

Full Line Product Catalog



About nVent GARDNER BENDER

For 60 years nVent GARDNER BENDER has been manufacturing and supplying a broad range of electrical and wire management products for both professionals and do-it-yourselfers.

Starting with just a single product in 1959, our nVent GARDNER BENDER business has grown to include over 3000 products and 11 distinct product lines that install, connect, fasten, test, and trouble-shoot electrical wire and circuits. From large wire pulling equipment and powered conduit benders to wire connectors, heat shrink, cable ties, hand tools and test instruments, nVent GARDNER BENDER provides a complete solution for electrical installation and maintenance projects large and small.

nVent GARDNER BENDER products are stocked on over 1.0 million square feet of shelf space at more than 15,000 locations throughout the Americas, including leading electrical, industrial and catalog distributors, as well as leading home centers, hardware stores and e-commerce sites.

Known for award-winning innovation, operational excellence, category analytics, and leading merchandising support, nVent GARDNER BENDER has been recognized multiple times by leading customers as “Supplier of the Year and Product of the Year”. Looking towards the future, nVent GARDNER BENDER continues to build on these recent successes, evolving and innovating to exceed the ever-changing technological requirements of our customers.



New Products

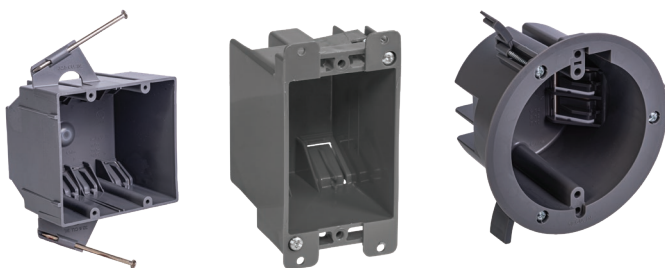
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CONNECTORS

nVent GARDNER BENDER wire connectors are engineered to exceed the expectations of professional electricians. Perfect for commercial or residential applications, nVent GARDNER BENDER wire connectors offer world-class quality, performance and application versatility.

Connectors



Corrosion Inhibitors	16	Specialty Connectors	12
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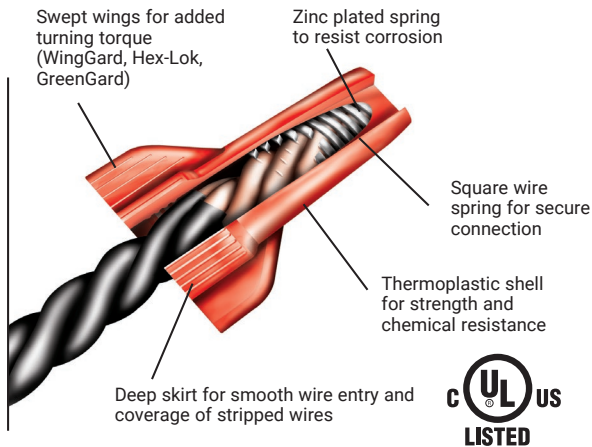


Connectors

WIRE RANGE CHART

Model: Wire Combination

WireGard	2#22	3#22	2#20	3#20	2#18	2#16	3#16	2#14	3#14	2#12	4#14	3#12	4#12	3#10	5#12	4#10	2#6		
GB-1 Gray	Min 1#20 + 1#22		Max 2#16																
GB-2 Blue	Min 3#22		Max 3#16																
GB-3 Orange			Min 3#20		Max 2#14 + 3#20														
GB-4 Yellow	Min 1#20 + 2#22			Max 3#12															
GB-6 Red								Min 2#14			Max 3#10								
Hi-Temp																			
GB-3 Black			Min 3#20		Max 2#14 + 3#20														
GB-4 Black					Min 1#14 + 1#18			Max 4#14 + 1#18											
WingGard																			
84 Yellow	Min 2#22		Max 3#12																
GB86 Red	Min 2#20		Max 4#10																
89 Blue												Min 3#12		Max 1#6 + 2#8					
GreenGard																			
95 Green								Min 2 #14		Max 4#12									
Hex-Lok																			
H1 Tan	Min 2#22		Max 3#10																
H2 Gray								Min 1#16 + 4#18			Max 1#6 + 1#8								
Uni-Lok																			
G1 Yellow	Min 1#20 + 2#22			Max 3#12															
G2 Red	Min 1#18 + 2#22		Max 5#12 + 1#20																



All nVent GARDNER BENDER Twist-On Wire Connectors:

- Are designed to make wiring jobs fast, easy, safe and reliable.
- Provide maximum application flexibility by offering contractors myriad packaging options, ergonomic designs and wire ranges.
- Exceed UL standards for dielectric strength, wire pullout force and static heat resistance.
- Are manufactured of top-quality materials.
- Meet the requirements of nearly all budgets.
- Are continually evaluated for improvements and enhancements.



TWIST-ON CONNECTORS



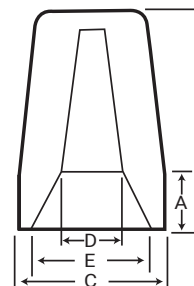
WIREGARD COLOR-CODED SCREW-ON CONNECTORS

The industry standard twist-on connector with top quality, performance and durability.

- Industry standard color-coded for easy size selection.
- Tight, square-wire spring makes quick, secure connections for positive continuity.
- Tough, thermoplastic shell made of polypropylene shields against environmental extremes.
- Resists chemical action from hydrocarbons, diluted 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.

Dimensions - in (mm)

	A	B	C	D	E
GB-1 (Gray)	37/64 (14.6)	11/64 (4.3)	1/8 (3.1)	1/4 (6.3)	21/64 (8.3)
GB-2 (Blue)	45/64 (17.8)	11/64 (4.3)	3/16 (4.7)	5/16 (7.9)	25/64 (9.9)
GB-3 (Orange)	27/32 (21.4)	21/64 (8.3)	13/64 (5.1)	11/32 (8.7)	7/16 (11.1)
GB-4 (Yellow)	15/16 (23.8)	17/64 (6.7)	15/64 (5.9)	7/16 (11.1)	35/64 (13.8)
GB-6 (Red)	1 1/16 (26.9)	17/64 (6.7)	21/64 (8.3)	17/32 (13.4)	21/32 (16.6)



Part #	Color	Pack Qty.	Wire Range	Min	Max
19-001	Gray	14/Clam	#22 - #16 AWG	1 #20 + 1 #22	2 #16
25-001	Gray	25/Bag	#22 - #16 AWG	1 #20 + 1 #22	2 #16
10-001	Gray	100/Box	#22 - #16 AWG	1 #20 + 1 #22	2 #16
14-001	Gray	1000/Bag	#22 - #16 AWG	1 #20 + 1 #22	2 #16
12-001	Gray	25000/Box	#22 - #16 AWG	1 #20 + 1 #22	2 #16
19-002	Blue	14/Clam	#22 - #14 AWG	3 #22	3 #16
25-002	Blue	25/Bag	#22 - #14 AWG	3 #22	3 #16
10-002	Blue	100/Box	#22 - #14 AWG	3 #22	3 #16
16-002	Blue	150/Jar	#22 - #14 AWG	3 #22	3 #16
14-002	Blue	1000/Bag	#22 - #14 AWG	3 #22	3 #16
12-002	Blue	10000/Box	#22 - #14 AWG	3 #22	3 #16
12-002BU	Blue	96000/Barrel	#22 - #14 AWG	3 #22	3 #16
19-003	Orange	12/Clam	#22 - #14 AWG	3 #20	2 #14 + 3 #20
25-003	Orange	25/Bag	#22 - #14 AWG	3 #20	2 #14 + 3 #20
17-003	Orange	50/Bag	#22 - #14 AWG	3 #20	2 #14 + 3 #20
16-003	Orange	100/Jar	#22 - #14 AWG	3 #20	2 #14 + 3 #20
10-003	Orange	100/Box	#22 - #14 AWG	3 #20	2 #14 + 3 #20
16-003M	Orange	300/Jar	#22 - #14 AWG	3 #20	2 #14 + 3 #20
13-003	Orange	500/Bag	#22 - #14 AWG	3 #20	2 #14 + 3 #20
12-003BU	Orange	53000/Barrel	#22 - #14 AWG	3 #20	2 #14 + 3 #20
19-004	Yellow	9/Clam	#22 - #10 AWG	1 #20 + 2 #22	3 #12
25-004	Yellow	25/Bag	#22 - #10 AWG	1 #20 + 2 #22	3 #12
17-004	Yellow	50/Bag	#22 - #10 AWG	1 #20 + 2 #22	3 #12
10-004	Yellow	100/Box	#22 - #10 AWG	1 #20 + 2 #22	3 #12
16-004	Yellow	200/Jar	#22 - #10 AWG	1 #20 + 2 #22	3 #12
13-004	Yellow	500/Bag	#22 - #10 AWG	1 #20 + 2 #22	3 #12
12-004BU	Yellow	32400/Barrel	#22 - #10 AWG	1 #20 + 2 #22	3 #12
19-006	Red	6/Clam	#18 - #8 AWG	2 #14	3 #10
25-006	Red	25/Bag	#18 - #8 AWG	2 #14	3 #10
17-006	Red	50/Bag	#18 - #8 AWG	2 #14	3 #10
10-006	Red	100/Box	#18 - #8 AWG	2 #14	3 #10
16-006	Red	125/Jar	#18 - #8 AWG	2 #14	3 #10
13-006	Red	250/Bag	#18 - #8 AWG	2 #14	3 #10
12-006BU	Red	21000/Barrel	#18 - #8 AWG	2 #14	3 #10

Assortments

Part #	Description	Pack Qty.	Wire Range
19-AWC	Assorted WireGard, 2 Gray, 2 Orange, 3 Yellow, 2 Red	9/Clam	22-8 AWG
25-AWC	Assorted WireGard, 3 Gray, 4 Blue, 6 Orange, 6 Yellow, 6 Red	25/Bag	22-8 AWG
CK-570	Wire Connector Kit with Assorted Connectors	570/Case	22-6 AWG
TK-32	Slide card kit with 32 Assorted Wire Connectors	32/Card	22-10 AWG



Connectors



Cu to Cu Only



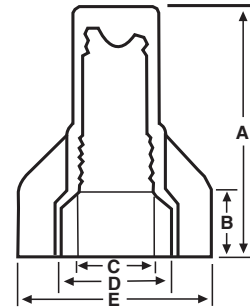
WINGGARD COLOR-CODED TWIST-ON CONNECTORS

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

- Wings are knurled for a sure 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.

Dimensions - in (mm)

	A	B	C	D	E
84 (Yellow)	1 1/32 (26.1)	5/16 (7.9)	7/32 (5.5)	1 1/4 (31.7)	23/32 (18.2)
86 (Red)	1 1/4 (31.7)	5/16 (7.9)	9/32 (7.1)	7/16 (11.1)	29/32 (23.0)
89 (Blue)	1 1/2 (38.1)	7/16 (11.1)	3/4 (19.0)	3/4 (19.0)	1 1/4 (31.7)



Part #	Color	Pack Qty.	Wire Range	Min	Max
19-084	Yellow	6/Clam	#22 - # 10 AWG	2#22	3 #12
25-084	Yellow	25/Bag	#22 - # 10 AWG	2#22	3 #12
17-084	Yellow	50/Bag	#22 - # 10 AWG	2#22	3 #12
16-084	Yellow	100/Jar	#22 - # 10 AWG	2#22	3 #12
10-084	Yellow	100/Box	#22 - # 10 AWG	2#22	3 #12
16-084M	Yellow	225/Jar	#22 - # 10 AWG	2#22	3 #12
13-084	Yellow	500/Bag	#22 - # 10 AWG	2#22	3 #12
12-084BU	Yellow	42000/Barrel	#22 - # 10 AWG	2#22	3 #12
19-086	Red	6/Clam	#22 - #6 AWG	2 #20	4 #10
25-086	Red	25/Bag	#22 - #6 AWG	2 #20	4 #10
17-086	Red	50/Bag	#22 - #6 AWG	2 #20	4 #10
10-086	Red	100/Box	#22 - #6 AWG	2 #20	4 #10
16-086	Red	125/Jar	#22 - #6 AWG	2 #20	4 #10
16-086L	Red	325/Jar	#22 - #6 AWG	2 #20	4 #10
13-086	Red	500/Bag	#22 - #6 AWG	2 #20	4 #10
12-086BU	Red	22500/Barrel	#22 - #6 AWG	2 #20	4 #10
12-086BX	Red	26000/Box	#22 - #6 AWG	2 #20	4 #10
19-089	Blue	2/Clam	#14 - #6 AWG	3 #12	1 #6 + 2 #8
25-089	Blue	10/Bag	#14 - #6 AWG	3 #12	1 #6 + 2 #8
10-089	Blue	50/Box	#14 - #6 AWG	3 #12	1 #6 + 2 #8
13-089	Blue	1100/Bag	#14 - #6 AWG	3 #12	1 #6 + 2 #8
12-089BX	Blue	12000/Box	#14 - #6 AWG	3 #12	1 #6 + 2 #8

Assortments

Part #	Description	Pack Qty.	Wire Range
25-AWW	Assorted & WingGard, 8 Yellow, 8 Red, 7 Tan, 2 Blue	25/Bag	22-6 AWG
16-8486M	80/80 Jar, Red & Yellow Connectors	160/Jar	22-6 AWG

Connectors



H2

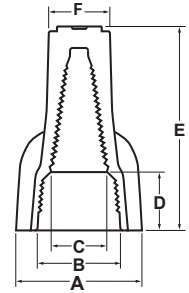
H1



HEX-LOK MULTI-RANGE WIRE CONNECTORS

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

- Streamlined design with long skirt for compact installations.
- Square-wire spring grabs and holds wires for secure connections.
- Rated at 600 V Max. in building wire and at 1000 V Max. in lighting fixtures/luminaries and signs.



Part #	Color	Pack Qty.	Wire Range	Min	Max
19-1H1	Tan	6/Clam	#22- #8 AWG	2 #22	3 #10
25-1H1	Tan	25/Bag	#22- #8 AWG	2 #22	3 #10
17-1H1	Tan	50/Bag	#22- #8 AWG	2 #22	3 #10
10-1H1	Tan	100/Box	#22- #8 AWG	2 #22	3 #10
16-1H1	Tan	175/Jar	#22- #8 AWG	2 #22	3 #10
16-1H1L	Tan	400/Jar	#22- #8 AWG	2 #22	3 #10
13-1H1	Tan	500/Bag	#22- #8 AWG	2 #22	3 #10
12-1H1BU	Tan	28000/Barrel	#22- #8 AWG	2 #22	3 #10
12-1H1BX	Tan	33000/Box	#22- #8 AWG	2 #22	3 #10
19-2H2	Gray	3/Clam	#18 - #6 AWG	1 #16 + 4 #18	1 #6 + 1 #8
25-2H2	Gray	15/Bag	#18 - #6 AWG	1 #16 + 4 #18	1 #6 + 1 #8
10-2H2	Gray	50/Box	#18 - #6 AWG	1 #16 + 4 #18	1 #6 + 1 #8
13-2H2	Gray	250/Bag	#18 - #6 AWG	1 #16 + 4 #18	1 #6 + 1 #8
12-2H2BU	Gray	16000/Barrel	#18 - #6 AWG	1 #16 + 4 #18	1 #6 + 1 #8

Dimensions - in (mm)

	A	B	C	D	E	F
H1 (Tan)	47/64 (18.6)	9/16 (14.2)	5/16 (7.9)	21/61 (8.7)	1 5/32 (29.3)	5/16 (7.9)
H2 (Gray)	1 (25.4)	15/32 (11.9)	25/64 (9.9)	13/32 (10.3)	1 21/64 (33.7)	7/16 (11.1)



G2

G1

Cu to Cu Only

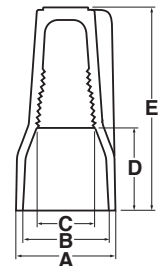


UNI-LOK UNIVERSAL WIRE CONNECTORS

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

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

Part #	Color	Pack Qty.	Wire Range	Min	Max
25-1G1	Yellow	25/Bag	#22 - #10 AWG	1 #20 + 2 #22	3 #12
10-1G1	Yellow	100/Box	#22 - #10 AWG	1 #20 + 2 #22	3 #12
13-1G1	Yellow	500/Bag	#22 - #10 AWG	1 #20 + 2 #22	3 #12
25-2G2	Red	25/Bag	#22 - #8 AWG	1 #18 + 2 #22	5 #12 + 1 #20
10-2G2	Red	100/Box	#22 - #8 AWG	1 #18 + 2 #22	5 #12 + 1 #20
13-2G2	Red	500/Bag	#22 - #8 AWG	1 #18 + 2 #22	5 #12 + 1 #20



Dimensions - in (mm)

	A	B	C	D	E
G1 (Yellow)	31/64 (12.3)	27/64 (10.7)	9/32 (7.1)	13/32 (10.3)	63/64 (25.0)
G2 (Red)	37/64 (14.6)	33/64 (13.0)	23/64 (9.1)	27/64 (10.7)	1 11/64 (29.7)



Connectors



95

Cu to Cu Only



GROUNDING CONNECTORS

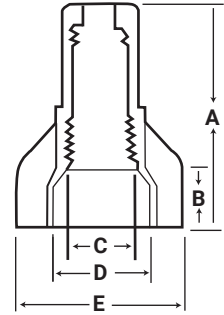
Specifically designed for making positive ground connections, GreenGuard connectors feature the same live-action as WingGuard connectors with the added plating protection for corrosion resistance in grounding applications.

- Easier to use – New design enables torque-up with improved grip, contoured, offset wings and firm ground connections.
- Connectors have a hole in the tip for ground wire.

Part #	Color	Pack Qty.	Wire Range	Min	Max
19-095	Green	6/Clam	#14 - #10 AWG	2 #14	4 #12
25-095	Green	25/Bag	#14 - #10 AWG	2 #14	4 #12
10-095	Green	100/Box	#14 - #10 AWG	2 #14	4 #12
13-095	Green	500/Bag	#14 - #10 AWG	2 #14	4 #12
12-095BX	Green	26000/Box	#14 - #10 AWG	2 #14	4 #12

Dimensions - in (mm)

	A	B	C	D	E
95 (Green)	1 1/4 (31.7)	5/16 (7.9)	9/32 (7.1)	7/16 (11.1)	29/32 (23.0)



GB-4 Black



GB-3 Black

Cu to Cu Only



HI-TEMP CONNECTORS

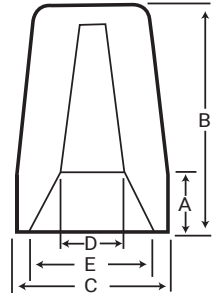
Connectors manufactured with high-temperature-rated plastic to withstand extreme temperatures.

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

Part #	Color	Pack Qty.	Wire Range	Min	Max
19-003HT	Black	10/Clam	#20 - #14 AWG	3 #20	2 #14 + 3 #20
10-003HT	Black	100/Box	#20 - #14 AWG	3 #20	2 #14 + 3 #20
27-003	Black	10000/Box	#20 - #14 AWG	3 #20	2 #14 + 3 #20
19-004HT	Black	10/Clam	#18 - #10 AWG	1 #14 + 1 #18	4 #14 + 1 #18
10-004HT	Black	100/Box	#18 - #10 AWG	1 #14 + 1 #18	4 #14 + 1 #18
27-004	Black	10000/Box	#18 - #10 AWG	1 #14 + 1 #18	4 #14 + 1 #18

Dimensions - in (mm)

	A	B	C	D	E
GB-3 Black	11/32 (8.7)	27/32 (21.4)	7/16 (11.1)	3/16 (4.7)	11/32 (8.7)
GB-4 Black	9/32 (7.1)	15/16 (23.8)	17/32 (13.4)	7/32 (5.5)	7/16 (11.1)



20-089 & 20-090

Cu to Cu Only



SPECIALTY CONNECTORS

CLOSED END CONNECTORS

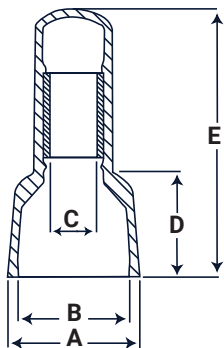
Crimp connector designed for use with solid or stranded wire.

- Vibration, Corrosion, and Chemical resistant.
- Tin-plated seamless copper.

Part #	Color	Pack Qty.	Wire Range	Min	Max
20-089	White	10/Clam	#22 - #14 AWG	2 #22	1 #14 + 1 #18
20-090	White	10/Clam	#22 - #10 AWG	3 #18	1 #10 + 1 #20
15-090	White	15/Clam	#22 - #10 AWG	3 #18	1 #10 + 1 #20

Dimensions - in (mm)

	A	B	C	D	E
20-089	11/32 (8.7)	1/4 (6.3)	5/32 (3.9)	15/64 (5.9)	9/16
20-090	31/64 (12.3)	13/32 (10.3)	11/64 (4.3)	25/64 (9.9)	63/64



Connectors



Cu to Cu Only



CRIMP CONNECTORS

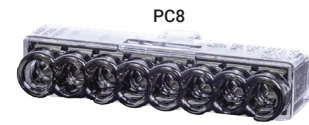
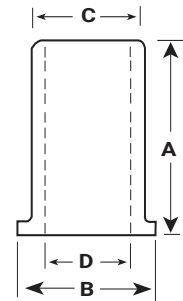
Use nVent GARDNER BENDER crimp connectors for strong, vibration-resistant permanent connections in branch circuit and fixture wiring.

- Two styles and sizes available.
- Copper or zinc-plated steel.

Dimensions - in (mm)

	A	B	C	D
310/311 (Copper)	3/8 (9.5)	19/64 (7.5)	1/4 (6.3)	13/64 (5.1)
410/411 (Steel)	5/8 (15.8)	23/64 (9.1)	21/64 (8.3)	17/64 (6.7)

Part #	Type	Pack Qty.	Wire Range	Min	Max
10-310C	Copper	100/Clam	#18 - #10 AWG	2 #16	2 #10 + 1 #12
10-311C	Copper	50/Clam	#14 - #8 AWG	3 #12	4 #10
20-410	Zinc-Plated Steel	12/Clam	#18 - #10 AWG	2 #16	2 #10 + 1 #12
10-410	Zinc-Plated Steel	100/Box	#18 - #10 AWG	2 #16	2 #10 + 1 #12
10-410C	Zinc-Plated Steel	100/Clam	#18 - #10 AWG	2 #16	2 #10 + 1 #12
13-410	Zinc-Plated Steel	500/Bag	#18 - #10 AWG	2 #16	2 #10 + 1 #12
27-410	Zinc-Plated Steel	10000/Box	#18 - #10 AWG	2 #16	2 #10 + 1 #12
20-411	Zinc-Plated Steel	8/Clam	#14 - #8 AWG	3 #12	4 #10
10-411	Zinc-Plated Steel	50/Box	#14 - #8 AWG	3 #12	4 #10



PC8



PC4



PC3

PC2

Cu to Cu Only

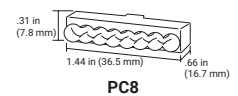
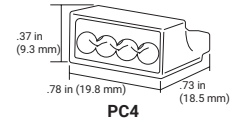
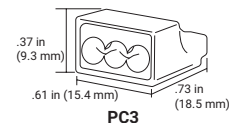
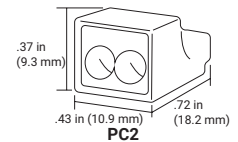


PUSH-IN CONNECTORS

Easy and fast to use, just strip and push conductors into PushGard connectors to make reliable, secure connections.

- Clear polycarbonate housings have color-coded side panels for connection verification and identification.
- With corrosion-resistant stainless steel springs, PushGard connectors restrict wire pullout, yet corrections are possible with a simple left-right twist and pull.
- Continuity test point for easy voltage checks.
- Rated at 600 V Max. in building wire and at 1000 V Max. in lighting fixtures/luminaries.

Part #	Color	Pack Qty.	Wire Range	# of Ports
19-PC2	Red	10/Clam	#22 - #12 AWG Solid	2
10-PC2	Red	100/Jar	#22 - #12 AWG Solid	2
19-PC3	Orange	10/Clam	#22 - #12 AWG Solid	3
10-PC3	Orange	100/Jar	#22 - #12 AWG Solid	3
19-PC4	Yellow	10/Clam	#22 - #12 AWG Solid	4
10-PC4	Yellow	100/Jar	#22 - #12 AWG Solid	4
19-PC8	Black	10/Clam	#22 - #12 AWG Solid	8
10-PC8	Black	50/Jar	#22 - #12 AWG Solid	8



19-PCL2



19-PCL3



19-PCL5

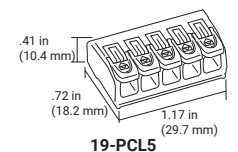
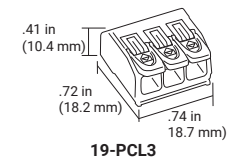
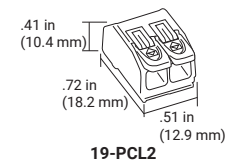


NEW LEVER CONNECTORS

Introducing our new LeverGard wire connectors. LeverGard connectors have the ability to secure both stranded and solid wire. The versatility that LeverGard connectors offer give the ability to secure 24-12 AWG solid/stranded wire within a number of different ports.

- Strong protruding levers w/ anti-slip design and for easy use.
- Clear body design to show wire is secure and connected.
- Allows for multiple wire size combination to fit in one connector.
- 24-12 AWG Solid/Stranded wire.
- 600V max rated w/ 105° C (221° F) max temp rating

Part #	Color	Pack Qty.	Wire Range	# of Ports
19-PCL2	Clear/Green	10/Bag	#24 - #12 AWG Solid/Str.	2
19-PCL3	Clear/Green	10/Bag	#24 - #12 AWG Solid/Str.	3
19-PCL5	Clear/Green	10/Bag	#24 - #12 AWG Solid/Str.	5





Connectors



25-LD2



NEW BALLAST DISCONNECTS & IN-LINE SPLICES

nVent GARDNER BENDER Ballast Disconnects & In-line Splices help prevent the risk of electrocution when replacing lighting ballasts. Our push-in style disconnects help make replacing a ballast quick and easy.

- Push-in/stab technology allow for a safe and easy connection.
- 18-16 AWG Solid/Str. In-line splice.
- 18-12 AWG Solid/Str. Ballast Disconnect.
- 600V max rated w/ 105° C (221° F) max temp rating

Part #	Color	Pack Qty.	Wire Range	Style
10-SL	Gray	100/Bag	#18 - #16 AWG Solid/Str.	In-Line Splice, 1-wire
25-LD2	Orange	25/Bag	#18 - #12 AWG Solid/Str.	Ballast Disconnect, 2-wire

GROUNDING ACCESSORIES

GROUNDING ACCESSORIES

Convenient grounding accessories include 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.
- Grounding clamps listed for connection of ground wire.
- Fork terminals for 8-10 stud.



GGS-1032HC

GGP-1502



14-GRC



Part #	Pack Qty.	Description	Length (in / cm)	Ends
14-GRC	1/Card	Grounding Clamp for 1/2 in - 1 in (12.7 mm - 25.4 mm) pipe	-	-
GGC-1508	8/Card	Grounding Clip for Aluminum or Copper; Grounding wire; Zinc-plated	-	-
GGP-1261	25/Bag	Grounding Pigtail; #12 AWG Solid	6 1/2 / 16.5	Captured Screw/Stripped
GGP-1461	25/Bag	Grounding Pigtail; #14 AWG Solid	6 1/2 / 16.5	Captured Screw/Stripped
GGP-1502	2/Card	Grounding Pigtail; #12 AWG Str	8 / 20.3	Captured Screw/Bare Fork Terminal
GGS-1512R	12/Card	Green Hex-Head Ground Screw 10-32 x 3/8 in (9.5 mm)	-	-
GGS-1032HC	100/Clam	Green Hex-Head Ground Screw 10-32 x 3/8 in (9.5 mm)	-	-

NEW BOX SOLUTIONS KIT

nVent GARDNER BENDER's Box solutions kit offers a perfect assortment of products that are required for both Pros and DIYers to properly complete tasks such as wiring device installations and electrical box installations. The Kit contains everything from grounding screw/clips to machine screws and twist-apart spacers making it essential for any type of electrical box installation.

- All in one kit that helps save time and money.
- Flat and Oval head screws.
- Electrical spacers.
- Wall plate screws.
- Grounding clips/screws.



BSK-100

Part #	Description	Pack Qty.
BSK-100	6-32 & 8-32 flat/oval head machine and wallplate screws, grounding screws, and electrical spacers.	124/Kit





GSBC-4



MECHANICAL CONNECTORS

COPPER SPLIT BOLTS

All-copper alloy construction for high mechanical strength, maximum conductivity and low resistance.

- Accept a wide range of solid and stranded conductors from 16 AWG – 3/0 AWG.
- Can be torqued with standard wrenches.

Part #	Color	Pack Qty.	Wire Range
GSBC-1/0	Copper	1/Clam	#4 - #1/0 AWG
GSBC-2/0	Copper	1/Clam	#2 - #2/0 AWG
GSBC-3/0	Copper	1/Clam	#2 - #3/0 AWG
GSBC-8	Copper	2/Clam	#16 - #10 AWG Stranded, #16 - #8 AWG Solid
GSBC-6	Copper	2/Clam	#10 AWG Stranded, #10 - #8 AWG Solid
GSBC-4	Copper	2/Clam	#8 - #4 AWG
GSBC-2	Copper	2/Clam	#6 - #2 AWG



AML-204

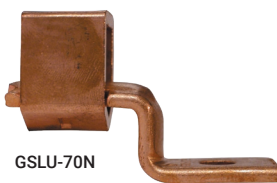


TIN PLATED COPPER LUGS

Heavy-duty lugs made from pure copper for maximum current flow.

- Tinned for corrosion resistance.
- Seamless barrel for maximum strength.
- Closed ends seal out moisture.

Part #	Color	Pack Qty.	Wire Range	Stud Size
AML-200	Copper	2/Clam	#6 AWG	1/4 in (6.3 mm)
AML-201	Copper	2/Clam	#6 AWG	5/16 in (7.9 mm)
AML-202	Copper	2/Clam	#6 AWG	3/8 in (9.5 mm)
AML-203	Copper	2/Clam	#4 AWG	5/16 in (7.9 mm)
AML-204	Copper	2/Clam	#4 AWG	3/8 in (9.5 mm)
AML-205	Copper	2/Clam	#2 AWG	5/16 in (7.9 mm)
AML-206	Copper	2/Clam	#2 AWG	3/8 in (9.5 mm)
AML-207	Copper	2/Clam	#1/0 AWG	3/8 in (9.5 mm)
AML-208	Copper	2/Clam	#2/0 AWG	3/8 in (9.5 mm)



GSLU-70N



COPPER MECHANICAL LUGS

Provide maximum mechanical strength and minimum resistance.

- All-copper alloy construction features a compact design that is reusable.
- Accept a wide range of solid and stranded conductors from 14 AWG – 0 AWG.

Part #	Color	Pack Qty.	Wire Range	Stud Size
GSLU-35N	Copper	2/Clam	#14 - #6 AWG Solid or Stranded	#10
GSLU-70N	Copper	2/Clam	#8 - #2 AWG Solid or Stranded	1/4 in (6.3 mm)
GSLU-125	Copper	2/Clam	#8 - #1/0 AWG Solid or Stranded	3/8 in (9.5 mm)



GAK-2*

Rated for Cu to Cu



COPPER ALLOY - TIN PLATED SPLIT BOLTS

Tin plated copper alloy construction for high mechanical strength, maximum conductivity and low resistance. Highly resistant to corrosion and season cracking.

- Accept a wide range of solid and stranded conductors from 10 AWG - 4/0 AWG.
- Use nVent GARDNER BENDER Ox-Gard anti-oxidant treatment on Al-Al and Al-Cu to prevent corrosion and permit cooler connections.

Part #	Type	Pack Qty.	Wire Range
GAK-2/0*	Copper Alloy - Tin Plated	1/Clam	#10 AWG Stranded, #10 - #2/0 AWG Solid
GAK-2*	Copper Alloy - Tin Plated	1/Clam	#8 - #2 AWG Solid
GAK-4N*	Copper Alloy - Tin Plated	1/Clam	#10 - #4 AWG Solid
GAK-1/0*	Copper Alloy - Tin Plated	1/Clam	#8 - #1/0 AWG Solid
GAK-4/0*	Copper Alloy - Tin Plated	1/Clam	#6 - #4/0 AWG Solid



Connectors



GSPA-2



ALUMINUM SPLICER REDUCERS

Designed to splice similar-gauge conductors or reduce the gauge from a larger wire diameter to a smaller one.

- Galvanic corrosion is limited by an internal wire stop, preventing direct contact of dissimilar metals inside.
- Use nVent GARDNER BENDER Ox-Gard anti-oxidant treatment on Al-Al and Al-Cu to prevent corrosion and permit cooler connections.

Part #	Color	Pack Qty.	Wire Range
GSPA-0N	Aluminum	1/Clam	#14 - #1/0 AWG Stranded
GSPA-2N	Aluminum	2/Clam	#14 - #2 AWG Stranded
GSPA-4/0	Aluminum	1/Clam	#6 - #4/0 AWG Stranded



GTA-2



ALUMINUM LUGS

- Feature high-strength, low-resistance aluminum construction.
- Accepts conductors from 14 AWG - 2/0 AWG.
- For 3/8 in (9.5 mm) stud.
- Use nVent GARDNER BENDER Ox-Gard anti-oxidant treatment on Al-Al and Al-Cu to prevent corrosion and permit cooler connections.

Part #	Color	Pack Qty.	Wire Range
GTA-2N	Aluminum	2/Clam	#14 - #2 AWG Stranded
GTA-2/0	Aluminum	2/Clam	#14 - #2/0 AWG Stranded

CORROSION INHIBITORS

OX-GARD ANTI OXIDANT COMPOUND

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

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



OX-100B

Part #	Pack Qty.	Description
OX-100B	1/Tube	1 oz (29.5 mL) Squeeze Tube
OX-400N	1/Tube	4 oz (118.2 mL) Squeeze Tube
OX-800	1/Tube	8 oz (236.5 mL) Squeeze Tube

DATACOM CONNECTORS & TOOL BITS



GMC-88M5

CAT-5E RJ-45 MODULAR PLUGS

- For use with network/twisted pair cable CAT-5e.
- 8-Position connectors.

Part #	Color	Pack Qty.	Type	# of Contacts
GMC-88M5	Clear	8/Bag	CAT-5e Modular Plug	8
GMC-88C5	Clear	50/Bag	CAT-5e Modular Plug	8



GMC-88M6

CAT-6 RJ-45 MODULAR PLUGS

- For use with network/twisted pair cable CAT-6.
- 8-Position connectors.

Part #	Color	Pack Qty.	Type	# of Contacts
GMC-88C6	Clear	8/Bag	CAT-6 Modular Plug	8
GMC-88M6	Clear	50/Bag	CAT-6 Modular Plug	8



GDC-6C

F-SERIES COMPRESSION CONNECTOR

- F-Type Coaxial Connector.
- For use with RG-6/Quad Coaxial Cable.
- Nickel plated to resist corrosion.

Part #	Color	Pack Qty.	Type
GDC-6CM	Silver	4/Bag	RG-6/Quad Compression Connector
GDC-6C	Silver	50/Bag	RG-6/Quad Compression Connector



GDC-FAM

F-SERIES COAX CONNECTOR

- Female Adapter.
- Used to combine two lengths of coaxial cable.
- Used to connect cables through walls.

Part #	Color	Pack Qty.	Type
GDC-FAM	Silver	2/Bag	RG-6 Coax Connector

WIRE CONNECTORS BITS

The nVent GARDNER BENDER Wire Connector Bit set is the faster and easier way to tighten wire connectors. Compatible with powered drills/drivers, 1/4" nut drivers, and many multi-bit screwdrivers. This economical 3 pack includes bits for standard and winged wire connectors from most manufacturers, in a broad range of sizes.

- Tighten connectors using powered drill/driver, nut driver, or multi-bit screwdriver.
- Fits connectors from most manufacturers.
- Fits standard and winged style connectors, in a broad range of sizes.
- Small tool for small to medium standard; medium tool for small winged, medium to large standard; large tool for large/winged.



WB1

Part #	Color	Pack Qty.	Sizes
WB1	Black	3	Small Tool(#3-49), Medium Tool(#4-57), Large Tool(#5-63)



TERMINALS & WIRE

Dependable and easy to use, nVent GARDNER BENDER terminals and wiring accessories offer the high quality and application flexibility that professionals demand. Available in a variety of packaging options, look to nVent GARDNER BENDER for secure wire connection options.

Terminals & Wire



Charging Clips

- Alligator Clips
- Heavy Duty Charging Clips
- Medium Duty Charging Clips

General Purpose Terminals

- Bullet Splices - Fully Insulated
- Butt Splices
- Disconnects - Fully Insulated
- Disconnects - Vinyl Insulated
- Ring Terminals - Vinyl Insulated
- Spade Terminals - Vinyl Insulated
- Tap Splices

Heat-Shrink Terminals

- Butt Splices
- Disconnect- Solder
- Ring Terminals
- Spade Terminals

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Primary Wire

- Tin Plated Copper Primary Wire

Terminal Blocks

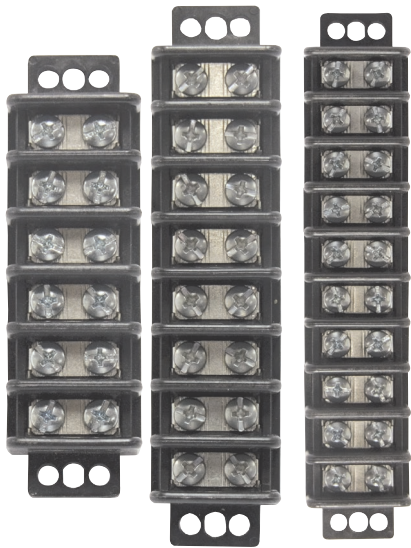
Terminals Kits and Assortments

- Tap Splice Kits
- Vinyl insulated terminal kits
- Vinyl Insulated Terminal Kits w/
Multi-Tool and
Wire Connectors
- Vinyl Insulated Terminal Kits w/
Wire Connectors

Underground Splice Kits

- Underground Butt Splice Kit (#8 - #2 AWG)
- Underground Butt Splice Kit (#14 - #8 AWG)
- Underground UF Splice Kit

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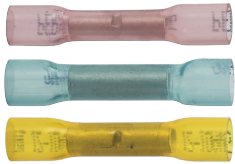


HEAT-SHRINK TERMINALS

Constructed with Heat Shrink insulation - adhesive lined to waterproof and environmentally seal electrical connections when crimped and heated.

