE CONNECTORS

Unsurpassed quality and durability in a high-leverage, easy-on wing type design.

- Wings are knurled for a surer grip and offset from centerline for greater twisting leverage.
- Square-wire plated spring instantly adjusts to the shape and size of the splice.
- Flame-retardant properties resist heat distortion up to 105 °C (221 °F).
- High-dielectric shell features deep skirt design to prevent exposure of bare wire.
- Copper to copper connections only.



Dimensions

Model	A	B	C	D	E
#84™	1 1/32	5/16	7/32	1/4	23/32
#86™	1 1/4	5/16	9/32	7/16	29/32
#88™	1 5/16	3/8	1 1/32	9/16	1 1/16
#89™	1 7/16	7/16	3/8	3/4	1 1/4

	Color	Part #	Pkg Qty	Wire Range	Min	Max
#84™		10-084	100/box	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
		11-084	1,000/bulk case	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
		12-084	10,000/bulk keg	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
		13-084	10,000/bulk keg <sup>4</sup>	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
		16-084	100/jar	#22 - #10 AWG <sup>3</sup>	3 #18	4 #12
		16-084L	600/jar	#22 - #10 AWG <sup>3</sup>	3 #18	4 #12
		17-084	50/bag	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
		18-484	400/bag	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
		19-084	6/card	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
		25-084	25/resealable bag	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
		50-084	5,000/bucket <sup>8</sup>	#22 - #10 AWG <sup>3</sup>	2 #18	3 #12
#86™		10-086	100/box	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
		11-086	1,000/bulk case	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
		12-086	10,000/bulk keg	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
		13-086	10,000/bulk keg <sup>4</sup>	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
		16-086	125/jar	#18 - #10 AWG <sup>3</sup>	3 #14	3 #14
		16-086L	325/jar	#18 - #10 AWG <sup>3</sup>	3 #14	6 #12
		17-086	50/bag	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
		18-486	400/bag	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
		19-086	6/card	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
		25-086	25/resealable bag	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
		50-086	3,000/bucket <sup>9</sup>	#18 - #10 AWG <sup>3</sup>	2 #14	5 #12
#89™		10-089	50/box	#14 - #6 AWG <sup>3</sup>	1 #10 w/1 #12	1 #6 STR w/2 #8 STR
		11-089	1,000/bulk case	#14 - #6 AWG <sup>3</sup>	1 #10 w/1 #12	1 #6 STR w/2 #8 STR
		12-089	2,500/bulk keg	#14 - #6 AWG <sup>3</sup>	1 #10 w/1 #12	1 #6 STR w/2 #8 STR
		13-089	2,500/keg <sup>10</sup>	#14 - #6 AWG <sup>3</sup>	1 #10 w/1 #12	1 #6 STR w/2 #8 STR
		16-089	50/jar	#14 - #6 AWG <sup>3</sup>	1 #10 w/1 #12	1 #6 STR w/2 #8 STR
		19-089	2/card	#14 - #6 AWG <sup>3</sup>	1 #10 w/1 #12	1 #6 STR w/2 #8 STR
		25-089	10/resealable bag	#14 - #6 AWG <sup>3</sup>	1 #10 w/1 #12	1 #6 STR w/2 #8 STR

<sup>3</sup> Connections rated at 300 V Max. and 600 V Max. Note: Connection rated at 600 + V Max. for Building Wiring and rated at 1000 V Max. in lighting fixtures/luminaries and signs. See carton for detailed wire combination ratings.

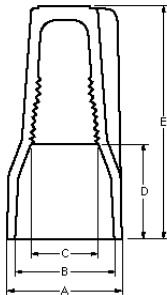
<sup>4</sup> 20 bags of 500 ea. <sup>8</sup> 10 bags of 500 ea. <sup>9</sup> 6 bags of 500 ea. <sup>10</sup> 25 bags of 100 ea.



## UNI-LOK™ UNIVERSAL WIRE CONNECTORS

Versatile and cost-effective, Uni-Lok™ connectors are designed to accept a wide range of wire combinations.

- Swept mini-wings provide additional torque.
- Square-wire spring grabs and holds wires for secure connections.
- Long skirt covers stripped wires.
- Rated at 600 V max in building wire and at 1000 V max in lighting fixtures/luminaries and signs.
- Copper to copper connections only.



	Color	Part #	Pkg Qty	Wire Range	Min	Max
G1		10-1G1	100/box	#22 - #12 AWG	4 #22	3 #12
		13-1G1	10,000/keg <sup>4</sup>	#22 - #12 AWG	4 #22	3 #12
		16-1G1	100/jar	#22 - #12 AWG	4 #22	3 #12
		16-1G1L	550/jar	#22 - #12 AWG	4 #22	3 #12
		19-1G1	6/card	#22 - #12 AWG	4 #22	3 #12
		25-1G1	25/resealable bag	#22 - #12 AWG	4 #22	3 #12
		50-1G1	5,000/bucket <sup>8</sup>	#22 - #12 AWG	4 #22	3 #12
G2		10-2G2	100/box	#22 - #10 AWG	3 #20	5 #12
		13-2G2	10,000/keg <sup>4</sup>	#22 - #10 AWG	3 #20	5 #12
		16-2G2	150/jar	#22 - #10 AWG	3 #20	5 #12
		16-2G2L	350/jar	#22 - #10 AWG	3 #20	5 #12
		19-2G2	6/card	#22 - #10 AWG	3 #20	5 #12
		25-2G2	25/resealable bag	#22 - #10 AWG	3 #20	5 #12
		50-2G2	3,000/bucket <sup>9</sup>	#22 - #10 AWG	3 #20	5 #12

<sup>4</sup> 20 bags of 500 ea. <sup>8</sup> 10 bags of 500 ea. <sup>9</sup> 6 bags of 500 ea.

Dimensions

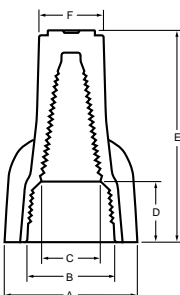
Model	A	B	C	D	E
G1	31/64	27/64	9/32	13/32	63/64
G2	37/64	33/64	23/64	27/64	111/64



## HEX-LOK® MULTI-RANGE WIRE CONNECTORS

Multi-range, hex head copper to copper connector covers 95% of everyday applications.

- Streamlined design for compact installations.
- Square-wire spring grabs and holds wires for secure connections.
- Long skirt covers stripped wires.
- Rated at 600 V max in building wire and at 1000 V max in lighting fixtures/luminaries and signs.
- Copper to copper connections only.



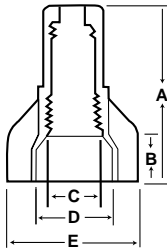
	Color	Part #	Pkg Qty	Wire Range	Min	Max
H1		10-1H1	100/box	#22 - #6 AWG	3 #22	4 #12 w/2 #18
		13-1H1	10,000/keg <sup>4</sup>	#22 - #6 AWG	3 #22	4 #12 w/2 #18
		16-1H1	175/jar	#22 - #6 AWG	3 #22	4 #12 w/2 #18
		16-1H1L	400/jar	#22 - #6 AWG	3 #22	4 #12 w/2 #18
		19-1H1	6/card	#22 - #6 AWG	3 #22	4 #12 w/2 #18
		25-1H1	25/resealable bag	#22 - #6 AWG	3 #22	4 #12 w/2 #18
		50-1H1	3,000/bucket <sup>9</sup>	#22 - #6 AWG	3 #22	4 #12 w/2 #18
H2		10-2H2	50/box	#14 - #6 AWG	3 #14	1 #6 w/1 #8
		13-2H2	5,000/keg <sup>5</sup>	#14 - #6 AWG	3 #14	1 #6 w/1 #8
		16-2H2	75/jar	#14 - #6 AWG	3 #14	1 #6 w/1 #8
		16-2H2L	200/jar	#14 - #6 AWG	3 #14	1 #6 w/1 #8
		19-2H2	6/card	#14 - #6 AWG	3 #14	1 #6 w/1 #8
		25-2H2	25/resealable bag	#14 - #6 AWG	3 #14	1 #6 w/1 #8

<sup>4</sup> 20 bags of 500 ea. <sup>5</sup> 20 bags of 250 ea. <sup>9</sup> 6 bags of 500 ea.

Dimensions

Model	A	B	C	D	E	F
H1	47/64	9/16	5/16	21/61	15/32	5/16
H2	1	15/32	25/64	13/32	121/64	7/16





## GREENGARD™ GROUNDING WIRE CONNECTORS

Specifically designed for making positive ground connections, GreenGard™ connectors feature the same live-action as GB WingGard™ connectors with the added plating protection for corrosion resistance in grounding applications.

- Contoured, offset wings enable firm ground connections.
- Flame retardant, thermoplastic shell resists punctures, cuts, abrasion and corrosion.
- Connectors have a hole in the tip for ground wire.
- Solid copper to copper connections only.

	Color	Part #	Pkg Qty	Wire Range	Min	Max
#95™		10-095	100/box	#14 - #10 AWG <sup>2</sup>	2 #14	4 #12
		11-095	1,000/bulk case	#14 - #10 AWG <sup>2</sup>	2 #14	4 #12
		12-095	10,000/bulk keg	#14 - #10 AWG <sup>2</sup>	2 #14	4 #12
		13-095	10,000/keg <sup>4</sup>	#14 - #10 AWG <sup>2</sup>	2 #14	4 #12
		16-095	150/jar	#14 - #10 AWG <sup>2</sup>	2 #14	4 #12
		19-095	6/card	#14 - #10 AWG <sup>2</sup>	2 #14	4 #12
		25-095	25/resealable bag	#14 - #10 AWG <sup>2</sup>	2 #14	4 #12

<sup>2</sup> Connections rated at 600 V Max. <sup>4</sup> 20 bags of 500 ea.