- Insulates and protects connections from wire pullout, moisture intrusion and abrasion.
- Heat-activated adhesive melts and flows to create a seal.
- Resists salt water, oil, gasoline and other environmental contaminants.
- Rated at 600 Volt Max.
- Temperature rating: -67° to 221° F (-55° to 105° C).
- 2.5:1 shrink ratio.
- Heat to 275° F (135° C).

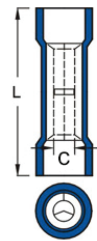
BUTT SPLICES



AMT-120, AMT-123 & AMT-126

Part #	Color	Pack Qty.	Length (L)		Barrel I.D. (C)		Wire Range
			Inches	MM	Inches	MM	
AMT-120	Red	3/Clam	1.33	33.71	0.07	1.7	#22 - #18 AWG
AMT-4120	Red	8/Clam	1.33	33.71	0.07	1.7	#22 - #18 AWG
AMT-121	Red	25/Clam	1.33	33.71	0.07	1.7	#22 - #18 AWG
AMT-123	Blue	3/Clam	1.33	33.71	0.09	2.3	#16 - #14 AWG
AMT-4123	Blue	7/Clam	1.33	33.71	0.09	2.3	#16 - #14 AWG
AMT-124	Blue	25/Clam	1.33	33.71	0.09	2.3	#16 - #14 AWG
AMT-126	Yellow	3/Clam	1.33	33.71	0.13	3.4	#12 - #10 AWG
AMT-5126	Yellow	4/Clam	1.33	33.71	0.13	3.4	#12 - #10 AWG
AMT-4126	Yellow	5/Clam	1.33	33.71	0.13	3.4	#12 - #10 AWG
AMT-127	Yellow	25/Clam	1.33	33.71	0.13	3.4	#12 - #10 AWG
AMT-5121*	Red	5/Clam	1.61	40.89	0.07	1.7	#22 - #18 AWG
XTM-240*	Red	6/Clam	1.61	40.89	0.07	1.7	#22 - #18 AWG
AMT-5123*	Blue	5/Clam	1.61	40.89	0.09	2.3	#16 - #14 AWG
XTM-245*	Blue	6/Clam	1.61	40.89	0.09	2.3	#16 - #14 AWG
XTM-250*	Yellow	4/Clam	1.61	40.89	0.13	3.4	#12 - #10 AWG
GBX-TK*	Red/Blue/Yellow	24/Clam	1.61	40.89	.07 - .13	1.7 - 3.4	#22 - #10 AWG

*Solder Ring Terminals

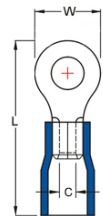


AMT-100, AMT-103 & AMT-108

RING TERMINALS

Part #	Color	Pack Qty.	Length (L)		Width (W)		Barrel I.D. (C)		Wire Range	Stud Size
			Inches	MM	Inches	MM	Inches	MM		
AMT-100	Red	3/Clam	1.37	34.80	0.4	10.16	0.067	1.7	#22 - #18 AWG	10
AMT-4100	Red	6/Clam	1.37	34.80	0.4	10.16	0.067	1.7	#22 - #18 AWG	10
AMT-103	Blue	3/Clam	1.37	34.80	0.4	10.16	0.091	2.3	#16 - #14 AWG	8
AMT-4103	Blue	6/Clam	1.37	34.80	0.4	10.16	0.091	2.3	#16 - #14 AWG	8
AMT-106	Yellow	3/Clam	1.37	34.80	0.4	10.16	0.131	3.4	#12 - #10 AWG	8
AMT-108	Yellow	3/Clam	1.88	47.75	0.56	14.22	0.131	3.4	#12 - #10 AWG	1/4 in (6.3 mm)
AMT-4106	Yellow	5/Clam	1.37	34.80	0.4	10.16	0.131	3.4	#12 - #10 AWG	10
AMT-5104*	Blue	4/Clam	1.67	42.42	0.4	10.16	0.091	2.3	#16 - #14 AWG	10
AMT-5106*	Yellow	3/Clam	1.67	42.42	0.4	10.16	0.131	3.4	#12 - #10 AWG	10

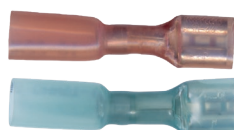
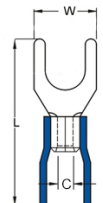
*Solder Ring Terminals



AMT-110, AMT-113 & AMT-116

SPADE TERMINALS

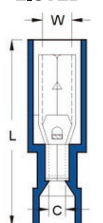
Part #	Color	Pack Qty.	Length (L)		Width (W)		Barrel I.D. (C)		Wire Range	Stud Size
			Inches	MM	Inches	MM	Inches	MM		
AMT-110	Red	3/Clam	1.38	35.05	0.36	9.14	0.067	1.7	#22 - #18 AWG	8 to 10
AMT-4110	Red	6/Clam	1.38	35.05	0.36	9.14	0.067	1.7	#22 - #18 AWG	8 to 10
AMT-113	Blue	3/Clam	1.38	35.05	0.36	9.14	0.091	2.3	#16 - #14 AWG	8 to 10
AMT-4113	Blue	6/Clam	1.38	35.05	0.36	9.14	0.091	2.3	#16 - #14 AWG	8 to 10
AMT-116	Yellow	3/Clam	1.39	35.05	0.4	10.16	0.131	3.4	#12 - #10 AWG	8 to 10
AMT-4116	Yellow	5/Clam	1.39	35.05	0.4	10.16	0.131	3.4	#12 - #10 AWG	8 to 10



XTM-220, XTM-225

DISCONNECT- SOLDER

Part #	Color	Pack Qty.	Length (L)		Width (W)		Barrel I.D. (C)		Wire Range	Tab Size	Type
			Inches	MM	Inches	MM	Inches	MM			
XTM-220	Red	3 Pairs/Clam	1.47 - 1.55	37.34 - 39.37	0.23	5.842	0.067	1.7	#22 - #18 AWG	.25 in (6.3 mm)	F/M Pairs
XTM-225	Blue	3 Pairs/Clam	1.47 - 1.55	37.34 - 39.37	0.26	6.604	0.091	2.3	#16 - #14 AWG	.25 in (6.3 mm)	F/M Pairs





GENERAL PURPOSE TERMINALS

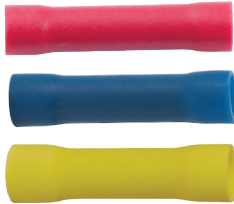
Quick and reliable crimp-type wire connections.

- Color-coded by wire gauge size.
- Available in a variety of packaging options and stud sizes.
- Includes Spade and Ring Terminals, Disconnects, and Bullet, Butt & Tap Splices.

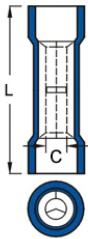


BUTT SPLICES

- Rated at 600 Volt Max.
- Temperature rating: 167° F (75° C).



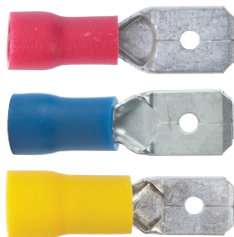
15-121, 20-123 & 10-126



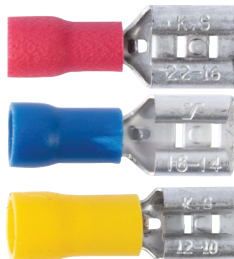
Part #	Color	Pack Qty.	Length (L)		Barrel I.D. (C)		Wire Range
			Inches	MM	Inches	MM	
15-121	Red	15/Clam	0.97	24.6	0.067	1.7	#22 - #16 AWG
20-121	Red	22/Clam	0.97	24.6	0.067	1.7	#22 - #16 AWG
75-121	Red	75/Clam	0.97	24.6	0.067	1.7	#22 - #16 AWG
10-121	Red	100/Clam	0.97	24.6	0.067	1.7	#22 - #16 AWG
15-123	Blue	15/Clam	0.97	24.6	0.098	2.5	#16 - #14 AWG
20-123	Blue	21/Clam	0.97	24.6	0.098	2.5	#16 - #14 AWG
75-123	Blue	75/Clam	0.97	24.6	0.098	2.5	#16 - #14 AWG
10-123	Blue	100/Clam	0.97	24.6	0.098	2.5	#16 - #14 AWG
15-126	Yellow	15/Clam	1.04	26.5	0.134	3.4	#12 - #10 AWG
20-126	Yellow	15/Clam	1.04	26.5	0.134	3.4	#12 - #10 AWG
10-126	Yellow	50/Clam	1.04	26.5	0.134	3.4	#12 - #10 AWG
75-126	Yellow	50/Clam	1.04	26.5	0.134	3.4	#12 - #10 AWG
15-120	Red/Blue/Yellow	15/Clam	.97 - 1.04	24.6 - 26.5	.067 - .134	1.7 - 3.4	#22 - #10 AWG

DISCONNECTS - VINYL INSULATED

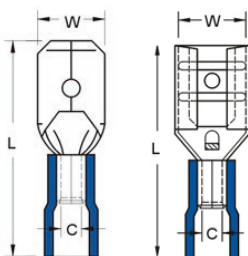
- Rated at 600 Volt Max.
- Temperature rating: 167° F (75° C).



20-141M, 20-143M & 20-145M



20-141F, 20-143F & 20-145F



Part #	Color	Pack Qty.	Length (L)		Width (W)		Barrel I.D. (C)		Wire Range	Tab Size (in / mm)	Type
			Inches	MM	Inches	MM	Inches	MM			
21-146F	Red	10/Clam	0.75	19.0	0.2	5.0	0.067	1.7	#22 - #16 AWG	.187 / 4.7	Female
21-146M	Red	10/Clam	0.75	19.0	0.2	5.0	0.067	1.7	#22 - #16 AWG	.187 / 4.7	Male
20-141M	Red	18/Clam	0.83	21.0	0.3	6.4	0.067	1.7	#22 - #16 AWG	.25 / 6.3	Male
20-141F	Red	21/Clam	0.81	20.5	0.3	6.6	0.067	1.7	#22 - #16 AWG	.25 / 6.3	Female
10-141F	Red	100/Clam	0.81	20.5	0.3	6.6	0.067	1.7	#22 - #16 AWG	.25 / 6.3	Female
10-141M	Red	100/Clam	0.83	21.0	0.3	6.4	0.067	1.7	#22 - #16 AWG	.25 / 6.3	Male
15-182	Red	15/Clam	.73 - .81	18.6 - 20.5	.13 - .26	3.2 - 6.6	0.067	1.7	#22 - #16 AWG	.11 to .25 / 2.7 to 6.3	Female
21-143F	Blue	10/Clam	0.81	20.5	0.3	6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Female
15-143M	Blue	14/Clam	0.83	21.0	0.3	6.4	0.091	2.3	#16 - #14 AWG	.25 / 6.3"	Male
15-143F	Blue	15/Clam	0.81	20.5	0.3	6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Female
20-143M	Blue	18/Clam	0.83	21.0	0.3	6.4	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Male
20-143F	Blue	20/Clam	0.81	20.5	0.3	6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Female
10-143F	Blue	100/Clam	0.81	20.5	0.3	6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Female
15-184	Blue	15/Clam	.73 - .81	18.6 - 20.5	.126 - .26	3.2 - 6.6	0.091	2.3	#16 - #14 AWG	.11 to .25 / 2.7 to 6.3	Female
21-145F	Yellow	8/Clam	0.93	23.5	0.3	6.6	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Female
15-145F	Yellow	15/Clam	0.93	23.5	0.3	6.6	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Female
20-145F	Yellow	16/Clam	0.93	23.5	0.3	6.6	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Female
20-145M	Yellow	16/Clam	0.95	24.0	0.3	6.4	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Male
10-145F	Yellow	100/Clam	0.93	23.5	0.3	6.6	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Female
10-145M	Yellow	100/Clam	0.95	24.0	0.3	6.4	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Male



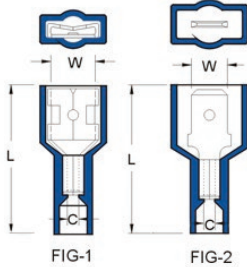
Terminals & Wire



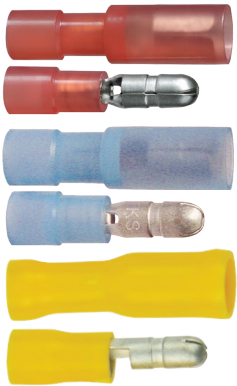
DISCONNECTS - FULLY INSULATED

- Rated at 600 Volt Max.
- Temperature rating: 167° F (75° C).

20-141M, 20-143M & AMT-145M



Part #	Color	Pack Qty.	Length (L)		Width (W)		Barrel I.D. (C)		Wire Range	Tab Size (in / mm)	Type
			Inches	MM	Inches	MM	Inches	MM			
15-152P	Red/Blue	6 Pairs/Clam	0.87 - .95	22 - 24	.25 - .26	6.4 - 6.6	.067 - .091	1.7 - 2.3	#22 - #14 AWG	.25 / 6.3	F/M Pairs
20-151P	Red	10 Pairs/Clam	0.87 - .95	22 - 24	.25 - .26	6.4 - 6.6	0.067	1.7	#22 - #16 AWG	.25 / 6.3	F/M Pairs
15-151F	Red	15/Clam	0.87	22	0.26	6.6	0.067	1.7	#22 - #16 AWG	.25 / 6.3	Female
15-151M	Red	15/Clam	0.95	24	0.25	6.4	0.067	1.7	#22 - #16 AWG	.25 / 6.3	Male
10-151F	Red	100/Clam	0.87	22	0.26	6.6	0.067	1.7	#22 - #16 AWG	.25 / 6.3	Female
15-153F	Blue	15/Clam	0.87	22	0.26	6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Female
15-153M	Blue	15/Clam	0.95	24	0.25	6.4	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Male
20-153F	Blue	20/Clam	0.87	22	0.26	6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Female
20-153P	Blue	10 Pairs/Clam	0.87 - .95	22 - 24	.25 - .26	6.35 - 6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	F/M Pairs
10-153P	Blue	50 Pairs/Clam	0.87 - .95	22 - 24	.25 - .26	6.35 - 6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	F/M Pairs
10-153M	Blue	80/Clam	0.95	24	0.25	6.4	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Male
10-153F	Blue	100/Clam	0.87	22	0.26	6.6	0.091	2.3	#16 - #14 AWG	.25 / 6.3	Female
21-155F	Yellow	4/Clam	0.95	24	0.26	6.6	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Female
21-155M	Yellow	4/Clam	0.98	25	0.25	6.4	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Male
15-155F	Yellow	10/Clam	0.95	24	0.26	6.6	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Female
15-155M	Yellow	10/Clam	0.98	25	0.25	6.4	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Male
10-155F	Yellow	50/Clam	0.95	24	0.26	6.6	0.134	3.4	#12 - #10 AWG	.25 / 6.3	Female



BULLET SPLICES - FULLY INSULATED

- Rated at 600 Volt Max.
- Temperature rating: 167° F (75° C).

20-161P, 20-1636 & 15-162P



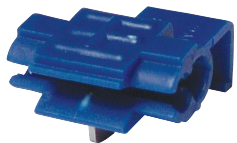
Part #	Color	Pack Qty.	Length (L)		Width (W)		Barrel I.D. (C)		Wire Range	Tab Size (in / mm)	Type
			Inches	MM	Inches	MM	Inches	MM			
20-161P	Red	5 Pairs/Clam	.87 - .99	22 - 25.2	.15 - .16	3.9 - 4	0.067	1.7	#22 - #16AWG	.156 / 3.9	F/M Pairs
21-161F	Red	6/Clam	0.99	25.2	0.15	3.9	0.067	1.7	#22 - #16AWG	.156 / 3.9	Female
21-161M	Red	6/Clam	0.87	22	0.16	4	0.067	1.7	#22 - #16AWG	.156 / 3.9	Male
15-163P	Blue	5 Pairs/Clam	.87 - .99	22 - 25.2	.15 - .16	3.9 - 4	0.091	2.3	#16 - #14 AWG	.156 / 3.9	F/M Pairs
20-163F	Blue	20/Clam	0.99	25.2	0.15	3.9	0.091	2.3	#16 - #14 AWG	.156 / 3.9	Female
20-163M	Blue	20/Clam	0.87	22	0.16	4	0.091	2.3	#16 - #14 AWG	.156 / 3.9	Male
10-163P	Blue	50 Pairs/Clam	.87 - .99	22 - 25.2	.15 - .16	3.9 - 4	0.091	2.3	#16 - #14 AWG	.156 / 3.9	F/M Pairs
20-163P	Blue	10 Pairs/Clam	.87 - .99	22 - 25.2	.15 - .16	3.9 - 4	0.091	2.3	#16 - #14 AWG	.156 / 3.9	F/M Pairs
15-162P	Yellow	5 Pairs/Clam	.93 - 0.95	23.5 - 24	0.19 - .2	4.9 - 5	0.134	3.4	#12 - #10 AWG	.156 / 3.9	F/M Pairs



20-2218

TAP SPLICES

- Secure connections without stripping wire.
- Rated at 600 Volt Max.
- Temperature rating: 221° F (105° C).

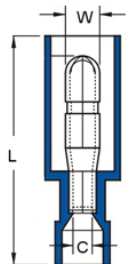


20-100



20-1210

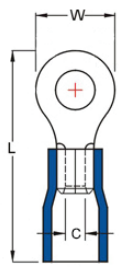
Part #	Color	Pack Qty.	Wire Range
20-2218	Red	5/clam	#22 - #18 AWG
20-100	Blue	5/Clam	#16 - #14 AWG
21-100	Blue	5/Clam	#16 - #14 AWG
10-100	Blue	25/Clam	#16 - #14 AWG
20-1210	Yellow	3/Clam	#12 - #10 AWG



Terminals & Wire



20-102, 20-106 & 20-104



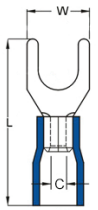
RING TERMINALS - VINYL INSULATED

- Rated at 600 Volt Max.
- Temperature rating: 167° F (75° C).

Part #	Color	Pack Qty.	Length (L)		Width (W)		Barrel I.D. (C)		Wire Range	Stud Size
			Inches	MM	Inches	MM	Inches	MM		
15-2214	Red/Blue	14/Clam	.69 - 7	17.5 - 17.8	.15 - .26	3.7 - 6.6	.067 - .091	1.7 - 2.3	#22 - #14 AWG	4 to 6
15-101	Red	10/Clam	0.69	17.5	0.15	3.7	0.067	1.7	#22 - #16 AWG	4 to 6
21-101	Red	10/Clam	0.69	17.5	0.15	3.7	0.067	1.7	#22 - #16 AWG	4 to 6
15-102	Red	10/Clam	0.82	20.8	0.21	5.3	0.067	1.7	#22 - #16 AWG	8 to 10
20-101	Red	22/Clam	0.69	17.5	0.15	3.7	0.067	1.7	#22 - #16 AWG	4 to 6
20-102	Red	22/Clam	0.82	20.8	0.21	5.3	0.067	1.7	#22 - #16 AWG	8 to 10
10-102	Red	100/Clam	0.82	20.8	0.21	5.3	0.067	1.7	#22 - #16 AWG	8 to 10
21-1055	Blue	7/Clam	1.2	30.5	0.54	13.6	0.091	2.3	#16 - #14 AWG	5/16 in (7.9 mm) to 3/8 in (9.5 mm)
15-103	Blue	10/Clam	0.7	17.8	0.26	6.6	0.091	2.3	#16 - #14 AWG	4 to 6
15-104	Blue	15/Clam	0.86	21.8	0.37	5.3	0.091	2.3	#16 - #14 AWG	8 to 10
20-105	Blue	17/Clam	1.06	26.8	0.47	12	0.091	2.3	#16 - #14 AWG	12 to 1/4 in (6.3 mm)
20-103	Blue	22/Clam	0.7	17.8	0.26	6.6	0.091	2.3	#16 - #14 AWG	4 to 6
20-104	Blue	22/Clam	0.86	21.8	0.37	5.3	0.091	2.3	#16 - #14 AWG	8 to 10
75-104	Blue	75/Clam	0.86	21.8	0.37	5.3	0.091	2.3	#16 - #14 AWG	8 to 10
10-103	Blue	100/Clam	0.7	17.8	0.26	6.6	0.091	2.3	#16 - #14 AWG	4 to 6
10-104	Blue	100/Clam	0.86	21.8	0.37	9.5	0.091	2.3	#16 - #14 AWG	8 to 10
10-105	Blue	100/Clam	1.06	26.8	0.47	12	0.091	2.3	#16 - #14 AWG	12 to 1/4 in (6.3 mm)
21-109	Yellow	7/Clam	1.52	38.6	0.76	19.2	0.134	3.4	#12 - #10 AWG	7/16 in (11.1 mm) to 1/2 in (12.7 mm)
21-106	Yellow	8/Clam	1.02	26	0.37	9.5	0.134	3.4	#12 - #10 AWG	8 to 10
20-108	Yellow	13/Clam	1.34	34	0.59	15	0.134	3.4	#12 - #10 AWG	5/16 in (7.9 mm) to 3/8 in (9.5 mm)
20-106	Yellow	14/Clam	1.02	26	0.37	9.5	0.134	3.4	#12 - #10 AWG	8 to 10
20-107	Yellow	14/Clam	1.16	29.5	0.47	12	0.134	3.4	#12 - #10 AWG	12 to 1/4 in (6.3 mm)
15-106	Yellow	15/Clam	1.02	26	0.37	9.5	0.134	3.4	#12 - #10 AWG	8 to 10
15-107	Yellow	15/Clam	1.16	29.5	0.47	12	0.134	3.4	#12 - #10 AWG	12 to 1/4 in (6.3 mm)
15-108	Yellow	15/Clam	1.34	34	0.59	15	0.134	3.4	#12 - #10 AWG	5/16 in (7.9 mm) to 3/8 in (9.5 mm)
10-106	Yellow	50/Clam	1.02	26	0.37	9.5	0.134	3.4	#12 - #10 AWG	8 to 10
75-106	Yellow	50/Clam	1.02	26	0.37	9.5	0.134	3.4	#12 - #10 AWG	8 to 10
10-107	Yellow	50/Clam	1.16	29.5	0.47	12	0.134	3.4	#12 - #10 AWG	12 to 1/4 in (6.3 mm)
10-108	Yellow	50/Clam	1.34	34	0.59	15	0.134	3.4	#12 - #10 AWG	5/16 in (7.9 mm) to 3/8 in (9.5 mm)
15-095	Red	5/Card	1.14	29	0.32	8	0.177	4.5	#8 AWG	1/4 in (6.3 mm)
14-095	Blue	4/Card	1.61	40.8	0.472	12	0.228	5.8	#6 AWG	1/4 in (6.3 mm)
14-096	Blue	4/Card	1.71	43.5	0.63	16	0.228	5.8	#6 AWG	3/8 in (9.5 mm)
15-096	Blue	4/Clam	1.71	43.5	0.63	16	0.228	5.8	#6 AWG	3/8 in (9.5 mm)
14-097	Blue	4/Card	2.05	52	0.87	22	0.228	5.8	#6 AWG	1/2 in (12.7 mm)
14-098	Yellow	4/Card	1.79	45.5	0.65	16.5	0.512	13	#4 AWG	3/8 in (9.5 mm)
15-098	Yellow	4/Clam	1.79	45.5	0.65	16.5	0.512	13	#4 AWG	3/8 in (9.5 mm)
14-099	Yellow	4/Card	2.15	54.5	0.87	22	0.303	7.7	#4 AWG	1/2 in (12.7 mm)



20-114, 20-116 & 15-111



SPADE TERMINALS - VINYL INSULATED

- Vinyl-Insulated Barrel.
- Rated at 600 Volt Max.
- Temperature rating: 167° F (75° C).



Part #	Color	Pack Qty.	Length (L)		Width (W)		Barrel I.D. (C)		Wire Range	Stud Size
			Inches	MM	Inches	MM	Inches	MM		
15-2216	Red/Blue	14/Clam	0.83	21	0.37	9.5	.067 - .091	1.7 - 2.3	#22 - #14 AWG	8 to 10
15-111	Red	10/Clam	0.83	21	0.025	6.4	0.067	1.7	#22 - #16 AWG	4 to 6
15-112	Red	10/Clam	0.83	21	0.37	9.5	0.067	1.7	#22 - #16 AWG	8 to 10
20-111	Red	20/Clam	0.83	21	0.025	6.4	0.067	1.7	#22 - #16 AWG	4 to 6
20-112	Red	20/Clam	0.83	21	0.37	9.5	0.067	1.7	#22 - #16 AWG	8 to 10
75-111	Red	75/Clam	0.83	21	0.025	6.4	0.067	1.7	#22 - #16 AWG	4 to 6
10-112	Red	100/Clam	0.83	21	0.37	9.5	0.067	1.7	#22 - #16 AWG	8 to 10
15-113	Blue	10/Clam	0.83	21	0.24	6	0.091	2.3	#16 - #14 AWG	4 to 6
15-114	Blue	15/Clam	0.83	21	0.37	9.3	0.091	2.3	#16 - #14 AWG	8 to 10
20-113	Blue	20/Clam	0.83	21	0.24	6	0.091	2.3	#16 - #14 AWG	4 to 6
20-114	Blue	20/Clam	0.83	21	0.37	9.3	0.091	2.3	#16 - #14 AWG	8 to 10
75-113	Blue	75/Clam	0.83	21	0.24	6	0.091	2.3	#16 - #14 AWG	4 to 6
10-113	Blue	100/Clam	0.83	21	0.24	6	0.091	2.3	#16 - #14 AWG	4 to 6
10-114	Blue	100/Clam	0.83	21	0.37	9.3	0.091	2.3	#16 - #14 AWG	8 to 10
20-116	Yellow	14/Clam	1	25.5	0.35	9	1.31	3.4	#12 - #10 AWG	8 to 10
15-116	Yellow	15/Clam	1	25.5	0.35	9	1.31	3.4	#12 - #10 AWG	8 to 10
75-116	Yellow	50/Clam	1	25.5	0.35	9	1.31	3.4	#12 - #10 AWG	8 to 10
10-116	Yellow	50/Clam	1	25.5	0.35	9	1.31	3.4	#12 - #10 AWG	8 to 10



TERMINAL BLOCKS



TERMINAL BLOCKS

- Rated at 30 Amp/600 Volt Max.
- Temperature rating: -40° to 260° F (-40° to 130° C).
- Wire range 22-10 AWG.
- Accepts #8 stud size.

Part #	Color	Pack Qty.	Wire Range	# of Circuits
GTB-406	Black	1/Clam	#22 - #10 AWG	6
GTB-408	Black	1/Clam	#22 - #10 AWG	8
GTB-410	Black	1/Clam	#22 - #10 AWG	10

UNDERGROUND SPLICE KITS



UNDERGROUND BUTT SPLICE KIT (#14 - #8 AWG)



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

- .4 in (10.1 mm) ID heat shrink tube.
- 1/4 in (6.3 mm) Ø x 1-1/4 in (31.7 mm) brass butt splice.
- Rated at 600 Volt Max.

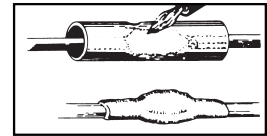
Part #	Color	Description	Pack Qty.	Wire Range
HST-WP	Black	8 in (20.3 cm) Heavy-Wall Polyolefin Heat-Shrink Tubing with Watertight Adhesive Liner & 4 Screw Splice Connectors	1	#14 - #8 AWG

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.
- Rated at 600 Volt Max.



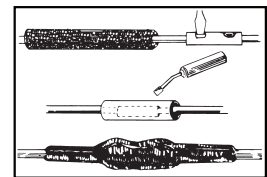
Part #	Color	Description	Pack Qty.	Wire Range
HST-1300	Black	4 in (10.1 cm) Heavy-Wall Polyolefin Heat-Shrink Tubing with Watertight Adhesive Liner & 1 Screw Splice Connectors	1	#14 - #8 AWG

UNDERGROUND BUTT SPLICE KIT (#8 - #2 AWG)



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

- 3/4 in (19 mm) ID heat shrink tube.
- 1/2 in (12.7 mm) Ø x 1-1/2 in (38.1 mm) brass butt splice.
- Eliminates messy epoxies, tapes or mastics.
- Rated at 600 Volt Max.



Part #	Color	Description	Pack Qty.	Wire Range
HSB-28	Black	4 in (10.1 cm) Heavy-Wall Polyolefin Heat-Shrink Tubing with Watertight Adhesive Liner & 1 Screw Splice Connectors	1	#8 - #2 AWG



CHARGING CLIPS

ALLIGATOR CLIPS

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

- Made from Nickel-plated steel.
- Available with PVC insulating sleeve or insulated barrel.



Part #	Color	Pack Qty.	Insulation Type	Length	Amperage	Wire Range	Material
14-075	Silver	10/Card	Non-insulated	1-1/4 in (3.1 cm)	5A	#22-#18 AWG	Nickel-plated Steel
14-076	Silver	4/Card	Non-insulated	2 in (5.0 cm)	10A	#22-#16 AWG	Nickel-plated Steel
14-077	Red/Black	2/Card	PVC insulated Barrel	2 in (5.0 cm)	10A	#22-#16 AWG	Nickel-plated Steel
14-078	Red/Black	2/Card	PVC insulated	2 in (5.0 cm)	10A	#22-#16 AWG	Nickel-plated Steel

MEDIUM DUTY CHARGING CLIPS

Designed for battery chargers and testing equipment applications.

- Nickel-plated steel.
- PVC insulated grips with color identification.



Part #	Color	Pack Qty.	Insulation Type	Length	Amperage	Wire Range	Material
14-610	Red/Black	2/Card	PVC insulated	2 in (5.0 cm)	10A	#16-#14 AWG	Nickel-plated Steel
14-630	Red/Black	2/Card	PVC insulated	3 in (7.6 cm)	30A	#18-#10 AWG	Nickel-plated Steel

HEAVY DUTY CHARGING CLIPS

Designed for battery chargers and testing equipment applications.

- Made from Nickel-plated steel.
- Available in multiple sizes.



Part #	Color	Pack Qty.	Insulation Type	Length	Amperage	Wire	Material
14-505	Silver	4/Card	Non-insulated	1-11/16 in (4.2 cm)	5A	22-18 AWG	Nickel-plated Steel
14-510	Silver	4/Card	Non-insulated	2 in (5.0 cm)	10A	16-14 AWG	Nickel-plated Steel
14-520	Silver	2/Card	Non-insulated	2-13/16 in (7.1 cm)	20A	16-12 AWG	Nickel-plated Steel
14-530	Silver	2/Card	Non-insulated	3 in (7.6 cm)	30A	18-10 AWG	Nickel-plated Steel
14-550	Silver	1/Card	Non-insulated	4-1/4 in (10.7 cm)	50A	8 AWG max	Nickel-plated Steel



Terminals & Wire



PRIMARY WIRE TIN PLATED COPPER PRIMARY WIRE

Tinned copper wire provides maximum protection against corrosion and electrolysis.

- Ultra-flexible (Type 3) stranding.
- Resists salt water, battery acid, oil, gasoline and UV radiation.
- Insulation is heat and abrasion-resistant.
- Packaged in small spools.
- Rated to 600 Volt Max.
- Temperature rating: 221° F (105° C).

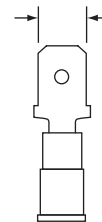


Part #	Color	Pack Qty.	Wire Gauge	Length
AMW-318	Black	1	#18 AWG	35 ft / 10.66 m
AMW-328	Red	1	#18 AWG	35 ft / 10.66 m
AMW-338	White	1	#18 AWG	35 ft / 10.66 m
AMW-316	Black	1	#16 AWG	25 ft / 7.62 m
AMW-326	Red	1	#16 AWG	25 ft / 7.62 m
AMW-336	White	1	#16 AWG	25 ft / 7.62 m
AMW-314	Black	1	#14 AWG	18 ft / 5.48 m
AMW-324	Red	1	#14 AWG	18 ft / 5.48 m
AMW-334	White	1	#14 AWG	18 ft / 5.48 m
AMW-312	Black	1	#12 AWG	12 ft / 3.65 m
AMW-322	Red	1	#12 AWG	12 ft / 3.65 m
AMW-332	White	1	#12 AWG	12 ft / 3.65 m

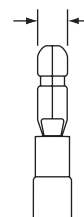
SIZE CHART

Stud Size	Diameter	US
#2	0.086 in (2.144 mm)	
#4	0.112 in (2.844 mm)	
#6	0.138 in (3.505 mm)	
#8	0.164 in (4.166 mm)	
#10	0.190 in (4.826 mm)	
1/4 in (6.3 mm)	0.250 in (6.350 mm)	
5/16 in (7.9 mm)	0.3125 in (7.938 mm)	
3/8 in (9.5 mm)	0.375 in (9.525 mm)	
7/16 in (11.1 mm)	0.4375 in (11.113 mm)	
1/2 in (12.7 mm)	0.500 in (12.700 mm)	
9/16 in (14.2 mm)	0.5625 in (14.287 mm)	

Disconnect Tab Size	US
0.110 in (2.7 mm)	
0.187 in (4.7 mm)	
0.250 in (6.3 mm)	



Stud Size	US
0.157 in (3.9 mm)	
0.197 in (5.0 mm)	





TERMINALS KITS AND ASSORTMENTS

VINYL INSULATED TERMINAL KITS

Vinyl insulated kits that contain various popular terminal connectors with a multitude of stud sizes and covering the wire ranges of 22-16, 16-14, and 12-10 AWG.

Part Number	Description	Qty
TK-806	Ring and Spade Terminals, Butt Splices, and Male/Female Disconnects	100
TK-175	Ring and Spade Terminals, Butt Splices, and Male/Female Disconnects	175
TK-40	Ring and Spade Terminals, Butt Splices, and Female Disconnects	40
TK-1210	Ring and Spade Terminals, Butt and Bullet Splices, and Male/Female Disconnects	28
TK-1614	Ring and Spade Terminals, Butt Splices, and Male/Female Disconnects	46
TK-1822	Ring and Spade Terminals, Butt and Bullet Splices, and Male/Female Disconnects	46
10-170	Ring and Spade Terminals, Butt Splices, and Male/Female Disconnects	100

*See Appendix B for full listing of product contained within each kit. Pg. 175

TK-806



TK-175



TK-40



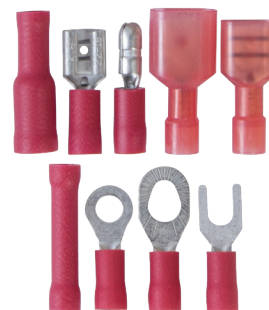
TK-1210



TK-1614



TK-1822



10-170





Terminals & Wire

VINYL INSULATED TERMINAL KITS W/ WIRE CONNECTORS

Vinyl insulated terminal kits that contain various popular terminal and wire connectors with a multitude of stud sizes and covering the wire ranges of 22-16, 16-14, and 12-10 AWG.

Part Number	Description	Qty
TK-100	Assorted Kit with Wire Connectors, Ring and Spade Terminals, Butt and Tap Splices, and Female Disconnects	80
TK-500	Assorted Kit with Wire Connectors, Ring and Spade Terminals, Butt and Tape Splices, and Male/Female Disconnects	247

*See Appendix B for full listing of product contained within each kit. Pg. 175

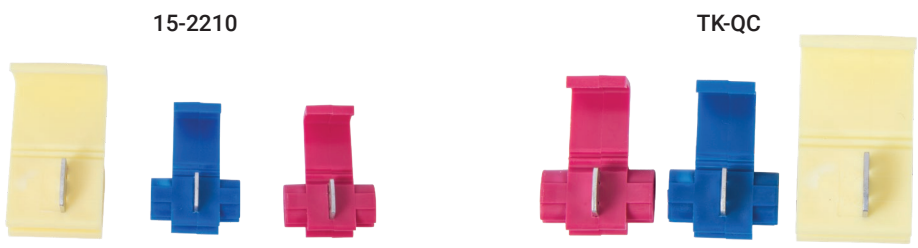


TAP SPLICE KITS

These kits contain various tap splices that range from 22-16, 16-14, and 12-10 AWG which help secure connections without stripping wire.

Part Number	Description	Qty
15-2210	Assorted Tap Splice Kit	10
TK-QC	Assorted Tap Splice Kit	18

*See Appendix B for full listing of product contained within each kit. Pg. 175



Terminals & Wire



VINYL INSULATED TERMINAL KITS W/ MULTI-TOOL AND WIRE CONNECTORS

Complete terminal kits that contain various popular terminal and wire connectors with a multitude of stud sizes and covering the wire ranges of 22-16, 16-14, and 12-10 AWG. These kits also include a multi-tool for stripping and crimping as well as cable ties for your bundling needs.

Part Number	Description	Qty
GS-67K	Stripper and Crimper Tool Kit with Ring and Spade Terminals, Butt Splices, and Female Disconnects	25
GK-15N	Ring and Spade Terminals, Butt and Bullet Splices, Closed End Connectors, and Male/Female Disconnects with Stripper/Crimper	100
GK-35	Ring and Spade Terminals, Butt and Tape Splices, Straight Connectors, Cable Ties, and Male/Female Disconnects with Crimping Tool	100
GK-50N	Wire Connectors, Ring and Spade Terminals, Butt and Tap Splices, Cable Ties and Clips, Hook & Loop Fasteners, Voltage Tester, Vinyl Tape, Slotted/Phillips Screwdrivers, and Stripper/Crimper tool	398

*See Appendix B for full listing of product contained within each kit. Pg. 175

GS-67K



GK-15N



GS-35



GK-50



CABLE TIES

nVent GARDNER BENDER offers a broad range of cable ties in a wide variety of materials, colors, styles and size options to meet your specific needs. A patented design and high quality construction make nVent GARDNER BENDER ties a great solution for bundling wire, cable, hoses, ducts and countless other applications.

Cable Ties

All Weather Cable Ties	34	ID / Label Cable Ties	38
Assorted Packs Cable Ties	34	Low-Profile Tie	39
Heavy Duty Cable Ties	33	Metal Pawl Cable Ties	36
Plenum Cable Ties	35	Mounting Cable Ties	36
Standard Cable Ties	32	Releasable Cable Ties	37
Accessories	39	Self Cutting Cable Ties	35
Mounting Bases & Push Mounts	39	Stainless Steel Cable Ties	38
Specialty Cable Ties	35	TOOLS	35
Beaded Cable Ties	37	Cable Tie Tensioning Tools	35
Dual-Head Tie	39		
Hook & Loop Cable Ties	38		





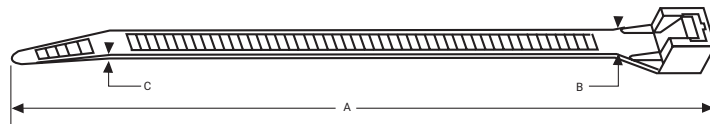
Cable Ties



STANDARD CABLE TIES

nVent GARDNER BENDER offers a broad range of cable ties, great for countless applications either around the home, on the job site or miscellaneous use.

- Made from durable nylon 6/6 material.
- Black Ties are UV Resistant.
- UL Type 21
- Min/Max operating temperatures -40° to 185° F (-40° to 85° C).
- Patented DoubleLock design has teeth on both sides of the tie, ensuring 50% greater strength than industry standards.



Part #	Length "A"	Tensile Strength	Pack Qty.	Double Lock®	Color	Width "B"	Thickness "C"	Bundle Diameter Max	UL Type
45-104UVB	4 in / 10.1 cm	18 lb / 8.1 kg	30/bag		Black	.10 in / 2.5 mm	.035 in / 0.8 mm	.86 in / 21.8 mm	21
45-104	4 in / 10.1 cm	18 lb / 8.1 kg	40/bag		Natural	.10 in / 2.5 mm	.035 in / 0.8 mm	.86 in / 21.8 mm	21
46-104	4 in / 10.1 cm	18 lb / 8.1 kg	100/bag		Natural	.10 in / 2.5 mm	.035 in / 0.8 mm	.86 in / 21.8 mm	21
46-104UVB	4 in / 10.1 cm	18 lb / 8.1 kg	100/bag		Black	.10 in / 2.5 mm	.035 in / 0.8 mm	.86 in / 21.8 mm	21
46-104MN	4 in / 10.1 cm	18 lb / 8.1 kg	1000/bag		Natural	.10 in / 2.5 mm	.035 in / 0.8 mm	.86 in / 21.8 mm	21
46-104UVBMN	4 in / 10.1 cm	18 lb / 8.1 kg	1000/bag		Black	.10 in / 2.5 mm	.035 in / 0.8 mm	.86 in / 21.8 mm	21
46-206	6 in / 15.2 cm	40 lb / 18.1 kg	100/bag		Natural	.13 in / 3.3 mm	.045 in / 1.1 mm	1.41 in / 35.8 mm	21
46-206M	6 in / 15.2 cm	40 lb / 18.1 kg	1000/bag		Natural	.13 in / 3.3 mm	.045 in / 1.1 mm	1.41 in / 35.8 mm	21
46-206UVB	6 in / 15.2 cm	40 lb / 18.1 kg	100/bag		Black	.13 in / 3.3 mm	.045 in / 1.1 mm	1.41 in / 35.8 mm	21
45-308G	8 in / 20.3 cm	75 lb / 34.0 kg	20/bag	✓	Green	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
45-308	8 in / 20.3 cm	75 lb / 34.0 kg	20/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
45-308UVB	8 in / 20.3 cm	75 lb / 34.0 kg	15/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
46-308	8 in / 20.3 cm	75 lb / 34.0 kg	100/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
46-308G	8 in / 20.3 cm	75 lb / 34.0 kg	100/bag	✓	Green	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
46-308MN	8 in / 20.3 cm	75 lb / 34.0 kg	1000/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
46-308UVB	8 in / 20.3 cm	75 lb / 34.0 kg	100/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
46-308UVBMN	8 in / 20.3 cm	75 lb / 34.0 kg	1000/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
46-507N	8 in / 20.3 cm	75 lb / 34.0 kg	500/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2.0 in / 50.8 mm	21
46-210	11 in / 27.9 cm	45 lb / 20.4 kg	100/bag	✓	Natural	.13 in / 3.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
46-210UVB	11 in / 27.9 cm	45 lb / 20.4 kg	100/bag	✓	Black	.13 in / 3.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
45-312	11 in / 27.9 cm	75 lb / 34.0 kg	12/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
45-312UVB	11 in / 27.9 cm	75 lb / 34.0 kg	8/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
46-310	11 in / 27.9 cm	75 lb / 34.0 kg	100/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
46-310M	11 in / 27.9 cm	75 lb / 34.0 kg	1000/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
46-310UVB	11 in / 27.9 cm	75 lb / 34.0 kg	100/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
46-310UVBM	11 in / 27.9 cm	75 lb / 34.0 kg	1000/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
46-311	11 in / 27.9 cm	75 lb / 34.0 kg	300/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	3.0 in / 76.2 mm	21
46-114	14 in / 35.5 cm	50 lb / 22.6 kg	100/bag		Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
46-114UVB	14 in / 35.5 cm	50 lb / 22.6 kg	100/bag		Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
46-514	14 in / 35.5 cm	50 lb / 22.6 kg	500/bag		Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
46-514UVB	14 in / 35.5 cm	50 lb / 22.6 kg	500/bag		Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
45-315	14 in / 35.5 cm	75 lb / 34.0 kg	8/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
45-315UVB	14 in / 35.5 cm	75 lb / 34.0 kg	8/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
46-315	14 in / 35.5 cm	75 lb / 34.0 kg	100/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
46-315M	14 in / 35.5 cm	75 lb / 34.0 kg	1000/bag	✓	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
46-315UVB	14 in / 35.5 cm	75 lb / 34.0 kg	100/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21
46-315UVBM	14 in / 35.5 cm	75 lb / 34.0 kg	1000/bag	✓	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4.0 in / 101.6 mm	21

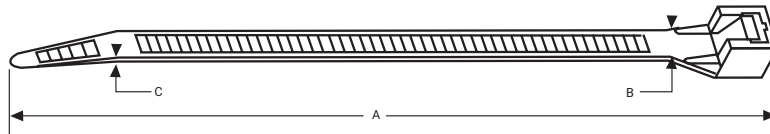
Cable Ties



HEAVY DUTY CABLE TIES

Heavy-duty design offers 120 and 180 lbs of tensile strength.

- Made from durable nylon 6/6 material.
- Black Ties are UV Resistant.
- Min/Max operating temperature -40° to 185°F (-40° to 85°C).
- UL Type 21 Rated.
- AH-2 Plenum Rated.



Part #	Length "A"	Tensile Strength	Pack Qty.	Color	Width "B"	Thickness "C"	Bundle Diameter Max	UL Type
46-408	8 in / 20.3 cm	120 lb / 54.4 kg	100/bag	Natural	.25 in / 6.3 mm	.07 in / 1.7 mm	2 in / 5 cm	21
46-408UVB	8 in / 20.3 cm	120 lb / 54.4 kg	100/bag	Black	.25 in / 6.3 mm	.07 in / 1.7 mm	2 in / 5 cm	21
46-412	12 in / 30.4 cm	120 lb / 54.4 kg	100/bag	Natural	.25 in / 6.3 mm	.07 in / 1.7 mm	3.2 in / 8.1 cm	21
46-412UVB	12 in / 30.4 cm	120 lb / 54.4 kg	100/bag	Black	.25 in / 6.3 mm	.07 in / 1.7 mm	3.2 in / 8.1 cm	21
45-515	15 in / 38.1 cm	120 lb / 54.4 kg	10/bag	Natural	.25 in / 6.3 mm	.07 in / 1.7 mm	4.2 in / 10.6 cm	21
45-515UVB	15 in / 38.1 cm	120 lb / 54.4 kg	10/bag	Black	.25 in / 6.3 mm	.07 in / 1.7 mm	4.2 in / 10.6 cm	21
46-415	15 in / 38.1 cm	120 lb / 54.4 kg	50/bag	Natural	.25 in / 6.3 mm	.07 in / 1.7 mm	4.2 in / 10.6 cm	21
46-415UVB	15 in / 38.1 cm	120 lb / 54.4 kg	50/bag	Black	.25 in / 6.3 mm	.07 in / 1.7 mm	4.2 in / 10.6 cm	21
45-518N	18 in / 45.7 cm	180 lb / 81.6 kg	10/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	5.1 in / 12.9 cm	21
45-518UVBN	18 in / 45.7 cm	180 lb / 81.6 kg	10/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	5.1 in / 12.9 cm	21
46-418	18 in / 45.7 cm	180 lb / 81.6 kg	50/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	5.1 in / 12.9 cm	21
46-418UVB	18 in / 45.7 cm	180 lb / 81.6 kg	50/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	5.1 in / 12.9 cm	21
45-521	21 in / 53.3 cm	180 lb / 81.6 kg	10/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	6.4 in / 16.2 cm	21
45-521UVB	21 in / 53.3 cm	180 lb / 81.6 kg	10/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	6.4 in / 16.2 cm	21
46-421	21 in / 53.3 cm	180 lb / 81.6 kg	50/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	6.4 in / 16.2 cm	21
46-421UVB	21 in / 53.3 cm	180 lb / 81.6 kg	50/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	6.4 in / 16.2 cm	21
45-524	24 in / 60.9 cm	180 lb / 81.6 kg	10/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	7.1 in / 18 cm	21
45-524SP	24 in / 60.9 cm	180 lb / 81.6 kg	10/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	7.1 in / 18 cm	21
45-524UVB	24 in / 60.9 cm	180 lb / 81.6 kg	10/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	7.1 in / 18 cm	21
45-524UVBSP	24 in / 60.9 cm	180 lb / 81.6 kg	10/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	7.1 in / 18 cm	21
46-424	24 in / 60.9 cm	180 lb / 81.6 kg	50/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	7.1 in / 18 cm	21
46-424UVB	24 in / 60.9 cm	180 lb / 81.6 kg	50/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	7.1 in / 18 cm	21
46-330	30 in / 76.2 cm	180 lb / 81.6 kg	25/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	9 in / 22.8 cm	21
46-330UVB	30 in / 76.2 cm	180 lb / 81.6 kg	25/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	9 in / 22.8 cm	21
45-536	36 in / 91.4 cm	180 lb / 81.6 kg	10/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	11 in / 27.9 cm	21
45-536SP	36 in / 91.4 cm	180 lb / 81.6 kg	10/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	11 in / 27.9 cm	21
45-536UVB	36 in / 91.4 cm	180 lb / 81.6 kg	10/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	11 in / 27.9 cm	21
45-536UVBSP	36 in / 91.4 cm	180 lb / 81.6 kg	10/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	11 in / 27.9 cm	21
46-436	36 in / 91.4 cm	180 lb / 81.6 kg	50/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	11 in / 27.9 cm	21
46-436UVB	36 in / 91.4 cm	180 lb / 81.6 kg	50/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	11 in / 27.9 cm	21
45-548	48 in / 121.9 cm	180 lb / 81.6 kg	10/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	14.8 in / 37.5 cm	21
45-548SP	48 in / 121.9 cm	180 lb / 81.6 kg	10/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	14.8 in / 37.5 cm	21
45-548UVB	48 in / 121.9 cm	180 lb / 81.6 kg	10/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	14.8 in / 37.5 cm	21
45-548UVBSP	48 in / 121.9 cm	180 lb / 81.6 kg	10/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	14.8 in / 37.5 cm	21
46-448	48 in / 121.9 cm	180 lb / 81.6 kg	50/bag	Natural	.35 in / 8.8 mm	.07 in / 1.7 mm	14.8 in / 37.5 cm	21
46-448UVB	48 in / 121.9 cm	180 lb / 81.6 kg	50/bag	Black	.35 in / 8.8 mm	.07 in / 1.7 mm	14.8 in / 37.5 cm	21

Cable Ties



ALL WEATHER CABLE TIES

All Weather Xtreme Ties save the day in harsh environment applications. Specifically designed to perform during intense UV, low humidity and cold weather conditions.

- Engineered from special modified Nylon 6/6 - ISO certified to maintain its properties in all weather conditions.
- Min/Max operating temperature -40° to 185° F (-40° to 85° C). Install temperature -4° F (-20° C)
- Black ties are UV Resistant.
- Meets UL 94 v-2 Flammability Classification.



Merchandising Displays Available

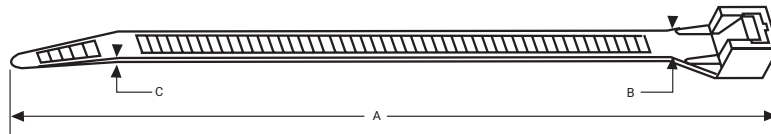


Part #	Length "A"	Tensile Strength	Pack Qty.	Color	Width "B"	Thickness "C"	Bundle Diameter Max	UL Type
45-308UVBFZ	8 in / 20.3 cm	50 lb / 22.6 kg	20/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm	21
46-308UVBFZ	8 in / 20.3 cm	50 lb / 22.6 kg	100/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm	21
45-311UVBFZ	11 in / 27.9 cm	50 lb / 22.6 kg	20/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	3 in / 7.6 cm	21
46-311UVBFZ	11 in / 27.9 cm	50 lb / 22.6 kg	100/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	3 in / 7.6 cm	21
45-314UVBFZ	14 in / 35.5 cm	50 lb / 22.6 kg	20/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4 in / 10.1 cm	21
46-314UVBFZ	14 in / 35.5 cm	50 lb / 22.6 kg	100/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4 in / 10.1 cm	21
300FZ	8 in / 20.3 cm, 11 in / 27.9 cm, 14 in / 35.5 cm	50 lb / 22.6 kg	300/canister	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm, 3 in / 7.6 cm, 4 in / 10.1 cm	21

ASSORTED PACKS CABLE TIES

Broad range of assorted cable ties, great for bundling and organizing wire, cable, cords, hoses and countless other applications.

- Black Ties are UV Resistant.
- Various lengths and tensile strengths to meet the requirements for most any job.
- Min/Max operating temperature -40° to 185°F (-40° to 85°C).



Part #	Length "A"	Tensile Strength	Pack Qty.	Color	Width "B"	Thickness "C"	Bundle Diameter Max	UL Type
10096	4 in / 10.1 cm, 8 in / 20.3 cm	18 lb / 8.1 kg, 45 lb / 20.4 kg	200/tube	Tan, Olive, Black	.10 in / 2.5 mm, .14 in / 3.5 mm	.035 in / 0.8 mm, .055 in / 1.3 mm	.81 in / 20.5 mm, 2 in / 50.8 mm	21
50398	4 in / 10.1 cm, 6 in / 15.2 cm, 8 in / 20.3 cm	18 lb / 8.1 kg, 45 lb / 20.4 kg	500/canister	Black, Natural, Green Red, Yellow	.10 in / 2.5 mm, .14 in / 3.5 mm	.035 in / 0.8 mm, .055 in / 1.3 mm	.81 in / 20.5 mm, 1.38 in / 35 mm, 2 in / 50.8 mm	21
50098N	4 in / 10.1 cm, 6 in / 15.2 cm, 11 in / 27.9 cm	18 lb / 8.1 kg, 45 lb / 20.4 kg	500/canister	Natural	.10 in / 2.5 mm, .14 in / 3.5 mm	.035 in / 0.8 mm, .055 in / 1.3 mm	.81 in / 20.5 mm, 1.38 in / 35 mm, 3 in / 76.2 mm	21
65001	4 in / 10.1 cm, 8 in / 20.3 cm, 11 in / 27.9 cm	18 lb / 8.1 kg, 45 lb / 20.4 kg	650/canister	Black, Natural, Green, Red, Yellow	.10 in / 2.5 mm, .17 in / 4.3 mm	.035 in / 0.8 mm, .055 in / 1.3 mm	.81 in / 20.5 mm, 2 in / 50.8 mm, 3 in / 76.2 mm	21
10095VDV	4 in / 10.1 cm, 8 in / 20.3 cm	18 lb / 8.1 kg, 75 lb / 34.0 kg	200/bag	Blue, Green, Yellow	.10 in / 2.5 mm, .18 in / 4.5 mm	.035 in / 0.8 mm, .055 in / 1.3 mm	.81 in / 20.5 mm, 2 in / 50.8 mm	21
10097UVL	4 in / 10.1 cm, 8 in / 20.3 cm	18 lb / 8.1 kg, 45 lb / 20.4 kg	200/tube	Black	.10 in / 2.5 mm, .14 in / 3.5 mm	.035 in / 0.8 mm, .055 in / 1.3 mm	.81 in / 20.5 mm, 2 in / 50.8 mm	21
10098NL	4 in / 10.1 cm, 8 in / 20.3 cm	18 lb / 8.1 kg, 45 lb / 20.4 kg	200/tube	Natural	.10 in / 2.5 mm, .14 in / 3.5 mm	.035 in / 0.8 mm, .055 in / 1.3 mm	.81 in / 20.5 mm, 2 in / 50.8 mm	21
46-308FST	8 in / 20.3 cm	75 lb / 34.0 kg	100/bag	Fluorescent Pink, Fluorescent Orange, Fluorescent Blue, Fluorescent Yellow, Fluorescent Green	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 50.8 mm	21
30075N	8 in / 20.3 cm & 11 in / 27.9 cm	75 lb / 34.0 kg	300/canister	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 50.8 mm, 3 in / 76.2 mm	21
50075UVB	8 in / 20.3 cm & 11 in / 27.9 cm	75 lb / 34.0 kg	500/canister	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 50.8 mm, 3 in / 76.2 mm	21

Cable Ties



PLENUM CABLE TIES

- Multi-purpose heavy duty cable tie.
- Ideal for HVAC applications.
- Self-Extinguishing: If there is a fire plenum ties reduce the risk of a fire spreading and emit non-toxic fumes unlike standard cable ties.
- Min/Max operating temperature
-40° F to 185° F (-40° C to 85° C)



MH61331
181B-C
Mechanical Fasteners
For Use with UL-Non Metallic
Air Ducts and Air Connectors
5GF3
36-175-N-H

Part #	Length	Tensile Strength	Pack Qty.	Color	Width	Thickness	Bundle Diameter Max	UL Type
49-436P	36 in / 91.4 cm	180 lb / 81.6 kg	4/bag	Natural	.35 in / 8.8 mm	.070 in / 1.7 mm	11 in / 27.9 cm	21, 181B-C, AH-2
49-536P	36 in / 91.4 cm	180 lb / 81.6 kg	25/bag	Natural	.35 in / 8.8 mm	.070 in / 1.7 mm	11 in / 27.9 cm	21, 181B-C, AH-2
49-448P	48 in / 121.9 cm	180 lb / 81.6 kg	4/bag	Natural	.35 in / 8.8 mm	.070 in / 1.7 mm	14.8 in / 37.5 cm	21, 181B-C, AH-2
49-548P	48 in / 121.9 cm	180 lb / 81.6 kg	25/bag	Natural	.35 in / 8.8 mm	.070 in / 1.7 mm	14.8 in / 37.5 cm	21, 181B-C, AH-2



CTT-HD200

TOOLS

CABLE TIE TENSIONING TOOLS

Tightens and cuts off cable ties.

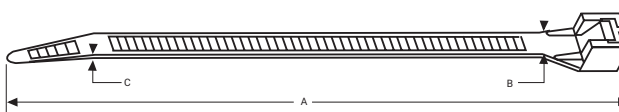
- Quick twist snaps off excess length.
- Lightweight economical and Heavy-Duty version available.

Part #	Tension Strength	Pack Qty.	Color
CTT-45	75 lb / 34.0 kg	1/Card	Red
CTT-HD200	200 lb / 90.7 kg	1/Card	Red

SPECIALTY CABLE TIES

SELF CUTTING CABLE TIES

- No tools required! Simply twist and tear.
- Patented design.
- Multi-purpose use.
- Durable stainless steel blade for a clean cut everytime.
- Min/Max operating temperature 32° to 185° F (0° to 85° C).



Merchandising Displays Available



Part #	Length "A"	Tensile Strength	Pack Qty.	Color	Width "B"	Thickness "C"	Bundle Diameter Max
45-308SC	8 in / 20.3 cm	50 lb / 22.6 kg	20/bag	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm
45-308UVBSC	8 in / 20.3 cm	50 lb / 22.6 kg	20/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm
46-308SC	8 in / 20.3 cm	50 lb / 22.6 kg	50/bag	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm
46-308UVBSC	8 in / 20.3 cm	50 lb / 22.6 kg	50/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm
45-311SC	11 in / 27.9 cm	50 lb / 22.6 kg	20/bag	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	3 in / 7.6 cm
45-311UVBSC	11 in / 27.9 cm	50 lb / 22.6 kg	20/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	3 in / 7.6 cm
46-311SC	11 in / 27.9 cm	50 lb / 22.6 kg	50/bag	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	3 in / 7.6 cm
46-311UVBSC	11 in / 27.9 cm	50 lb / 22.6 kg	50/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	3 in / 7.6 cm
46-311GSC	11 in / 27.9 cm	50 lb / 22.6 kg	50/bag	Green	.17 in / 4.3 mm	.055 in / 1.3 mm	3 in / 7.6 cm
45-314SC	14 in / 35.5 cm	50 lb / 22.6 kg	20/bag	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	4 in / 10.1 cm
45-314UVBSC	14 in / 35.5 cm	50 lb / 22.6 kg	20/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4 in / 10.1 cm
46-314SC	14 in / 35.5 cm	50 lb / 22.6 kg	50/bag	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	4 in / 10.1 cm
46-314UVBSC	14 in / 35.5 cm	50 lb / 22.6 kg	50/bagsss	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	4 in / 10.1 cm



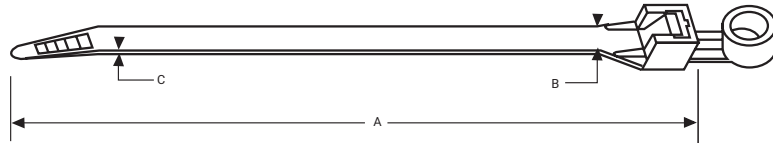
Cable Ties



MOUNTING CABLE TIES

Secures bundles to walls, studs or other surfaces easily.

- Accepts #10/5 mm (0.196 in) screws.
- Black ties are UV Resistant.
- Min/Max operating temperature -40° to 185°F (-40° to 85°C).



Part #	Length "A"	Tensile Strength	Pack Qty.	Color	Width "B"	Thickness	Bundle Diameter Max	UL Type	Mounting Style
45-308MT	8 in / 20.3 cm	50 lb / 22.6 kg	20/bag	Natural	.17 in / 4.3 mm	.05 in / 1.27 mm	2 in / 5 cm	21	Screw Mount
45-308MTG	8 in / 20.3 cm	50 lb / 22.6 kg	15/bag	Grey	.17 in / 4.3 mm	.05 in / 1.27 mm	2 in / 5 cm	21	Screw Mount
45-308MTUVB	8 in / 20.3 cm	50 lb / 22.6 kg	15/bag	Black	.17 in / 4.3 mm	.05 in / 1.27 mm	2 in / 5 cm	21	Screw Mount
48-308	8 in / 20.3 cm	50 lb / 22.6 kg	100/bag	Natural	.17 in / 4.3 mm	.05 in / 1.27 mm	2 in / 5 cm	21	Screw Mount
48-308UVB	8 in / 20.3 cm	50 lb / 22.6 kg	100/bag	Black	.17 in / 4.3 mm	.05 in / 1.27 mm	2 in / 5 cm	21	Screw Mount
48-308M	8 in / 20.3 cm	50 lb / 22.6 kg	1000/bag	Natural	.17 in / 4.3 mm	.05 in / 1.27 mm	2 in / 5 cm	21	Screw Mount
46-111UVBM	11 in / 27.9 cm	50 lb / 22.6 kg	100/bag	Black	.17 in / 4.3 mm	.05 in / 1.27 mm	3 in / 7.6 cm	21	Screw Mount
48-114M	14 in / 35.5 cm	120 lb / 54.4 kg	100/bag	Natural	.17 in / 4.3 mm	.08 in / 2 mm	4 in / 10.1 cm	21	Screw Mount
48-114UVB	14 in / 35.5 cm	120 lb / 54.4 kg	100/bag	Black	.17 in / 4.3 mm	.08 in / 2 mm	4 in / 10.1 cm	21	Screw Mount
48-214	14 in / 35.5 cm	50 lb / 22.6 kg	100/bag	Natural	.17 in / 4.3 mm	.05 in / 1.27 mm	4 in / 10.1 cm	21	Screw Mount
48-214UVBM	14 in / 35.5 cm	50 lb / 22.6 kg	100/bag	Black	.17 in / 4.3 mm	.05 in / 1.27 mm	4 in / 10.1 cm	21	Screw Mount
48-315M	14 in / 35.5 cm	50 lb / 22.6 kg	1000/bag	Black	.17 in / 4.3 mm	.05 in / 1.27 mm	4 in / 10.1 cm	21	Screw Mount
45-308PM	8 in / 20.3 cm	50 lb / 22.6 kg	25/bag	Natural	.17 in / 4.3 mm	.05 in / 1.27 mm	2 in / 5 cm		Push Mount
45-308PMUVB	8 in / 20.3 cm	50 lb / 22.6 kg	25/bag	Black	.17 in / 4.3 mm	.05 in / 1.27 mm	2 in / 5 cm		Push Mount



METAL PAWL CABLE TIES

- Metal Pawl ensures a firm and lasting closure.
- Stainless steel pawl design for infinite locking points on the body of the tie.
- Black ties are UV Resistant.
- Made from durable Nylon 6/6.
- Smooth notchless outside reduces stress under tension.
- Designed for metal detection applications.



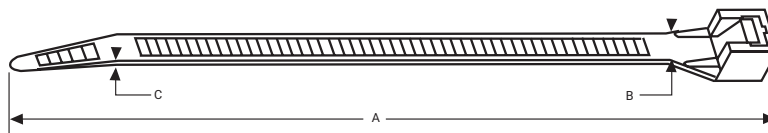
Part #	Length	Tensile Strength	Pack Qty.	Color	Width	Thickness	Bundle Diameter Max
46-308MP	7 in / 17.7 cm	50 lb / 22.6 kg	20/bag	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm
46-308UVBMP	7 in / 17.7 cm	50 lb / 22.6 kg	20/bag	Black	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5 cm
46-310MP	11 in / 27.9 cm	50 lb / 22.6 kg	10/bag	Natural	.19 in / 4.8 mm	.055 in / 1.3 mm	3 in / 7.6 cm
46-310UVBMP	11 in / 27.9 cm	50 lb / 22.6 kg	10/bag	Black	.19 in / 4.8 mm	.055 in / 1.3 mm	3 in / 7.6 cm

Cable Ties



RELEASABLE CABLE TIES

- Extended releasable tab in the head makes for easy release and reusability.
- Great for temporary work or where frequent servicing is required.
- Black ties are UV Resistant.
- Min/Max operating temperature -40° to 185° F (40° to 85° C)



Releasable Tab

Part #	Length "A"	Tensile Strength	Pack Qty.	Color	Width "B"	Thickness "C"	Bundle Diameter Max
47-108	8 in / 20.3 cm	50 lb / 22.6 kg	25/bag	Natural	.17 in / 4.3 mm	.05 in / 1.2 mm	1.75 in / 4.4 cm
47-108UVB	8 in / 20.3 cm	50 lb / 22.6 kg	25/bag	Black	.17 in / 4.3 mm	.05 in / 1.2 mm	1.75 in / 4.4 cm
47-111	12 in / 30.4 cm	50 lb / 22.6 kg	10/bag	Natural	.18 in / 4.5 mm	.05 in / 1.2 mm	3 in / 7.6 cm
47-111UVB	12 in / 30.4 cm	50 lb / 22.6 kg	10/bag	Black	.18 in / 4.5 mm	.05 in / 1.2 mm	3 in / 7.6 cm
47-115UVB	15 in / 38.1 cm	175 lb / 79.3 kg	4/bag	Black	.52 in / 13.2 mm	.09 in / 2.2 mm	4 in / 10.1 cm
47-121UVB	21 in / 53.3 cm	175 lb / 79.3 kg	3/bag	Black	.52 in / 13.2 mm	.09 in / 2.2 mm	6 in / 15.2 cm
47-127UVB	28 in / 71.1 cm	175 lb / 79.3 kg	3/bag	Black	.52 in / 13.2 mm	.09 in / 2.2 mm	6 in / 15.2 cm



BEADED CABLE TIES

Finally, a re-usable cable tie that offers the heavy duty tensile strength you need. Easier than a twist tie, more versatile than a cable tie.

- Releasable: Use & re-use. Beads lock and release through key-hole slots.
- Min/Max operating temperature 32° to 185° F (0° to 85° C)

- Adjustable: Bundle capacities from 1/4 in to 7 in (6.3 mm to 177.8 mm) diameters or string together for greater capacity.
- Secure: Bundle and secure with double lock through 2 convenient keyhole slots to bind, hook, and secure.
- Flexible: Bundle and create a loop to hang.
- Black ties are UV Resistant.



Part #	Length	Tensile Strength	Pack Qty.	Color
45-4BEADBK	4 in / 10.1 cm	18 lb / 8.1 kg	20/bag	Black
45-8BEADBK	8 in / 20.3 cm	70 lb / 31.7 kg	15/bag	Black
46-8BEADBK	8 in / 20.3 cm	70 lb / 31.7 kg	40/bag	Black
45-12BEADBK	12 in / 30.4 cm	70 lb / 31.7 kg	15/bag	Black
46-12BEADBK	12 in / 30.4 cm	70 lb / 31.7 kg	40/bag	Black
45-12BEADYW	12 in / 30.4 cm	70 lb / 31.7 kg	15/bag	Yellow
45-18BEADBK	18 in / 45.7 cm	140 lb / 63.5 kg	10/bag	Black
45-24BEADBK	24 in / 60.9 cm	140 lb / 63.5 kg	5/bag	Black



Cable Ties



HOOK & LOOP CABLE TIES

- Reusable strip fastens wires and cables.
- Wrap excess around bundle – no waste.
- Great for home/office, tools and electronics.
- Cinch tab allows attachment to cable or cord.



Part #	Length	Tensile Strength	Pack Qty.	Color	Width	Thickness	Bundle Diameter Max
45-V8BKV	8 in / 20.3 cm	N/A	5/bag	Black	.5 in / 12.7 mm	.05 in / 1.2 mm	2.25 in / 5.7 cm
45-V8BKW	8 in / 20.3 cm	N/A	5/bag	Black	.5 in / 12.7 mm	.05 in / 1.2 mm	2.25 in / 5.7 cm
45-V15FBK	8 in / 20.3 cm	N/A	50/bag	Black	.5 in / 12.7 mm	.05 in / 1.2 mm	2.25 in / 5.7 cm
45-V11BKW	11 in / 27.9 cm	N/A	5/bag	Black	.5 in / 12.7 mm	.05 in / 1.2 mm	3 in / 7.6 cm



STAINLESS STEEL CABLE TIES

- 304 Stainless Steel design for harsh, corrosive, and salt-water environments.
- Resists chemicals and radiation exposure as well as enduring extreme temperatures.
- Stainless steel is great for clean environments such as food processing areas.
- Self-locking ball mechanism meets low insertion force requirements while maintaining high tensile strength.
- Operating temperature rated up to 572° F (300° C).



Part #	Length	Tensile Strength	Pack Qty.	Color	Width	Thickness	Bundle Diameter Max
45-306SS	6 in / 15.2 cm	100 lb / 45.3 kg	10/bag	Stainless Steel	.18 in / 4.5 mm	.010 in / 0.2 mm	1.5 in / 3.8 cm
45-312SS	11 in / 27.9 cm	100 lb / 45.3 kg	10/bag	Stainless Steel	.18 in / 4.5 mm	.010 in / 0.2 mm	3.75 in / 9.5 cm

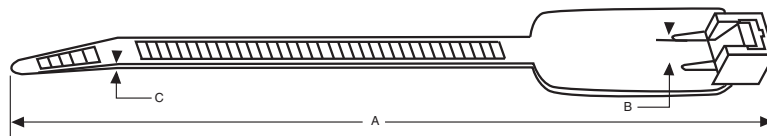


ID / LABEL CABLE TIES

- ID tab allows for easy wire/cable identification.
- ID tag cable ties available with horizontal & vertical tags
- Min/Max operating temperature –40° to 185° F (–40° to 85° C).



45-308ID



Part #	Length "A"	Tensile Strength	Pack Qty.	Color	Width "B"	Thickness "C"	Bundle Diameter Max
45-104ID	4 in / 10.1 cm	18 lb / 8.1 kg	100/bag	Natural	.098 in / 2.4 mm	.04 in / 1 mm	.81 in / 50.8 mm
45-308ID	8 in / 20.3 cm	50 lb / 22.6 kg	25/bag	Natural	.17 in / 4.3 mm	.055 in / 1.3 mm	2 in / 5.0 cm

Cable Ties



46-308LP

LOW-PROFILE TIE

- Low-profile head design to reduce the height of the tie when bundled.
- Great to use in on installations when space is limited.
- Cable tie tail is inserted in the head parallel to the rest of the cable for a flat round bundle.

Part #	Length	Tensile Strength	Pack Qty.	Color	Width	Thickness	Bundle Diameter Max
46-308LP	8 in / 20.3 cm	50 lb / 22.6 kg	100/bag	Natural	.18 in / 4.5 mm	.053 in / 1.3 mm	2 in / 50.8 mm



45-311DHUVB

DUAL-HEAD TIE

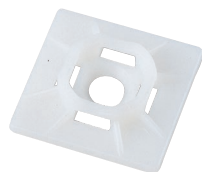
- Dual-locking head design.
- Perfect for applications that require securing 2 bundles at once.
- Reduces the number of cable ties needed as a dual use cable tie.

Part #	Length	Tensile Strength	Pack Qty.	Color	Width	Thickness	Bundle Diameter Max
45-311DHUVB	11 in / 27.9 cm	50 lb / 22.6 kg	25/bag	Black	.13 in / 3.3 mm	.053 in / 1.3 mm	3 in / 76.2 mm (when securing 1 bundle only)

ACCESSORIES

MOUNTING BASES & PUSH MOUNTS

- Adhesive-backed mounting bases for securing wire and cable bundles.
- Center screw hole for extra holding power.
- Molded with durable nylon 6/6 material.
- Four-sided insertion design for mounting flexibility.



45-MB



45-MBUVB

Part #	Size	Pack Qty.	Color	Fits Widths Up To	Recommended Cable Tie Size	Compatible Screw Size	Mounting Style
46-MB	0.6 in x 0.4 in / 15.2 mm x 10.1 mm	30/bag	Natural	.2 in / 5 mm	18 - 75 lbs / 8.1 - 34.0 kg	#8 Screw	Screw in Saddle
46-MBUVB	0.6 in x 0.4 in / 15.2 mm x 10.1 mm	30/bag	Black	.2 in / 5 mm	18 - 75 lbs / 8.1 - 34.0 kg	#8 Screw	Screw in Saddle
45-MB	1 in x 1 in / 25.4 mm x 25.4 mm	5/bag	Natural	.17 in / 4.3 mm	18 - 75 lbs / 8.1 - 34.0 kg	#10 Screw	Screw in Base
45-MBUVB	1 in x 1 in / 25.4 mm x 25.4 mm	5/bag	Black	.17 in / 4.3 mm	18 - 75 lbs / 8.1 - 34.0 kg	#10 Screw	Screw in Base
MB-20	1 in x 1 in / 25.4 mm x 25.4 mm	100/bag	Natural	.17 in / 4.3 mm	18 - 75 lbs / 8.1 - 34.0 kg	#10 Screw	Screw in Base
MB-20UVB	1 in x 1 in / 25.4 mm x 25.4 mm	100/bag	Black	.17 in / 4.3 mm	18 - 75 lbs / 8.1 - 34.0 kg	#10 Screw	Screw in Base
45-PMB	5/16 in x 9/16 in / 7.9 mm x 14.2 mm	10/clam	Natural	.21 in / 5.3 mm	18 - 75 lbs / 8.1 - 34.0 kg	-	Push Mount
45-PMBUVB	5/16 in x 9/16 in / 7.9 mm x 14.2 mm	10/clam	Black	.21 in / 5.3 mm	18 - 75 lbs / 8.1 - 34.0 kg	-	Push Mount



46-MBUVB



46-MB



45-PMBUVB



45-PMB



STAPLES

nVent GARDNER BENDER provides a complete line of staple and fastening solutions for all industries, including industrial, residential, construction, or manufacturing. From low voltage wire to service entrance cables, professionals rely on nVent GARDNER BENDER for quality fastening products.

Staples



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STAPLE COLOR CODING GUIDE

WIRE TYPE	STAPLE TYPE	COLOR
	<p>NM Cable Staples 9/16 in (14.2 mm) and 3/4 in (19 mm)</p> <p>14-3 12-3 10-3 12-2UF</p>	
	<p>NM Cable Staples 1/2 in (12.7 mm)</p> <p>14-2 12-2 10-2</p>	
	<p>Service Entrance Staples</p> <p>SER, SEU: #8, #6, #4, #3, #2</p>	
	<p>Coax / Datacom Staples</p> <p>RG-59, RG-6, RG6QS/Cat 3, Cat 5</p>	
	<p>Speaker Wire / Bell Wire Staples</p>	



ELECTRICAL NM STAPLES



MS-150

METAL ELECTRICAL STAPLES

Secures and protects non-metallic (NM), BX, MC, AC and UF cable.