### Dimensions

Model	A	B	C	D	E
#95™	1 <sup>5</sup> / <sub>32</sub>	5 <sup>1</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>16</sub>	29 <sup>3</sup> / <sub>32</sub>



## WIRE CONNECTOR ASSORTMENTS

Gardner Bender offers industry-leading wire connectors in a wide variety of designs and sizes for dependable secured connecting.

- Expandable square wire spring creates a strong vibration-resistant connection.
- Deep skirt design helps prevent exposure of bare wires.
- Provides superior flash-over protection.
- Tough thermoplastic shell, shields against environmental extremes.

Part #	Pkg Qty	Description
19-AWC	9/card	Assorted WireGard™ Connectors

### Kit Contains:

Qty	Type	Wire Range	Min	Max
2	GB-1	#22 - #16 AWG	1 #20 w/1 #22	2 #16
2	GB-3	#22 - #14 AWG	3 #20	4 #16 w/1 #20
3	GB-4	#18 - #10 AWG	1 #14 w/1 #18	4 #14
2	GB-6	#18 - #10 AWG	2 #14	2 #10 w/2 #12

Part #	Pkg Qty	Description
25-AWC	25/bag	Assorted WireGard™ Connectors

### Kit Contains:

Qty	Type	Wire Range	Min	Max
3	GB-1	#22 - #16 AWG	1 #20 w/1 #22	2 #16
4	GB-2	#22 - #16 AWG	3 #22	3 #16
6	GB-3	#22 - #14 AWG	3 #20	4 #16 w/1 #20
6	GB-4	#18 - #10 AWG	1 #14 w/1 #18	4 #14

Part #	Pkg Qty	Description
19-AWW	5/card	Assorted WingGard™ Connectors

### Kit Contains:

Qty	Type	Wire Range	Min	Max
2	GB-4	#18 - #10 AWG	1 #14 w/1 #18	4 #14
2	GB-6	#18 - #10 AWG	2 #14	2 #10 w/2 #12
1	GB-1	#22 - #16 AWG	1 #20 w/1 #22	2 #16



WIRE CONNECTOR ASSORTMENT

The industries leading WireGard™ wire connectors in a convenient assortment.

- Square-wire spring enables fast connections.
- Thermoplastic shell shields against environmental extremes.
- Deep skirt design protects wires.

Part #	Pkg Qty	Description
TK-32	1 kit	Slide-Card Kit with 32 Assorted Wire Connectors

Kit Contains:

Qty	Type	Wire Range	Min	Max
10	GB-1 Connectors	#22 - #16 AWG	1 #20 w/1 #22	2 #16
8	GB-2 Connectors	#22 - #16 AWG	3 #22	3 #16
6	GB-3 Connectors	#22 - #14 AWG	3 #20	4 #16 w/1 #20
2	GB-4 Connectors	#18 - #10 AWG	1 #14 w/1 #18	4 #14
4	Crimp Connectors		1 #20 w/1 #12	2 #14
2	Crimp Connectors		4 #22	2 #16



WIRE CONNECTOR & TERMINAL KIT

Unique assortment of wire connecting and terminating products.

- Includes WireGard™ wire connectors.
- Includes ring and spade terminals, and tap and butt splices for various applications.
- Contained in a convenient compartment case for easy carrying and storage.

Part #	Pkg Qty	Description
TK-100	1 kit	Slide-Card Kit with 80 Assorted Wire Connectors & Solderless Terminals

WireGard™ Part of Kit Contains:

Qty	Type	Wire Range	Min	Max
8	GB-1 Connector	#22 - #16 AWG	1 #20 w/1 #22	2#16
4	GB-3 Connector	#22 - #14 AWG	3 #20	4 #16 w/1 #20
4	GB-4 Connector	#18 - #10 AWG	1 #14 w/1 #18	4 #14
4	GB-6 Connector	#18 - #10 AWG	2 #14	2 #10 w/2 #12

Terminal Part of Kit Contains:

Qty	Type	Wire Range	Color	Qty	Type	Wire Range	Color
5	Ring Terminal	22-18 AWG	Red	5	Female Disconnect	16-14 AWG	Blue
5	Ring Terminal	16-14 AWG	Blue	5	Male Disconnect	16-14 AWG	Blue
5	Ring Terminal	12-10 AWG	Yellow	5	Tap Splice	18-14 AWG	Blue
5	Spade Terminal	22-18 AWG	Red	5	Butt Splice	22-18 AWG	Red
5	Spade Terminal	16-14 AWG	Blue	5	Butt Splice	16-14 AWG	Blue
5	Spade Terminal	12-10 AWG	Yellow	5	Butt Splice	12-10 AWG	Yellow



## WIRE CONNECTOR & TERMINAL KIT

Broad assortment of wire connecting and terminating products.

- High quality, standard screw-on WireGard™ style wire connectors.
- Includes rings, spades, and tap terminals, and butt splices for various applications.
- Contained in a convenient compartment case for easy carrying and storage.

Part #	Pkg Qty	Description
TK-500	1 kit	Slide Card Kit with 247 Assorted Wire Connectors & Solderless Terminals



### WireGard™ Part of Kit Contains:

Qty	Type	Wire Range	Min	Max
25	GB-1 Connector	#22 - #16 AWG	1 #20 w/1 #22	2 #16
15	GB-3 Connector	#22 - #14 AWG	3 #20	4 #16 w/1 #20
15	GB-4 Connector	#18 - #10 AWG	1 #14 w/1 #18	4 #14
15	GB-6 Connector	#18 - #10 AWG	2 #14	2 #10 w/2 #12

### Terminal Part of Kit Contains:

Qty	Type	Wire Range	Color	Qty	Type	Wire Range	Color
12	Tap Splice	18-14 AWG	Blue	20	Female Disconnect	16-14 AWG	Blue
20	Ring Terminal	22-18 AWG	Red	5	Male Disconnect	16-14 AWG	Blue
20	Ring Terminal	16-14 AWG	Blue	15	Butt Splice	22-18 AWG	Red
20	Spade Terminal	22-18 AWG	Red	15	Butt Splice	16-14 AWG	Blue
20	Spade Terminal	16-14 AWG	Blue	15	Pigtail		



## NYLON PIGTAIL CONNECTORS

Closed-end crimp connector designed for use with solid or stranded wire.

- Two sizes available.
- Vibration resistant.
- Tin-plated seamless copper.
- Corrosion and chemical resistant.



Part #	Qty	Wire Range	Min	Max
14-089	7/card	#22 - #14 AWG	2 #22	1 #14 w/1 #18
14-090	6/card	#22 - #12 AWG	3 #18	1 #10 w/1 #20
PTL-2214	50/box	#22 - #14 AWG	2 #22	1 #14 w/1 #18



## CRIMP CONNECTORS

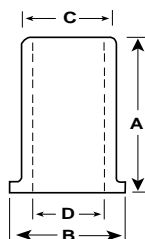
Use GB crimp connectors for strong, vibration-resistant permanent connections in branch circuit and fixture wiring.

- Two styles to choose from copper or zinc-plated.

Part #	Model	Type	Pkg Qty	Wire Range	Min	Max
10-310	310	Copper	100/box	#18 - #10 AWG	2 #16	2 #10 w/1 #12
10-410	410	Zinc-plated steel	100/box	#18 - #10 AWG	2 #16	2 #10 w/1 #12
10-410C	410	Zinc-plated steel	100/clam	#18 - #10 AWG	2 #16	2 #10 w/1 #12
11-410	410	Zinc-plated steel	1,000/bulk case	#18 - #10 AWG	2 #16	2 #10 w/1 #12
13-410	410	Zinc-plated steel	10,000/keg <sup>2</sup>	#18 - #10 AWG	2 #16	2 #10 w/1 #12
14-410	410	Zinc-plated steel	12/card	#18 - #10 AWG	2 #16	2 #10 w/1 #12
10-311	311	Copper	50/box	#14 - #8 AWG	3 #12	4 #10
10-411	411	Zinc-plated steel	50/box	#14 - #8 AWG	3 #12	4 #10

<sup>2</sup> 20 bags of 500 ea.

**SEE PAGE 106**  
for info on GCP-400 Crimp Tool



Dimensions				
Model	A	B	C	D
310/410	3/8	19/64	1/4	13/64
311/411	5/8	23/64	21/64	17/64



## SPLIT BOLT CONNECTORS

For use with copper to copper, copperweld to copperweld or copper to copperweld conductors.

Part #	Pkg Qty	Wire Range
14-702	1/card	#2 AWG Maximum
14-704	1/card	#4 AWG Maximum
10-706	25/box	#6 AWG Maximum
14-706	1/card	#6 AWG Maximum
14-708	1/card	#8 - #10 AWG Maximum

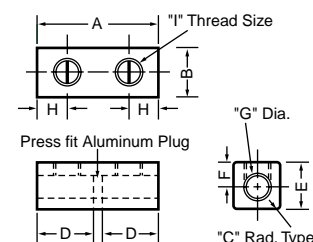
14-801



## ALUMINUM TO COPPER LUG CONNECTORS

For aluminum to copper connections.