- Recessed head drives faster and protects cable insulation.
- Pointed legs drive in straight; will not split wood.
- Preferred length.
- Oil-Free for cleaner handling.
- Sharper tips for easy starting.

Dimensions Width X Length	Part #	Pack Qty.	Color
1/2 in x 1 in / 12.7 mm x 25.4 mm	MS-1550T	24/clam	Silver
	MS-1550TD	30/clam	Silver
	MS-1555	50/clam	Silver
	MS-150	100/box	Silver
	MS-150BX	150/box	Silver
	MS-500BX	500/box	Silver
	MS-500J	500/jar	Silver
	MS-550	500/box	Silver
	MS-1000C	1000/canister	Silver
	MS-950BU	10000/bucket	Silver
	MS-950B	5000/bucket	Silver

Dimensions Width X Length	Part #	Pack Qty.	Color
9/16 in x 1 1/4 in / 14.2 mm x 31.7 mm	MS-1575T	18/clam	Silver
	MS-1575TD	30/clam	Silver
	MS-1577	50/clam	Silver
	MS-175	100/box	Silver
	MS-175BX	150/box	Silver
	MS-450BX	450/box	Silver
	MS-450J	450/jar	Silver
	MS-575	500/box	Silver
	MS-975B	5000/bucket	Silver



MSI-150

METAL INSULATED STAPLES

Secures and protects non-metallic (NM), BX, MC, AC and UF cable.

- Insulator made from durable polyethylene.
- Plastic insulator protects cables and helps prevent arc faults.

Dimensions (Width X Length)	Part #	Pack Qty.	Color
1/2 in x 1 in / 12.7 mm x 25.4 mm	MSI-50XL	50/box	Silver/Red
1/2 in x 1 in / 12.7 mm x 25.4 mm	MSI-1525T	15/clam	Silver/Blue
	MSI-1525TD	25/clam	Silver/Blue
	MSI-50B	50/bag	Silver/Blue
	MSI-150	100/box	Silver/Blue
	MSI-200BX	200/box	Silver/Blue
	MSI-200JT	200/jar	Silver/Blue
	MSI-550	500/box	Silver/Blue
	MSI-2500B	2500/bucket	Silver/Blue
	MSI-950B	4000/bucket	Silver/Blue



MSI-75BX

MSI-5310

MSI-50XL

Dimensions (Width X Length)	Part #	Pack Qty.	Color
9/16 in x 1 1/8 in / 14.2 mm x 28.5 mm	MSI-1575TD	20/clam	Silver/Tan
	MSI-75BX	100/box	Silver/Tan
	MSI-175BX	175/box	Silver/Tan
	MSI-175J	175/jar	Silver/Tan



MDI-150Y

METAL PVC INSULATED STAPLES (DIPPED)

Secures and protects non-metallic (NM), BX, MC, AC and UF cable.

- Insulator made from durable polyethylene.
- Plastic insulator protects cables and helps prevent shorts.

Dimensions (Width X Length)	Part #	Pack Qty.	Color
1/2 in x 1 in / 12.7 mm x 25.4 mm	MDI-150Y	100/box	Gray/Silver
	MDI-1550Y	40/clam	Gray/Silver

Staples



PS-150Z



PLASTIC ELECTRICAL STAPLES

Secures and protects non-metallic (NM), BX, MC, AC and UF cable.

- Fast and easy to install – both zinc-plated nails drive together without splitting wood.
- Nail heads are recessed for minimum exposure.
- Smooth saddles prevent damage to insulation.
- UV-resistant polyethylene saddles will not rust, rot or deteriorate.
- Assembled in USA/Packaged.

Dimensions (Width X Height)	Part #	Pack Qty.	Color	Application
1/2 in x 3 /16 in / 12.7 mm x 4.7 mm	PS-1550T	15/clam	White	Wood
	PS-1550TD	25/clam	White	Wood
	PSM-1550T	25/clam	White	Masonry
	PS-50	50/bag	White	Wood
	PS-50N	50/bag	White	Wood
	PS-150ZN	100/bag	White	Wood
	PS-225BG	225/bag	White	Wood
	PS-225J	225/jar	White	Wood
	PS-250N	250/bag	White	Wood
	PS-350C	350/bag	White	Wood
	PS-550	500/box	White	Wood
	PS-750B	2000/bucket	White	Wood

Dimensions (Width X Height)	Part #	Pack Qty.	Color	Application
3/4 in x 3 /16 in / 19 mm x 4.7 mm	PS-1575T2	15/clam	White	Wood
	PS-1575TD	20/clam	White	Wood
	PS-75N	50/bag	White	Wood
	PS-75	50/bag	White	Wood
	PS-175ZN	100/bag	White	Wood
	PS-175BG	175/bag	White	Wood
	PS-175J	175/jar	White	Wood
	PS-275N	250/bag	White	Wood
	PS-575	500/box	White	Wood



GSE-304



GSE-105

SERVICE ENTRANCE STAPLES

PLASTIC & METAL SERVICE ENTRANCE STAPLES

Plastic

Plastic insulated straps quickly and easily secure service entrance cable.

- Electro-zinc plated nails provide strength and durability.
- Polyethylene straps stabilized against UV rays and extreme cold; withstand deterioration and breakage.
- Assembled in USA/Packaged.

Secures service entrance cables.

- Pointed offset legs drive in straight.
- Will not split wood.

Metal



MSI-5310



GSE-5310



Dimensions (Width X Length)	Part #	Pack Qty.	Application	Staple Type
1 1/8 in x 1 1/2 in / 28.5 mm x 38.1 mm	GSE-15410	10/clam	4/3 and 2/3 SE	Metal
	GSE-4310	25/box	4/3 and 2/3 SE	Metal
	GSE-410	100/box	4/3 and 2/3 SE	Metal
1 5/8 in x 2 1/8 in / 41.2 mm x 53.9 mm	GSE-710	100/box	#4/0 SE	Metal
	GSE-15310	10/clam	#6/3 SEU	Metal
13/16 in x 1 3/8 in / 20.6 mm x 34.9 mm	GSE-5310	25/box	#6/3 SEU	Metal
	MSI-5310	50/box	6/3 SEU	Metal insulated
	GSE-310	100/box	#6/3 SEU	Metal
1 1/2 in x 7/8 in / 38.1 mm x 22.2 mm	GSE-402	2/clam	#4/0 SEU	Plastic

Dimensions (Width X Height)	Part #	Pack Qty.	Application	Staple Type
15/16 in x 1/2 in / 23.8 mm x 12.7 mm	GSE-205	5/clam	#2 SEU	Plastic
	GSE-250	50/box	#2 SEU	Plastic
15/16 in x 15/16 in / 23.8 mm x 23.8 mm	GSE-304	4/clam	#2 SER	Plastic
	GSE-314	10/box	#2 SER	Plastic
3/4 in x 11/16 in / 19 mm x 17.4 mm	GSE-505	5/clam	#6 SER	Plastic
3/4 in x 7/16 in / 19 mm x 11.1 mm	GSE-105	5/clam	#6 SEU	Plastic
	GSE-115	10/box	#6 SEU	Plastic

Staples



PTP-100



LOW VOLTAGE STAPLES

DATACOM

Secures Category 3 and Category 5 wire.

- UV-resistant polyethylene saddles will not rust, rot or deteriorate.
- Zinc-plated nails resist rust and corrosion.
- 1/4 in (6.3 mm) wide opening.

Dimensions (Diameter)	Part #	Pack Qty	Color	Application
1/4 in / 6.3 mm	PTP-25T	25/clam	Blue	Wood
	PTP-100	100/bag	Blue	Wood
	PTP-100BX	100/box	Blue	Wood



PCC-300BG



COAX

Secures RG-59, RG-6 and RG6QS (quad shield) coaxial cables.

- UV-resistant polyethylene saddle.
- For indoor and outdoor applications.
- Zinc-plated nails resist rust and corrosion.

Dimensions (Diameter)	Part #	Pack Qty.	Color	Application
1/4 in / 6.3 mm	PCC-1525	25/clam	Black	Wood
	PSB-1650T	25/clam	Black	Wood
	PCS-1600T	25/clam	Black	Masonry
	PSB-165	50/clam	Black	Wood
	PSW-165	50/clam	White	Wood
	PCS-100B	100/bag	Black	Masonry
	PSB-100B	100/bag	Black	Wood
	PSB-100M	100/bag	Black	Masonry
	PSW-100B	100/bag	White	Wood
	PSW-100M	100/bag	White	Masonry

Dimensions (Diameter)	Part #	Pack Qty.	Color	Application
1/4 in / 6.3 mm	PSW-1650T	25/clam	White	Wood
	PCS-100	100/box	Black	Masonry
	PSB-100	100/box	Black	Wood
	PSW-200BG	200/bag	White	Wood
	PCS-200BG	200/bag	Black	Masonry
	PCC-300BG	300/bag	Black	Wood
	7/16 in / 11.1 mm	PSG-15	15/clam	Gray
PR-50N		50/bag	White	Wood



PSW-165



PCS-100B



PSG-15



PR-50N



Staples



MSB-1540



MSW-1540



PSW-1600T



PMC-1525WT

OTHER LOW VOLT

Secures speaker, thermostat, holiday lights, bell and telephone wire.

- For inside and outside applications.
- UV-resistant polyethylene saddles will not rust, rot or deteriorate.
- Zinc-plated nails resist rust and corrosion.

Dimensions (Width X Height & Diameter)	Part #	Pack Qty	Color	Application
1/8 in / 3.1 mm dia	MSB-1540	40/clam	Brown	Wood
	MSW-1540	40/clam	White	Wood
3/16 in W x 1/8 in H / 4.7 mm W x 3.1 mm H	PMC-1525WT	25/clam	White	Masonry
	PSB-1600T	25/clam	Black	Wood
	PSW-1600T	25/clam	White	Wood
	PSB-160	100/clam	Black	Wood
	PSW-160	100/clam	White	Wood

SPECIALTY STAPLES

CONDUIT STRAPS

Enables secure fastening of plastic electrical conduit, schedule 40 PVC, copper tubing, etc.

- Heavy-duty polyethylene resists deterioration from UV rays and breakage from extreme cold.



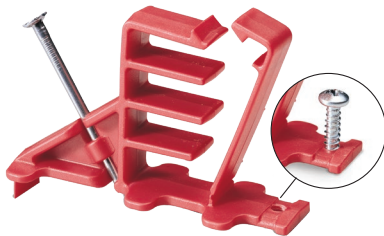
GCC-120

Dimensions (Diameter)	Part #	Application	Pack Qty.	Color
.840 in / 21.3 mm	GCC-120	1/2 in (12.7 mm) conduit	20/bag	Gray
1.050 in / 26.6 mm	GCC-220	3/4 in (19 mm) conduit	20/bag	Gray
1.315 in / 33.4 mm	GCC-310	1 in (25.4 mm) conduit	10/bag	Gray
1.660 in / 42.1 mm	GCC-410	1 1/4 in (31.7 mm) conduit	10/bag	Gray
1.990 in / 50.5 mm	GCC-510	1 1/2 in (38.1 mm) conduit	10/bag	Gray
2.375 in / 60.3 mm	GCC-610	2 in (50.8 mm) conduit	10/bag	Gray

MULTI-CABLE

Organizes and secures multiple cable runs on a stud.

- Secures NM/Romex®, coaxial and CAT 5 all on the same staple.
- Snap lock gate quickly and easily secures all cables.
- Self-centering tab guides perfect placement on the stud.
- Secures with a nail or staple for wood studs, a screw for metal studs.



MCS-20W

Dimensions (Width X Height)	Product #	Pack Qty.	Color	Application
15/16 in x 1 3/4 in / 23.8 mm x 44.4 mm	MCS-10W	10/bag	Red	Multi-Cable
	MCS-20W	20/bag	Red	Multi-Cable
	MCS-100W	100/bag	Red	Multi-Cable



MSG-301

STAPLE TOOLS/ACCESSORIES

LOW VOLTAGE STAPLE GUN

- Heavy-duty stainless steel design.
- Safety handle for compact storage.
- Staples cover wide range of wire applications.
- Easy loading.

Part #	Pack Qty.	Color
MSG-301	1/clam	Silver



MSS-3102

STAPLE GUN ACCESSORIES (MSG-301) - LOW VOLTAGE STAPLES

Intended for use with nVent GARDNER BENDER low-volt staple gun

- Use MMS-3101 to secure telephone, alarm, security, doorbell, and speaker cable/wire.
- Use MMS-3102 to secure TV, datacom, CAT 5E, CAT 6 and RG-59 cable/wire.

Dimensions (Diameter)	Part #	Pack Qty.	Color
1/4 in / 6.3 mm	MMS-3101	625/box	Silver
	MMS-3102	625/box	Silver



MSG-501

CABLE BOSS MULTIPURPOSE STAPLE GUN

- Secures 120V & low-volt cable: Romex®, Coaxial & CAT 5 from the same tool.
- Comfort grip areas for 2-handed operation.
- Easy trigger force.
- Ergonomic handle.
- Secures round and flat cable.
- 3 sizes covering: NM, Coax, Voice/Data, Low Volt.

Part #	Pack Qty.	Color
MSG-501	1/clam	Red/Black



MPS-2080

CABLE BOSS ACCESSORIES - (MSG-501) NM, COAX, VOICE/DATA, LOW VOLTAGE STAPLES

Specially designed for Cable Boss Staple Gun

- 3 sizes of staples covering: NM, Coax, Voice/Data, and Low Voltage.
- Barbed leg design for superior holding power.
- Insulated Staple protects cable jacket.

Dimensions (Width X Length)	Part #	Pack Qty.	Color
5/16 in x 1/4 in / 7.9 mm x 6.3 mm	MPS-2080	250/box	Blue
3/8 in x 1/4 in / 9.5 mm x 6.3 mm	MPS-2100	200/box	White
1/2 in x 1/4 in / 12.7 mm x 6.3 mm	MPS-2125	200/box	Black



APPLICATION CHART

STAPLE QUICK REFERENCE GUIDE - REFER TO CATALOG FOR PART NUMBERS AND SPECS						
STAPLE TYPE		DIMENSIONS OR DIAMETER	PACK SIZES**	COLOR	APPLICA-TIONS	WOOD OR MASONRY
METAL STAPLES	Standard Metal (20 items)	1/2 in x 1 in / 12.7 mm x 25.4 mm	24, 30,50, 100, 150, 500, 1000, 5000, 10000	Silver	Non-Metallic - BX, MC, AC, UF	Wood
		9/16 in x 1-1/4 in / 14.2 mm x 31.7 mm	18, 30, 50, 100, 150, 450, 500, 5000	Silver	Non-Metallic - BX, MC, AC, UF	Wood
	Service Entrance Rated (7 items)	1-1/8 in x 1-1/2 in / 28.5 mm x 38.1 mm 1-5/8 in x 2-1/8 in / 41.2 mm x 53.9 mm 13/16 in x 1-3/8 in / 20.6 mm x 34.9 mm	10, 25, 100	Silver	4/3 and 2/3 SE, #4/0 SE, #6/3 SEU,	Wood
	Metal Insulated Staples (15 items)	1/2 in x 1-1/2 in / 12.7 mm x 38.1 mm 1/2 in x 1 in / 12.7 mm x 25.4 mm 13/16 in x 1-5/16 in / 20.6 mm x 33.3 mm 9/16 in x 1-1/8 in / 14.2 mm x 28.5 mm	15, 20, 25, 50, 100, 175, 200, 500, 4000	Red, Blue, Gray, Tan Insulation	Non-Metallic - BX, MC, AC, UF	Wood
	Metal PVC Insulated Staples - Dipped (2 items)	1/2 in x 1 in / 12.7 mm x 25.4 mm	40, 100	Gray Dipped	Non-Metallic - BX, MC, AC, UF	Wood
PLASTIC STAPLES	Standard Plastic (27 items)	1/2 in x 3/16 in / 12.7 mm x 4.7 mm 3/4 in x 3/16 in / 19 mm x 4.7 mm	15, 20, 25, 50, 100, 175, 225, 250, 500, 2000, 22500, 30000	White	Non-Metallic - BX, MC, AC, UF	Both*
	Service Entrance Rated (12 items)	1-1/2 in x 7/8 in / 38.1 mm x 22.2 mm 15/16 in x 1/2 in / 23.8 mm x 12.7 mm 15/16 in x 15/16 in / 23.8 mm x 23.8 mm 3/4 in x 11/16 in / 19 mm x 17.4 mm 3/4 in x 7/16 in / 19 mm x 11.1 mm	2, 4, 5, 10, 30,50, 70	Gray	#4/0 SEU, #2 SEU, #2 SER, #6 SER, #6 SEU	Wood
LOW VOLTAGE STAPLES	Datacom (6 items)	1/4 in / 6.3 mm	25, 50, 100, 300	Blue	Category 3 and 5	Both*
	Coax (28 items)	1/4 in / 6.3 mm 7/16 in / 11.1 mm 1/4 in / 6.3 mm (dual)	15, 25, 50, 100, 200, 300	Black, White, Gray	RG-59, RG-6, RG6QS (quad-shield)	Both*
	Other Low Volt (10 items)	1/8 in x 3/16 in / 3.1 mm x 4.7 mm 3/16 in x 1/8 in / 4.7 mm x 3.1 mm 1/8 in / 3.1 mm (diameter)	25, 40, 100	Black, White, Brown	Speaker, Thermostat, Holiday Lights, Bell and Telephone Wire	Both*
SPECIALTY	Conduit Straps (6 items)	.840 in / 21.3 mm 1.050 in / 26.6 mm 1.315 in / 33.4 mm 1.660 in / 42.1 mm 1.990 in / 50.5 mm 2.375 in / 60.3 mm	10, 20	Gray	Conduit	Wood
	Multi-cable (2 items)	15/16 in x 1-3/4 in / 23.8 mm x 44.4 mm	20, 200	Red	Multi-Cable - NM, coaxial, CAT5	Wood

*Both wood and masonry are available for this type of staple.

** Not all dimensions/color are available in every pack size mentioned.



MADE IN THE USA

Originally known as Palmer Staples in DePere, WI, founded by Dick Palmer in the late 1950's. Palmer would then go on to invent the insulated plastic staple that is still used today. In 1986 Bud Thoen sold Douglas Machine and retained Palmer Industries as a separate business. Products were then produced and distributed under the 'Palmer' Brand. In 1993 Palmer Industries was sold to nVent GARDNER BENDER, nVent GARDNER BENDER co-branded the staples as nVent GARDNER BENDER and Palmer.

The co-branding was eventually phased out and all products are now sold under the nVent GARDNER BENDER brand. All nVent GARDNER BENDER staples are now sold in national retail home centers, hardware stores and professional distributors across the United States, Canada and Latin America. nVent GARDNER BENDER manufactures over 1.6 billion staples annually for its customers and end users.





WIRE MANAGEMENT

When wires become entangled they are safety hazards, for both the equipment and the owner. nVent GARDNER BENDER offers a variety of products for protection and neatness. As the needs of professional electricians change in managing wire and cable, nVent GARDNER BENDER continues to deliver innovative solutions.

Wire Management

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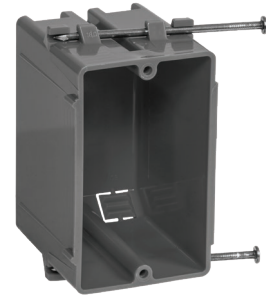
Non-Metallic Electrical Boxes

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BOX-ND32N



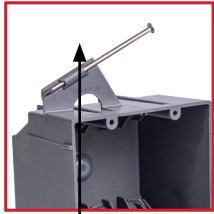
BOX-NS18N

NON-METALLIC ELECTRICAL BOXES

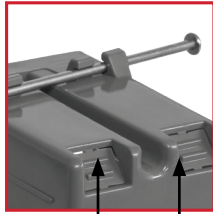
nVent GARDNER BENDER's Non-Metallic Electrical Boxes are constructed of high grade materials with greater performance, easier installation and durability in mind. All boxes are designed and tested for compliance to the most recent edition of the National Electric Code. UL 514C & 263 Listed for new and retro-fit construction applications. UL Classified for walls up to a 2-hour flame rating. Meets all applicable ANSI/NEMA standards.

NEW NEW WORK BOXES

- Available in single and double gang configurations.
- Includes zinc plated nails for installation & knockouts for entry of NM-B cable*.



Zinc plated Nails



Knockouts

Item #	Description	Vol (in ³)	Cutout H (in)	Cutout W (in)	Depth (in)	Case QTY
BOX-ND32N	2 Gang New Work Switch/Outlet Wall Electrical Box	32.5	3.68	4.02	3.03	40
BOX-NS18N	1 Gang New Work Switch/Outlet Wall Electrical Box	18.0	3.69	2.33	2.84	100
BOX-NS20N	1 Gang New Work Switch/Outlet Wall Electrical Box	20.3	3.76	2.33	3.26	100
BOX-NS22N	1 Gang New Work Switch/Outlet Wall Electrical Box	22.5	3.76	2.33	3.45	100

*ND32 Double Gang Box has living hinges instead of knockouts



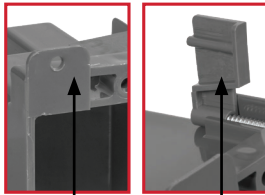
BOX-RD25N



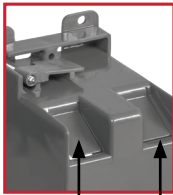
BOX-RS14N

NEW RETROFIT / OLD WORK BOXES

- Available in single and double gang configurations.
- Flanges and adjustable tabs for convenient mounting into existing walls.
- Equipped with living hinges for additional cable support.
- Durable high grade PVC construction resists breaking and provides lower installation costs.



Flanges and Adjustable Mounting Tabs



Living Hinges

Item #	Description	Vol (in ³)	Cutout H (in)	Cutout W (in)	Depth (in)	Case QTY
BOX-RS14N	1 Gang Old Work Switch/Outlet Wall Electrical Box	14.0	3.72	2.26	2.80	150
BOX-RD25N	2 Gang Old Work Switch/Outlet Wall Electrical Box	26.0	3.73	3.97	2.84	30
BOX-RS8	1 Gang Old Work Switch/Outlet Wall Electrical Box	8.0	3.58	2.39	1.24	25

NON-METALLIC CEILING BOXES

NEW NEW WORK CEILING BOX

- Ship with zinc plated nails for fast installation with rust protection.
- Equipped with living hinges for additional cable support.
- Polycarbonate construction for additional durability.
- Rated for 50 lb fixtures.



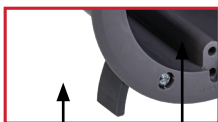
BOX-NC20



BOX-RC18



Zinc plated Nails



Adjustable Tabs and Living Hinges

Item #	Description	Vol (in ³)	Cutout DIA (in)	Depth (in)	Case QTY
BOX-NC20	New Work Ceiling Electrical Box	20.3	4.00	2.30	75

NEW RETROFIT / OLD WORK CEILING BOX

- Flanged configuration with adjustable tabs for mounting into existing structures.
- Equipped with living hinges for additional cable support.
- Polycarbonate construction for additional durability.



Living Hinges



Flanged Configuration

Item #	Description	Vol (in ³)	Cutout DIA (in)	Depth (in)	Case QTY
BOX-RC18	Old Work Ceiling Electrical Box	18.0	4.00	2.69	75



GTP-607P



GTPC-550

0.75 IN (19 MM) & 1 IN (25.4 MM)
WIDTH TAPE AVAILABLE



GTF-600



RTP-3422

TAPE ELECTRICAL TAPE

Quality electrical tape designed for general purpose electrical applications.

- Made from low-lead PVC material.
- For applications up to 600V.
- Temp rating up to 176° F (80° C).



Part #	Pack Qty	Sleeve Qty	Width	Length	Color
GTP-307	1/roll	10/sleeve	3/4 in / 19 mm	30 ft / 9.14 m	Black
GTP-307D	1/card	-	3/4 in / 19 mm	30 ft / 9.14 m	Black
GTP-307WD*	1/card	-	3/4 in / 19 mm	30 ft / 9.14 m	Black
GTP-607	1/roll	10/sleeve	3/4 in / 19 mm	60 ft / 18.2 m	Black
GTP-607P	1/roll	-	3/4 in / 19 mm	60 ft / 18.2 m	Black
GTB-667P	1/puck	-	3/4 in / 19 mm	66 ft / 20.11 m	Blue
GTG-667P	1/puck	-	3/4 in / 19 mm	66 ft / 20.11 m	Green
GTN-667P	1/puck	-	3/4 in / 19 mm	66 ft / 20.11 m	Brown
GTO-667P	1/puck	-	3/4 in / 19 mm	66 ft / 20.11 m	Orange
GTR-667P	1/puck	-	3/4 in / 19 mm	66 ft / 20.11 m	Red
GTV-667P	1/puck	-	3/4 in / 19 mm	66 ft / 20.11 m	Violet
GTW-667P	1/puck	-	3/4 in / 19 mm	66 ft / 20.11 m	White
GTY-667P	1/puck	-	3/4 in / 19 mm	66 ft / 20.11 m	Yellow
GTPB-550	5/clam	-	1/2"	20 ft / 6.09 m	Black
GTPC-550	5/clam	-	1/2"	20 ft / 6.09 m	Assorted (Red, White, Blue, Green, Yellow)
GTPR-575	5/clam	-	3/4 in / 19 mm	16 ft / 4.87 m	Assorted (Red, White, Blue, Green, Yellow)

*All Weather Tape

HEAVY DUTY ELECTRICAL TAPE

Our new Heavy Duty tape with greater adhesive strength than our commercial tape, the Heavy Duty tape can withstand the harsh application and weather conditions.

- Highly Resistant to Sun, Water, Oil, Acids, Alkalies, and Corrosive Chemicals.

Part #	Description	Color	Width	Length	Thickness
GTP-766	General Purpose Heavy Duty Vinyl Tape	Black	0.75 in / 19 mm	66 ft / 20.11 m	7 mil / 0.177 mm
GTP-3366	All Weather Heavy Duty Vinyl Tape	Black	0.75 in / 19 mm	66 ft / 20.11 m	7 mil / 0.177 mm
GTP-33108-15	All Weather Heavy Duty Vinyl Tape	Black	1.5 in / 38.1 mm	108 ft / 32.91 m	7 mil / 0.177 mm
GTP-8866	Extra Thick All Weather Heavy Duty Vinyl Tape	Black	0.75 in / 19 mm	66 ft / 20.11 m	8.5 mil / 0.215 mm
GTP-8844-15	Extra Thick All Weather Heavy Duty Vinyl Tape	Black	1.5 in / 38.1 mm	44 ft / 13.41 m	8.5 mil / 0.215 mm

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 ft (9.14 m) or 60 ft (18.28 m).

Part #	Pack Qty	Width	Length	Color
GTF-300N	1/roll	3/4 in / 19 mm	30 ft / 9.14 m	Black
GTF-600N	1/roll	3/4 in / 19 mm	60 ft / 18.28 m	Black

SELF SEALING TAPE

High quality tape to insulate many conductor shapes.

- Insulates and seals surfaces.
- Fuses to itself during application to stay watertight.
- Silicone Tape provides permanent mold in 24 hrs, or in min. with application of heat.

Part #	Pack Qty	Material	Max Voltage	Width	Length	Color
RTP-3422	1/roll	Rubber	600V	3/4 in / 19 mm	22 ft / 6.70 m	Black





Wire Management



HTP-1036BLK



REPAIR TAPE

Repair Tape fuses only to itself when applied under tension. No sticky residue remains on wrapped surfaces.

- Operates and remains flexible from -60° to 500° F (-51° to 260° C).
- Stretches up to 300% of its original length with 60 ppi tear strength.
- A permanent air and water tight seal, Repair Tape has excellent UV Resistance.
- Repair Tape begins to bond immediately on contact with itself.

Part #	Pack Qty	Width	Length	Color
HTP-1010	1/card	1 in / 25.4 mm	10 ft / 3.04 m	Black
HTP-1010BLU	1/card	1 in / 25.4 mm	10 ft / 3.04 m	Blue
HTP-1010CLR	1/card	1 in / 25.4 mm	10 ft / 3.04 m	Clear
HTP-1010GRN	1/card	1 in / 25.4 mm	10 ft / 3.04 m	Green
HTP-1010GRY	1/card	1 in / 25.4 mm	10 ft / 3.04 m	Gray
HTP-1010RED	1/card	1 in / 25.4 mm	10 ft / 3.04 m	Red
HTP-1010WHT	1/card	1 in / 25.4 mm	10 ft / 3.04 m	White
HTP-1010YLW	1/card	1 in / 25.4 mm	10 ft / 3.04 m	Yellow
HTP-1036BLK	1/card	1 in / 25.4 mm	36 ft / 10.9 m	Black



LTB-400

LTG-400

LTR-400

LTW-400

LTS-400

LIQUID & SPRAY TAPE

A liquid coating used to insulate and protect electrical splices and connections.

- Waterproof, will not unravel or deteriorate like traditional tape.
- Great for home, auto/marine, indoor/outdoor use and electrical applications.
- Brush-on applicator included.

Part #	Pack Qty.	Color
LTB-400	1/clam	Black
LTG-400	1/clam	Green
LTR-400	1/clam	Red
LTW-400	1/clam	White
LTS-400*	6 oz (177.4 mL)/can	Black

*Contained in aerosol canister.



Wire Management



HWT-0722

HEAVY-WALL HEAT SHRINK TUBING

Provides maximum reliability for insulating and protecting wire, cables and terminations.

- High impact, abrasion and corrosion resistance.
- Submersible and great for direct burial installations.
- Inner adhesive bonds to plastics, rubber, neoprene, steel, polyethylene.
- Continuous operating temperature: -55° C (-67° F) - 125° C (257° F).

Part #	Pack Qty.	Inside Dia.		Length
		Before	Finished	
HWT-0722	1/bag	3/4 in / 19 mm	7/32 in / 5.5 mm	6 in / 152.4 mm
HWT-1138	1/bag	1 3/32 in / 27.7 mm	3/8 in / 9.5 mm	6 in / 152.4 mm
HWT-1550	1/bag	1 1/2 in / 38.1 mm	1/2 in / 12.7 mm	6 in / 152.4 mm
HWT-0033	3	1/2 in / 12.7 mm	1/8 in / 3.1 mm	6 in / 152.4 mm
HWT-0020	2/bag	5/8 in / 15.8 mm	3/16 in / 4.7 mm	6 in / 152.4 mm
HWT-0025	1/bag	7/8 in / 22.2 mm	1/4 in / 6.3 mm	6 in / 152.4 mm



BHST-200



NEW BUTANE MINI-TORCH

Used to heat shrink tubes and terminals.

- Contains butane refill, precision soldering attachment & safety standing base.
- Includes child safety lock, air adjustment ring, flame control adjuster, continuous flame lock & built-in fuel cell/refilling valve

Part #	Pack Qty.	Operating Temp	Refill Size
BHST-200	1/clam	1875° F (1000° C)	2.5 oz (73.9 mL)/can



SB1-25

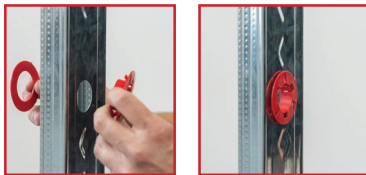
WIRE MANAGEMENT ACCESSORIES

NEW SNAP-IN METAL STUD BUSHING

Universal Stud Insulators provide 360° protection for cable runs through metal studs, where sharp hole edges could otherwise gouge plastic or rubber-jacketed electric, communications or network cable.



- Easy twist apart and snap together
- Constructed from durable polypropylene
- Helps protect and insulate wires and cables from metal studs
- Design accommodates any shape pre-punched hole or standard field-punched holes.



Part #	Size	Pack Qty.	Color
SB1-25	Applied product, Inside Diameter: 1-1/8 in (28.5 mm)	25/bag	Red
SB1-50	Outer Diameter: 1-3/8 in (34.9 mm)	50/bag	Red
SB1-100	Bushing Diameter: 2-1/4 in (57.1 mm)	100/bag	Red



GHG-1550

GROMMETS

Offers protection from to wires in passing through drilled holes.

- Prevents sharp edges from cutting or fraying wire.
- Made from rubberized material.

Part #	Pack Qty.	Color	Size
GHG-1525	6/Cd	Black	1/4 in / 6.3 mm
GHG-1538	5/Cd	Black	3/8 in / 9.5 mm
GHG-1550	4/Cd	Black	1/2 in / 12.7 mm
GHG-1575	3/Cd	Black	3/4 in / 19 mm
GHG-AST	8/Clam	Black	1/4 in / 6.3 mm - 3/4 in / 19 mm



DS-130

DUCT SEAL COMPOUND

Seals conduit openings against drafts, dust, moisture, and noise.

- Protects terminal boxes, pot heads and bushings from corrosive elements.
- Deadens switch gear panel noise.
- Dough-like compound is easily "thumbed" over holes and gaps.
- Will not harden or form a skin under normal conditions.
- Excellent resistance to water, alcohols, mild acids and bases.
- No Silicone.
- Specifications:



- Viscosity: ASTM D-217 300-gram load - 7.0 – 11.0; ASTM DS-S2 100-gram load - 9.0 – 15.0.
- Temperature Range: Adheres at -20° F (-29° C). Will not slump after 1 hr. at 350° F (175° C).
- Flash Point: Over 550° F (285° C).
- Other Properties: Non-conducting, non-deteriorating, non-toxic, non-corrosive, non-staining, non-curable; 99% solid, coil-based.

Part #	Pack Qty.	Description	Color
DS-110N	10 pugs	1 lb (0.4 kg) pugs	Gray
DS-130	30 pugs	1 lb (0.4 kg) pugs	Gray
DS-530	6 pugs	5 lb (2.2 kg) pugs	Gray



GSP-04

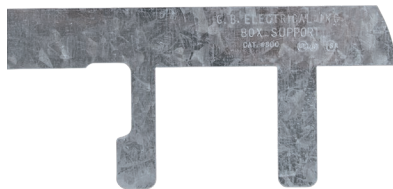


SPACERS

nVent GARDNER BENDER Spacers will bring outlet receptacles and switches flush with drywall or paneling to allow a proper fit with wall and face plates.

- Each spacer is 1/4 in (6.3 mm) thick, fold over and stack or twist apart for desired thickness.
- Self-extinguishing.

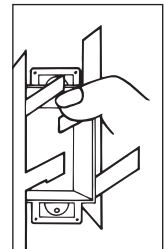
Part #	Pack Qty.	Description	Color
GSP-04	4 strips of 8 spacers/bag	Outlet Spacers	Neon Green
GSP-24	24 strips of 8 spacers/bag	Outlet Spacers	Neon Green
GSP-500	500 strips of 8 spacers/box	Outlet Spacers	Neon Green



800

BOX SUPPORTS

- Screwless support for ease of use.
- Saves time for installing outlet or switch boxes by:
 1. Mark corners of box position and drill four 1/2 in (12.7 mm) holes.
 2. Saw between holes to make box opening.
 3. Place box into opening. Slip box supports into openings alongside box; one with long end up, the other down.
 4. Bend fingers of box supports into box while firmly pressing box against wall.



Part #	Pack Qty.	Description	Color
800	25 sets/box	Box Support Set	Silver



Wire Management



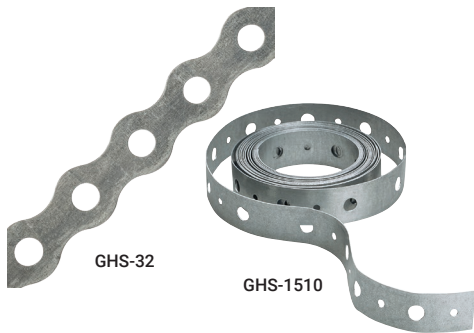
FP159-3

SAF-TE-PLATE PROTECTORS

Protects cable and plastic pipe from nail punctures.

- Plate attaches to wood studs with a single hammer blow.
- Required for compliance with NEC 1990 Article 300-4A.

Part #	Pack Qty.	Color	Size
FP159-3	100/Box	Silver	1 1/2 in (38.1 mm) x 3 in (76.2 mm) x 16 gauge Metal Safety Plate
FP159-6	50/Box	Silver	1 1/2 in (38.1 mm) x 6 in (152.4 mm) x 16 gauge Metal Safety Plate



GHS-32

GHS-1510

GALVANIZED HANGER STRAP

For hanging or fastening conduit, pipe or cables.

- Flexible galvanized steel for easy use.
- Suitable for a variety of plumbing and HVAC applications.
- Helps prevent vents from sinking over long runs.

Part #	Pack Qty.	Size	Hole DIA (in / mm)	Hole Center (in / mm)
GHS-1510	1/card	10 ft (3.04 m) x 3 / 4 in (19 mm) x 0.032 in (0.812 mm) thickness	17/64 / 6.7	13/16 / 20.6
GHS-32	1/card	32 ft (9.75 m) x 5/8 in (15.8 mm) x 0.028 in (0.711 mm) thickness	17/64 / 6.7	1/2 / 12.7

SCREW KIT

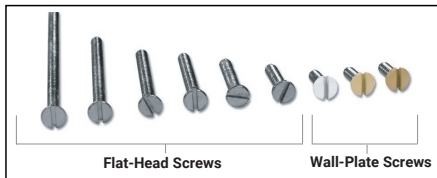
Assorted sizes & lengths of commonly used electrical machine screws.

- Slotted round-head screws for switches, receptacles and outlet applications.
- Slotted flat-head screws for all-purpose electrical fastening.



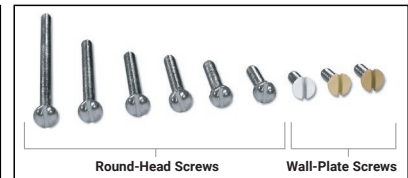
SK-832WP

Part #	Pack Qty.	Type	Color
14-WPI	10/card	Wall Plate Screws	Ivory
14-WPW	10/card	Wall Plate Screws	White
SK-632T	120/kit	Flat Head 6-32 Phillips Machine Screws	
SK-632WP	260/kit	Flat and Oval Head 6-32 Slotted Machine Screws	
SK-832T	120/kit	Phillips Head 8-32 Electricians Screws	
SK-832WP	135/kit	Slotted Head 8-32 Electricians Screws	



Flat-Head Screws

Wall-Plate Screws



Round-Head Screws

Wall-Plate Screws

PLASTIC CONICAL ANCHOR KIT

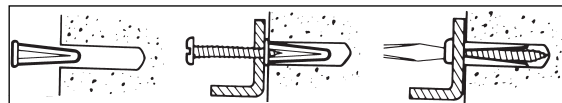
Perfect multi-purpose kit for professionals and end-users.