Part #	Pkg Qty	Wire Range
14-801	1/box	#14 - #2 AWG
14-802	1/box	#14 - #1/0 AWG



GSPA-0



Model	Dimensions									Wire Range
	A	B	C	D	E	F	G	H	I	
14-801	1.37	.50	.09	.72	.56	.31	.31	.31	3/8 x 24 UNF	#14 - #2 AWG
14-802	1.91	.75	.15	.89	.75	.38	.37	.44	1/2 x 16 UNF	#14 - #1/0 AWG

ML-0614B



ML-1014B



## TERMINAL LUGS FOR HEAVIER COPPER WIRE CONDUCTORS

For connection of heavier gauge copper connections.

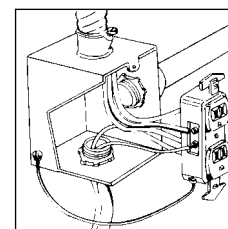
- Compact for use in tight locations.

Part #	Pkg Qty	Wire Range
ML-0614B	2/card	#6 STR - #14 SOL Offset Tang
ML-1014B	2/card	#10 STR - #14 SOL Offset Tang

## GROUNDING ACCESSORIES

Convenient grounding accessory kit contains products suitable for most job requirements.

- Zinc-plated grounding clips provide positive grounding to switch, outlet or junction boxes for #10, 12, 14 AWG copper grounding wire.
- Hex-head grounding screws secure ground wires to circuit box.
- Grounding clamps listed for direct burial and connection of ground wire to ground rod.



Part #	Pkg Qty	Description	Length	Ends
GGP-1261	25/bag	Grounding Pigtail; #12 AWG Solid	6 1/2"	Captured screw/stripped
GGP-1273	25/bag	Grounding Pigtail; #12 AWG Stranded	7"	Stripped/bare fork terminal
GGP-1282	25/bag	Grounding Pigtail; #12 AWG Stranded	8"	Captured screw/bare fork terminal

Part #	Pkg Qty	Description
14-GRC	1/card	Grounding Clamp for 1/2" - 1" pipe
15-FGC	1/card	Flexible Grounding Clamp for 3/8" - 1" pipe and 1/2" - 1" Copper
GGC-1014	50/box	Grounding Clip for #10, #12, or #14 AWG
GGC-1508	8/card	Grounding Clip for Aluminum or Copper; Grounding wire; Zinc plated
GGP-1502	2/card	#12 AWG Solid 8" One captured screw and one fork terminal end
GGG-1032HC	100/clam	Hex-Head Ground Screw
GGG-1512R	12/card	Green Round Washer Head Screw for Switch and Outlet Boxes





## ELECTRICAL TAPE

All weather standard electrical tape.

- Suitable for applications up to 600 V and not more than 176 °F.

Part #	Pkg Qty	Description
49605	1/card	¾" x 60' x 7 mil. Black Tape - Non-Flame Retardant
GTP-307	1/roll	¾" x 30' x 7 mil. Black Tape - Flame Retardant
GTP-607	1/roll	¾" x 60' x 7 mil. Black Tape - Low-Temp Resistant
GTPX-607	10/sleeve	¾" x 60' x 7 mil. Black Tape - Non-Flame Retardant



## COLORED ELECTRICAL TAPE

Various colors of quality electrical tape used for identification and insulation of wiring.

- Suitable for applications up to 600 V and not more than 176 °F.

Part #	Pkg Qty	Color	Description
GTB-667	1/roll	Blue	All-weather
GTE-667	1/roll	Grey	All-weather
GTG-667	1/roll	Green	All-weather
GTPC-512	5/rolls	1 of ea.	All-weather
GTR-667	1/roll	Red	All-weather
GTW-667	1/roll	White	All-weather



## FRICTION TAPE

Black friction tape with matted finish available in two lengths.

- Matted finish provides the best gripping surface available.
- Use over electrical splices, wrapping grips, or sporting goods.
- Available in two lengths: 30' or 60' long.

Part #	Pkg Qty	Description
GTF-300	1/roll	¾" wide, 30' long
GTF-600	1/roll	¾" wide, 60' long



## SILICONE SELF-SEALING TAPE

High quality tape that insulates all shapes of conductors to 400 V.

- Insulates and seals surfaces from -65 °C to 260 °C.
- Fuses to itself in seconds to stay watertight.
- Permanent mold in 24 hours or in minutes with heat application.

Part #	Pkg Qty	Description
HTP-1010	1/roll	10' Roll

# HEAT SHRINK TUBING



## HEAT SHRINK TUBING

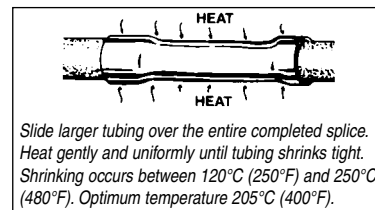
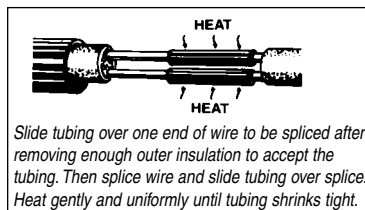
Polyolefin tubing shrinks under heat application to insulate wiring up to half its diameter.

- Useful for repairing cords and covering tool handles.
- Makes strong rope loops and neat ends.
- 600 V/Mil Dielectric strength.
- 2 to 1 shrink rate.



Part #	Pkg Qty	Inside Diameter		Length	Conductor Gauge AWG*																
		Before	Finished		24	22	20	18	16	14	12	10	8	6	4	2	1	1/0	2/0	3/0	4/0
HST-093	8 pcs	3/32"	3/64"	4"	•																
HST-125	7 pcs	1/8"	1/16"	4"		•	•	•													
HST-125S	1 spool	1/8"	1/16"	1000'		•	•	•													
HST-187	8 pcs	3/16"	3/32"	4"			•	•	•	•	•										
HST-250	6 pcs	1/4"	1/8"	4"				•	•	•	•	•									
HST-375	3 pcs	3/8"	3/16"	4"						•	•	•	•	•							
HST-500	3 pcs	1/2"	1/4"	4"							•	•	•	•	•						
HST-750	2 pcs	3/4"	3/8"	4"											•	•	•	•	•	•	
HST-999	2 pcs	1"	1/2"	4"															•	•	•

\* Sizes shown are approximate and may vary according to manufacturer and insulation system for each wire.



## HEAVY WALL HEAT SHRINK TUBING

Heavy Wall shrinks under heat to ensure a waterproof seal.

- Inner wall adhesive liner melts and seals during heating.
- Adhesive liner ensures waterproof seal.
- Used for both above or below ground installations.



Part #	Pkg Qty	I.D. Before	I.D. After
HWT-0722	1/bag	1 1/16"	7/32"
HWT-1138	1/bag	1 3/32"	3/8"
HWT-1550	1/bag	1 1/2"	1/2"



## THINWALL TUBING ASSORTMENT

This convenient Thinwall Heat Shrink Tubing Assortment offers the most widely used tubing for specific electrical applications.

- Constructed of polyolefin.
- Shrinks up to one half its diameter under heat.
- Provides excellent insulation to wiring.
- Used for repairing cords and covering tool handles.



Part #	Pkg Qty	Description
HST-AST	8/card	Thinwall Tubing Assortment

Kit Contains:

Qty	Part #	Description
4	HST-125	1/8" shrinks to 1/16"
2	HST-187	3/16" shrinks to 3/32"
2	HST-250	1/4" shrinks to 1/8"



## UNDERGROUND UF SPLICE KIT

Accommodates waterproof splicing of #14 - #8 AWG UF copper wire.

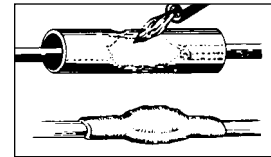
- Connector set screws engage each wire securely for a solid splice.
- Minimum conductor size 14/2 with ground.
- Maximum conductor size 8/3 with ground.
- 600 V rating.



Part #	Pkg Qty	Description
HST-1300	1 kit	Complete waterproof installation for UF cables

### Kit Contains:

Qty	Description
4	Screw Splice Connectors
1	8" Heavy Wall Polyolefin Heat Shrink Tubing with Watertight Adhesive Liner



## BUTT SPLICE KIT

Used for waterproof installation or repair of #2 - #8 AWG copper cable.

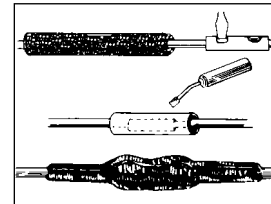
- Easy to use.
- Seal with heat gun or torch.
- Eliminates messy epoxies, tapes, or mastics.
- Rated at 600 V maximum.



Part #	Pkg Qty	Description
HSB-28	1 kit	Cable Splice Kit

### Kit Contains:

Qty	Description
1	Screw Splice Connector
1	4" Heavy Polyolefin Shrink Tube with Watertight Adhesive Liner



## BUTT SPLICE CONNECTOR KIT

Used for waterproof repair of well pipe cables and splices of stranded cable #8 - #14 AWG.

- Connector set screws engage each wire securely for a solid splice.
- Assures safe and permanent connections.
- Rated at 600 V maximum.




Part #	Pkg Qty	Description
HST-WP	1 kit	Well Pipe Wire Splice Kit


### Kit Contains:

Qty	Description
1	Screw Splice Connector
1	4" Heavy Polyolefin Shrink Tube with Watertight Adhesive Liner


## RING TERMINALS - VINYL INSULATED BARREL




	Color	Part #	Pkg Qty	Stud Size
Gauge 22-18		10-101	100/clam	4 to 6
		10-102	100/clam	8 to 10
		14-101	7/card	4 to 6
		14-102	7/card	8 to 10

	Color	Part #	Pkg Qty	Stud Size
Gauge 16-14		10-103	100/clam	4 to 6
		10-104	100/clam	8 to 10
		10-105	100/clam	12 to 1/4
		14-103	7/card	4 to 6
		14-104	7/card	8 to 10
		14-105	6/card	12 to 1/4
		20-103	22/clam	4 to 6
		20-104	22/clam	8 to 10
		20-105	17/clam	12 to 1/4


	Color	Part #	Pkg Qty	Stud Size
Gauge 12-10		10-106	50/clam	8 to 10
		10-107	50/clam	12 to 1/4
		10-108	50/clam	1/4 to 3/8
		14-106	5/card	8 to 10
		14-107	4/card	12 to 1/4
		14-108	4/card	1/4 to 3/8
		20-106	14/clam	8 to 10
		20-107	14/clam	12 to 1/4
		20-108	13/clam	1/4 to 3/8


	Color	Part #	Pkg Qty	Stud Size
Gauge 6		14-095	4/card	1/4 Stud
		14-096	4/card	3/8 Stud
		14-097	4/card	1/2 Stud


	Color	Part #	Pkg Qty	Stud Size
Gauge 4		14-098	4/card	3/8 Stud
		14-099	4/card	1/2 Stud

## SPADE TERMINALS - VINYL INSULATED BARREL




	Color	Part #	Pkg Qty	Stud Size
Gauge 22-18		10-111	100/clam	4 to 6
		10-112	100/clam	8 to 10
		14-111	7/card	4 to 6
		14-112	7/card	8 to 10
		20-111	20/clam	4 to 6

	Color	Part #	Pkg Qty	Stud Size
Gauge 16-14		10-113	100/clam	4 to 6
		10-114	100/clam	8 to 10
		14-113	7/card	4 to 6
		14-114	7/card	8 to 10
		20-113	20/clam	4 to 6
		20-114	20/clam	8 to 10


	Color	Part #	Pkg Qty	Stud Size
Gauge 12-10		10-116	50/clam	8 to 10
		14-116	5/card	8 to 10
		20-116	14/clam	8 to 10

## DISCONNECTS - VINYL INSULATED BARREL



	Color	Part #	Pkg Qty	Type
Gauge 22-18		10-141F	100/clam	Female
		10-141M	100/clam	Male
		10-141P	100/clam	F/M Pairs
		14-141F	6/card	Female
		14-141M	6/card	Male
		20-141F	21/clam	Female
		20-141M	18/clam	Male

	Color	Part #	Pkg Qty	Type
Gauge 16-14		10-143F	100/clam	Female
		10-143M	100/clam	Male
		10-143P	100/clam	F/M Pairs
		14-143F	6/card	Female
		14-143M	6/card	Male
		20-143F	20/clam	Female
		20-143M	18/clam	Male
		20-145M	16/clam	Male


	Color	Part #	Pkg Qty	Type
Gauge 12-10		10-145F	100/clam	Female
		10-145M	100/clam	Male
		14-145F	6/card	Female
		14-145M	6/card	Male
		20-145F	16/clam	Female

**SEE PAGE 17**  
for info on Assortments & Kits



## DISCONNECTS - FULLY INSULATED





	Color	Part #	Pkg Qty	Type
Gauge 22-18		10-151F	100/clam	Female
		10-151M	100/clam	Male
		10-151P	100/clam	F/M Pairs
		14-151F	4/card	Female
		14-151M	4/card	Male
		14-151P	4/card	F/M Pairs
		20-151P	10/clam	F/M Pairs

	Color	Part #	Pkg Qty	Type
Gauge 16-14		10-153F	100/clam	Female
		10-153M	100/clam	Male
		10-153P	100/clam	F/M Pairs
		14-153F	4/card	Female
		14-153M	4/card	Male
		14-153P	4/card	F/M Pairs
		20-153P	10/clam	F/M Pairs


## TAP SPLICES



	Color	Part #	Pkg Qty
Gauge 22-18		10-2218	25/clam
		14-2218	4/card

	Color	Part #	Pkg Qty
Gauge 16-14*		10-100	25/clam
		14-100	4/card
		20-100*	5/clam

\* 20-100 has a gauge of 18-14.

	Color	Part #	Pkg Qty
Gauge 12-10		14-1210	2/card

## BUTT SPLICES



	Color	Part #	Pkg Qty
Gauge 22-18		10-121	100/clam
		14-121	7/card
		20-121	22/clam

	Color	Part #	Pkg Qty
Gauge 16-14		10-123	100/clam
		14-123	7/card
		20-123	21/clam

	Color	Part #	Pkg Qty
Gauge 12-10		10-126	50/clam
		14-126	5/card
		20-126	15/clam

## BULLET SPLICE - FULLY INSULATED



	Color	Part #	Pkg Qty	Type
Gauge 22-18		10-161F	100/clam	Female
		10-161M	100/clam	Male
		10-161P	100/clam	F/M Pairs
		14-161F	4/card	Female
		14-161M	4/card	Male
		14-161P	4/card	F/M Pairs
		20-161P	10/clam	F/M Pairs

	Color	Part #	Pkg Qty	Type
Gauge 16-14		10-163F	100/clam	Female
		10-163M	100/clam	Male
		10-163P	100/clam	F/M Pairs
		14-163F	4/card	Female
		14-163M	4/card	Male
		14-163P	4/card	F/M Pairs
		20-163P	10/clam	F/M Pairs

Assortment	Part #	Pkg Qty	Type
	14-170	17/card	F/M Pairs

SEE PAGE 17  
for info on Assortments & Kits

# TERMINAL ASSORTMENTS & KITS



## TERMINAL ASSORTMENT

Assortment contains a variety of essential terminating products in a convenient clam shell.

- Variety of styles to accommodate numerous applications.
- Covers terminations from #14 - #22 AWG.

Part #	Pkg Qty	Description
10-170	100/clam	Clamshell Terminal Assortment

### Kit Contains:

Qty	Description	Gauge	Color	Qty	Description	Gauge	Color
12	Ring Terminal	16-14 AWG	Blue	14	Butt Splice	22-18 AWG	Red
12	Ring Terminal	22-18 AWG	Red	14	Butt Splice	22-18 AWG	Red
12	Spade Terminal	22-18 AWG	Red	12	Female Disconnect	16-14 AWG	Blue
12	Spade Terminal	16-14 AWG	Blue	12	Male Disconnect	16-14 AWG	Blue



## TERMINAL ASSORTMENT

A basic assortment of essential terminating products.

- Variety of styles to accommodate numerous applications.
- Covers terminations from #14 - #22 AWG.

Part #	Pkg Qty	Description
14-170	17/card	Carded Terminal Assortment

### Kit Contains:

Qty	Description	Gauge	Color	Qty	Description	Gauge	Color
2	Ring Terminal	16-14 AWG	Blue	2	Butt Splice	22-18 AWG	Red
2	Ring Terminal	22-18 AWG	Red	3	Butt Splice	22-18 AWG	Red
2	Spade Terminal	22-18 AWG	Red	2	Female Disconnect	16-14 AWG	Blue
2	Spade Terminal	16-14 AWG	Blue	2	Male Disconnect	16-14 AWG	Blue



## TERMINAL KIT

Assortment of most commonly used stud rings, stud spades, and butt terminals, and female and male disconnects.

- Wide variety of solderless terminals accommodating #10 - #22 AWG for most applications.
- Convenient 18 compartment reclosable carrying and storage case.

Part #	Pkg Qty	Description
TK-175	1 kit	Slide Card Kit with 175 Assorted Solderless Terminals

### Kit Contains:

Qty	Description	Gauge	Color	Qty	Description	Gauge	Color
11	Ring Terminal	22-18 AWG	Red	11	Spade Terminal	16-14 AWG	Blue
11	Ring Terminal	16-14 AWG	Blue	11	Spade Terminal	16-14 AWG	Blue
11	Ring Terminal	16-14 AWG	Blue	11	Spade Terminal	16-14 AWG	Blue
11	Ring Terminal	16-14 AWG	Blue	11	Butt Splice	22-18 AWG	Red
9	Ring Terminal	16-14 AWG	Blue	11	Butt Splice	16-14 AWG	Blue
4	Ring Terminal	12-10 AWG	Yellow	4	Butt Splice	12-10 AWG	Yellow
4	Ring Terminal	12-10 AWG	Yellow	11	Female Disconnect	22-18 AWG	Red
11	Spade Terminal	22-18 AWG	Red	11	Female Disconnect	16-14 AWG	Blue
11	Spade Terminal	22-18 AWG	Red	11	Male Disconnect	16-14 AWG	Blue



## TERMINALS & DISCONNECTS KIT

Termination made easy with this assortment pack of butt splices, female disconnects, ring and spade terminals.

- Convenient variety of widely used styles and sizes.
- Assorted product necessary for numerous applications.

Part #	Pkg Qty	Description
TK-40	1 kit	Terminal & Disconnect Kit

### Kit Contains:

Qty	Description	Gauge	Color	Qty	Description	Gauge	Color
5	Butt Splice	22-18 AWG	Red	5	Spade Terminal	22-18 AWG	Red
4	Butt Splice	16-14 AWG	Blue	3	Spade Terminal	12-10 AWG	Yellow
3	Butt Splice	12-10 AWG	Yellow	5	Female Disconnect	22-16 AWG	Red
6	Ring Terminal	22-18 AWG	Red	5	Female Disconnect	16-14 AWG	Blue
4	Ring Terminal	16-14 AWG	Blue				



## ECONOMY INSULATED TERMINAL & CRIMPING TOOL KIT

Economy 25 piece insulated termination and crimping tool kit.

- Includes a multi-function wire stripper/crimper, bolt cutter, and rethreader.
- Contains 24 most commonly used solderless terminals.
- Convenient kit has everything you need for basic terminating applications.