- Tapered end for easy installation.
- Flanged ribs prevent turning or twisting in hole.
- Carbide drill bit included with each kit.

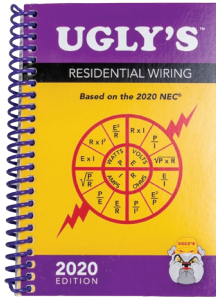


AP4-K100

Part #	Size	Pack Qty.	Color
AP4-K100	100 Screws/Anchors	Plastic Anchor Screw Kit w/1/4 in (6.3 mm) Carbide Drill Bit	Red/Sliver



Wire Management



ERB-UG



ERB-WS

ELECTRICAL REFERENCE BOOKS

Reference books that outline safe wiring recommendations based on the National Electrical Code.

Part #	Pack Qty.	Description
ERB-UG	1/bag	Ugly's Electrical References - Revised 2017 Edition. A quick, on-the-job reference guide for the most commonly required information in an easy-to-read format.
ERB-WS	1/bag	Wiring Simplified 45th Edition. A comprehensive book that translates the NEC rules into easy-to-understand explanations on how to complete safe wiring installs in homes.



42-029

WIRE MARKERS

Pocket-sized booklets of cloth wire markers and matching terminal markers.

- Saves time and money during all on-site and in-plant initial hookup, troubleshooting, maintenance and repair.
- Nylon-impregnated cloth resists moisture, dirt and oil.
- Non-smear legends assure high visibility for instant, positive identification.
- Matching terminal marker with every wire marker, plus an extra page of blank write-on wire and terminal markers for special legends.

Part #	Pack Qty.	Marker Legends
42-027	45/ea	0-9
42-028	10/ea	A-Z
	10/ea	0-15
	10/ea	Symbols: +, -, /
42-029	10/ea	1-45
42-030	10/ea	46-90
42-035	6/ea	1-15
	4/ea	16-90
	2/ea	A-Z
	2/ea	Symbols: +, -, /
42-ALPHA	1/ea	Circuit Breaker Box Markers



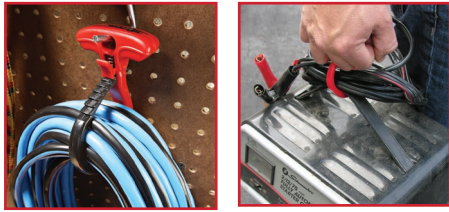
Wire Management



CORD & WIRE ORGANIZATION CABLE WRAPTOR

Simple patented design, endless solutions.

- "T" handle feature allows for easy carrying from one job to the next.
- Large hang hole is perfect to store and hang.
- Easy release trigger.
- Large teeth design for secure locking system.
- Stainless steel hinge and spring to prevent rusting.
- Cable tie latching hole for permanent attachment.
- Spring-loaded hinge helps close tail.



Part #	Pack Qty	Size	Bundle Dia. Max	Color
CW-MULTI-1L2M3S	6/card	Small, Medium, Large	1 1/8 in - 4 in / 2.8 cm - 10.1 cm	Black/Red
CW-T1RR50	50/box	Small	1 1/8 in / 2.8 cm	Black/Red
CW-T2R2	75/box	Medium	2 in / 5 cm	Black/Red
CW-T2RR10	10/box	Medium	2 in / 5 cm	Black/Red
CW-T2RR25	25/box	Medium	2 in / 5 cm	Black/Red
CW-T2RR25R	25/box	Medium	2 in / 5 cm	Black/Red
CW-T3R	50/box	Large	3 in / 7.6 cm	Black/Red
CW-T3RR10	10/box	Large	3 in / 7.6 cm	Black/Red
CW-T3RR25	25/box	Large	3 in / 7.6 cm	Black/Red
CW-T3RR25R	25/box	Large	3 in / 7.6 cm	Black/Red
CW-T4R1C	1/card	X-Large	4 in / 10.1 cm	Black/Red
CW-T4RR20	20/box	X-Large	4 in / 10.1 cm	Black/Red
CW-T4RR20R	20/box	X-Large	4 in / 10.1 cm	Black/Red



NEW WRAPTOR HEAVY DUTY STORAGE STRAP

nVent GARDNER BENDER Heavy Duty Wraptor Strap offers the same great ergonomic patented T-Handle designed with a more universal flexible strap. Now offered in 12 in (30.4 cm) and 20 in (50.8 cm) with a carry load of 120 lbs (54.4 kg), it is the preferred heavy-duty bundling solution for around the house, on the job or outdoor recreational use.

- Organize, bundle and hang
- Weatherproof for indoor or outdoor use
- 120 lb (54.4 kg) carry load strength
- T-Shaped handle for convenient carrying
- Hang hole in handle to easily hang/mount & organize on walls

	Part #	Pack Qty	Size	Bundle Dia. Max	Tensile strength	Color
Heavy	CW-N12R	1/card	12 in / 30.4 cm	3.25 in / 8.2 cm	120 lbs / 54.4 kg	Red & Black
Duty	CW-N20R	1/card	20 in / 50.8 cm	5.5 in / 13.9 cm	120 lbs / 54.4 kg	Red & Black



NEW WRAPTWIST REUSABLE RUBBER TWIST TIE

nVent GARDNER BENDER WrapTwist uses a dual wire core, coated in flexible silicone. These silicone twist ties are reusable, long lasting, strong and weatherproof. Wrap wire, cable, cords, camping equipment, tools, automotive organization, bundling, fastening and many more applications.

- Indoor/Outdoor use
- Available in a variety of lengths and strengths to fit all of your application needs
- Reinforced ends for easier gripping while applying to bundles
- UV Resistant



Part #	Pack Qty	Length	Loop Strength	Color
CWTT-122	2/pack	12 in / 30.4 cm	75 lbs / 34.0 kg	Orange
CWTT-36288	4/pack	3 in, 6 in, 12 in & 18 in / 7.6 cm, 15.2 cm, 30.4 cm & 45.7 cm	50 lbs & 75 lbs / 22.6 kg & 34.0 kg	Orange

Wire Management



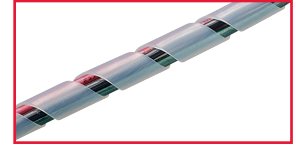
FSP-AST2

SPIRAL WRAP

Manages wire and cable neatly and allows for cable to break out at desired locations.

- Made from flexible polyethylene.
- Protects cables from cuts, abrasions and UV wear.

Part #	Pack Qty	Inside Diameter	Length
FSP-AST2	2/bag	1/8 in and 3/8 in / 3.1 mm and 9.5 mm	4 ft / 1.21 m
FSP-BLACKTC	2/bag	1/2 in / 12.7 mm	3 1/2 ft / 1.06 m
FSP-CLEARTC	2/bag	1/2 in / 12.7 mm	3 1/2 ft / 1.06 m



FLX-3810B

FLEX TUBING

Protects hoses, wire and cables from cuts, abrasions and UV wear.

- Excellent for managing cords for electronics, under hood or trailer wiring.
- Corrugated for added flexibility.
- Split down the center for wire breakout where needed.

* Flame retardant, self-extinguishing split loom permits flexible routing of cable harnesses while providing an extra layer of abrasion protection for wire and cable.

Part #	Length	Inside Diameter	Color
FLX-1005B	5 ft / 1.52 m	1 in / 25.4 mm	Black
FLX-1007GRT	5 ft / 1.52 m	1 in / 25.4 mm	Gray
FLX-1005W	5 ft / 1.52 m	1 in / 25.4 mm	White
FLX-757GR	5 ft / 1.52 m	3/4 in / 19 mm	Gray
FLX-3406B	6 ft / 1.82 m	3/4 in / 19 mm	Black
FLX-3406W	6 ft / 1.82 m	3/4 in / 19 mm	White
FLX-5007T	7 ft / 2.13 m	1/2 in / 12.7 mm	Black
FLX-5008BG	8 ft / 2.43 m	1/2 in / 12.7 mm	Beige
FLX-5008W	8 ft / 2.43 m	1/2 in / 12.7 mm	White
FLX-3810T	10 ft / 3.04 m	3/8 in / 9.5 mm	Black
FLX-3810W	10 ft / 3.04 m	3/8 in / 9.5 mm	White
FLX-538C10	10 ft / 3.04 m	3/8 in - 1/2 in / 9.5 mm - 12.7 mm	Black
XTM-450*	10 ft / 3.04 m	3/8 in / 9.5 mm	Black
FLX-1050B	50 ft / 15.24 m	1 in / 25.4 mm	Black
FLX-3410B	100 ft / 30.48 m	3/4 in / 19 mm	Black
FLX-5010B	100 ft / 30.48 m	1/2 in / 12.7 mm	Black
FLX-0034BB	550 ft / 167.64 m	3/4 in / 19 mm	Black
FLX-0050BB	1100 ft / 335.28 m	1/2 in / 12.7 mm	Black
FLX-1500	1500 ft / 457.20 m	3/8 in / 9.5 mm	Black
FLX-2500	2500 ft / 762 m	1/4 in / 6.3 mm	Black

XTM-450 is a nVent GARDNER BENDER Xtreme product



FLX-7504GSB

GRIP STRIP

This flexible raceway tubing has an adhesive back that can stick to nearly any surface helping you organize that tangled mess of cords. It is the perfect wire management product for any office, and requires absolutely no tools to set up.

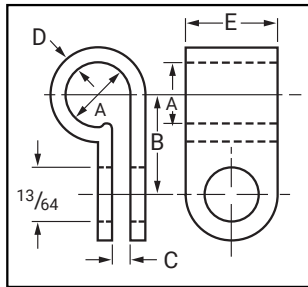
- No tools required for set up.
- Paintable material to match room décor.
- Flexible Split tubing with self-adhering back for wire & cable control.
- Bendable around corners and sharp degree turns.
- Easy removal and clean-up.



Part #	Dia.	Length	Color
FLX-7504GSB	3/4 in / 19 mm	4 ft / 1.21 m	Black
FLX-7504GSW	3/4 in / 19 mm	4 ft / 1.21 m	White



PPC-1538



PPC-1525UVB



GKK-1500



GKK-1538UVB

CLIPS AND CLAMPS PLASTIC CABLE CLAMPS

Polypropylene clamps hold harnesses, cables and tubing.

- Used for construction, maintenance and assembly-line operations.
- Use in control cabinets, panels and general applications.
- Tough, durable, yet extremely lightweight.
- Working temperature range: -66° to 340° F (-54° to 170° C).
- Clean, smooth edges for easy handling.
- Fast installation.

Part #	Pack Qty.	A Dia.	B	C	D	E width	Color
PPC-1525	18/bag	1/4 in / 6.3 mm	25/64 in / 9.9 mm	1/32 in / 0.7 mm	3/64 in / 1.1 mm	3/8 in / 9.5 mm	Natural
PPC-1525UVB	18/bag	1/4 in / 6.3 mm	25/64 in / 9.9 mm	1/32 in / 0.7 mm	3/64 in / 1.1 mm	3/8 in / 9.5 mm	Black
PPC-1538	15/bag	3/8 in / 9.5 mm	31/64 in / 12.3 mm	1/32 in / 0.7 mm	3/64 in / 1.1 mm	3/8 in / 9.5 mm	Natural
PPC-1538UVB	15/bag	3/8 in / 9.5 mm	31/64 in / 12.3 mm	1/32 in / 0.7 mm	3/64 in / 1.1 mm	3/8 in / 9.5 mm	Black
PPC-1550	12/bag	1/2 in / 12.7 mm	35/64 in / 13.8 mm	3/64 in / 1.1 mm	3/64 in / 1.1 mm	3/8 in / 9.5 mm	Natural
PPC-1550UVB	12/bag	1/2 in / 12.7 mm	35/64 in / 13.8 mm	3/64 in / 1.1 mm	3/64 in / 1.1 mm	3/8 in / 9.5 mm	Black
PPC-1575	6/bag	3/4 in / 19 mm	39/64 in / 15.4 mm	3/32 in / 2.3 mm	3/64 in / 1.1 mm	1/2 in / 12.7 mm	Natural
PPC-1575UVB	6/bag	3/4 in / 19 mm	39/64 in / 15.4 mm	3/32 in / 2.3 mm	3/64 in / 1.1 mm	1/2 in / 12.7 mm	Black
PPC-1600	4/bag	1 in / 25.4 mm	51/64 in / 20.2 mm	3/32 in / 2.3 mm	3/64 in / 1.1 mm	1/2 in / 12.7 mm	Natural
PPC-1600UVB	4/bag	1 in / 25.4 mm	51/64 in / 20.2 mm	3/32 in / 2.3 mm	3/64 in / 1.1 mm	1/2 in / 12.7 mm	Black

PLASTIC CORD CLIPS

Organize speaker wire, holiday lights, computer and lamps cords.

- Extra wide spring arm and reinforced stress points add strength and durability.
- Pre-applied adhesive base for easy installation.

Part #	Pack Qty.	Size	Color
PCC-1519	5/bag	3/16 in / 4.7 mm	Natural
PCC-1525UVB	5/bag	1/4 in / 6.3 mm	Black
PCC-1538	5/bag	3/8 in / 9.5 mm	Natural
PCC-1538UVB	5/bag	3/8 in / 9.5 mm	Black
GWC-1510	10/bag	5/16 in x 1/8 in / 7.9 mm x 3.1 mm	Natural

PLASTIC KWIK CLIPS

Mount Bundles, cables, cords, tools etc. to drywall, wood and painted surfaces.

- Ratcheting/releasable feature allows adjustment to a range of bundle diameters.
- Pre-applied adhesive base for easy installation.

Part #	Pack Qty.	Size	Color
GKK-1538	6/card	3/8 in / 9.5 mm	Natural
GKK-1538UVB	6/card	3/8 in / 9.5 mm	Black
GKK-1550	4/card	1/2 in / 12.7 mm	Natural
GKK-1575	2/card	3/4 in / 19 mm	Natural



PPR-1550

RUBBER INSULATED CABLE CLAMPS

Secures wire and cable in industrial, auto/marine and where vibrations may occur.

- Corrosive-resistant plated steel clamp.
- Flexible 1/2 in (12.7 mm) wide body.
- Secure with 1/4 in (6.3 mm) screw.
- XTM are stainless steel.

Part #	Pack Qty.	Size
PPR-1550	2/bag	1/2 in / 12.7 mm
PPR-1558	2/bag	5/8 in / 15.8 mm
PPR-1575	2/bag	3/4 in / 19 mm
PPR-1600	1/bag	1 in / 25.4 mm
PPR-1500	2/bag	3/8 in / 9.5 mm
XTM-401	2/clam	3/8 in / 9.5 mm
XTM-405	2/clam	1/2 in / 12.7 mm

XTM-401 and XTM-405 are Heat-Shrink Terminal products.



PAW-1550L1

EZ-CABLE CLIPS

EZ-Cable Clips are designed to secure low voltage cables and tubing.

- Flexible to accommodate different cable sizes.
- Made from aluminum, will not rust, crack or deteriorate.

Part #	Pack Qty.	Size	Color
PAW-1525L1	15/bag	1/4 in / 6.3 mm	White
PAW-1550L1	15/bag	1/2 in / 12.7 mm	White
PAC-1525	15/bag	1/4 in / 6.3 mm	White
PAC-1550	15/bag	1/2 in / 12.7 mm	White



PEC-31535

COAXIAL CABLE CLAMPS

Coaxial cable clamps with screws to help secure cable.

- Secures RG-59, RG-6, coaxial and more.
- Combo screw for safer installs.
- Screw-in depth 1/2 in (12.7 mm).

Part #	Pack Qty.	Type	Size	Color
PEC-31525	20/bag	RG-6	1/4 in / 6.3 mm	Black
PEC-31525WA	20/bag	RG-6 - Includes Wall Anchor	1/4 in / 6.3 mm	Black



GCC-003

MULTI-SLOT CORD CLIPS

Cable clips with multiple slots to help manage cords, wires and cables.

- Adhesive backed.
- Locking jaw.

Part #	Description	Pack Qty.	# of Slots	Color
GCC-001	Single Hole Cord Clips	3/bag	1	Black
GCC-003	3 Hole Cord Clips	3/bag	3	Black
GCC-006	6 Hole Cord Clips	3/bag	6	Black



FIRE BLOCKING

NEW FIRE-GARD FIRE BLOCKING FOAM

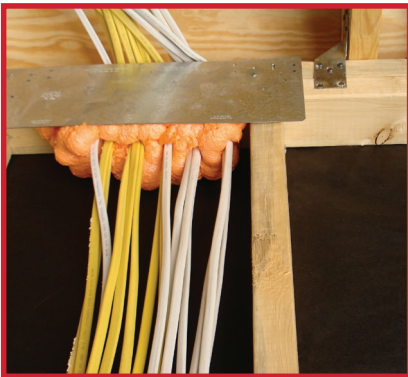
Fire-Gard fire blocking foam sealant is a ready to use polyurethane expanding foam for filling, insulating, and sealing openings to prevent the passage of smoke, flame and gases in single family residential construction. Consult with local compliance authorities before use.



- Easy to install, reducing labor costs.
- One can yields approximately 15 tubes of caulk, reducing material costs.
- Straw provided.
- Bright orange for ease of identification during inspection.
- NOT intended for use in hourly rated assemblies.
- Tested to ASTM E814 (Modified) or UL Recognized Fire block Alternative.
- Wide range of applications in electrical, HVAC and plumbing.
- Quick and easy installation reduces labor costs.



Part #	Pack Qty.	Size (H x W)	Color
FBF-112	10/box	8 in x 3-1/8 in / 20.3 cm x 7.9 cm	Black/Gray





NEW FIRE-GARD FIRE BLOCKING CAULK



Fire-Gard elastomeric intumescent firestop caulk covers a wide range of electrical, plumbing, HVAC applications for “Through Penetrations” found in up to 4 hour fire rated wood, gypsum and concrete floor & wall assemblies in order to resume the hourly rated.

Fire-Gard Caulk prevents gases, smoke, and flame from passing into adjacent areas integrity of those systems.

- Up to 4 hour rating.
- Identifiable red color
- Chemically compatible with PVC, CPVC, ABS, PEX tubing and other applicable penetrating items.
- 1/8 in (3.1 mm) bead covers 96.7 ft (29.47 m); 1/4 in (6.3 mm) bead covers 24.2 ft (7.37 m)
- ASTM-E814 & cULus 1479 certified



Part #	Pack Qty.	Size (H x W)	Color
FSC-1103	10/box	11-1/4 in x 1-15/16 in / 28.5 cm x 4.9 cm	White/Gray





CONDUIT BENDING

nVent GARDNER BENDER innovations have delivered the ultimate in job-site performance, durability and reliability since 1959.

nVent GARDNER BENDER provides a complete line of products to bend EMT, Rigid, IMC and PVC coated conduit.

Conduit Bending

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Conduit Bending



Conduit Bending



BENDING SELECTION GUIDE

Part # & Description

Combination Bending-Rigid, IMC, EMT Conduit	Page #	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
B1000 Portable Cyclone Bender	72	✓	✓	✓								
B2000 Cyclone Bender	70	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BRIG-52	80	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BEMT-52	80	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & IMC-52	80	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BPVC-152	80	✓	✓	✓	✓	✓	✓					
Ultra Eegor	74							✓	✓	✓	✓	
Combination Bending-Rigid, IMC, EMT Conduit	Page #	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
B1000 Portable Cyclone Bender	72	✓	✓	✓								
B2000 Cyclone Bender	70	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BRIG-52	80	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BEMT-52	80	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & IMC-52	80	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BPVC-152	80	✓	✓	✓	✓	✓	✓					
Ultra Eegor	74							✓	✓	✓	✓	
Rigid Conduit Bending	Page #	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
B1000 Portable Cyclone Bender	72	✓	✓	✓								
B2000 Cyclone Bender	70	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BRIG-52	80	✓	✓	✓	✓	✓	✓					
Ultra Eegor	74							✓	✓	✓	✓	
B316S One-Shot Bender	76	✓	✓	✓	✓	✓	✓					
B308S Combination One-Shot/Sweep Bender	76			✓	✓	✓	✓	✓	✓	✓	✓	
B340S One-Shot Bender	76				✓	✓	✓	✓	✓	✓	✓	
B359S Combination One-Shot/Sweep Bender	76				✓	✓	✓	✓	✓	✓	✓	✓
B306S Sweep/Segmental Bender	76				✓	✓	✓	✓	✓	✓	✓	
B343S One-Shot Eject-O-Matic Bender	77				✓	✓	✓	✓	✓	✓	✓	
Hand Benders - Big Ben	85	961	962									
EMT Conduit Bending	Page #	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
B1000 Portable Cyclone Bender	69	✓	✓	✓								
B2000 Cyclone Bender	66	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BEMT-52	76	✓	✓	✓	✓	✓	✓					
Ultra Eegor	70-71							✓	✓	✓	✓	
Hand Benders - Big Ben	84	960	961	962								
IMC Conduit Bending	Page #	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
B1000 Portable Cyclone Bender	72	✓	✓	✓								
B2000 Cyclone Bender	70	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & IMC-52	80	✓	✓	✓	✓	✓	✓					
Ultra Eegor	74							✓	✓	✓	✓	
PVC-Coated Rigid Conduit Bending	Page #	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
B1000 Portable Cyclone Bender	72	✓	✓	✓								
B2000 Cyclone Bender	70	✓	✓	✓	✓	✓	✓					
B2555 Sidewinder Bender & BPVC-152	80	✓	✓	✓	✓	✓	✓					
PVC Conduit Bending	Page #	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
HotBlanket Benders	87	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	



Conduit Bending



B2000

CONDUIT BENDERS

CYCLONE ELECTRIC-POWERED CONDUIT BENDER

One shoe bends 1/2 in - 2 in (1.2 cm - 5 cm) conduit with no loose parts:

- Rigid
- Rigid aluminum
- EMT
- IMC
- PVC-coated rigid (1/2 in to 1 1/2 in [12.7 mm to 38.1 mm])
- Easily make repeatable, duplicate bends.
- Horizontal and vertical positions allow the unit to create accurate offset bends.
- Four wheels increases mobility.
- Low-volt (95), high-volt (132) automatic shut-off helps protect electrical components from voltage fluctuations.
- Resettable circuit breaker eliminates down time changing fuses.
- On/Off switch allows user to shut machine down for extended periods of time.
- Hook attachment on pendant control frees hands while working with conduit.
- Minimal training time.
- Easy setup - No leveling or homing required before use.
- Weather-resistant cover included.
- 110/115 V AC, 15 AMP 1 HP DC Motor.
- Dimensions: 47 in x 33 in x 43 in (119.3 cm x 83.8 cm x 109.2 cm).
- Weight: 408 lbs (185 kg).

Part #	Description	Weight
B2000	Cyclone Electric-Powered Production Bender, 115 V / 15 A	408 lbs / 185 kg
B2005	Cover	
LK15	Decal Kit	

Centerline Radius Chart:

Conduit Size	IMC	PVC-Coated Rigid	EMT	Rigid
1/2 in / 12.7 mm	4 3/8 in / 11.1 cm	5 3/8 in / 13.6 cm	4 1/4 in / 10.7 cm	4 3/8 in / 11.1 cm
3/4 in / 19 mm	5 5/16 in / 13.4 cm	6 1/2 in / 16.5 cm	5 3/8 in / 13.6 cm	5 5/16 in / 13.4 cm
1 in / 25.4 mm	7/32 in / 0.5 cm	7 27/32 in / 19.9 cm	6 1/2 in / 16.5 cm	6 7/32 in / 15.7 cm
1 1/4 in / 31.7 mm	7 23/32 in / 19.6 cm	8 3/8 in / 21.2 cm	7 27/32 in / 19.9 cm	7 23/32 in / 19.6 cm
1 1/2 in / 38.1 mm	8 7/32 in / 20.8 cm	N/A	8 3/8 in / 21.2 cm	8 15/64 in / 20.9 cm
2 in / 50.8 mm	9 15/32 in / 24.1 cm	N/A	9 21/32 in / 24.5 cm	9 29/64 in / 24.0 cm



Bending can be performed in the horizontal or vertical position.



Easy dial settings-makes training time virtually non-existent.

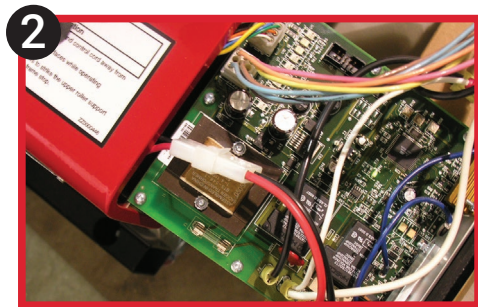
Conduit Bending



1
**Ergonomic
Pendant Control**
Ease of operation



5
Stronger Upright Handle
Ease of use



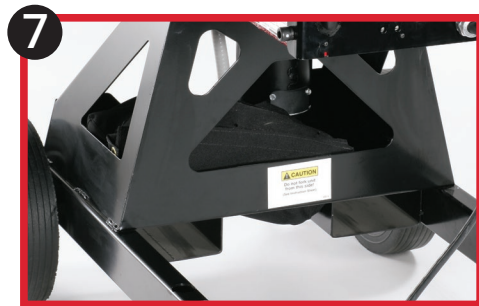
2
**Circuit Board &
Circuit Verification Phase**
Guarantees operation



6
Fork Lift Tubes & Hook
Allows lifting &
transport capability



3
Stronger Legs
Increased durability
(10x life test)



7
Storage Area
Storage for tools, etc...
while in use



4
Larger Tires/Wheels
Increased mobility



8
Central Pivot Point
Balanced pivoting for easy switching
between horizontal and vertical position.



Conduit Bending

PORTABLE CYCLONE POWERED RIGID, IMC, & EMT CONDUIT BENDER

Bends 1/2 in (12.7 mm) to 1 in (25.4 mm) conduit:

- Rigid
- EMT
- IMC
- Rigid aluminum (schedule 40 max)
- EMT Aluminum
- PVC-coated rigid (1/2 in to 3/4 in [12.7 mm to 19 mm])

No additional attachment sets required to change per pipe or conduit type.

- Powered bending - Precise, repeatable bends for early stage apprentices. Takes the guess work out of bend angles.
- Attaches to almost any pipe threader to use as a bending power source
- Consistent bends for larger jobs
- Save time on the job site - More efficient than using a hand bender. Makes a 90° bend in less than 10 seconds
- Easy setup and operation – Use the lever adjustment on rear of bender to adjust the level of the conduit before the bend
- Bend radius to NEC requirements
- Replacement for large and clunky mechanical benders. (Takes up less room in a service van/truck). No more running conduit through a jobsite.
- Bend conduit vertically or horizontally – Install your own 3/4 in (19 mm) threaded legs to create a longer stand
- Small and lightweight – Easy to carry around the jobsite
- 1 shoe for all sizes – no spare parts to carry around
- B1000S Pendant included to make accurate bends with easy operation
- Dimensions: Approx. 20.2 in (51.3 cm) length, 15.9 in (40.3 cm) width, 12.2 in (30.9 cm) height
- Weight: 35 lbs (15.8 kg)



Patent Pending

1 YEAR WARRANTY

Part #	Description	Weight
B1000	Portable Cyclone w/ Control Pendant	35 lbs / 15.8 kg
PT200	Power Driver	18 lbs / 8.1 kg
B1000PT	Portable Cyclone and Power Driver w/ Control Pendant	53 lbs / 24 kg

CONDUIT BENDING CAPACITY

Type	Size		
	1/2 in / 12.7 mm	3/4 in / 19 mm	1 in / 25.4 mm
EMT	✓	✓	✓
Rigid	✓	✓	✓
PVC-Coated Rigid	✓	✓	✓
IMC	✓	✓	✓
Rigid Aluminum	✓	✓	✓
EMT Aluminum	✓	✓	✓



Make accurate bends with easy to read angle decal.



Pipe threader serves as the power source for bending.



Portable Cyclone can also perform horizontal bends.

Conduit Bending

Single shoe design for bending multiple conduit types - no loose parts.



**90° RIGID Bends...
IN UNDER 10 SEC.**

Pipe threader serves as the power source for the bender.

Angle lever to adjust the angle of the Portable Cyclone up to 20°

Durable leg stand extends to provide stability.

Easily transport the Portable Cyclone by the 3/4 in (19 mm) legs



Create a stand using 3/4 in (19 mm) conduit by unscrewing the Portable Cyclone's legs.

Quickly repeat bends with the easy to read angle decal.

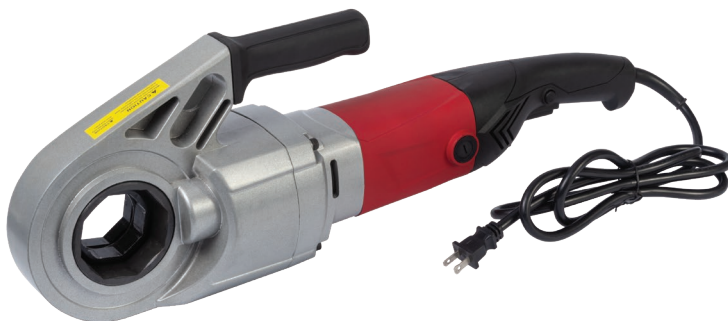
ACCESSORIES



- A pendant controller is included to make accurate bends with easy operation.



Portable Cyclone is compatible with 11-R and 12-R die headed threaders.



Purchase the nVent GARDNER BENDER PT200 Power Driver or use your own pipe threader. Includes a durable blow mold carrying case. The Portable Cyclone is also compatible with most pipe threaders on the market including Ridgid® or Milwaukee® threaders.



Scan this QR code to be taken to a video and see the Portable Cyclone in action!





Conduit Bending

IMPROVED ULTRA EEGOR HYDRAULIC BENDER AND MOBILE BEND-MATE



Bends 2 1/2 in (6.3 cm) to 4 in (10.1 cm) conduit:

- Rigid
- EMT
- Rigid aluminum (schedule 40 max)
- IMC

No additional attachment sets required to change per pipe or conduit type.

- 30 ton (27.2 metric ton), 28 in (71.1 cm) stroke cylinder can make a 90° bend with one pass.
- Double-acting cylinder for rapid retraction, regardless of hose lengths and system losses.
- Improved shoes and follow bars to reduce conduit kinking during bending.
- Hydraulic power ensures the smoothest bends without deformations to the conduit.
- Constant radii follow bars eliminate the need for special calculations.
- Conduit is automatically stripped free from the shoe during the return cycle-which ensures no extra labor or damaged conduit.
- Angle markings on frame ensure easy and accurate bending.
- Additional workspace on bend table.
- Using the Eegor Hydraulic Bender with the MB400 table will help reduce labor costs and physical strain.



Centerline Radius Chart:

Nominal Size	IMC	EMT	Rigid
2 1/2 in / 6.3 cm	13 1/2 in / 34.2 cm	13 1/2 in / 34.2 cm	13 1/2 in / 34.2 cm
3 in / 7.6 cm	15 7/8 in / 40.3 cm	15 7/8 in / 40.3 cm	15 7/8 in / 40.3 cm
3 1/2 in / 8.8 cm	18 1/2 in / 46.9 cm	18 1/2 in / 46.9 cm	18 1/2 in / 46.9 cm
4 in / 10.1 cm	21 in / 53.3 cm	21 in / 53.3 cm	21 in / 53.3 cm



See page 81-82
For more info on
Electric Pumps

Part #	Description	Pump	Table or Job Box	Weight
MB400	Mobile Bend-Mate Table Only	Not Included	Table	308 lbs / 139.7 kg
MB400L	Ultra Eegor with Mobile Bend-Mate Table with Complete Shoe Groups	Not Included	Table	1093 lbs / 495.7 kg
MB400LP	Ultra Eegor with Mobile Bend-Mate Table with Complete Shoe Groups	P408S Electric	Table	1178 lbs / 534.3 kg
MB400DL	Ultra Eegor with Mobile Bend-Mate Table w/o 3.5 in (8.8 cm) shoe group	Not Included	Table	968 lbs / 439 kg
MB400DLP	Ultra Eegor with Mobile Bend-Mate Table w/o 3.5 in (8.8 cm) shoe group	P408S Electric	Table	1053 lbs / 477.6 kg

Conduit Bending



Components Included with the Long-stroke Ultra Eegor Bender

Part #	Conduit	Description	Weight	I.D. #
BS2500	2 1/2 in / 6.3 cm	Bending Shoe	44 lbs / 19.9 kg	1
BS3000	3 in / 7.6 cm	Bending Shoe	50 lbs / 22.6 kg	2
BS3500*	3 1/2 in / 8.8 cm	Bending Shoe	75 lbs / 34 kg	3
BS4000	4 in / 10.1 cm	Bending Shoe	90 lbs / 40.8 kg	4
BFB2500	2 1/2 in / 6.3 cm	Follow Bar	34 lbs / 15.4 kg	5
BFB3000	3 in / 7.6 cm	Follow Bar	35 lbs / 15.8 kg	6
BFB3500*	3 1/2 in / 8.8 cm	Follow Bar	42 lbs / 19 kg	7
BFB4000	4 in / 10.1 cm	Follow Bar	40 lbs / 18.1 kg	8
BZ28	2 1/2 in / 6.3 cm	U-strap	5 lbs / 2.2 kg	9
BZ34	3 in / 7.6 cm	U-strap	5 lbs / 2.2 kg	10
BZ39*	3 1/2 in / 8.8 cm	U-strap	8 lbs / 3.6 kg	11
BZ44	4 in / 10.1 cm	U-strap	10 lbs / 4.5 kg	12
BZ76	-	U-strap Pin	4 lbs / 1.8 kg	13
BZ78	-	Bend Shoe Pin	4 lbs / 1.8 kg	14
ZCD3028	-	30-Ton, Double-Acting Hyd. Cyl.	95 lbs / 43 kg	15
HC927	-	(2) 10' Hose w/High-Flow Coupler	4 lbs / 1.8 kg	16
BZ74	-	Double Anchor Frame Pin	66 lbs / 29.9 kg	17
CM20	-	Metal Case for Ultra Eegor	182 lbs / 82.5 kg	-

*These parts are not included with MB400DL and MB400DLP.

MOBILE BEND-MATE

The Mobile Bend-Mate table with your Ultra Eegor bender empowers one person to setup, operate and finish a job faster than ever. As soon as you're ready, lock down the wheels and get to work. You have everything you need at your fingertips. Your Ultra Eegor bending shoes, follow bars and pump are integrated into a unique design to optimize setup and teardown time on the job site. When one job is complete, the Mobile Bend-Mate makes it easy to move from one location to the next. Four heavy duty swivel casters pivot in any direction to help you wheel the entire system just about anywhere since it fits through a standard 32 in (81.2 cm) doorway. Built-in forklift pockets are available for lifting on all four sides. And the end of the work day, the Mobile Bend-Mate is designed so you can easily secure shoes, follow bars, pump and bender on the job site.

- Eliminates need for Job Box.
- Extremely fast setup time.
- To be used with Ultra Eegor Conduit Bender.
- Backward compatible with all Ultra Eegor Benders.



MB400

Bend Angle Decals Available

	Short Stroke Cylinder	Long Stroke Cylinder
Old Shoes (pre-2005)	DC400	DC400
New Shoes (post-2005)	DC404	DC405



Conduit Bending

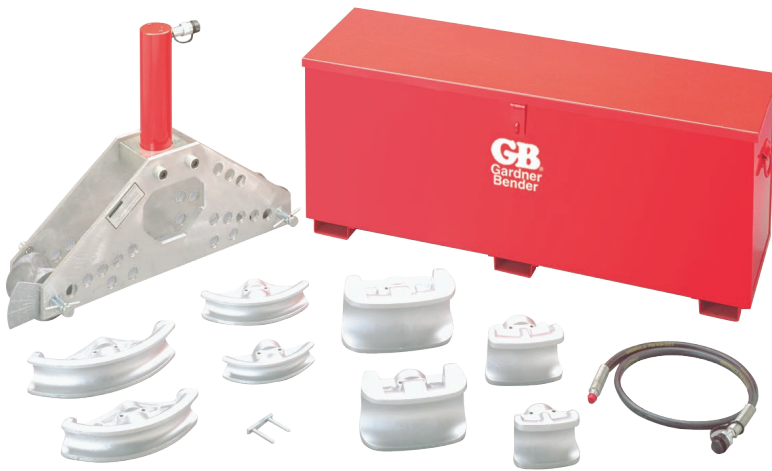
ONE-SHOT AND SWEEP RIGID STEEL AND RIGID ALUMINUM HYDRAULIC BENDERS

nVent GARDNER BENDER Rigid Benders are made with high-grade aluminum for durability, and interchangeable shoes that allow quick and precise bends.

- Portable hand pump or economical electric pump options.
- Durable metal job box included.
- Optic angle gauge for quick references of bend progression.
- Ability to be powered by single-acting manual or electric pumps.
- Ability to produce sweep bends where several bending stages are necessary.
- Capability of one-shoe bending for elbows.

tip:

Hydraulic benders are for use on Rigid conduit only.



B308S

Part #	Description	Weight	w/ Pump Part #	Description	Weight	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
B306S	1 1/4 in - 4 in Sweep	216 lbs / 97.9 kg	B306SPH80	1 1/4 in - 4 in Sweep w/ PH80 Hand Pump	243 lbs / 110.2 kg				Sweep							
				225 lbs / 102 kg	1 1/4 in - 4 in Sweep w/ PE22J Electric Pump	230 lbs / 104.3 kg										
B308S	1 in - 2 in One-shot / 2 1/2 in - 4 in Sweep Combination	225 lbs / 102 kg	B308SPH80	1 in - 2 in One-shot / 2 1/2 in - 4 in Sweep Combo w/ PH80 Hand Pump	253 lbs / 114.7 kg			One Shot		Sweep						
				B308SPE22J	1 in - 2 in One-shot / 2 1/2 in - 4 in Sweep Combo w/ PE22J Elec. Pump	340 lbs / 154.2 kg										
B316S	1/2 in - 2 in One-shot Rigid Bender	104 lbs / 47.1 kg	B316SPE22J	1/2 in - 2 in One-shot Rigid Bender w/ PE22J Electric Pump	160 lbs / 72.5 kg	One Shot										
B340S	1 1/4 in - 4 in One-shot Rigid Bender	334 lbs / 151.4 kg	B340SPH80	1 1/4 in - 4 in One-shot Rigid Bender w/ PH80 Hand Pump	350 lbs / 158.7 kg				One Shot							
				B340SPE22J	1 1/4 in - 4 in One-shot Rigid Bender w/ PE22J Electric Pump	390 lbs / 176.9 kg										

Conduit Bending



EJECT-O-MATIC RIGID STEEL AND RIGID ALUMINUM HYDRAULIC BENDERS

Bend 1 1/4 in to 4 in (3.1 cm to 10.1 cm) rigid steel or rigid aluminum conduit in one shot and 5 in (12.7 cm) sweep.

Eject-O-Matic feature retains conduit with a T-pin while bending shoe is hydraulically retracted. Once complete, the conduit automatically pops free.


- Automatic ejection saves time and money.
- Choice of hand or electric pumps.
- Durable metal job box included.
- Ability to be powered by double-acting manual or electric pumps.




B343S

Part #	Description	Weight	w/ Pump Part #	Description	Weight	1/2 in / 1.2 cm	3/4 in / 1.9 cm	1 in / 2.5 cm	1 1/4 in / 3.1 cm	1 1/2 in / 3.8 cm	2 in / 5 cm	2 1/2 in / 6.3 cm	3 in / 7.6 cm	3 1/2 in / 8.8 cm	4 in / 10.1 cm	5 in / 12.7 cm
B343S	1 1/4 in - 4 in One-shot	330 lbs / 149.6 kg	B343SP408S	1 1/4 in - 4 in One-shot w/ P408S Electric Pump	132 lbs / 59.8 kg				One Shot							


tip: Required double acting (two hose) cylinders provide controlled and powerful bending and return functions.



See page 81-82
For more info on
Electric Pumps



See page 83
For more info on
Manual Pumps



See page 84
For more info on
Cylinders



Conduit Bending

Centerline Radius Chart:

Nominal Size	Rigid Radius	Nominal Size	Rigid Radius
1/2 in / 1.2 cm	3 5/16 in / 8.4 cm	2 in / 5 cm	9 1/2 in / 24.1 cm
3/4 in / 1.9 cm	4 1/2 in / 11.4 cm	2 1/2 in / 6.3 cm	10 1/2 in / 26.6 cm
1 in / 2.5 cm	5 13/16 in / 14.7 cm	3 in / 7.6 cm	13 in / 33 cm
1 1/4 in / 3.1 cm	7 1/4 in / 18.4 cm	3 1/2 in / 8.8 cm	17 1/2 in / 44.4 cm
1 1/2 in / 3.8 cm	8 1/4 in / 20.9 cm	4 in / 10.1 cm	20 in / 50.8 cm

Hydraulic Bender Model Components				Component Included with Hydraulic Bender				
Component	Specification	Part #	Weight	B306S	B308S	B316S	B340S	B343S
Bending Shoe	1/2 in / 1.2 cm	BZ12011	1 lb / 0.4 kg			✓		
	3/4 in / 1.9 cm	BZ12021	1 lb / 0.4 kg			✓		
	1 in / 2.5 cm	BZ12031	2 lbs / 0.9 kg		✓	✓		
	1 1/4 in / 3.1 cm	BZ12041	4 lbs / 1.8 kg		✓	✓	✓	✓
	1 1/2 in / 3.8 cm	BZ12051	5 lbs / 2.2 kg		✓	✓	✓	✓
	2 in / 5 cm	BZ12061	7 lbs / 3.1 kg		✓	✓	✓	✓
	2 1/2 in / 6.3 cm	-	-				✓	✓
	3 in / 7.6 cm	BZ12351	-				✓	✓
	3 1/2 in / 8.8 cm	-	-				✓	✓
4 in / 10.1 cm	-	-				✓	✓	
Sweep Bending Shoe	1/2 in / 1.2 cm	-	-					
	1 in / 2.5 cm	-	-					
	1 1/4 in / 3.1 cm	BZ12379	2 lbs / 0.9 kg	✓				
	1 1/2 in / 3.8 cm	BZ12380	2 lbs / 0.9 kg	✓				
	2 in / 5 cm	BZ12381	3 lbs / 1.3 kg	✓				
	2 1/2 in / 6.3 cm	BZ12382	4 lbs / 1.8 kg	✓	✓			
	3 in / 7.6 cm	BZ12383	5 lbs / 2.2 kg	✓	✓			
	3 1/2 in / 8.8 cm	BZ12384	9 lbs / 4 kg	✓	✓			
4 in / 10.1 cm	BZ12385	12 lbs / 5.4 kg	✓	✓				
5 in / 12.7 cm	BZ12386	18 lbs / 8.1 kg						
Single-Acting Cylinder	10-ton / 9-metric-ton	CS1010*	13 lbs / 5.8 kg			✓		
	25-ton / 22.6-metric-ton	-	31 lbs / 14 kg	✓	✓			
	25-ton / 22.6-metric-ton	-	31 lbs / 14 kg				✓	
	30-ton / 27.2-metric-ton	CD3014**	31 lbs / 14 kg					✓
(2) Pivot Shoes	-	BZ12071	1 lb / 0.4 kg			✓		
	-	BZ12388	10 lbs / 4.5 kg					
	-	BZ13401	4 lbs / 1.8 kg	✓	✓		✓	✓
Angle Gauge	-	BZ12091	.5 lbs / 0.2 kg		✓	✓	✓	✓
(2) Pivot Pins	-	BZ12375	1 lb / 0.4 kg			✓		
	-	BZ12376	4 lbs / 1.8 kg	✓	✓		✓	✓
	-	BZ12390	4 lbs / 1.8 kg					
Bender Frame	-	BZ12371	25 lbs / 11.3 kg			✓		
	-	BZ12372	54 lbs / 24.4 kg	✓	✓			
	-	BZ12374	63 lbs / 28.5 kg				✓	✓
	-	BZ12389	85 lbs / 38.5 kg					
Shoe Lock Pin	-	BZ12377	.25 lbs / 0.1 kg	✓	✓	✓	✓	✓
6 ft (1.82 m) Hose	-	HC913	3 lbs / 1.3 kg	✓	✓	✓	✓	✓
Metal Case	-	-	56 lbs / 25.4 kg			✓		
	-	CM7	98 lbs / 44.4 kg	✓	✓		✓	✓

*Must order A12 Smooth Saddle, see pg. 19

**Must order A29 Smooth Saddle, see pg. 19

Conduit Bending



ONE-SHOT BENDER CAPACITIES CHART

One Shot / Sweep / Segmental

This chart is meant as a guide for bending capabilities only.
For those instances where doubt exists, a trial bend is recommended.

Pipe Size	Outside Dia.	Wall Thick.	Sched. Pipe	Part#			
				B316S	B308S	B306S B340S B343S	B351S
1/2 in / 1.2 cm	.840 in / 21.3 mm	.108 in / 2.7 mm	40	✓	✓	WS	WS
		.147 in / 3.7 mm	80	✓	✓	WS	WS
		.187 in / 4.7 mm	160	WS	WS	WS	WS
		.294 in / 7.4 mm	DEH	WS	WS	WS	WS
3/4 in / 1.9 cm	1.050 in / 26.6 mm	.113 in / 2.8 mm	40	✓	✓	WS	WS
		.154 in / 3.9 mm	80	✓	✓	WS	WS
		.218 in / 5.5 mm	160	WS	WS	WS	WS
		.308 in / 7.8 mm	DEH	WS	WS	WS	WS
1 in / 2.5 cm	1.315 in / 33.4 mm	.133 in / 3.3 mm	40	✓	✓	WS	WS
		.179 in / 4.5 mm	80	✓	✓	WS	WS
		.250 in / 6.3 mm	160	WS	WS	WS	WS
		.358 in / 9 mm	DEH	NR	WS	WS	WS
1 1/4 in / 3.1 cm	1.660 in / 42.1 mm	.140 in / 3.5 mm	40	✓	✓	✓	✓
		.191 in / 4.8 mm	80	✓	✓	✓	✓
		.250 in / 6.3 mm	160	WS	WS	✓	✓
		.342 in / 8.6 mm	DEH	NR	WS	WS	WS
1 1/2 in / 3.8 cm	1.900 in / 48.2 mm	.145 / 3.6 mm	40	✓	✓	✓	✓
		.200 in / 5 mm	80	✓	✓	✓	✓
		.281 in / 7.1 mm	160	WS	WS	✓	✓
		.400 in / 10.1 mm	DEH	NR	WS	WS	WS
2 in / 5 cm	2.375 in / 60.3 mm	.154 in / 3.9 mm	40	✓	✓	✓	✓
		.218 in / 5.5 mm	80	NR	✓	✓	✓
		.343 in / 8.7 mm	160	NR	WS	✓	✓
2 1/2 in / 6.3 cm	2.875 in / 73 mm	.203 in / 5.1 mm	40	NR	✓	✓	✓
		.276 in / 7 mm	80	NR	WS	✓	✓
		.375 in / 9.5 mm	160	NR	WS	✓	✓
3 in / 7.6 cm	3.500 in / 88.9 mm	.216 in / 5.4 mm	40	NR	✓	✓	✓
		.300 in / 7.6 mm	80	NR	WS	✓	✓
3 1/2 in / 8.8 cm	4.000 in / 101.6 mm	.226 in / 5.7 mm	40	NR	✓	✓	✓
		.318 in / 8 mm	80	NR	WS	✓	✓
4 in / 10.1 cm	4.500 in / 114.3 mm	.237 in / 6 mm	40	NR	✓	✓	✓
		.337 in / 8.5 mm	80	NR	NR	✓	✓
5 in / 12.7 cm	5.563 in / 141.3 mm	.258 in / 6.5 mm	40	NR	NR	NR	✓
		.375 in / 9.5 mm	80	NR	NR	NR	✓

***Schedule Pipe:**

- 40 = Standard/Rigid
- 80 = Extra Duty
- 160 = Double Extra Duty
- DEH = Double Extra Heavy (slightly thicker than 160)

Other:

- NR = Not Recommended
- WS = Can be bent using wider spacing for swivel shoes



Conduit Bending



B2555

SIDEWINDER ELECTRIC BENDER

Bends 1/2 in (12.7 mm) to 2 in (50.8 mm) conduit:

- Rigid
- IMC
- PVC-coated rigid 40 mil [1.01 mm]
- Rigid aluminum (schedule 40 max.)
- EMT conduit
- Up to 180 degree one-shot bends in 1/2 in (12.7 mm) through 2 in (50.8 mm) conduit.
- The handle detaches and pivots out of the way for offset bending.
- Competitor shoes are interchangeable (Greenlee, Current, etc.).
- 110/115 V AC
- 20 AMP

Centerline Radius Chart:

Conduit Size	EMT	IMC	Rigid
1/2 in / 1.2 cm	4 1/4 in / 11.4 cm	4 3/8 in / 11.1 cm	4 3/8 in / 11.1 cm
3/4 in / 1.9 cm	5 3/8 in / 13.6 cm	4 1/2 in / 11.4 cm	4 1/2 in / 11.4 cm
1 in / 2.5 cm	6 3/4 in / 17.1 cm	5 3/4 in / 14.6 cm	5 3/4 in / 14.6 cm
1 1/4 in / 3.1 cm	8 3/4 in / 22.2 cm	7 1/4 in / 18.4 cm	7 1/4 in / 18.4 cm
1 1/2 in / 3.8 cm	8 9/32 in / 21 cm	8 9/32 in / 21 cm	8 1/4 in / 20.9 cm
2 in / 5 cm	9 9/16 in / 24.2 cm	9 9/16 in / 24.2 cm	9 1/2 in / 24.1 cm

note: Bender & Shoe Groups can be purchased as a kit or individually.

Part #	Description	Capacity/Range	Weight
B2555	Sidewinder Electric w/o Shoes	—	270 lbs / 122.4 kg
B2555RIG	Sidewinder Electric w/ Rigid Shoe Group	1/2 in - 2 in / 1.2 cm - 5 cm Rigid and 1/2 in - 1 1/4 in / 1.2 cm - 3.1 cm IMC conduit	365 lbs / 165.5 kg
B2555EMT	Sidewinder Electric w/ EMT Shoe Group	1/2 in / 1.2 cm - 2 in / 5 cm EMT conduit	430 lbs / 195 kg

ELECTRIC SHOE GROUPS

Component	Conduit Size	Shoe Group Part #							
		BRIG-52		BEMT-52		BPVC-52			
		Conduit Type							
		Rigid and IMC		Rigid		EMT		PVC-Coated Rigid	
		Part #	Weight	Part #	Weight	Part #	Weight	Part #	Weight
Bending Shoe	1/2 in / 1.2 cm & 1 1/4 in / 3.1 cm	RS-5125	43 lbs / 19.5 kg			✓	24 lbs / 10.8 kg	✓	43 lbs / 19.5 kg
	1 1/2 in / 3.8 cm					✓	23 lbs / 10.4 kg		
	1 1/2 in / 3.8 cm & 2 in / 5 cm			✓	36 lbs / 16.3 kg			✓	36 lbs / 16.3 kg
	2 in / 5 cm					✓	31 lbs / 14 kg		
Support Unit/Roller	1/2 in / 1.2 cm & 1 1/4 in / 3.1 cm	✓	8 lbs / 3.6 kg			✓	6 lbs / 2.7 kg	✓	8 lbs / 3.6 kg
	1 1/2 in / 3.8 cm & 2 in / 5 cm			RSR-152	6 lbs / 2.7 kg	✓	40 lbs / 18.1 kg	✓	6 lbs / 2.7 kg
Metal Storage Box	—					✓			



Double-Acting Pump
P408S
1.7 HP Pump



PUMPS

Z-CLASS ELECTRIC PUMPS

Introducing nVent GARDNER BENDER Z-Class hydraulic pumps – pumps that run cooler, use less electricity and are easier to service than conventional pumps. nVent GARDNER BENDER has used the latest metallurgical, bearing and seal technologies to produce a pump whose features and benefits far surpass the electric pumps that are available today. By reducing the number of moving parts, improving flow dynamics and decreasing friction, Z-Class pumps will stay on the job longer, require less energy to operate and when needed, have lower service costs.

- Two-speed high-efficiency pumps.
- Self-priming, high-flow 1st stage pump.
- Large, heavy-duty bearings and balanced rotating components.
- Replaceable piston check-valves.
- Powerful universal motor and excellent low-voltage operating.
- Brush design lasts 4-times longer.
- Ergonomic high strength composite.

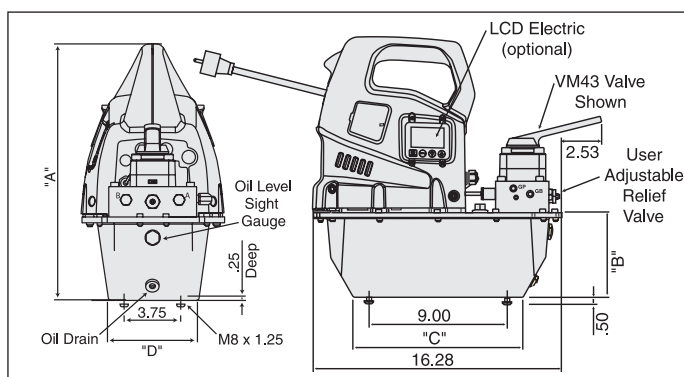
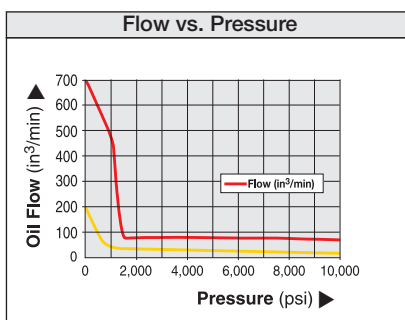
	P408S	P408K
Motor Size	1.7hp	1.7hp
Type	Z-Class	Z-Class
Reservoir Capacity	1 gallon	2 gallon
LCD Display	Yes	No
Pendant Control	Yes	No
Valve Operation	Solenoid	Manual
Pump Type	double-acting	double-acting
Pressure Rating	1st stage (psi)	100
	2nd stage (psi)	10,000
Output Flow Rate	1st stage (in ³ /min)	700
	2nd stage (in ³ /min)	60
Valve Type	4 way/3 pos.	4 way/3 pos.
Current Draw (max) (Amps)	20	20
Motor Voltage (VAC)	115	115
Sound (dba)	85-90	85-90
Weight	85 lbs / 38.5 kg	71 lbs / 32.2 kg
Relief Valve Adj. Range (psi)	2,000-10,000	2,000-10,000



BACK-LIT LCD

Provides essential information:

- Hour & cycle counts
- Low voltage warning
- Self-test, diagnostic and read-out capabilities
- Pressure read-out and adjustable trigger pressure settings
- Information displayed in 6 languages.





Conduit Bending

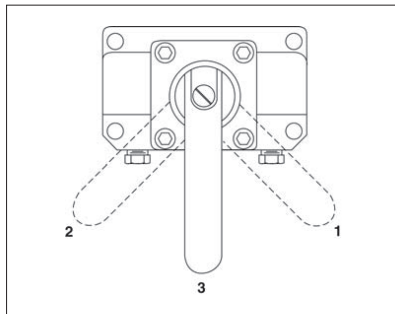
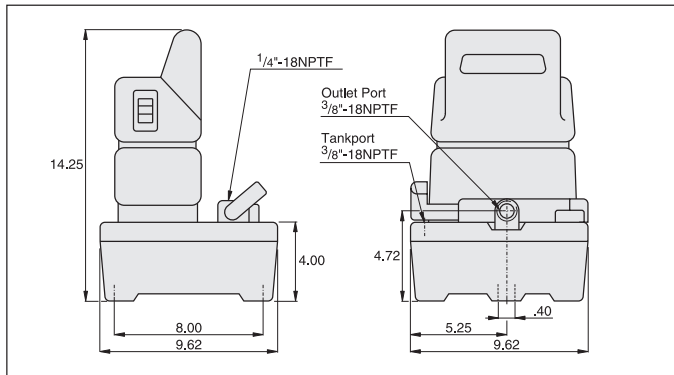
Single-Acting Pump
PE22J
1/2 HP Pump



ECONOMY ELECTRIC PUMP

- Lightweight - 22 - 41 lbs (9.9 kg - 18.5 kg).
- 115 V AC 50/60 cycle universal motor works well with long extension cords or generator-driven power.
- Long 10 ft (3.04 m) remote control for operator safety.
- Great for medium-sized cylinders.

		PE22J
Motor Size		1/2 hp
Type		Economy
Reservoir Capacity		1 gal / 3.7 L
Pump Type		Single-Acting
Pressure Rating	1st stage (psi)	200
	2nd stage (psi)	10,000
Output Flow Rate	1st stage (in ³ /min)	200
	2nd stage (in ³ /min)	20
Valve Type		3 way/2 pos.
Current Draw (Amps)		9.5
Motor Voltage (VAC)		115
Sound (dba)		85
Weight		27 lbs / 12.2 kg



PE22J 3-Way Valve

The pump control valve directs hydraulic fluid output or return from the hydraulic system components.

This model has a 3-way, 2 position valve. Valve positions are shown in the image:

(1)-Advance; (3)-Retract.

To advance the cylinder, shift the valve to the advance position (1) and press the pendant switch. The cylinder will advance until the pendant switch is released. To retract the cylinder, shift the valve to the retract position (3). The cylinder will retract with or without the pump running.

Conduit Bending



MANUAL HYDRAULIC PUMPS

Durable manual pumps utilized with nVent GARDNER BENDER hydraulic bender sets.

- PH39 and PH80 models feature two-speed action for faster cylinder cycle time.
- PH20 has economical single-speed design.
- All pumps contain internal high-pressure relief overload protection.

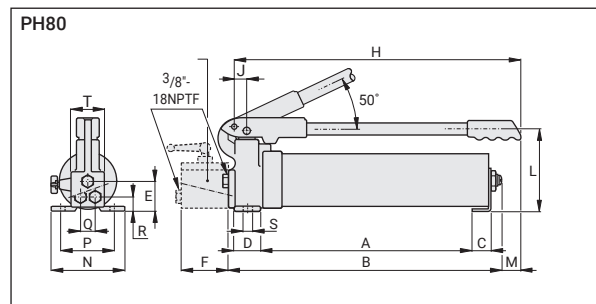
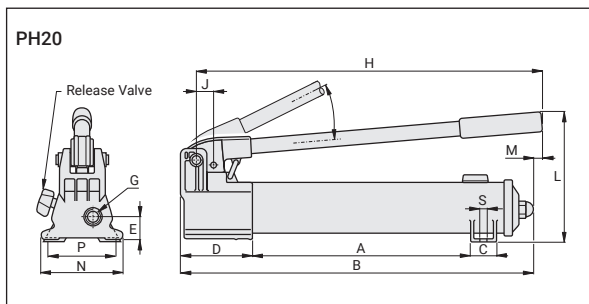


Manual Pump
PH20



Manual Pump
PH80

	PH20	PH80
Pump Type	Single-Speed	Two-Speed
Usable Oil Capacity - in ³ / cm ³	20 / 50.8	134 / 340.3
Pressure Rating	1st stage (psi)	350
	2nd stage (psi)	10,000
Oil Displ. per Stroke	1st stage - in ³ / mm ³	.99 / 25.1
	2nd stage - in ³ / mm ³	.15 / 3.8
Max. Handle Effort	72 lbs / 32.6 kg	104 lbs / 47.1 kg
Dimensions - in / cm		
A	7.31 / 18.5	16.75 / 42.5
B	13.25 / 33.6	21.22 / 53.8
C	1.13 / 2.8	1.00 / 2.5
D	3.37 / 8.5	1.75 / 4.4
E	1.13 / 2.8	2.13 / 5.4
F	-	-
H	12.56 / 31.9	20.75 / 52.7
J	.75 / 1.9	1.14 / 2.8
L	5.63 / 14.3	6.88 / 17.4
M	-	.75 / 1.9
N	3.75 / 9.5	5.75 / 14.6
P	3.18 / 8	4.76 / 12
Q	-	-
R	-	.83 / 2.1
S	-	.31 / 0.7
T	-	-
Weight	4.5 lbs / 2 kg	24 lbs / 10.8 kg





Conduit Bending

HYDRAULIC CYLINDER SPECIFICATIONS

		CH1211	CS1010	CS2510	CD3014
Cylinder Capacity (push)		12.00	10.00	25.00	30.00
Stroke - in / cm		1.63 / 4.1	10.13 / 25.7	10.25 / 26	14.50 / 36.8
Max Cylinder Capacity - tons / metric tons	Pull	-	-	-	5.00 / 4.5
Cylinder Effective Area - in ² / cm ²	Push	2.77 / 7	2.23 / 5.6	5.15 / 13	6.51 / 16.5
Cylinder Effective Area - in ² / cm ²	Pull	-	-	-	3.00 / 7.6
Oil Capacity - in ³ / cm ³	Push	4.52 / 11.4	22.59 / 57.3	52.79 / 134	92.7 / 235.4
Oil Capacity - in ³ / cm ³	Pull	-	-	-	43.00 / 109.2
Collapsed Height - in / cm	A	4.75 / 12	13.75 / 34.9	14.75 / 37.4	21.63 / 54.9
Extended Height - in / cm	B	6.38 / 16.2	23.88 / 60.6	25.00 / 63.5	36.13 / 91.7
Outside Diameter - in / cm	D	2.75 / 6.9	2.25 / 5.7	3.38 / 8.5	4.00 / 10.1
Cylinder Bore Diameter - in / cm	E	2.13 / 5.4	1.69 / 4.2	2.56 / 6.5	2.88 / 7.3
Plunger Diameter - in / cm	F	1.38 / 3.5	1.50 / 3.8	2.25 / 5.7	2.13 / 5.4
Cyl. Base to Advance Port - in / cm	H	0.75 / 1.9	0.75 / 1.9	1.00 / 2.5	1.56 / 3.9
Top to Ret. Port - in / cm	I	-	-	-	3.19 / 8.1
Saddle Diameter - in / cm	J	-	1.38 / 3.5	2.00 / 5	2.00 / 5
Saddle Protr. from Plunger - in / cm	K	-	0.25 / 0.6	0.41 / 1	0.41 / 1
Plunger Internal Thread - in / cm	O	3/4-16 / 1.9-40.6	1-8 / 2.5-20.3	1 1/2-16 / 3.8-40.6	1 1/2-16 / 3.8-40.6
Plunger Thread Length - in / cm	P	0.63 / 1.6	0.75 / 1.9	1.00 / 2.5	1.00 / 2.5
Base Mounting Holes	Bolt Circle Diameter - in / cm	-	1.56 / 3.9	2.31 / 5.8	-
	Thread - in / cm	-	5/16-18 / 0.7-45.7	1/2-13 / 1.2-33	-
	Thread Depth - in / cm	-	.50 / 1.2	.75 / 1.9	-
Collar Thread - in / cm	W	2 3/4-16 / 6.9-40.6	2 1/4-14 / 5.7-35.5	3 5/16-12 / 8.4-30.4	3 5/16-12 / 8.4-30.4
Collar Thread Length - in / cm	X	1.19 / 3	1.13 / 2.8	1.94 / 4.9	1.94 / 4.9
Center Hole Diameter - in / cm	Y	0.77 / 1.9	-	-	-
Weight - lbs / kg		6.2 / 2.8	14.00 / 6.3	31.00 / 14	64.00 / 29
Rating - tons / metric tons		12 / 10.8	10 / 9	25 / 22.6	30 / 27.2
Saddle (sold separately) - ton / metric tons		12 / 10.8	10 / 9	25 / 22.6	30 / 27.2

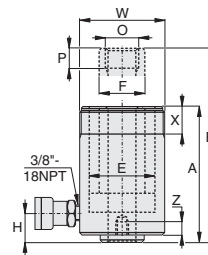


CD3014

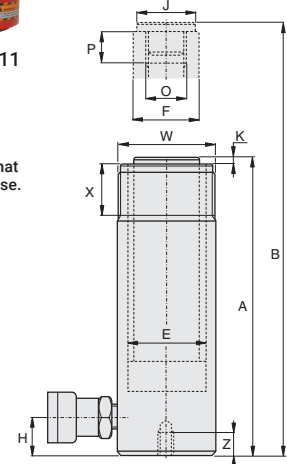


CH1211

CH1211 has a 1.88 in (4.7 cm) diameter base that protrudes .25 in (0.6 cm) from base.



CH1211 model



CS1010 model

HYDRAULIC BENDER ACCESSORIES

Quality accessories to increase bending efficiency.

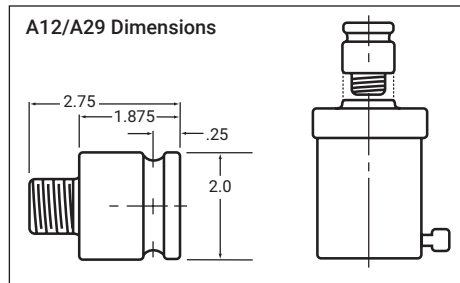
Hoses and Oil

Part #	Description	Weight
H864	6 ft Rubber Hydraulic Hose w/ 1/4 in coupler	2 lbs / 0.9 kg
HC913	6 ft Rubber Hydraulic Hose w/ 3/8 in coupler	3 lbs / 1.3 kg
HC927	10 ft Rubber Hydraulic Hose w/ 3/8 in coupler	4 lbs / 1.8 kg
HF101	Hydraulic Oil, Gallon—ISO Grade 32	8 lbs / 3.6 kg



H864

A12/A29 Dimensions



Smooth Saddles

Part #	For Use With	2A Thread	Weight
A12	10-ton Cylinders	1 - 8 UNC	5 lbs / 2.2 kg
A29	25 ton Cylinders	1 1/2 - 16 UNC	7 lbs / 3.1 kg

tip:

When ordering a replacement hydraulic cylinder for your bender you must also order a new smooth saddle. See chart above.

tip:

When installing a new saddle, apply LOCTITE® thread locker to threads prior to installation.

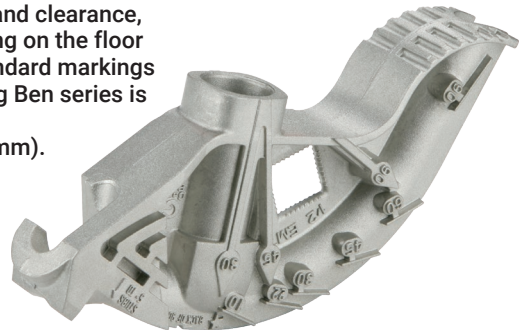


HAND BENDERS

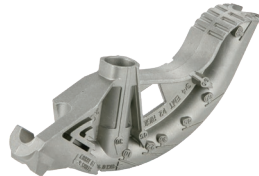
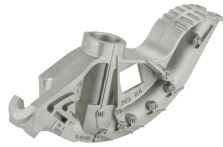
BIG BEN CONDUIT HAND BENDER

nVent GARDNER BENDER's new series of Big Ben aluminum hand benders has improved traditional hand benders by enlarging the hook, increasing the foot pedal size and clearance, highlighting the markings and incorporating a dual sight-line system for bending on the floor or in the air. nVent GARDNER BENDER's new Big Ben series offers industry standard markings to simplify the contractor's job. Made of rugged, heat-treated aluminum, the Big Ben series is backed by a lifetime warranty and is available in the most common sizes of 1/2 in, 3/4 in, and 1 in (12.7 mm, 19 mm, and 25.4 mm).

- All models include embossed sight lines for 10°, 22°, 30°, 45°, 60° and 90°.
- Industry-standard markings– 30° bend when handle is straight up.
- Bigger hook with a 5x durability factor.
- Bigger foot pedal– 40% larger.
- More foot room allows for a booted foot.
- Bend-back channel easily corrects conduit over-bends.
- Vise-Mate holds conduit while cutting or reaming.



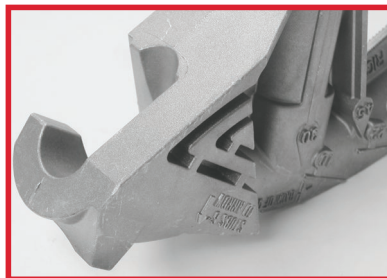
960



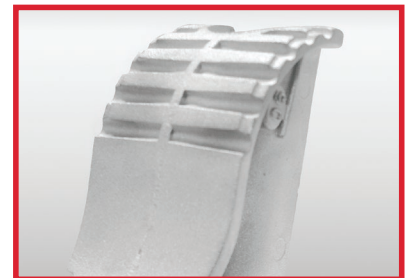
Part Number	960	960H	961	961H	962	962H
Description	Head Only	Head & Handle	Head Only	Head & Handle	Head Only	Head & Handle
Application	1/2 in (12.7 mm) EMT		3/4 in (19 mm) EMT / 1/2 in (12.7 mm) Rigid		1 in (25.4 mm) EMT / 3/4 in (19 mm) Rigid	
Fits Handle #	BH-75	Included	BH-75	Included	BH-100	Included
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Weight	1.34 lbs / 0.6 kg	5.06 lbs / 2.2 kg	1.58 lbs / 0.7 kg	5.34 lbs / 2.4 kg	3.16 lbs / 1.4 kg	7.01 lbs / 3.1 kg
Bend Radius	3.69 in / 9.3 cm	3.69 in / 9.3 cm	4.74 in / 12 cm	4.74 in / 12 cm	5.81 in / 14.7 cm	5.81 in / 14.7 cm
EMT Size	1/2 in / 12.7 mm	1/2 in / 12.7 mm	3/4 in / 19 mm	3/4 in / 19 mm	1 in / 25.4 mm	1 in / 25.4 mm
Rigid Size	–	–	1/2 in / 12.7 mm	1/2 in / 12.7 mm	3/4 in / 19 mm	3/4 in / 19 mm



Industry Standard Style
30° bend when handle is straight up



Bigger Hook
With a 5x durability factor



Bigger Foot Pedal
40% larger



More Foot Room
Allows for a booted foot



Bend-Back Channel
Easily corrects conduit over-bends



nVent GARDNER BENDER Vise-Mate
Holds conduit while cutting or reaming



Conduit Bending

HAND BENDER HANDLES

High quality, pre-threaded bender handles for all nVent GARDNER BENDER bender heads.

- Constructed of high-strength steel.
- Powder painted for increased durability.
- Comfort grip design ensures increased grasping capabilities.



Part #	Size	Fits Aluminum Bender #	Fits Iron Bender #	Weight
BH-75*	3/4 in / 1.9 cm NPT x 38 in / 96.5 cm long	930B, 931B, 960, 961	920, 921	3.5 lbs / 1.5 kg
BH-100*	1 in / 2.5 cm NPT x 44 in / 111.7 cm long	932, 962, 820, 821	922	5.5 lbs / 2.4 kg
BH-125	1 1/4 in / 3.1 cm NPT x 54 in / 137.1 cm long	933, 822	923	7.2 lbs / 3.2 kg

* Patented



CM7



CM20

TOOL-GUARD METAL STORAGE CASES

Shelter equipment from dust, grease, dirt or loss on the jobsite, maintenance area or shop.

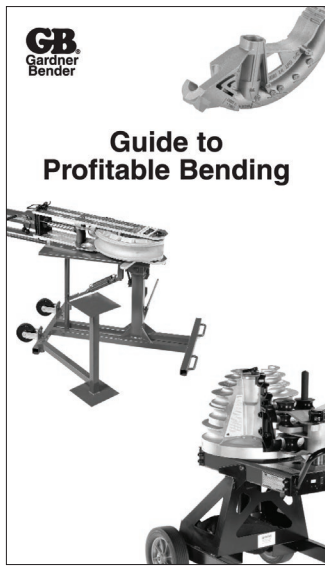
- Constructed of durable heavy gauge steel with quality arc-welded seams.
- Dual rolled-lip design resists sprung hinges, keeps cover aligned, adds rigidity and strength.
- Continuous heavy-duty full length piano hinges stand up to rugged use.
- Bottom skids enhance protection and permit easy forklift movement.
- CM20 recessed closure shields padlock from cutting and prying attempts (lock not included).
- Caster mounting holes on the bottom to attach wheels for easier transportation.
- Painted with durable corrosion resistant powder coated finish.

Part #	Size in3 / cm3	Inside Dimensions				Shelf Dimensions		Weight
		Length	Width	Rear Height	Front Height	Length	Width	
CM7	8 / 20.3	36 in / 91.4 cm	19 in / 48.2 cm	18 in / 45.7 cm	18 in / 45.7 cm	-	-	98 lbs / 44.4 kg
CM20	28 / 71.1	60 in / 152.4 cm	24 in / 60.9 cm	28 in / 71.1 cm	28 in / 71.1 cm	59 1/2 in / 151.1 cm	5 1/4 in / 13.3 cm	182 lbs / 82.5 kg

tip: Use #5 Master Lock® lock when locking boxes.

Master Lock® is a registered trademark of Master Lock Company LLC, Oak Creek, WI.

Conduit Bending



E507

GUIDE TO BENDING BOOKLET

Easy-to-use instructions for completing multiple types of conduit bends.

- Contains quick reference charts and guides.
- Easy to carry.
- Provided at no charge.

Part #	Description
E507	Guide to Profitable Bending Booklet

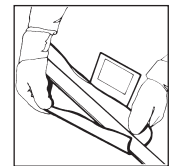
HOTBLANKET PVC BENDERS FOR 1/2 IN TO 4 IN (1.2 CM TO 10.1 CM) CONDUIT (ALL SCHEDULES)

New improvements have made this family of conduit benders the most durable and economical bending system in the industry.

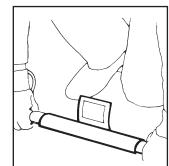
- Highly polished reflector surfaces heat conduit quickly and evenly.
- Power drive model automatically rotates conduit 5–6 RPM for faster bends.
- Large wheels provide job-site portability.
- Allows conduit to be reheated and reformed.
- Dimensions: 74 in x 11 1/2 in x 14 in (187.9 cm x 29.2 cm x 35.5 cm).
- Temperature Range: 0° F to 400° F (-17° C to 204° C).



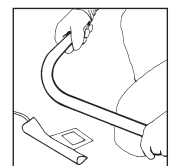
BB5150



Wrap



Heat



Bend

Part #	Conduit Size	Dimensions (L x W)	Power Requirements			Weight
			Watts	Volts	Amps	
BB5150	1/2 in - 1 1/2 in / 1.2 cm - 3.8 cm	16 in x 7 1/2 in / 40.6 cm x 19 cm	310	120	2.6	2 lbs / 0.9 kg
BB2030	2 in - 3 in / 5 cm - 7.6 cm	25 in x 11 1/4 in / 63.5 cm x 28.5 cm	690	120	6.3	3 lbs / 1.3 kg



HOLE MAKING

From single parts to complete kits, nVent GARDNER BENDER has versatile, durable hole-making products that contractors depend on. If you need to knockout, punch, notch, drill or insulate, nVent GARDNER BENDER has the right tool for the job.