Part #	Pkg Qty	Description
GK-10	1 kit	Terminal & Crimping Tool Kit

### Kit Contains:

Qty	Description	Gauge	Color	Qty	Description	Gauge	Color
1	5 Function Multi-tool	—	—	3	Ring Terminal	22-18 AWG	Red
3	Butt Splice	22-18 AWG	Red	3	Ring Terminal	16-14 AWG	Blue
3	Butt Splice	16-14 AWG	Blue	3	Spade Terminal	22-18 AWG	Red
3	Female Disconnect	22-18 AWG	Red	3	Spade Terminal	16-14 AWG	Blue
3	Female Disconnect	16-14 AWG	Blue				



## INSULATED TERMINAL & STRIPPING/CRIMPING TOOL KIT

100 piece insulated terminal and stripping/crimping tool kit with multifunctional tool contained in the convenient storage case.

- Includes sleek multi-use stripper-crimper.
- Contains 100 assorted insulated terminals.
- Convenient 11 compartment reclosable storage and carrying case.

Part #	Pkg Qty	Description
GK-15	1 kit	Terminal & Stripper/Crimping Tool Kit

### Kit Contains:

Qty	Description	Gauge	Color	Qty	Description	Gauge	Color
1	Multi-Use Stripper (GS-66)	—	—	5	Male Bullet Splice	16-14 AWG	Blue
10	Butt Splice	22-18 AWG	Red	5	Pigtail Connector	22-18 AWG	Natural
10	Butt Splice	16-14 AWG	Blue	3	Pigtail Connector	16-14 AWG	Natural
6	Butt Splice	12-10 AWG	Yellow	1	Pigtail Connector	12-10 AWG	Natural
10	Ring Terminal	22-18 AWG	Red	10	Spade Terminal	22-18 AWG	Red
10	Ring Terminal	16-14 AWG	Blue	10	Spade Terminal	16-14 AWG	Blue
4	Ring Terminal	12-10 AWG	Yellow	5	Female Disconnect	16-14 AWG	Blue
5	Female Bullet Splice	16-14 AWG	Blue	5	Male Disconnect	16-14 AWG	Blue



## MULTI-PURPOSE ELECTRICAL KIT

Deluxe electrical kit with tools, tester, tape, and assorted terminals.

- Includes all the tools necessary for electrical terminating applications.
- Contains 30 most commonly used solderless terminals.
- Sturdy reclosable storage and carrying case.

Part #	Pkg Qty	Description
GK-25	1 kit	Terminal & Assorted Tool Kit

### Kit Contains:

Qty	Description	Gauge	Color	Qty	Description	Gauge	Color
1	Multi-Use Stripper (GS-66)	—	—	4	Butt Splice	16-14 AWG	Blue
1	Long Nose Pliers	—	—	4	Spade Terminal	22-18 AWG	Red
1	Flat Tip Phillips® Screwdriver	—	—	4	Spade Terminal	16-14 AWG	Blue
1	Phillips® Tip Screwdriver	—	—	4	Ring Terminal	22-18 AWG	Red
1	Electrical Tape (GTP-307)	—	—	4	Ring Terminal	12-10 AWG	Yellow
1	Circuit Tester (GET-100A)	—	—	6	Pigtail Connector	22-18 AWG	Natural
4	Butt Splice	22-18 AWG	Red				



## BATTERY CHARGING CLIPS

Designed specifically for battery and testing equipment applications, 5 - 50 A.

- Available in versatile sizes.

Part #	Pkg Qty	Description
14-505	4/card	5 Amp
14-510	4/card	10 Amp
14-520	2/card	20 Amp
14-530	2/card	30 Amp
14-550	1/card	50 Amp
14-552	2/card	50 Amp

## INSULATED BATTERY CLAMPS

For battery, battery charger and testing equipment applications.

- Copper clad clamp.
- Handle grips are insulated and color-coded for easy identification.



Part #	Pkg Qty	Description
14-610	2/card (1 red & 1 black)	10 Amp Copper Clad
14-630	2/card (1 red & 1 black)	50 Amp Copper Clad





## ALLIGATOR CLIPS

Multi-purpose alligator clips for home, auto and marine applications.

- Available with insulating sleeve.

Part #	Pkg Qty	Description
10-076	24/pack	Non-Ins. #22 - #14 AWG 2"
10-077	24/pack	Barrel-Ins. #22 - #14 AWG 2"
14-075	4/card	Non-Ins. #22 - #14 AWG 1 1/4"
14-076	4/card	Non-Ins. #22 - #14 AWG 2"
14-077	2/card	Barrel-Ins. #22 - #14 AWG 2"
14-078	2/card	Fully-Ins. #22 - #14 AWG 2"



## OX-GARD™ ANTI-OXIDANT COMPOUND

The perfect safeguard for aluminum to aluminum, aluminum to copper wire connections and aluminum conduit joints.

- Guards against oxidation.
- Improves conductivity; penetrates aluminum oxide to maintain inter-strand and inter-conductor current paths.
- Produces a cooler connection.

Part #	Pkg Qty	Description
OX-100	1/tube	1 oz Squeeze Tube
OX-100B	1/tube	1 oz Squeeze Tube (blister pack)
OX-400	1/tube	4 oz Squeeze Tube
OX-800	1/tube	8 oz Squeeze Tube



TOGGLE SWITCHES

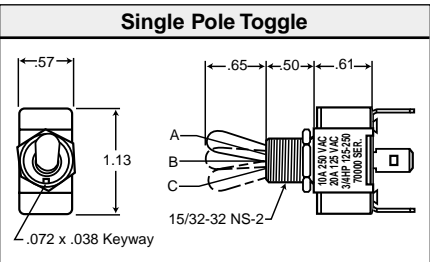
Versatile toggle switch family with multiple position configurations.

- Available in single or double pole.
- Perfect for industrial equipment, automotive or emergency lighting.
- 1/2" mounting hole required.
- **Specifications:** 10 A, 277 V AC / 20 A, 125 V AC

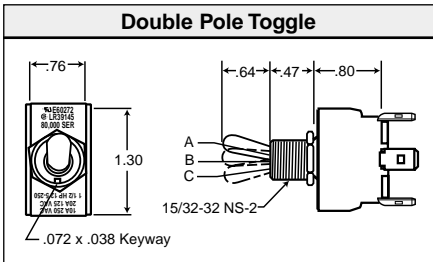
All switches must be installed with a hex nut (provided) behind panel to prevent damage during installation.

Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Rating
GSW-10	1/card	S.P.S.T.	ON-OFF	Screw	1½ HP 125-250 V AC
GSW-11*	1/card	S.P.S.T.	ON-OFF	Screw	¾ HP 125-250 V AC
GSW-110	1/card	S.P.S.T.	ON-OFF	"O" Ring & Screw	¾ HP 125-250 V AC
GSW-121	1/card	S.P.S.T.	ON-OFF	Spade	¾ HP 125-250 V AC
GSW-12	1/card	S.P.D.T.	ON-ON	Screw	¾ HP 125-250 V AC
GSW-13	1/card	S.P.D.T.	ON-OFF-ON	Screw	¾ HP 125-250 V AC
GSW-120	1/card	S.P.D.T.	ON-OFF-ON	Spade	¾ HP 125-250 V AC
GSW-117	1/card	S.P.D.T.	(ON)-OFF-(ON)	Screw	¾ HP 125-250 V AC
GSW-14	1/card	D.P.S.T.	ON-OFF	Screw	1½ HP 125-250 V AC
GSW-119	1/card	D.P.S.T.	ON-OFF	Spade	1½ HP 125-250 V AC
GSW-15	1/card	D.P.D.T.	ON-ON	Screw	1½ HP 125-250 V AC
GSW-16	1/card	D.P.D.T.	ON-OFF-ON	Screw	1½ HP 125-250 V AC
GSW-123	1/card	D.P.D.T.	(ON)-OFF-(ON)	Screw	1½ HP 125-250 V AC

( ) Indicates momentary action \*GSW-11 has an ON-OFF faceplate.



Recommended Mounting Hole: 1/2" dia.



Recommended Mounting Hole: 1/2" dia.



DOUBLE INSULATED, PLASTIC TOGGLE SWITCHES

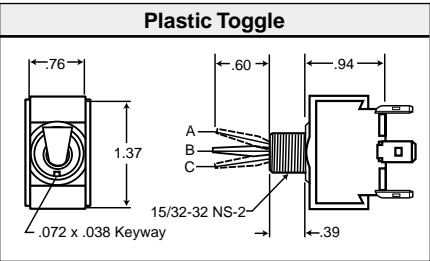
Double insulated for moisture protection in all environments.

- Internal "O" ring design for moisture and dust resistance.
- Perfect for marine/recreational equipment and weather resistant applications.
- **Specifications:** 10 A, 277 V AC / 20 A, 125 V AC



Part #	Pkg Qty	Poles	Toggle Position	Terminal Type
GSW-19	1/card	S.P.S.T.	ON-OFF	Screw
GSW-114	1/card	S.P.D.T.	(ON)-OFF-(ON)	Spade
GSW-116	1/card	S.P.D.T.	(ON)-OFF-(ON)	Spade

( ) Indicates momentary action



Recommended Mounting Hole: 1/2" dia.



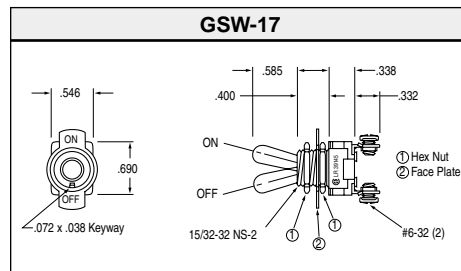
## TOGGLE SWITCHES

S.P.S.T. smaller constructed toggle switches for limited space applications.