Hole Making

nVent GARDNER BENDER Slug-Out Knockout Sets

35-Ton Hydraulic Punch	96	Step Bits	97
Drawstuds	94	Stud Punch	96
Hydraulic Super Stainless Steel Slug-Out Set	91	Super Stainless Steel Slug-Out Set	92
Knockout Seals	97		
Slug-Out Hydraulic Knockout Sets	90		
Slug-Out Individual Punch & Die Components	93		
Slug-Out Set	91		
Snap-In Seals	97		



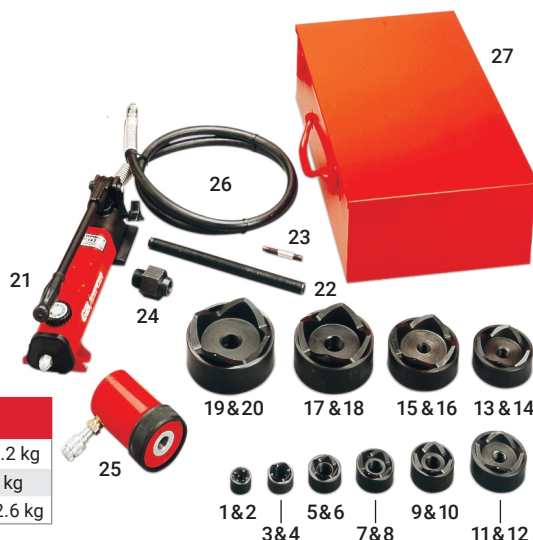


Hole Making

SLUG-OUT KNOCKOUT SETS

SLUG-OUT HYDRAULIC KNOCKOUT SETS

- Punches holes for 1/2 in (1.2 cm) to 4 in (10.1 cm) in conduit in distribution boxes, electrical panels or troughs.
- Four point design allows slug to drop automatically without splitting.
- Punches up to 10-gauge mild steel and 12-gauge stainless steel.
- Hand or foot operation; choose hand or foot-powered hydraulic pump.
- Assortment of punches, dies and accessories.
- Includes metal storage case 11 1/8 in x 18 3/4 in x 6 1/4 in [28.2 cm x 47.6 cm x 15.8 cm].
- Competitors' punches and dies are interchangeable.



Part #	Description	Weight
KOH14A	Hydraulic Slug-Out Set w/o punches and dies and with PH20 Hand Pump	27 lbs / 12.2 kg
KOH520A	1/2 in - 2 in Hydraulic Slug-Out Set with PH20 Hand Pump	31 lbs / 14 kg
KOH540A	1/2 in - 4 in Hydraulic Slug-Out Set with PH20 Hand Pump	50 lbs / 22.6 kg

KOH14A Set Includes:

Part #	Description	Hole	Weight	I.D. #	Part #	Description	Hole	Weight	I.D. #
PH20	Hand Pump - 2 speed	-	5 lbs / 2.2 kg	21	CH1211	12-ton Hydraulic Cylinder	-	6 lbs / 2.7 kg	25
KPR7540	Drawstud for 3/4 in - 4 in (10.1 cm) Punches & Dies	-	2.5 lbs / 1.1 kg	22	H864	6 ft Rubber Hose Coupler	-	2 lbs / 0.9 kg	26
KPS50*	Stainless Steel Pull Rod, 3/8 in dia.	-	.2 lb / 90.7 g	23	CM5	Metal Case	-	11 lbs / 4.9 kg	27
KC3540**	Converter	-	.4 lb / 181.4 g	24					

* Must be used with 1/2 in (1.2 cm) punch and die. ** Must be used with 3 1/2 in - 4 in (8.8 cm - 10.1 cm) punch and die.

KOH520A Set Includes:

Part #	Description	Hole	Weight	I.D. #	Part #	Description	Hole	Weight	I.D. #
KP500B	1/2 in Punch	7/8 in / 2.2 cm	.4 lb / 181.4 g	1	KP2000B	2 in Punch	2 3/8 in / 6 cm	2 lbs / 0.9 kg	11
KD500B	1/2 in Die	7/8 in / 2.2 cm	1 lb / 0.4 kg	2	KD2000B	2 in Die	2 3/8 in / 6 cm	2 lbs / 0.9 kg	12
KP750B	3/4 in Punch	1 3/32 in / 2.7 cm	.4 lb / 181.4 g	3	PH20	Hand Pump - 2 speed	-	5 lbs / 2.2 kg	21
KD750B	3/4 in Die	1 3/32 in / 2.7 cm	1 lb / 0.4 kg	4	KPR7540	Drawstud for 3/4 in - 4 in Punches & Dies	-	2.5 lbs / 1.1 kg	22
KP1000B	1 in Punch	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	5	KPS50*	Stainless Steel Drawstud, 3/8 in dia.	-	.2 lb / 90.7 g	23
KD1000B	1 in Die	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	6	KC3540**	Converter	-	.4 lb / 181.4 g	24
KP1250B	1 1/4 in Punch	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	7	CH1211	12-ton Hydraulic Cylinder	-	6 lbs / 2.7 kg	25
KD1250B	1 1/4 in Die	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	8	H864	6 ft Rubber Hose	-	2 lbs / 0.9 kg	26
KP1500B	1 1/2 in Punch	1 15/16 in / 4.9 cm	2 lbs / 0.9 kg	9	CM5	Metal Case	-	11 lbs / 4.9 kg	27
KD1500B	1 1/2 in Die	1 15/16 in / 4.9 cm	2 lbs / 0.9 kg	10					

* Must be used with 1/2 in (1.2 cm) punch and die. ** Must be used with 3 1/2 in - 4 in (8.8 cm - 10.1 cm) punch and die.

KOH540A Set Includes:

Part #	Description	Hole	Weight	I.D. #	Part #	Description	Hole	Weight	I.D. #
KP500B	1/2 in Punch	7/8 in / 2.2 cm	.4 lb / 181.4 g	1	KP3000	3 in Punch	3 1/2 in / 8.8 cm	4 lbs / 1.8 kg	15
KD500B	1/2 in Die	7/8 in / 2.2 cm	1 lb / 0.4 kg	2	KD3000	3 in Die	3 1/2 in / 8.8 cm	4 lbs / 1.8 kg	16
KP750B	3/4 in Punch	1 3/32 in / 2.7 cm	.4 lb / 181.4 g	3	KP3500	3 1/2 in Punch	4 in / 10.1 cm	4 lbs / 1.8 kg	17
KD750B	3/4 in Die	1 3/32 in / 2.7 cm	1 lb / 0.4 kg	4	KD3500	3 1/2 in Die	4 in / 10.1 cm	4 lbs / 1.8 kg	18
KP1000B	1 in Punch	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	5	KP4000	4 in Punch	4 1/2 in / 11.4 cm	4 lbs / 1.8 kg	19
KD1000B	1 in Die	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	6	KD4000	4 in Die	4 1/2 in / 11.4 cm	4 lbs / 1.8 kg	20
KP1250B	1 1/4 in Punch	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	7	PH20	Hand Pump - 2 speed	-	5 lbs / 2.2 kg	21
KD1250B	1 1/4 in Die	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	8	KPR7540	Drawstud for 3/4 in - 4 in Punches & Dies	-	2.5 lbs / 1.1 kg	22
KP1500B	1 1/2 in Punch	1 15/16 in / 4.9 cm	2 lbs / 0.9 kg	9	KPS50*	Stainless Steel Drawstud, 3/8 in dia.	-	.2 lb / 90.7 g	23
KD1500B	1 1/2 in Die	1 15/16 in / 4.9 cm	2 lbs / 0.9 kg	10	KC3540**	Converter	-	.4 lb / 181.4 g	24
KP2000B	2 in Punch	2 3/8 in / 6 cm	2 lbs / 0.9 kg	11	CH1211	12-ton Hydraulic Cylinder	-	6 lbs / 2.7 kg	25
KD2000B	2 in Die	2 3/8 in / 6 cm	2 lbs / 0.9 kg	12	H864	6 ft Rubber Hose	-	2 lbs / 0.9 kg	26
KP2500	2 1/2 in Punch	2 7/8 in / 7.3 cm	3 lbs / 1.3 kg	13	CM5	Metal Case	-	11 lbs / 4.9 kg	27
KD2500	2 1/2 in Die	2 7/8 in / 7.3 cm	3 lbs / 1.3 kg	14					

* Must be used with 1/2 in (1.2 cm) punch and die. ** Must be used with 3 1/2 in - 4 in (8.8 cm - 10.1 cm) punch and die.

Hole Making



SLUG-OUT SET WITH RATCHET WRENCH

- 1/2 in to 2 in (1.2 cm to 5.0 cm) conduit size.
- Four-point design allows slug to drop automatically without splitting.
- Driver punches up to 10-gauge mild steel and up to 12-gauge stainless steel.
- Set includes ratchet wrench, six sizes of punches and dies, and two drive screws all packaged in a rugged storage case.

Part #	Description	Weight
KOW520	Mechanical Slug-Out Set w/ KW52 Wrench	12 lbs / 5.4 kg



*Set Include:

Part #	Description	Hole	Weight	I.D. #	Part #	Description	Hole	Weight	I.D. #
KP500B	1/2 in Punch	7/8 in / 2.2 cm	.4 lb / 181.4 g	1	KP1500B	1 1/2 in Punch	1 15/16 in / 4.9 cm	2 lbs / 0.9 kg	9
KD500B	1/2 in Die	7/8 in / 2.2 cm	1 lb / 0.4 kg	2	KD1500B	1 1/2 in Die	1 15/16 in / 4.9 cm	2 lbs / 0.9 kg	10
KP750B	3/4 in Punch	1 3/32 in / 2.7 cm	.4 lb / 181.4 g	3	KP2000B	2 in Punch	2 3/8 in / 6 cm	2 lbs / 0.9 kg	11
KD750B	3/4 in Die	1 3/32 in / 2.7 cm	1 lb / 0.4 kg	4	KD2000B	2 in Die	2 3/8 in / 6 cm	2 lbs / 0.9 kg	12
KP1000B	1 in Punch	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	5	KW52	Hand Ratchet Wrench	-	1 lb / 0.4 kg	13
KD1000B	1 in Die	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	6	KSB50B	1/2 in Bearing & Drive Screw	-	1 lb / 0.4 kg	14
KP1250B	1 1/4 in Punch	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	7	KS752B	3/4 in - 2 in Bearing & Drive Screw	-	1 lb / 0.4 kg	15
KD1250B	1 1/4 in Die	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	8					

* Storage Case not sold separately.

HYDRAULIC SUPER STAINLESS STEEL SLUG-OUT SET

- 1/2 in to 2 in (1.2 cm to 5.0 cm) conduit size.
- Punches stainless steel up to 10-gauge (3.5 mm).
- Exclusive three-knife design splits slug into three pieces.
- Easy-to-use portable pump.
- Includes durable steel case.

Part #	Description	Weight
KSS520A	Hydraulic Super Slug-Out Set	35 lbs / 15.8 kg



*Set Include:

Part #	Description	Hole	Weight	I.D. #	Part #	Description	Hole	Weight	I.D. #
KPS500	1/2 in Punch	7/8 in / 2.2 cm	.4 lb / 181.4 g	1	KDS1500	1 1/2 in Die	1 15/16 in / 4.9 cm	2.5 lbs / 1.1 kg	10
KDS500	1/2 in Die	7/8 in / 2.2 cm	1 lb / 0.4 kg	2	KPS2000	2 in Punch	2 3/8 in / 6 cm	5 lbs / 2.2 kg	11
KPS750	3/4 in Punch	1 3/32 in / 2.7 cm	.4 lb / 181.4 g	3	KDS2000	2 in Die	2 3/8 in / 6 cm	4.5 lbs / 2 kg	12
KDS750	3/4 in Die	1 3/32 in / 2.7 cm	1 lb / 0.4 kg	4	PH20	Hand Pump	-	5 lbs / 2.2 kg	13
KPS1000	1 in Punch	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	5	KPR7540	Drawstud for 3/4 in - 2 in	-	2.5 lbs / 1.1 kg	14
KDS1000	1 in Die	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	6	KPS50	Drawstud for 1/2 in	-	.2 lb / 90.7 g	15
KPS1250	1 1/4 in Punch	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	7	CH1211	12 ton Hydraulic Cylinder	-	6 lbs / 2.7 kg	16
KDS1250	1 1/4 in Die	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	8	H864	6 ft Rubber Hose Coupler	-	2 lbs / 0.9 kg	17
KPS1500	1 1/2 in Punch	1 15/16 in / 4.9 cm	3 lbs / 1.3 kg	9					

* Storage Case not sold separately.



Hole Making

SUPER STAINLESS STEEL SLUG-OUT SET

- 1/2 in to 2 in (1.2 cm to 5.0 cm) conduit size.
- Punches stainless steel up to 10-gauge (3.5 mm).
- Exclusive three-knife design splits slug into three pieces.
- Rugged storage case.
- Extended punch life.

Part #	Description	Weight
KSS520	1/2 in - 2 in Super Stainless Steel Knockout Set	4 lbs / 1.8 kg



*Set Include:

Part #	Description	Hole	Weight	I.D. #
KPS500	1/2 in Punch	7/8 in / 2.2 cm	.4 lb / 181.4 g	1
KDS500	1/2 in Die	7/8 in / 2.2 cm	1 lb / 0.4 kg	2
KPS750	3/4 in Punch	1 3/32 in / 2.7 cm	.4 lb / 181.4 g	3
KDS750	3/4 in Die	1 3/32 in / 2.7 cm	1 lb / 0.4 kg	4
KPS1000	1 in Punch	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	5
KDS1000	1 in Die	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	6
KPS1250	1 1/4 in Punch	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	7
KDS1250	1 1/4 in Die	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	8

Part #	Description	Hole	Weight	I.D. #
KPS1500	1 1/2 in Punch	1 15/16 in / 4.9 cm	3.5 lbs / 1.5 kg	9
KDS1500	1 1/2 in Die	1 15/16 in / 4.9 cm	2.5 lbs / 1.1 kg	10
KPS2000	2 in Punch	2 3/8 in / 6 cm	5 lbs / 2.2 kg	11
KDS2000	2 in Die	2 3/8 in / 6 cm	4.5 lbs / 2 kg	12
KPR7520	3/4 in - 2 in Drawstud for Hydraulic Driver	-	1 lb / 0.4 kg	13
KSA50	1/2 in Adapter	-	.3 lbs / 113.3 g	14
KPS50	1/2 in Drawstud	-	.2 lb / 90.7 g	15

* Storage Case not sold separately.

SLUG-OUT SET FOR 1/2 IN TO 1 1/4 IN (1.2 CM TO 3.1 CM) CONDUIT SIZE

- Four-point design allows slug to drop automatically without splitting.
- Driver punches up to 10-gauge mild steel and up to 12-gauge stainless steel.
- Set includes the four most popular sizes of punches and dies packed in a sturdy storage case.

Part #	Description	Weight
KOM50125	Mechanical Slug-Out Set	3 lbs / 1.3 kg



*Set Include:

Part #	Description	Hole	Weight	I.D. #
KP500B	1/2 in Punch	7/8 in / 2.2 cm	.4 lb / 181.4 g	1
KD500B	1/2 in Die	7/8 in / 2.2 cm	1 lb / 0.4 kg	2
KP750B	3/4 in Punch	1 3/32 in / 2.7 cm	.4 lb / 181.4 g	3
KD750B	3/4 in Die	1 3/32 in / 2.7 cm	1 lb / 0.4 kg	4
KP1000B	1 in Punch	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	5

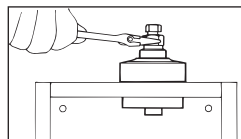
Part #	Description	Hole	Weight	I.D. #
KD1000B	1 in Die	1 11/32 in / 3.4 cm	1 lb / 0.4 kg	6
KP1250B	1 1/4 in Punch	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	7
KD1250B	1 1/4 in Die	1 11/16 in / 4.2 cm	2 lbs / 0.9 kg	8
KSB50B	1/2 in Bearing & Drive Screw	-	1 lb / 0.4 kg	9
KS752B	3/4 in - 2 in Bearing & Drive Screw	-	1 lb / 0.4 kg	10

* Storage Case not sold separately.

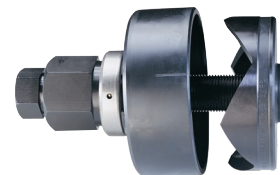
Hole Making

SLUG-OUT INDIVIDUAL PUNCH & DIE COMPONENTS

- 1/2 in to 4 in (1.2 cm to 10.1 cm) conduit size.
- A complete selection of individual punch, die and drive screw sets from 1/2 in to 4 in (1.2 cm to 10.1 cm).
- Four-point design allows slug to drop automatically without splitting.
- Driver punches up to 10-gauge mild steel and up to 12-gauge stainless steel.



KOM300 Apart



KOM300 Assembled



KOS-750B

KOS-500B

Part #	Weight	Pipe Size	Hole Size	Includes:	Description	Weight
KOS-500B	1.5 lbs / 0.6 kg	1/2 in / 1.2 cm	1 in / 2.5 cm	KP500B	1/2 in Punch	.4 lb / 181.4 g
				KD500B	1/2 in Die	1 lb / 0.4 kg
				KSB50B	Drive Screw for 1/2 in Punch & Die	1 lb / 0.4 kg
KOS-750B	1.5 lbs / 0.6 kg	3/4 in / 1.9 cm	1 3/32 in / 2.7 cm	KP750B	3/4 in Punch	.4 lb / 181.4 g
				KD750B	3/4 in Die	1 lb / 0.4 kg
				KS752B	Drive Screw for 3/4 in thru 2 in Punch & Die	1 lb / 0.4 kg
KOS-1000B	1.8 lbs / 0.8 kg	1 in / 2.5 cm	1 11/32 in / 3.4 cm	KP1000B	1 in Punch	1 lb / 0.4 kg
				KD1000B	1 in Die	1 lb / 0.4 kg
				KS752B	Drive Screw for 3/4 in thru 2 in Punch & Die	1 lb / 0.4 kg
KOS-1250B	1.75 lbs / 0.7 kg	1 1/4 in / 3.1 cm	1 11/16 in / 4.2 cm	KP1250B	1 1/4 in Punch	2 lbs / 0.9 kg
				KD1250B	1 1/4 in Die	2 lbs / 0.9 kg
				KS752B	Drive Screw for 3/4 in thru 2 in Punch & Die	1 lb / 0.4 kg
KOS-1250DS	1.8 lbs / 0.8 kg	1 1/4 in / 3.1 cm	1 11/16 in / 4.2 cm	KP1250B	1 1/4 in Punch	2 lbs / 0.9 kg
				KD1250B	1 1/4 in Die	2 lbs / 0.9 kg
				KS752B	Drive Screw for 3/4 in thru 2 in Punch & Die	1 lb / 0.4 kg
KOS-1500B	1.8 lbs / 0.8 kg	1 1/2 in / 3.8 cm	1 15/16 in / 4.9 cm	KP1500B	1 1/2 in Punch	2 lbs / 0.9 kg
				KD1500B	1 1/2 in Die	2 lbs / 0.9 kg
				KS752B	Drive Screw for 3/4 in thru 2 in Punch & Die	1 lb / 0.4 kg
KOS-1500DS	1.9 lbs / 0.86 kg	1 1/2 in / 3.8 cm	1 15/16 in / 4.9 cm	KP1500B	1 1/2 in Punch	2 lbs / 0.9 kg
				KD1500B	1 1/2 in Die	2 lbs / 0.9 kg
				KS752B	Drive Screw for 3/4 in thru 2 in Punch & Die	1 lb / 0.4 kg
KOM1732	3 lbs / 1.3 kg	-	1 7/32 in / 3 cm	KP1732B	1 7/32 in Punch	2 lbs / 0.9 kg
				KD1732B	1 7/32 in Die	2 lbs / 0.9 kg
				KS752B	Drive Screw for 3/4 in thru 2 in Punch & Die	1 lb / 0.4 kg
KOM200	2 lbs / 0.9 kg	2 in / 5 cm	2 3/8 in / 6 cm	KP2000B	2 in Punch	2 lbs / 0.9 kg
				KD2000B	2 in Die	2 lbs / 0.9 kg
				KS752B	Drive Screw for 3/4 in thru 2 in Punch & Die	1 lb / 0.4 kg
KOM250	4 lbs / 1.8 kg	2 1/2 in / 6.3 cm	2 7/8 in / 7.3 cm	KP2500	2 1/2 in Punch	3 lbs / 1.3 kg
				KD2500	2 1/2 in Die	3 lbs / 1.3 kg
				KSN2530*	Drive Screw for 2 1/2 in & 3 in Punch & Die	1.5 lbs / 0.6 kg
KOM300	5 lbs / 2.2 kg	3 in / 7.6 cm	3 1/2 in / 8.8 cm	KP3000	3 in Punch	4 lbs / 1.8 kg
				KD3000	3 in Die	4 lbs / 1.8 kg
				KSN2530*	Drive Screw for 2 1/2 in & 3 in Punch & Die	1.5 lbs / 0.6 kg
KOM350	10 lbs / 4.5 kg	3 1/2 in / 8.8 cm	4 in / 10.1 cm	KP3500	3 1/2 in Punch	4 lbs / 1.8 kg
				KD3500	3 1/2 in Die	4 lbs / 1.8 kg
				KS3540	3 1/2 in & 4 in Drive Screw	4 lbs / 1.8 kg
				KSN3540	Drive Screw for 3 1/2 in & 4 in Punch & Die	4 lbs / 1.8 kg
KOM400	11 lbs / 4.9 kg	4 in / 10.1 cm	4 1/2 in / 11.4 cm	KP4000	4 in Punch	4 lbs / 1.8 kg
				KD4000	4 in Die	4 lbs / 1.8 kg
				KS3540	3 1/2 in & 4 in Drive Screw	4 lbs / 1.8 kg
				KSN3540	Drive Screw for 3 1/2 in & 4 in Punch & Die	4 lbs / 1.8 kg
KKT316	Keyway Tool (for use with KOM1732)					

*KSN2530 is the complete Drive Screw & Nut.

KEYWAY TOOL

Punches holes for oil-tight electrical switches. Keyway tool (Part # KKT316) forms 3/16 in (4.7 mm) notch in punched hole to prevent rotary movement of switch.



Hole Making

DRAWSTUDS

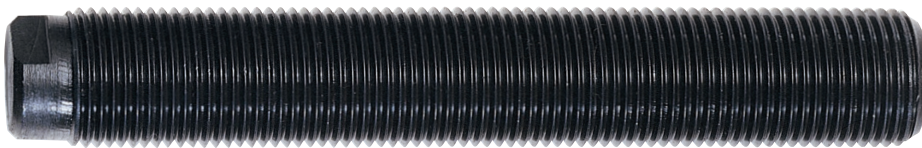
Shown Actual Size



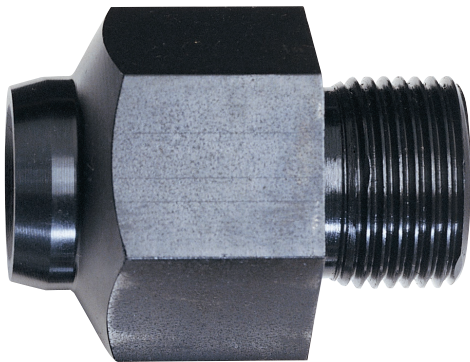
KPS50 2 1/2 in x 3/8 in / 6.3 cm x 0.9 cm



KSA50 1 3/8 in x 3/4 in / 3.4 cm x 1.9 cm



KPR7520 4 13/16 in x 3/4 in / 12.2 cm x 1.9 cm



KC3540 2 3/8 in x 1 1/8 in / 6 cm x 2.8 cm



KOR50 3 in x 3/8 in / 7.6 cm x 0.9 cm

KPR7540 10 5/16 x 3/4 in / 26.1 cm x 1.9 cm



Hole Making

DRAWSTUDS

Shown Actual Size



KS3540 Stud
7 5/8 in x 1 1/8 in /
19.3 cm x 2.8 cm



KSN3540 Hex Drive Nut
2 1/2 in x 1 3/8 in /
6.3 cm x 3.4 cm



KS752B
Drawstud & Bearing
4 1/4 in x 3/4 in /
10.7 cm x 1.9 cm



KSB50B
Drawstud & Bearing
2 3/4 in x 3/8 in /
6.9 cm x 0.9 cm



KSN2530
Stud 6 in x 3/4 in / 15.2 cm
x 1.9 cm and
Hex Drive Nut 1 1/2 in x 1 in
/ 3.8 cm x 2.5 cm





Hole Making

35-TON HYDRAULIC PUNCH

- Punches clean, burr-free bolt and small conduit holes in mild steel plates, beams, railings, bus bars or angle iron up to 1/2 in / 1.2 cm thick.
- Portable or fixed applications. Lift and position with easy-carry handle or mount for production setups. Height 13 3/4 in / 34.9 cm weight 35 lbs / 15.8 kg.
- Four punch and die sets included for round holes 7/16 in - 13/16 in / 1.1 cm - 2 cm diameter (gives clearance for 3/8 in, 1/2 in, 5/8 in or 3/4 in [9.5 mm, 12.7 mm, 15.8 mm or 19 mm] bolts or conduit) plus die changeover tool set. Throat depth 3 in / 7.6 cm.
- Holding plates grip work while punching to prevent binding and clamp punch in place to free operator's hands.



SP3500

Part #	Description	Weight
SP3500	35-ton Steel Punch Set	40 lbs / 18.1 kg

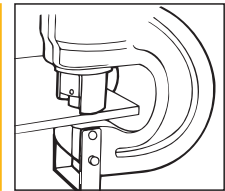

***Set Include:**

Part #	Description	Weight
SPD-438	7/16 in Punch & Die Set	1 lb / 0.4 kg
SPD-563	9/16 in Punch & Die Set	1 lb / 0.4 kg
SPD-688	11/16 in Punch & Die Set	1 lb / 0.4 kg
SPD-813	13/16 in Punch & Die Set	1 lb / 0.4 kg
SPK10	Installation Kit	5 lbs / 2.2 kg


tip:

Hydraulic Pumps and Hoses recommended for use with SP-3500 Punch:

- HC913 6' Hose
- HC927 10' Hose
- PH80 Manual Pump

See page 81-82
For more info on
Electric Pumps



See page 83
For more info on
Manual Pumps

STUD PUNCH

- Punches 7/8 in / 2.2 cm holes for 1/2 in / 1.2 cm conduit or pipe and 1 11/32 in / 3.4 cm holes for 3/4 in / 1.9 cm to 1 in / 2.5 cm conduit or pipe.
- Features a spring loaded sleeve that increases the life and accuracy of the punch while providing a smoother cutting action.
- Easily punches "H" studs without damaging flanges.
- High-leverage design permits punching holes in aluminum studs and mild steel (up to 20-gauge) with minimum effort.
- Tool measures 2 in / 5 cm from the center of the punch to the back of the housing.
- Carrying Case Included.



SP-7

Part #	Description	Weight	Punch #	Weight	Die #	Weight
SP-7	Stud Punch w/spring release and 7/8" (22.2 mm) or 1 11/32" (34.1 mm) size punch.	40 lbs / 18.1 kg	6 lbs / 2.7 kg	1 lb / 0.4 kg	43-95	1 lb / 0.4 kg



Hole Making

STEP BITS

- Drills large holes in confined spaces.
- Self-starting, self-centering drill tip. No pilot hole required.
- For accurate step-by-step drilling in sheet metals. Drills through 10-gauge mild steel or stainless steel.
- Double flute cutting action drills clean, round holes quickly and safely with minimum effort.
- Exclusive three-lobed shank for positive, non-slip grip in drill chucks.
- Made of high-speed steel for faster drilling and longer life.
- Applications include junction boxes, switch boxes, metal studs, electrical appliances, lighting fixtures and many other uses.



Part #	Sizes	Increments	No. of Sizes	Shank Size	Step Thickness	Weight
SB-205	1/4 in - 3/4 in / 6.3 mm - 19 mm	1/16"	10	3/8 in / 9.5 mm	1/8 in / 3.1 mm	1 lb / 0.4 kg
SB-207	3/16 in - 7/8 in / 4.7 mm - 22.2 mm	1/16"	12	3/8 in / 9.5 mm	1/8 in / 3.1 mm	1.3 lbs / 607.8 g
SB-209	7/16 in - 1 1/8 in / 11.1 mm - 28.5 mm	1/16"	12	3/8 in / 9.5 mm	1/8 in / 3.1 mm	1.5 lbs / 0.6 kg
SB-210	1/4 in - 1 1/2 in / 6.3 mm - 38.1 mm	1/8 in / 3.1 mm	11	1/2 in / 12.7 mm	1/8 in / 3.1 mm	1.8 lbs / 0.8 kg

SNAP-IN SEALS (1/2 IN TO 4 IN [1.2 CM TO 10.1 CM])

Convenient snap-in feature for quick installation.

- Zinc-plated to resist corrosion.
- Not waterproof.

Part #	Package Quantity	For Knockout Diameter
601	100/box	1/2 in / 12.7 mm
602	100/box	3/4 in / 19 mm
603	50/box	1 in / 25.4 mm

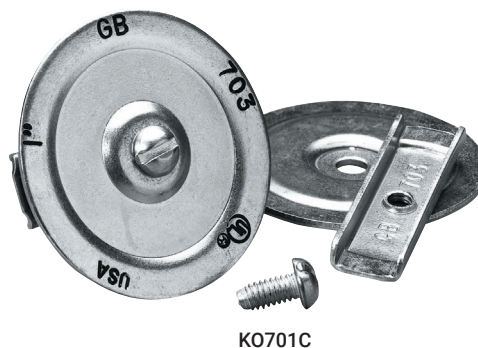
See page 90
For more info on
Knockouts



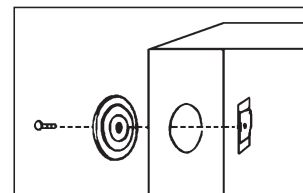
KNOCKOUT SEALS (1/2 IN TO 4 IN [1.2 CM TO 10.1 CM])

Easy-to-use metal knockout seal.

- Fast and easy to install from inside or outside of box.
- Embossed for quick self-centering in unused knockouts. One screw holds seal in place.
- Made of rust-proofed, cold-rolled galvanized steel. Screw and bar are zinc-plated.
- Marked for size and catalog number for easy identification.
- 16-gauge steel; 3/8 in / 0.9 cm thread.
- Not waterproof.



See page 94-95
For more info on
Draw Studs



3/4"	Package Quantity	For Knockout Diameter
KO701	100/box	1/2 in / 12.7 mm
KO701C	5/clam	1/2 in / 12.7 mm
KO702	50/box	3/4 in / 19 mm
KO702C	3/clam	3/4 in / 19 mm
KO703	25/box	1 in / 25.4 mm
KO704	25/box	1 1/4 in / 31.7 mm
KO705	10/box	1 1/2 in / 38.1 mm
KO706	10/box	2 in / 50.8 mm
KO707	10/box	2 1/2"
KO708	10/box	3 in / 76.2 mm
KO709	10/box	3 1/2 in / 88.9 mm
KO710	10/box	4 in / 101.6 mm



CONDUIT FISHING

nVent GARDNER BENDER offers a complete range of solutions for conduit fishing and cable pulling, with the contractor in mind. From fishtapes to powered cable pullers, our products are designed around durability, innovation and ease of use.

Conduit Fishing



Cable Pullers and Accessories	111	Lubricants	116
nVent GARDNER BENDER Brutus Powered Puller	113	nVent GARDNER BENDER Poly-Gel Cable-Pulling Lubricant	116
nVent GARDNER BENDER Brutus Powered Puller Sub-Assembly Kits	114	nVent GARDNER BENDER Super-Slick Cable-Pulling Lubricant	116
Hook Sheaves	115	nVent GARDNER BENDER Wire-Aide Wire-Pulling Lubricant	116
Optional Equipment	114	Material Handling	117
nVent GARDNER BENDER Poly-Pro General Purpose Rope	115	30" Reel Roller	117
nVent GARDNER BENDER Ultra Brutus Cable Puller	111	Deluxe Spool Cart & Caddy Combo	119
Blower Systems	101	Hand Wire Caddy	118
nVent GARDNER BENDER JetLine Super Blower System	101	nVent GARDNER BENDER Handy-Saver Reel Roller	117
nVent GARDNER BENDER Super Blo-Vac System	101	Heavy-Duty Spool Caddy	119
CO2 Systems	103	Portable Wire Caddy	118
nVent GARDNER BENDER Powr House Conduit Fishing Systems	103	Spool Caddy Cart	118
nVent GARDNER BENDER Powr-Pak I 5-lb Portable System	103	Telescoping Reel Jacks	117
Fish Sticks	110	Wire Dispenser	120
nVent GARDNER BENDER Fish Ease 12' Fish Sticks	110	Pull Line / Line Carriers	104
Fish Tape Leader	110	Air Compressor Seal-Off	104
nVent GARDNER BENDER Glo Fish 15' Glow in the Dark Fish Sticks	110	CO2 Refill Connector	104
Fish Tapes & Accessories	107	Economy Blow Line	106
Economy Fish Tape	109	Foam Line Carriers	105
nVent GARDNER BENDER Mini Cable Snake	108	Heavy-Duty Bulk Nylon Line	106
Non-Conductive Filament Style FishtapE	108	Missile Line Carriers	104
nVent GARDNER BENDER Streamline Steel Fish Tape	109	nVent GARDNER BENDER Poly-Pull Series Pull Line	106
nVent GARDNER BENDER UpperHand Fish Tape	107	nVent GARDNER BENDER Power Saver Line Packages	105
		Pulling Grip	106
		nVent GARDNER BENDER Tag-Along Line Packages	105
		nVent GARDNER BENDER Xtreme True Tape Heavy-Duty Pull Tape	104





Conduit Fishing

CONDUIT INSTALLATION CHART

JetLine Super Blower System (B60) Page 105
Super Blo-Vac System (BV208DA) Page 105
Powr-Pak I 5-lb Portable System (JO25) Page 107
Powr House System with 20-lb CO2 (JO225LC + 1208) Page 107
Powr House System with 50-lb CO2 (JO225LC + 950) Page 107

The following chart illustrates typical conduit installation. Fewer bends and lighter pull lines can increase the maximum distances obtainable. The chart below refers to a typical run with (4) 90° bends and no obstructions or leaks, using JetLine PL232 Pull Line 200 lb [90.7 kg] and foam line carriers.

Conduit Size	Conduit Run Length										
	100 ft / 30.48 m	150 ft / 45.72 m	200 ft / 60.96 m	300 ft / 91.44 m	400 ft / 121.92 m	500 ft / 152.40 m	600 ft / 182.88 m	700 ft / 213.36 m	800 ft / 243.84 m	900 ft / 274.32 m	Over 1000 ft / 304.8 m
1/2 in / 1.2 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
3/4 in / 1.9 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
1 in / 2.5 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
1 1/4 in / 3.1 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
1 1/2 in / 3.8 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2 in / 5 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2 1/2 in / 6.3 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
3 in / 7.6 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
3 1/2 in / 8.8 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
4 in / 10.1 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
5 in / 12.7 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
6 in / 15.2 cm	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

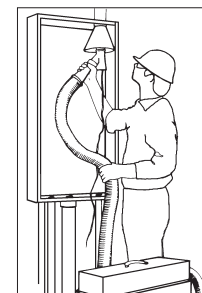
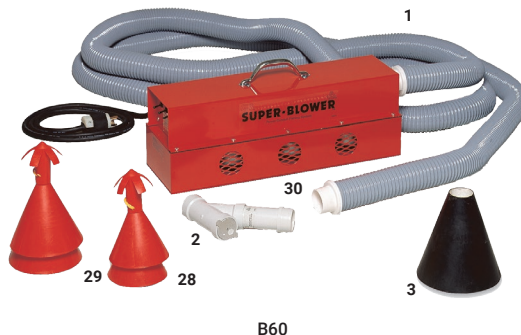


BLOWER SYSTEMS

JETLINE SUPER BLOWER SYSTEM

The most powerful blower system in the market.

- Blower unit delivers more than enough air pressure to blow 1/2 in (1.2 cm) Poly-Pull rope 1000 ft (304.80 m) or more through conduit up to 6 in (15.2 cm) diameter.
- Lightweight and compact (24 in x 7 1/2 in x 8 1/4 in [60.9 cm x 19 cm x 20.9 cm]) power unit can be hand-carried to the work area.
- Extra-long 25 ft (7.62 m) hose allows power unit to be located outside the manhole or vault.
- All work is done from one end of the conduit, permitting one-person operation.
- System includes Dial-A-Line Seal-Off System; eliminates extra steps by allowing simple "dial" selection of feed-thru opening size for up to 1/2 in (1.2 cm) pull rope.
- Can use pull rope and True Tape conduit measuring tape simultaneously.
- Power Consumption 2.65 kw.
- 3 motors (1 1/2 hp each).



Part #	Description	Weight
B60	JetLine Super Blower Conduit Fishing System	56 lbs / 25.4 kg

See page 102 for system components.

Technical Specifications

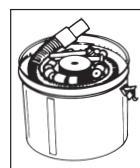
	B60 JetLine Super Blower	BV208DA Super Blo-Vac		B60 JetLine Super Blower	BV208DA Super Blo-Vac
Voltage	120	120	Motor Type (Cooling)	Flow Through	By-Pass
Frequency	60 Hz	60 Hz	Handling	Portable	Cart
AMPS	23	13.8	Recovery Cap. (gal / L)	-	9 / 34**
Inches Water Lift (sealed)	85-92	130-135*	Height w/ Cart (in / cm)	-	41 / 104.1
P.S.I	3.31	4.86*	Motor Brush Life (Hours)	-	750
CFM	270	92	Weight	35 lb / 15.8 kg	50 lb / 22.6 kg
No. of Motors	3	1	Hose Dia. (in / cm)	2 1/2 / 6.3	1 1/2 / 3.8
Impeller Stagers (Fans)	2	3	Length (ft / m)	25 / 7.62	8 / 2.43
Thermal Overload	Yes	No			

*Will vary with voltage and atmospheric conditions.
 ** When using recovery compartment and tool storage compartment together.

SUPER BLO-VAC SYSTEM

This rugged blower/vacuum system handles 1/2 in (1.2 cm) to 6 in (15.2 cm) conduit.

- Blows or vacuums most debris and water from conduit runs.
- High-impact, lightweight polypropylene construction will not rust or dent.
- Compartments can be unlatched and separated. Recovery compartment capacity expandable to 9 gal (34 L) by using bottom tool storage compartment.
- 10 in (25.4 cm) diameter metal hubbed wheels allow mobility.
- Complete package includes Dial-A-Line Seal-offs, The Inflatables® line carriers, foam line carriers, Power Saver and Tag-Along line packages. All accessories store neatly in self-contained tool storage compartment.
- Three-stage blower/vacuum motor delivers up to 25% more power for longer runs and faster operation.