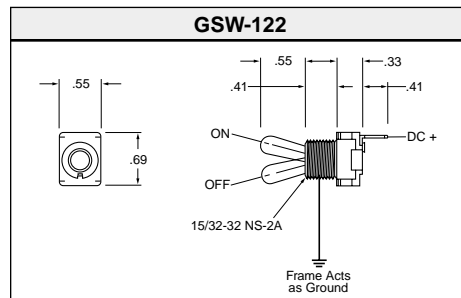
- Frame and support are steel with zinc chromate.
- Brass terminals.
- Multiple switch configurations.

Part #	Pkg Qty	Toggle Position	Terminal Type	Actuator	Rating
<b>GSW-17*</b>	1/card	ON-OFF	screw	bat lever	3 A/240 V AC, 6 A/120 V AC
<b>GSW-18*</b>	1/card	ON-OFF	6" wire leads	bat lever	8 A/125 V, 4 A/250 V, 1/3 HP/125 V AC, 10 A/125 V AC
<b>GSW-122</b>	1/card	ON-Term. Ground	spade	bat lever	21 A/14 V DC
<b>GSW-124</b>	1/card	ON-OFF	screw	short ball	3 A/240 V AC, 6 A/120 V AC
<b>GSW-125</b>	1/card	ON-OFF	6" wire leads	short ball	3 A/250 V, 6 A/125 V
<b>GSW-125BP</b>	10/box	ON-OFF	6" wire leads	short ball	3 A/250 V, 6 A/125 V

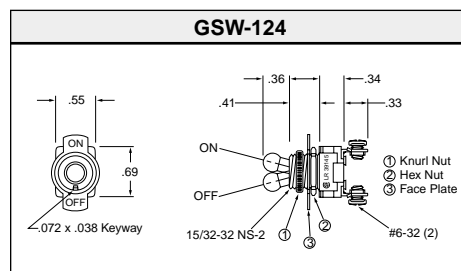
( ) Indicates momentary action \*GSW-17 & 18 have an ON-OFF faceplate.



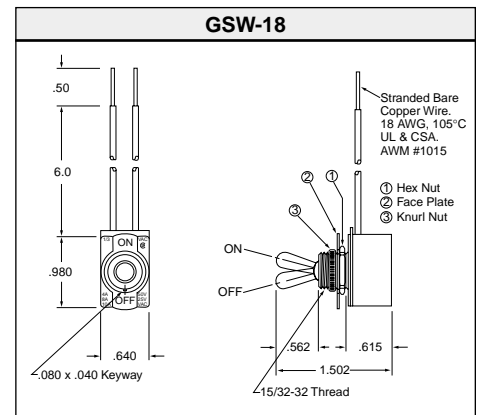
Recommended Mounting Hole: 1/2" dia.



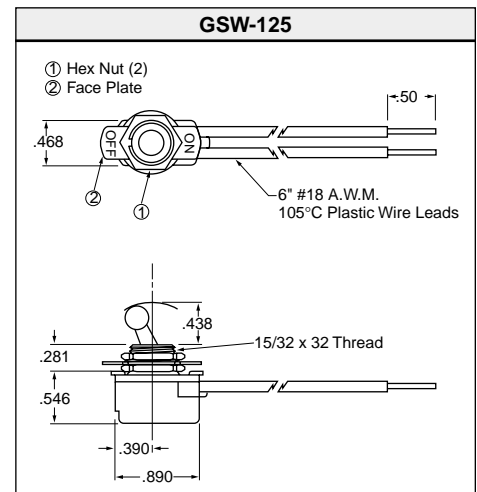
Recommended Mounting Hole: 1/2" dia.



Recommended Mounting Hole: 1/2" dia.



Recommended Mounting Hole: 1/2" dia.



Recommended Mounting Hole: 1/2" dia.



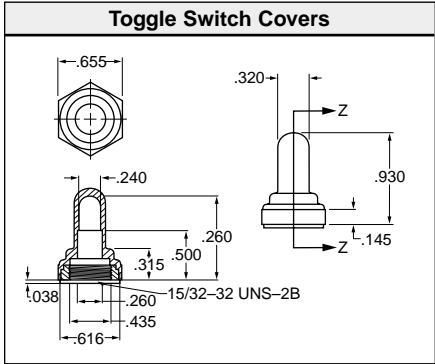
TOGGLE SWITCH COVERS

Tough EDPM rubber covers to protect switches from moisture, dust and dirt.

- Built-in hex nut base screws onto all GB toggle switches.

Part #	Pkg Qty	Description
GSW-20	2/card	Toggle Switch Cover

**t** All switches must be installed with a hex nut (provided) behind panel to prevent damage during installation.



Recommended Mounting Hole: 1/2" dia.

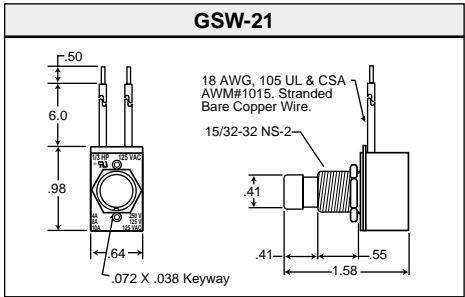


MAINTAINED CONTACT PUSHBUTTON SWITCH

Maintained pushbutton switch rugged and versatile enough to be utilized in many applications.

- Push on, push off switch with #18 AWG, 6" stripped wire leads.
- Mounting nut included.

Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Rated
GSW-21	1/card	S.P.S.T.	Push ON-Push OFF	Wire Leads	10 A/125 V AC, 8 A/125 V, 4 A/250 V, 1/8 HP 125 V AC



Recommended Mounting Hole: 1/2" dia.



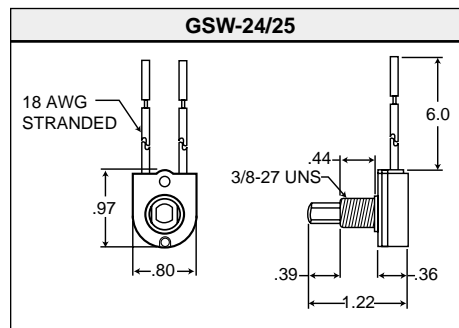


## MAINTAINED CONTACT PUSH-BUTTON SWITCHES

Switch family utilized in applications requiring continuous continuity contacts.

- ON-OFF maintained contact switch with #18 AWG, 6" stripped wire leads.
- Mounting nut included.
- **Specifications:** 1 A/125 VT, 6 A/125 VL, 6 A/125 V AC, 3 A/250 V AC

Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Plating	Circuit
GSW-24	1/card	S.P.S.T.	ON-OFF	6" wire leads	Nickel	2 Pos. 2 Wire
GSW-24BP	10/box	S.P.S.T.	ON-OFF	6" wire leads	Nickel	2 Pos. 2 Wire
GSW-25	1/card	S.P.S.T.	ON-OFF	6" wire leads	Brass	2 Pos. 2 Wire



Recommended Mounting Hole: 1/2" dia.



## MOMENTARY CONTACT PUSH-BUTTON SWITCHES

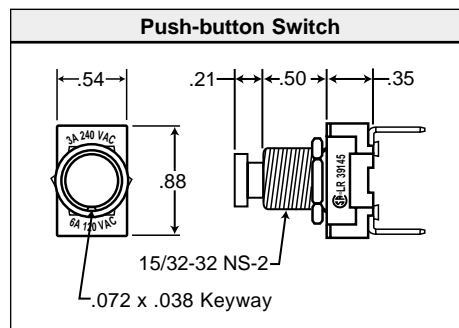
Basic push-button switch family utilized in applications requiring intermittent continuity contacts.

- Normally OFF or normally ON models.
- Screw terminals.
- Mounts in standard 1/2" diameter hole.
- Mounting nut included.



Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Color	Rating
GSW-22	1/card	S.P.S.T.	NORMALLY OFF	Screw	Black	6 A/120 V AC, 3 A/240 V AC
GSW-23	1/card	S.P.S.T.	NORMALLY ON	Screw	Red	3 A/120 V AC, 1.5 A/277 V AC

NOTE: GSW-22 is CSA approved only.



Recommended Mounting Hole: 1/2" dia.

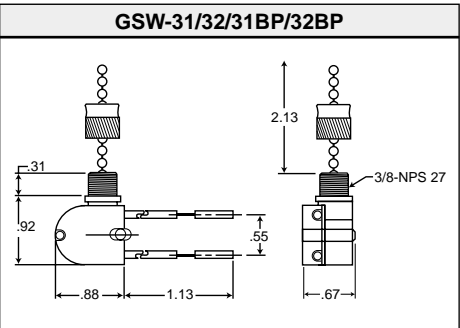


SINGLE CIRCUIT PULL CHAIN SWITCHES

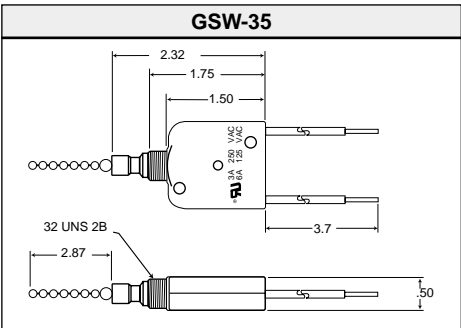
- Basic ON-OFF switch family with pull chain feature.
- ON-OFF switch with #18 AWG, 6" stripped wire leads.
  - Mounts in  $\frac{1}{32}$ " diameter hole (GSW-35 mounts in  $\frac{1}{2}$ " diameter hole).
  - Color coordinated nickel or brass plated.
  - **Specifications:** 3 A/125 VL, 6 A/125V AC, 3 A/250 V AC

Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Plating	Circuit
GSW-31	1/card	S.P.S.T.	ON-OFF	6" Wire Leads	Nickel	2 Pos. 2 Wire
GSW-31BP	10/box	S.P.S.T.	ON-OFF	Wire Leads	Nickel	2 Pos. 2 Wire
GSW-32	1/card	S.P.S.T.	ON-OFF	Wire Leads	Brass	2 Pos. 2 Wire
GSW-32BP	10/box	S.P.S.T.	ON-OFF	Wire Leads	Brass	2 Pos. 2 Wire
GSW-35*	1/card	S.P.S.T.	ON-OFF	Wire Leads	Nickel	2 Pos. 2 Wire

\* All angle



Recommended Mounting Hole:  $\frac{1}{32}$ " dia.



Recommended Mounting Hole:  $\frac{1}{2}$ " dia.



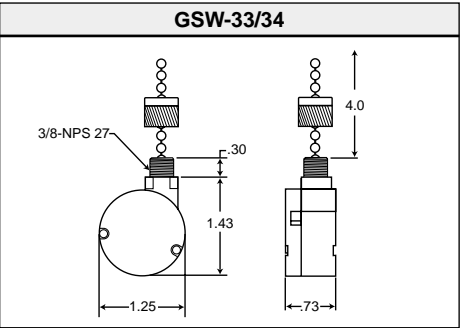
VARIABLE SPEED & TWO CIRCUIT PULL CHAIN SWITCHES

- Pull chain switches for multifunction applications.
- Two and three speed switching.
  - Push-in connections for #18 AWG wire.
  - Mounts in  $\frac{1}{32}$ " diameter hole.
  - **Specifications:** 6 A/125 V AC, 3 A/250 V AC, 6 A/125 VL

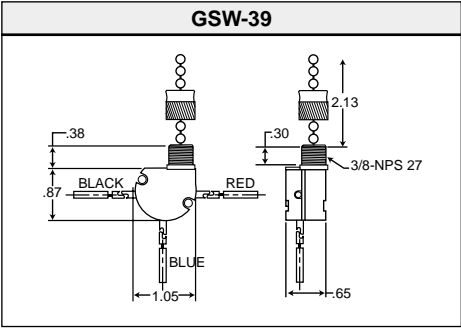


Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Plating	Circuit
GSW-33	1/card	S.P.S.T.	OFF-ON-ON	Wire Leads	Brass	3 Pos. 3 Wire
GSW-34	10/box	S.P.S.T.	OFF-ON-ON-ON	Wire Leads	Brass	4 Pos. 4 Wire
GSW-39	1/card	S.P.S.T.	OFF-ON(A)-ON(B)-ON(A+B)	Wire Leads	Brass	4 Pos. 3 Wire

( ) Indicates momentary action



Recommended Mounting Hole: .406" dia.



Recommended Mounting Hole: .406" dia.



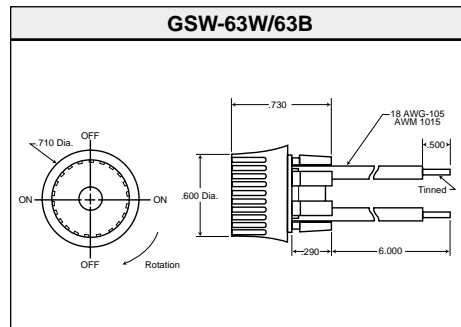
## ROTARY SWITCHES

Single or three position switches in various fan and lighting applications.

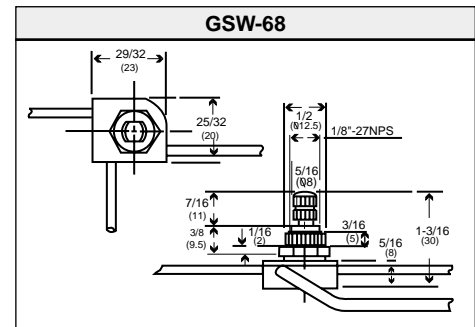
- #18 AWG, 6" stripped wire leads.
- Brass terminals.

Part #	Pkg Qty	Poles	Toggle Position	Plating / Color	Rating
GSW-61	1/card	S.P.S.T.	ON-OFF	Brass	6 A/125 V AC, 3 A/250 V AC
GSW-62	1/card	S.P.T.T.	OFF-ON(P)-ON(N)-ON(N+P)	Brass	6 A/125 V AC, 3 A/250 V AC
GSW-63W	1/card	S.P.S.T.	ON-OFF	White Button	1.5 A/250 V AC
GSW-63B	1/card	S.P.S.T.	ON-OFF	Black Button	1.5 A/250 V AC
GSW-64	1/card	S.P.T.T.	OFF-ON-ON-ON	Black Dial	4 A/125 V AC, 2 A/250 V AC, 1 A/125 V DC
GSW-68	1/card	S.P.T.T.	OFF-ON(P)-ON(N)-ON(N+P)	Brass	6 A/125 V AC, 3 A/250 V AC
GSW-69	1/card	S.P.S.T.	ON-OFF	Black Plastic	6 A/125 V AC, 3 A/250 V AC
GSW-69BP	10/box	S.P.S.T.	ON-OFF	Black Plastic	6 A/125 V AC, 3 A/250 V AC

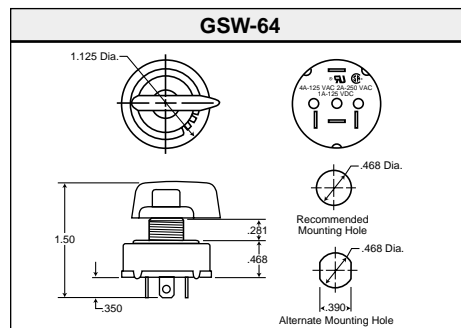
( ) Indicates momentary action



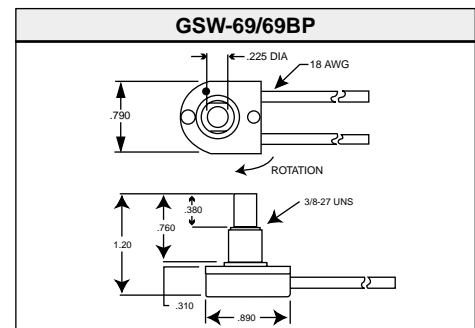
Recommended Mounting Hole: .513" dia.



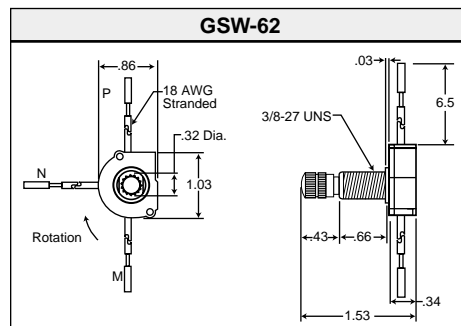
Recommended Mounting Hole: .513" dia.



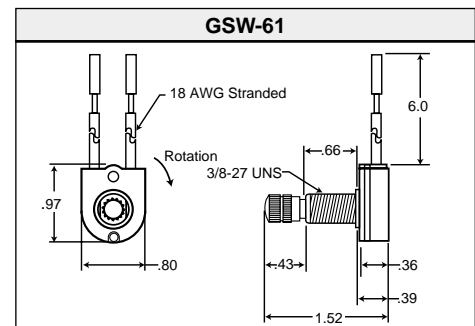
Recommended Mounting Hole: .513" dia.



Recommended Mounting Hole: .513" dia.



Recommended Mounting Hole: .406" dia.



Recommended Mounting Hole: .406" dia.

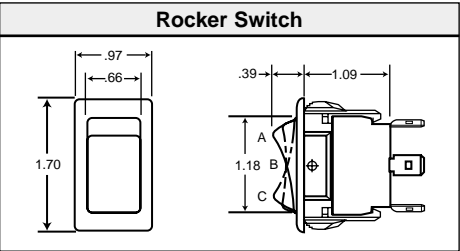


STANDARD ROCKER SWITCHES

- Heavy-duty rocker switches that fit .830" X 1.45" panel cut-outs.
- Frame and rocker are black glass-filled nylon.
  - Lighted or unlighted versions available.
  - **Specifications:** 10 A/277 V AC, 20 A/125 V AC
  - Switches with solder terminals come in a phenolic case and do not have a moisture and dust resistant seal.

Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Rated
GSW-45	1/card	S.P.S.T.	ON-OFF	Spade	¾ HP 125 - 250 V AC
GSW-49*	1/card	S.P.S.T.	ON-OFF	Spade	¾ HP 125 - 250 V AC

\*Red lighted



Recommended Mounting Hole: .830" (±.015) x 1.450" (±.005)

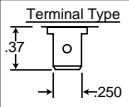
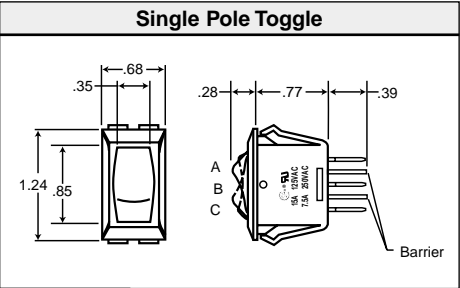


APPLIANCE ROCKER SWITCHES

- Economy rocker switches that fit standard .550" X 1.125" panel cut-outs.
- Perfect for machinery or appliances.
  - Custom versions available.
  - Lighted or unlighted versions available.
  - **Specifications:** 16 A/125 V AC, 8 A/250 V AC

Part #	Pkg Qty	Poles	Toggle Position	Terminal Type
GSW-41	1/card	S.P.S.T.	ON-OFF	Spade
GSW-42*	1/card	S.P.S.T.	ON-OFF	Spade

\*Red lighted



Recommended Mounting Hole:  
Fits .550" ( +.005 / -.000 ) x 1.125" ( +.005 / -.000 )  
panel cutout



## MINI ROCKER SWITCH

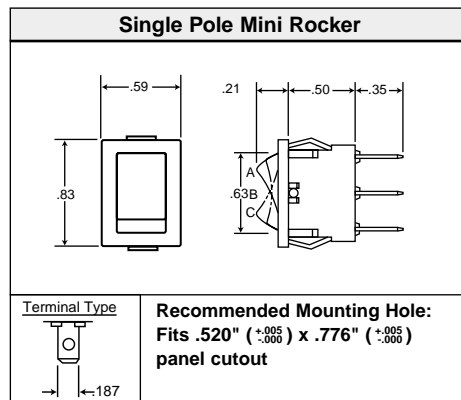
Miniature rocker switch that fits .520" X .776" panel cutouts.

- Perfect for small machinery or appliances.
- Custom versions available.
- Lighted or unlighted versions available.
- **Specifications:** 13 A/125 V AC, 10 A/250 V AC, ½ HP 125 - 250 V AC



Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Rated
GSW-48*	1/card	S.P.S.T.	ON-OFF	Spade	10 A/125 - 250 V AC, ½ HP 250 V AC, ½ HP 125 V AC

\*Red lighted



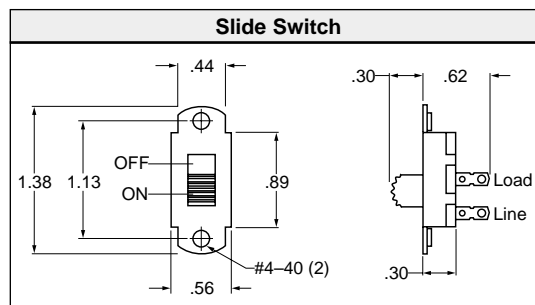
## SLIDE SWITCH

Standard slide switch that fits 9/16" x 7/8" opening.

- Furnished with solder lug terminals.



Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Rated
GSW-51	1/card	S.P.S.T.	ON-OFF	Solder	10 A/125 V AC, 5 A/250 V AC







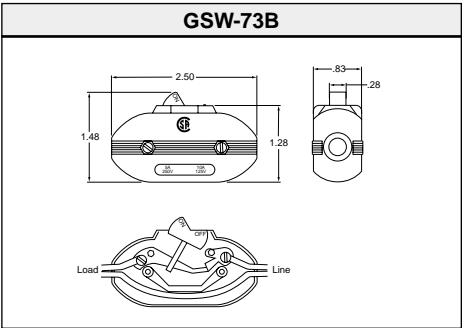
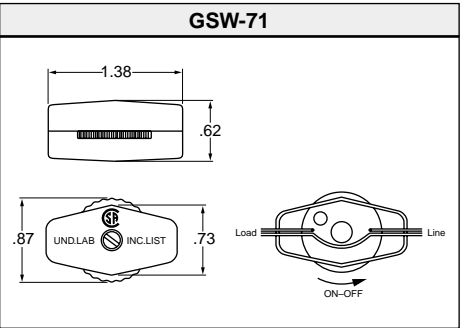
LAMP CORD SWITCHES

Versatile black or ivory lamp cord switch family.

- Insulation piercing contacts eliminate wire stripping.



Part #	Pkg Qty	Poles	Toggle Position	Color	Rated
GSW-71	1/card	S.P.S.T.	ON-OFF	Brown	6 A/125 V AC, 3 A/250 V AC, 3 A/125 VT
GSW-73B	1/card	S.P.S.T.	ON-OFF	Brown	10 A/125 V, 5 A/250 V



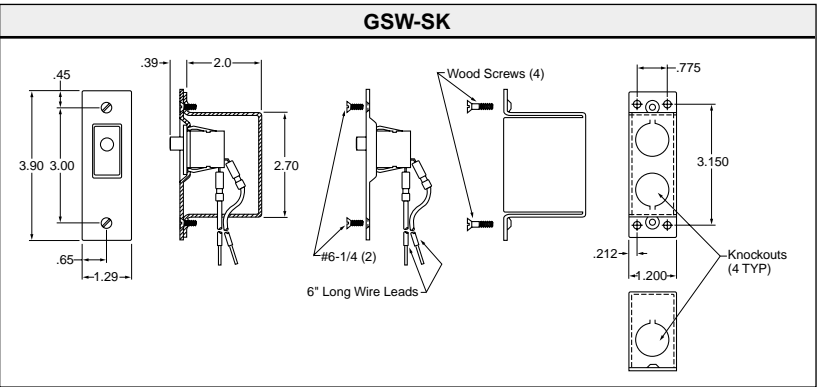
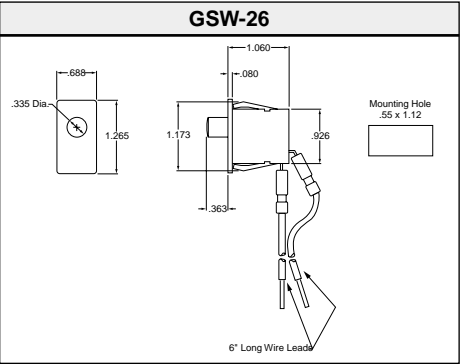
DOOR SWITCH

Push button switch with metal box, cover plate and mounting hardware to operate lights when door is opened.

- Mounts in door jam.
- Fits in 1.25" X 2.75" X 2.0" deep, approximate mounting hole.
- **Specifications:** 10 A/125 V AC, 10 A/250 V AC, 10 A/277 V AC, ½ HP 125 - 277 V AC.



Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Description
GSW-SK	1/card	S.P.S.T.	Normally ON-Mom Contact	6" Wire Leads	AC/DC Door Switch
GSW-26	1/card	S.P.S.T.	Normally ON-Mom Contact	6" Wire Leads	Replacement for GSW-SK





## CYCLONE® BENDER

One shoe bends 1/2" to 2" steel (schedule 40 max), 1/2" to 2" stainless steel (304, 316 grades) and aluminum Rigid, IMC and EMT conduit. Also bends 1/2" to 1 1/4" PVC-coated conduit on EMT shoe in next larger shoe groove.

- One shoe fits all conduit sizes up to 2" with no loose parts.
- Quick threading four wheel kit increases mobility.
- On/Off switch allows user to shut machine down for extended periods of time.
- Low-volt (95), high-volt (132) automatic shut off helps protect electrical components from voltage fluctuations.
- Resetting circuit breaker eliminates down time changing fuses.
- Hook attachment on pendant control frees hands while working with conduit.
- Horizontal and vertical positions allow the unit to create accurate offset bends.
- Minimal training time.
- Dimensions: 47" x 33" x 43".

Part #	Description	Weight
B2000*	Cyclone® Electric-powered Production Bender, 115 V / 15 A	375 lbs
B2005	Replacement Cover	2.5 lbs

\*Includes weather resistant cover.

### CENTERLINE RADIUS CHART:

Nominal Size	PVC Coated				Stainless Steel
	IMC	Rigid	EMT	Rigid	
1/2"	4 3/8"	5 3/8"	4 1/4"	4 3/8"	4 3/8"
3/4"	5 5/16"	6 1/2"	5 3/8"	5 9/16"	5 5/16"
1"	6 7/32"	7 27/32"	6 1/2"	6 7/32"	6 7/32"
1 1/4"	7 23/32"	8 3/8"	7 27/32"	7 23/32"	7 23/32"
1 1/2"	8 7/32"	N/A	8 3/8"	8 15/64"	8 15/64"
2"	9 15/32"	N/A	9 21/32"	9 29/64"	9 29/64"



Can be performed in the horizontal or vertical position.



Easy dial settings makes training time virtually non-existent.



**ELECTRIC SIDEWINDER® BENDER**

B222 series bends 1/2" to 2" (schedule 40 max.) and aluminum Rigid, IMC and EMT conduit.

- Up to 180° one-shot bends in 1/2" through 2" conduit.
- Handle detaches and pivots out the way for offset bending.
- Competitor shoes are interchangeable.

Part #	Description	Weight
B222DA	Electric Sidewinder® w/o Shoes	269 lbs
B222EA	EMT Electric Sidewinder® w/ B5125E & B152E Shoe Sets	350 lbs
B222IA	IMC/Rigid Elec. Sidewinder® w/ B5125R, B150R & B200R Shoe Sets	385 lbs
B222RA	Rigid Elec. Sidewinder® w/ B5125R & B152R Shoe Sets	282 lbs

**CENTERLINE RADIUS CHART:**

Nominal Size	IMC	PVC Coated Rigid	EMT	Rigid
1/2"	4"	7 1/8"	6 1/8"	4 1/2"
3/4"	4 5/8"	8 1/2"	7 1/4"	4 5/8"
1"	5 7/8"	9 7/8"	8 5/8"	5 7/8"
1 1/4"	7 3/8"	7 7/8"	10 1/4"	7 3/8"
1 1/2"	8 3/8"	9 1/4"	8 1/2"	8 3/8"
2"	9 1/2"	9 1/4"	9 1/2"	9 5/8"