Tool Storage Compartment



Part #	Description	Weight
BV208DA	Super Blo-Vac Power Conduit Fishing System	63 lbs / 28.5 kg

See page 102 for system components.



Conduit Fishing

System Components					Blower System:			
Component	Specification	Part #	Weight	I.D.#	B60	BV208DA	JO225LC	JO25
Seal-offs and Hoses	25 ft x 2 1/2 in Heavy-duty Hose*	126025	12 lbs / 5.4 kg	1	✓			
	Large Dial-A-Line Seal-off Body	B26	.7 lb / 0.3 kg	2	✓	✓		
	Seal-off for 2 1/2 in - 6 in conduit	BV24	3.3 lbs / 1.4 kg	3	✓	✓		
	Seal-off for 1 1/4 in - 2 1/2 in conduit	JV12	.3 lb / 113.3 g	4		✓		
	Dial-A-Line Seal-off- Body	JV07	.2 lb / 90.7 g	5		✓		
	Short Seal-off for 1/2 in - 1 1/4 in conduit	JV08	.1 lb / 45.3 g	6		✓		
	Long Seal-off for 1/2 in - 1 1/4 in conduit	JV09	.1 lb / 45.3 g	7		✓		
	Seal-off for 1 1/4 in - 2 1/2 in conduit	BV23	.3 lb / 113.3 g	8		✓		
	Hose Adapter (to Dial-A-Line body)	BV12	.1 lb / 0.4 kg / 45.3 g	9		✓		
	8 ft x 1 1/2 in Heavy-duty Hose	12568	3.3 lbs / 1.4 kg	10		✓		
	Seal-off for 1 1/2 in - 6 in conduit	1206	5.2 lbs / 2.3 kg	11			✓	
	12 ft Valve Assembly with hose**	1105A*	3.6 lb / 1.6 kg	12			✓	
	Seal-off for 1/2 in - 1 in conduit with 2 ft hose	1215	.4 lb / 181.4 g	13			✓	✓
	2 ft hose seal-off for 1 1/4 in - 2 1/2 in conduit	1216	.8 lb / 0.3 kg	14			✓	✓
	Angle Adapter (for 1215 Seal-off)	1142	.1 lb / 45.3 g	15			✓	✓
	Refill Connector (with 1137 Cone)	RV5	.8 lb / 0.3 kg	16				✓
Line Packages	450 ft Line Pkgs for 3/4 in conduit	LP3450	1.4 lbs / 0.6 kg	17		5		
	300 ft Line Pkgs for 1 in conduit	LP4300	.8 lb / 0.3 kg	18		5		
	450 ft Line Pkgs for 1 in conduit	LP4450	.8 lb / 0.3 kg	19		5		
	400 ft Line Pkgs for 1 1/4 in or larger conduit	LP2206T	.6 lb / 0.2 kg	20		2	3	
	800 ft Line Pkgs for 1 1/4 in or larger conduit	LP2207T	1 lb / 0.4 kg	21		2	3	
	600 ft Line Pkgs for 1 1/4 in or larger conduit	LP2208T	.9 lb / 0.4 kg	22			3	
	300 ft Line Pkgs for 3/4 in conduit	LP4300	1.1 lbs / 0.4 kg	23			5	5
	1000 ft Nylon Bulk Line	LP1701	4 lbs / 1.8 kg	24				1
	2200 ft Nylon Bulk Line	LP1722	7 lbs / 3.1 kg	25				1
	300 ft Line Pkgs for 3/4 in conduit	LP3300	.9 lb / 0.4 kg	26		5	10	5
150 ft Line Pkgs for 1/2 in conduit	LP2150	.8 lb / 0.3 kg	27		10	10	10	
Missile Line Carriers	Missile Line Carrier for 5 in conduit (w/rope eye)	M5000	.4 lb / 181.4 g	28	1			
	Missile Line Carrier for 6 in conduit (w/rope eye)	M6000	.5 lb / 0.2 kg	29	1			
Other Components	Power Unit	B3000**	34 lbs / 15.4 kg	30	✓			
	Crevice Tool (for clean-up)	BV1281	.1 lb / 45.3 g	31		✓		
	Filter Bag (for vacuuming)	JV210	.1 lb / 45.3 g	32		✓		
	Cart	1525**	25 lbs / 11.3 kg	33		✓		
	5-lb-capacity CO ₂ Cylinder w/valve (full)	1103N	18 lbs / 8.1 kg	34				✓
	Shoulder Strap	1102**	.4 lb / 181.4 g	35				✓

*Order UG121112 for hose and coupling assembly.

NS = Not Shown

**Not sold separately

Conduit Fishing

CO₂ SYSTEMS

POWR HOUSE CONDUIT FISHING SYSTEMS

For 1/2 in to 6 in (1.2 cm to 15.2 cm) conduit.

- Completely self-contained with no electrical power source required. Use 50 lb (22.6 kg) cylinder as source for refilling smaller cylinders (requires RV5 refill connector).
- Quick, easy setup.
- Metered operating valve controls CO₂ volume to minimize waste and maximize safety.
- Locking pull ring prevents accidental discharge.
- 1 in (2.5 cm) tank thread.
- Specifications: 840 psi @ 70° F (21° C).

Part #	Description	Weight
JO225LC	Powr House Conduit Fishing System without CO2 Cylinder	40 lbs / 18.1 kg
950	50 lb CO ₂ Cylinder (full) (JO250 only)	161 lbs / 73 kg
1208	20 lb CO ₂ Cylinder (full) (JO220 only)	58 lbs / 26.3 kg



JO225LC & 950
(50 lb Cylinder)



JO225LC & 1208
(20 lb Cylinder)



JO225LC Powr House
CO₂ System w/o Cylinder

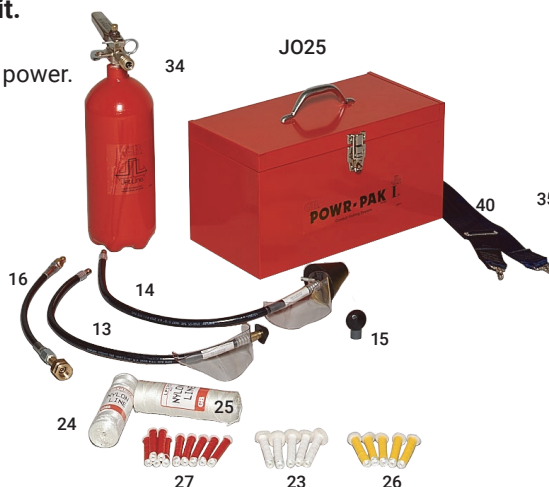
POWR-PAK I 5-LB PORTABLE SYSTEM

For 1/2 in to 2 1/2 in (1.2 cm to 6.3 cm) conduit.

- Exclusive from nVent GARDNER BENDER.
- Lightweight, portable system requires no electrical power.
- Metered operating valve controls volume, preventing waste.
- 5 lb (2.2 kg) cylinder can be refilled from larger cylinder using #RV5 refill connector.
- Locking pull ring prevents accidental discharge.
- 3/4 in (1.9 cm) NGA tank thread.
- Specifications: 840 psi @ 70° F (21° C).

See page 102 for system components.

Part #	Description	Weight
JO25	Powr-Pak I Portable CO ₂ Conduit Fishing System	16 lbs / 7.2 kg
JO25A	Powr-Pak I Portable CO ₂ Conduit Fishing System w/out Cylinder	10 lbs / 4.5 kg



Accessories included with JO225LC



See page 102 for system components.





Conduit Fishing



RV5

PULL LINE / LINE CARRIERS

CO₂ REFILL CONNECTOR

Connection for refilling CO₂ cylinders.

- Flexible urethane hose with quick disconnects.
- Saves time.

Part #	Description	Weight
RV5	CO ₂ Cylinder Refill Connector	.8 lb / 362.8 g



CB21V

1/2 in (12.7 mm)
N.P.T.
(AM-2)
Air Coupler

AIR COMPRESSOR SEAL-OFF

Use with most commercial air compressors to blow pull line into conduit or duct. For use with 2 1/2 in to 6 in (6.3 cm to 15.2 cm) conduit sizes.

- The Dial-A-Line feature is incorporated into the compressor fitting.
- Maximum 200 cfm rating.
- Shut-off valve.

CAUTION Use in 2 1/2 in to 6 in (6.3 cm to 15.2 cm) conduit only. To avoid rapid pressure build-up, do not use on smaller sizes of conduit.

Part #	Description	Weight
CB21V	Air Compressor Seal-off	6 lbs / 2.7 kg

Sold as complete assembly only.



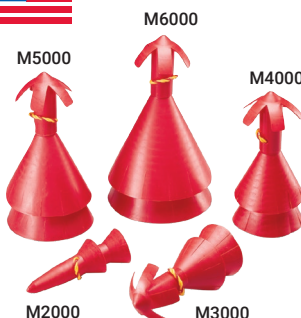
MT1500

XTREME TRUE TAPE HEAVY-DUTY PULL TAPE

Measure and pull with a single, super-strong product.

- Durable, woven PET (Polyester) material.
- Sequential footage markings on tape.
- Lightweight and easily blown through conduit.
- Lower stretching and high strength reduces pulling time, increases worker safety, and prevents crushed capstans.

Part #	Description	Dimensions	Weight
MT1500	Xtreme True Tape 1250 lb Tensile Strength	1/2 in x 3000 ft / 1.2 cm x 914.4 m	23 lbs / 10.4 kg
MT5800	Xtreme True Tape 1800 lb Tensile Strength	5/8 in x 3000 ft / 1.5 cm x 914.4 m	34 lbs / 15.4 kg
MT3400	Xtreme True Tape 2500 lb Tensile Strength	3/4 in x 3000 ft / 1.9 cm x 914.4 m	48 lbs / 21.7 kg



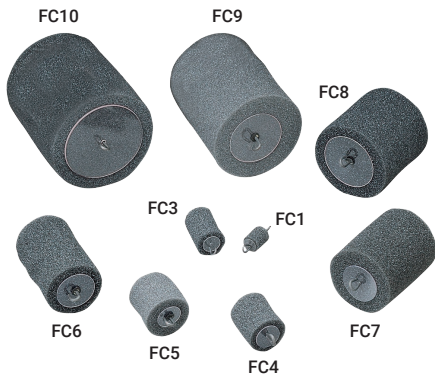
MISSILE LINE CARRIERS

For 2 in to 6 in (5 cm to 15.2 cm) conduit.

- Fast blowing and vacuuming of 2 in to 6 in (5 cm to 15.2 cm) diameter conduit by low-friction plastic carriers.
- Easily removed from conduit if stuck or jammed.

Part #	Qty	Description	Weight
M2000	1/bg	Missile Line Carrier for 2 in conduit (w/rope eye)	.1 lb / 45.3 g
M3000	1/bg	Missile Line Carrier for 3 in conduit (w/rope eye)	.2 lb
M4000	1/bg	Missile Line Carrier for 4 in conduit (w/rope eye)	.3 lb / 113.3 g
M5000	1/bg	Missile Line Carrier for 5 in conduit (w/rope eye)	.3 lb / 113.3 g
M6000	1/bg	Missile Line Carrier for 6 in conduit (w/rope eye)	.4 lb / 181.4 g

Conduit Fishing



FOAM LINE CARRIERS

For 1/2 in to 6 in (1.2 cm to 15.2 cm) conduit.

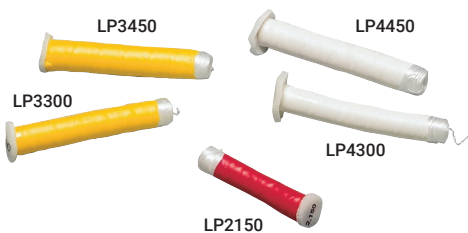
- Cleans water and debris from most conduit – rigid, EMT, IMC, PVC or flexible.
- Durable for indefinite re-use.

Part #	Qty	Description	Weight
FC1	10/bx	Foam Line Carrier for 1/2 in conduit	.3 lb / 113.3 g
FC3	10/bx	Foam Line Carrier for 1 in conduit	.4 lb / 181.4 g
FC4	10/bx	Foam Line Carrier for 1 1/4 in conduit	.4 lb / 181.4 g
FC5	5/bx	Foam Line Carrier for 1 1/2 in conduit	.3 lb / 113.3 g
FC6	5/bx	Foam Line Carrier for 2 in conduit	.4 lb / 181.4 g
FC7	5/bx	Foam Line Carrier for 2 1/2 in conduit	.6 lb / 272.1 g
FC8	5/bx	Foam Line Carrier for 3 in conduit	.6 lb / 272.1 g
FC9	2/bx	Foam Line Carrier for 3 1/2 in conduit	.5 lb / 226.7 g
FC10	2/bx	Foam Line Carrier for 4 in conduit	.6 lb / 272.1 g
FC11	2/bx	Foam Line Carrier for 5 in conduit	.8 lb / 362.8 g
FC12	2/bx	Foam Line Carrier for 6 in conduit	.8 lb / 362.8 g

POWER SAVER LINE PACKAGES

For 1/2 in to 1 in (1.2 cm to 2.5 cm) conduit.

- Carrier and pull line included in a single, handy package. Line is dispensed smoothly and quickly as line carrier moves through conduit.
- No knots to tie, no foam carriers to retrieve.
- Color coded packages indicate line diameter.



Part #	Qty	Description	Length	Color	Breaking Strength	Weight
LP2150	50/bx	Power Saver Line Package for 1/2 in conduit	150'	Red	17 lbs / 7.7 kg	.8 lb / 362.8 g
LP3300	25/bx	Power Saver Line Package for 3/4 in conduit	300'	Yellow	17 lbs / 7.7 kg	.8 lb / 362.8 g
LP3450	25/bx	Power Saver Line Package for 3/4 in conduit	450'	Yellow	17 lbs / 7.7 kg	.8 lb / 362.8 g
LP4300	25/bx	Power Saver Line Package for 1 in conduit	300'	White	17 lbs / 7.7 kg	.8 lb / 362.8 g
LP4450	25/bx	Power Saver Line Package for 1 in conduit	450'	White	17 lbs / 7.7 kg	.8 lb / 362.8 g

TAG-ALONG LINE PACKAGES

For 1 1/4 in to 6 in (3.1 cm to 15.2 cm) conduit.

- Handles longer runs with less energy.
- Line is dispensed as package moves through conduit attached to line carrier.
- Works with foam or inflatable line carriers.



Part #	Qty	Description	Length	Breaking Strength	Weight
LP2206T	10/bx	Tag-Along Pull Line Package	400 ft / 121.92 m	22 lbs / 9.9 kg	.6 lb / 272.1 g
LP2207T	10/bx	Tag-Along Pull Line Package	800 ft / 243.84 m	22 lbs / 9.9 kg	1.1 lbs / 0.4 kg
LP2208T	10/bx	Tag-Along Pull Line Package	600 ft / 182.88 m	22 lbs / 9.9 kg	.9 lb / 408.2 g



Conduit Fishing



LP1722



LP1701

HEAVY-DUTY BULK NYLON LINE

Doubles as general-purpose line for layout of suspended ceilings, plumb-lines and masonry construction.

- Use with line carriers for any size conduit.
- All packages are center-dispensing (except #LP1707).

Part #	Qty	Description	Length	Breaking Strength	Weight
LP1701	6/bx	Heavy-duty Bulk Nylon Line	1000 ft / 304.80 m	85 lbs / 38.5 kg	2.5 lbs / 1.1 kg
LP1722	6/bx	Heavy-duty Bulk Nylon Line	2200 ft / 670.56 m	85 lbs / 38.5 kg	6.3 lbs / 2.8 kg



PL232

POLY-PULL SERIES PULL LINE

Super high strength – up to 500 lbs / 226.7 kg breaking strength.

- Self-lubricated polyolefin line lasts for years; will not rust, rot or mildew.
- Center-dispensing box pays out line smoothly.
- Blow directly into conduit using Dial-A-Line Seal-off bodies.

Part #	Description	Length	Breaking Strength	Outside Diameter	Color	Weight
PL232	Poly-Pull Line in dispenser box	6500 ft / 1981.20 m	210 lbs / 95.2 kg	1/8 in / 3.1 mm	Blue TRACER	11 lbs / 4.9 kg
PL232B	Poly-Pull Line in bucket	6500 ft / 1981.20 m	210 lbs / 95.2 kg	1/8 in / 3.1 mm	Blue TRACER	11 lbs / 4.9 kg
PL235B	Poly-Pull Line in bucket	2200 ft / 670.56 m	500 lbs / 226.7 kg	3/16 in / 4.7 mm	Red TRACER	11 lbs / 4.9 kg



PL132B

ECONOMY BLOW LINE

Low-cost, High-Strength Polypropylene Line.

- Polypropylene line pulls easily and lasts for years
- Center-dispensing box pays out line smoothly.
- Blow directly into conduit using Dial-A-Line Seal-off bodies.

Part #	Description	Length	Breaking Strength	Outside Diameter	Color	Weight
PL132B	Blow Line in bucket	6500 ft / 1981.20 m	210 lbs / 95.2 kg	1/8 in / 3.1 mm	Blue TRACER	8.6 lbs / 3.9 kg
PL135B	Blow Line in bucket	2200 ft / 670.56 m	500 lbs / 226.7 kg	3/16 in / 4.7 mm	Red TRACER	7.3 lbs / 3.3 kg

PULLING GRIP

Grip used for pulling 3/4 in to 1 in (19 mm to 25.4 mm) diameter wire.

- Clip attaches to bit or fish tape, mesh basket holds wire or cable during recovery
- Flexible pulling eye
- Steel mesh material
- Pull wire, cable or fish tape through walls



PG-510

Part #	Description
PG-510	3/4 in - 1 in



FISH TAPES & ACCESSORIES

UPPERHAND FISH TAPE



FTS-125R

nVent GARDNER BENDER's series of UpperHand fish tapes has improved traditional hand fishing with the first ergonomic fish tape in the industry. The improved design is manufactured with impact-resistant ABS and nylon resins and includes a full, wrap-around interior ring to increase durability. The UpperHand series is backed by an industry leading 5-year limited warranty.

- Ergonomic Handle reduces wrist strain and provides unparalleled ease-of-use.
- Comfort Formed Grip reduces forearm strain.
- Wrist-saver Handle makes carrying the fish tape easy.
- Impact Modified Handle and Housing that exceeds the 25 ft (7.62 m) drop-test.
- Plated Steel Wire resists corrosion (certain models).



Corrosion-Resistant Plated Carbon Steel (R series)

The toughest, most durable tape for long-lasting use.

**Five Year
Warranty**



	FTS-65R	FTS-125R	FTS-250R
Tape Length	65 ft / 19.81 m	125 ft / 38.10 m	250 ft / 76.20 m
Tape Material	Corrosion-Resistant Plated Carbon Steel		
Pkg Qty	1/card	1/card	1/card
Handle / Housing Material	Nylon / ABS	Nylon / ABS	Nylon / ABS
Tape Dimensions	1/8 in W / 3.1 mm W	1/8 in W / 3.1 mm W	1/8 in W / 3.1 mm W
Weight	3 lbs / 1.3 kg	5.2 lbs / 2.3 kg	8.2 lbs / 3.7 kg
Internal / External Ring Dia.	4 in (10.1 cm) / 8 1/2 in (21.5 cm)	5 1/2 in (13.9 cm) / 12 in (30.4 cm)	5 1/2 in (13.9 cm) / 12 in (30.4 cm)



Ergonomic Handle
Reduces fatigue and wrist strain by allowing the user to keep their wrist in a natural position.



Conduit Fishing



FTP-100R



NON-CONDUCTIVE FILAMENT STYLE FISHTAPE

100 ft (30.48 m) non-conductive tape design prevents shorting of live conductors

- Combines the strength of steel fish tapes with the flexibility of fiberglass fish tapes
- High stiffness and abrasion resistance for long wire runs
- Wrap around, easy spin handle and housing provides smooth operation
- Impact modified handle and housing resists breaking



Non-Conductive Filament

Non-conductive tip and high stiffness, abrasion resistant tape will not splinter like fiberglass tapes.

	FTP-100R
Tape Length	100 ft / 30.48 m
Tape Material	Non-Conductive Filament
Pkg Qty	1/card
Handle / Housing Material	Nylon / ABS
Tape Dimensions	1/8 in / 0.3 cm W
Weight	2.2 lbs / 0.9 kg
Internal / External Ring Dia.	6 1/4 in (15.8 cm) / 12 in (30.4 cm)



EFT-15

MINI CABLE SNAKE

Innovative, ultra-compact 15 ft (4.57 m) fish tape.

- Feed under carpets, over drop ceilings and down walls.
- Perfect for short runs - installing speakers, home networks, cable and other common electrical uses.
- Durable, high-impact housing resists breaking.
- Low-memory tape does not curl during extension – perfect for non-conduit situations.
- Compact, rugged design can be stored in tool belt or box

Part #	Description	Weight
EFT-15	15 ft Cable Snake Fish Tape	0.5 lbs / 0.2 kg



Conduit Fishing



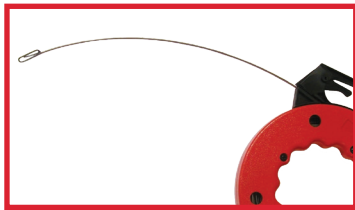
FTS-50B

STREAMLINE STEEL FISH TAPE

Setting the industry standard for quality and dependability.

- Tape is wound directly into housing; no need to “snap” retaining tapes; no sticky residue inside housing.
- Form-fitting finger grips around reel fit the hand comfortably.
- Shatter-proof reel stands up to on-the-job abuse.
- Four viewing ports on reel show how much tape remains.
- Easy disassembly for fast replacement of tape.
- Maximum design strength 500 lbs (226.7 kg).
- Corrosion resistant zinc-plated tape.

Part #	Description	End Type	Reel Dia.	Weight
FTS-50B	50 ft x 1/8 in x .045 in / 15.24 m x 3.1 mm x 1.1 mm Fish Tape	Curled	8 1/2 in / 21.5 cm	2.3 lbs / 1 kg



Standard Steel Fish Tape
High stiffness and straightness makes it ideal for fishing through conduit



EFT-50B

ECONOMY FISH TAPE

Economical 50 ft (15.24 m) tape.

- Standard steel material.
- View port in reel allows user to see amount of tape used.
- Form-fitting finger grip allows for easy reeling of the tape

Part #	Description	Reel Dia.	Weight
EFT-50B	50 ft x 1/8 in x .045 in / 15.24 m x 3.1 mm x 1.1 mm Fish Tape	7 in / 17.7 cm	1.8 lbs / 0.7 kg



FTL-5

FISH STICKS

FISH TAPE LEADER

Multi-Flex is a flexible, non-kink, round metallic leader perfect – for flat steel tapes.

- Double-sheathed to prevent unraveling. Brass plated for corrosion resistance.
- Spring Coil easily curves around bends, yet is rigid enough to fish smoothly through conduit with existing wire.
- High strength – tested at 400 lb (181.4 kg) tensile strength.
- Attaches directly to 1/8 in (3.1 mm) tapes.

Part #	Description	Dimensions	Weight
FTL-5	Fish Tape Leader, Multi-Flex	14 in / 35.5 cm	0.5 lbs / 0.2 kg



FTX-12L

FISH EASE 12 FT (3.65 M) FISH STICKS

- 4 durable interlocking fiberglass tubes extend up to 12 ft / 3.65 m (3 ft / 0.91 m sections).
- 1/4 in (6.3 mm) diameter ensures rigidity when extended.
- Bullet nose and hook attachment for grabbing wire.

Part #	Description	Dimensions	Weight
FTX-12L	Fish Ease 12 ft / 3.65 m Fish Sticks	(4) 3 ft sections x 1/4 in / 91.4 cm sections x 0.6 cm	1 lb / 0.4 kg



FTX-15GL

GLO FISH 15 FT (4.57 M) GLOW IN THE DARK FISH STICKS

- 5 interlocking fiberglass tubes extend up to 15 ft / 4.57 m (3 ft / 0.91 m sections).
- Made from luminescent fiberglass to make fishing through walls or over ceilings easier.
- 1/4 in (6.3 mm) diameter ensures rigidity when extended.
- Bullet nose and hook attachment for grabbing wire.

Part #	Description	Dimensions	Weight
FTX-15GL	Glo Fish 15 ft / 4.57 m Fish Sticks	(5) 3 ft sections x 1/4 in / 91.4 cm sections x 0.6 cm	1 lb / 0.4 kg

Conduit Fishing

CABLE PULLERS AND ACCESSORIES

ULTRA BRUTUS CABLE PULLER

Leading the heavy-duty class, the Ultra Brutus 10,000 lbs (4,535.9 kg) Cable Puller takes both the labor and the labor cost out of cable pulls. Commercial electrical contractors that need both equipment and operator to be ready at all times will appreciate its flexible operation, mobility and labor saving features.

The Ultra Brutus comes fully assembled from the factory with no loose parts, no tools needed, and can be completely set-up by one person. It features a 1.7 HP motor engineered to provide consistently strong pulling power at less amperage, which adds durability and a steady pull speed.



The nVent GARDNER BENDER Ultra Brutus 10,000 lbs (4,535.9 kg) puller has an innovative design that features a one person set-up in under two minutes and the ability to run at max capacity for short bursts of power.

Part #	Description	Weight	Recommended Rope	Pulling Force	Motor
CP10K	Ultra Brutus Cable Puller	385 lbs / 174.6 kg	7/8 in / 2.2 cm diameter double braided rope	10,000 lbs / 4,535.9 kg	1.7 Hp



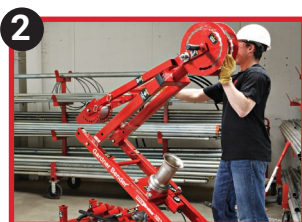
CP10K Patented



Fast 1 person set-up



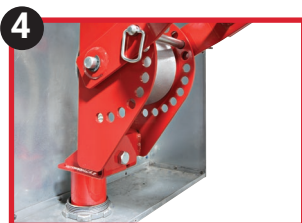
1 Pump main boom to 30°



2 Flip booms into position and lock



3 Align with conduit, properly adjust booms



4 Place in conduit



Requires no assembly
Space saving design

- Folds to 61 in L x 28 in W x 39 in H (154.9 cm L x 71.1 cm W x 99 cm H)
- Footswitch included



Conduit Fishing



A
5 conduit adapters
 • 2 in - 4 in (5 cm - 10.1 cm) adapters stored conveniently onboard
 • Doesn't need to be fastened to conduit



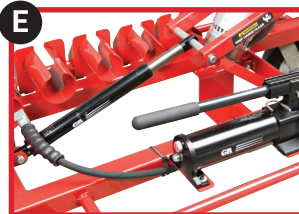
B
Extended boom
 • Allows 12 ft (3.65 m) of cable to be pulled from the conduit to the capstan



C
Quick tool-less angle adjustment
 • Spring loaded pin reduces risk of loss
 • Faster positioning saves time
 • Adjusts up to 300°



D
Easily change pulling direction
 • Only requires one person
 • Doesn't require disassembly
 • Speeds up and simplifies set-up
 • Safer for the user
 • No tools required



E
Hydraulic assisted boom lift/one person setup
 • Set-up in 2 minutes with 1 person
 • Designed for optimal safety
 • Adjust boom to any angle



F
10,000 lbs (4,535.9 kg) pulling capacity
 • Non-reversing planetary gear motor for consistent pulling power up to 10,000 lbs (4,535.9 kg) for short bursts of pulling power

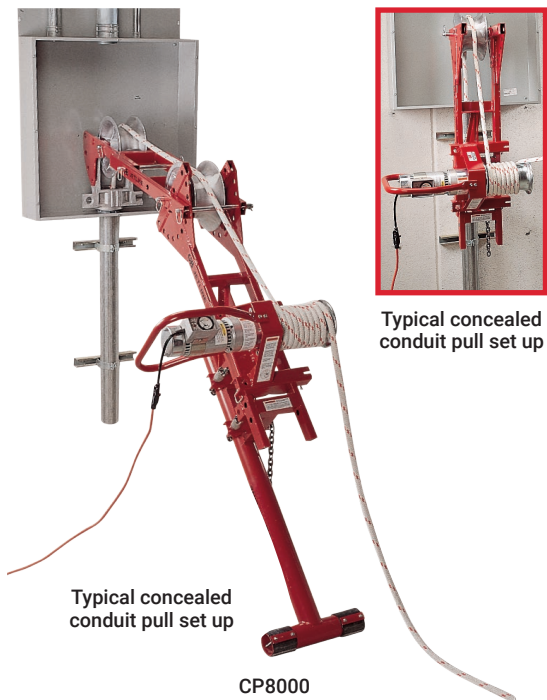


G
Swiveling casters
 • Moves easily on dirt and gravel
 • Flat-free wheels



No assembly required/ fast setup
 • No loose parts
 • No tools required
 • Includes footswitch

Conduit Fishing

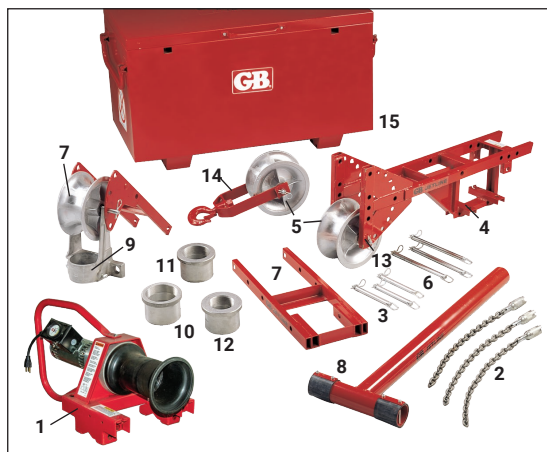


BRUTUS POWERED PULLER

Pulls up to 8,000 lbs (3,628.7 kg).

- Exclusive planetary gear design lets powerhead deliver smooth, sure power without breakage.
- 30% more pulling force than competitors' models.
- Versatile frame mounts power head almost anywhere.
- Frame assembles in numerous configurations.
- No chains or sprockets to break.
- Powerful 1 1/2 hp motor starts under full load. Capstan is non-reversing with backstop brake. Will not reverse when power is shut off.
- Load read-out meter indicates pulling load at all times; alerts operator to hung-up cable or other excessive conditions.
- Two-way power head mounting adapts to tight corners.
- Pulls 10 feet/minute without buckling or bending.
- Heavy-duty metal case included.
- Min 15 A, Max 30 A

Part #	Description	Weight
CP8000	Brutus Powered Puller for exposed or concealed conduit	375 lbs / 170 kg



CP8000 Includes:

Part #	Qty	Description	Weight	I.D. #
CP800	1	Power Head	60 lbs / 27.2 kg	1
CP503	3	2 ft Chain Assembly	3 lbs / 1.3 kg	2
CP505	5	8 in Lock Pins	7 lbs / 3.1 kg	3
CP601	1	Conduit Frame Adapter	55 lbs / 24.9 kg	4
S-8512	3	12 in Sheave	7 lbs / 3.1 kg	5
CP622	3	10 in Lock Pins	3 lbs / 1.3 kg	6
CP631	1	Boom Extension	18 lbs / 8.1 kg	7
CP701	1	Puller Base Extension	25 lbs / 11.3 kg	8
CP702	1	Coupling Clamp	8 lbs / 3.6 kg	9
CP706	1	3 in Conduit Coupling	5 lbs / 2.2 kg	10
CP707	1	3 1/2 in Conduit Coupling	4 lbs / 1.8 kg	11
CP708	1	4 in Conduit Coupling	3 lbs / 1.3 kg	12
CP709	1	6 in Lock Pin	2 lbs / 0.9 kg	13
HS-8512	1	12 in Cable Sheave with Hook	20 lbs / 9 kg	14
CM20	1	Metal Case with Casters	133 lbs / 60.3 kg	15



Conduit Fishing

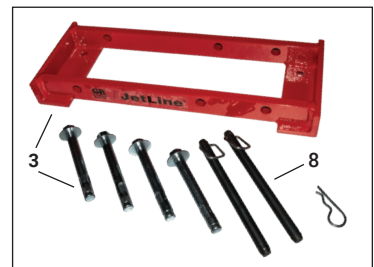
BRUTUS POWERED PULLER SUB-ASSEMBLY KITS

May be purchased as additions to existing cable-puller sets.
CP8000 Includes:

Part #	Description	Weight	Part #	Qty	Description	Weight	I.D. #
CP800	Power Assembly	110 lbs / 49.8 kg	CP801	1	Power Head	60 lbs / 27.2 kg	1
				1	Base Mounting Bracket & Handle	50 lbs / 22.6 kg	2
CP80*	Floor Mount Kit	33 lbs / 14.9 kg	CP80	1	Floor Mount w/ Anchors	33 lbs / 14.9 kg	3
				2	12 in Lock Pins	3 lbs / 1.3 kg	8
CP600	Conduit Frame & Sheave Adapter Assembly	72 lbs / 32.6 kg	CP503	2	2 ft Chain Assembly	3 lbs / 1.3 kg	4
			CP505	3	10 in Lock Pins	7 lbs / 3.1 kg	5
			CP601	1	Conduit Frame Adapter	55 lbs / 24.9 kg	6
			S-8512	1	12 in Sheave	7 lbs / 3.1 kg	7
CP630	Boom Extension Kit	21 lbs / 9.5 kg	CP622	3	12 in Lock Pins	3 lbs / 1.3 kg	8
			CP631	1	Boom Extension	18 lbs / 8.1 kg	9
CP700	Puller Base Extension Kit	84 lbs / 38.1 kg	CP503	1	2 ft Chain Assembly	3 lbs / 1.3 kg	10
			CP505	2	10 in Lock Pins	7 lbs / 3.1 kg	11
			S-8512	1	12 in Sheave	7 lbs / 3.1 kg	12
			CP701	1	Puller Base Extension	25 lbs / 11.3 kg	13
			CP702	1	Coupling Clam	8 lbs / 3.6 kg	14
			CP706	1	3 in Conduit Coupling	5 lbs / 2.2 kg	15
			CP707	1	3 1/2 in Conduit Coupling	4 lbs / 1.8 kg	16
			CP708	1	4 in Conduit Coupling	3 lbs / 1.3 kg	17

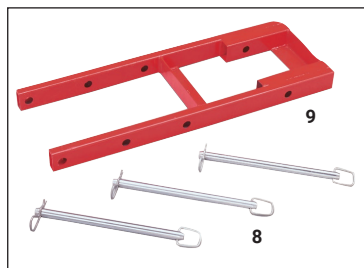


CP800



CP800

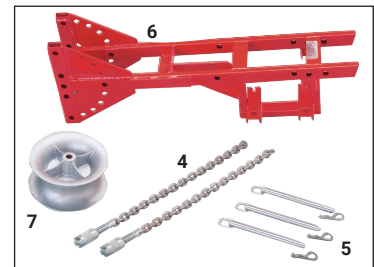
*Complete with 1 3/4 in x 5 1/2 in (4.4 cm x 13.9 cm) concrete wedge anchors.



CP630



CP700



CP600

OPTIONAL EQUIPMENT

May be purchased as additions to existing cable-puller sets.

Part #	Description	Weight	I.D. #
CP709	6 in Lock Pin	2 lbs / 0.9 kg	1
HS-8512	12 in Cable Sheave with Hook	20 lbs / 9.0 kg	2
CP10-186	Load Readout (meter only CA1064001)	3 lbs / 1.3 kg	3
CP15	Foot Switch for Remote Operation	4 lbs / 1.8 kg	4
CP504	6 ft Chain Assembly	6 lbs / 2.7 kg	5
CP705	2 1/2 in Conduit Coupling	6 lbs / 2.7 kg	6
CP10-130	Capstan (standard) 10 ft /min.	7 lbs / 3.1 kg	7



*See Appendix A for Brutus Puller Application Instructions.
 Pg. 172 - 174

Conduit Fishing



HS-8512

HOOK SHEAVES

Suspends cable overhead and reduces strain on pulling equipment.

- Keeps cable together for easier manageability and enables direction of cable to be changed.
- Sheave made of rugged aluminum alloy. Hook frame made of welded steel.
- Rated at 8,000-lb (3,628.7-kg) capacity.

Part #	Description	Width	Dia.	Weight	Hook Only	Weight	Sheave Only	Weight
HS-8512	Hook Sheave	5 in / 12.7 cm	12 in / 30.4 cm	20 lbs / 9 kg	H-8512	13 lbs / 5.8 kg	S-8512	7 lbs / 3.1 kg

RGP-3860



RGP-3825

RGP-2525

POLY-PRO GENERAL PURPOSE ROPE

Strong, durable, lightweight polypropylene general purpose rope for manual wire pulling and general construction applications (barrier rope, tie downs, tow rope, etc.).

- Resistant to mildew, rot and chemical action.

Part #	Size	Working Load	Weight
RGP-2525	1/4 in x 250 ft / 6.3 mm x 76 m	113 lbs / 51.2 kg	4 lbs / 1.8 kg
RGP-2560	1/4 in x 600 ft / 6.3 mm x 182 m	113 lbs / 51.2 kg	9 lbs / 4 kg
RGP-3825	3/8 in x 250 ft / 9.5 mm x 76 m	243 lbs / 110.2 kg	10 lbs / 4.5 kg
RGP-3860	3/8 in x 600 ft / 9.5 mm x 182 m	243 lbs / 110.2 kg	23 lbs / 10.4 kg



WARNING

Not recommended for powered cable pulling.



Conduit Fishing

LUBRICANTS

WIRE-AIDE WIRE-PULLING LUBRICANT

Slides on smoothly and clings throughout the pull. Modified wax-base formula dries to a slippery film.

- Greaseless, non-toxic compound will not stain skin, clothing or construction trim; cleans up quickly with soap and water.
- Stable and safe to use. Withstands normal temperature extremes and will not dry out in the container. Non-combustible, non-conductive and non-corrosive.
- Will not damage conduit or insulation.
- Remains stable with multiple freeze-thaw cycles.
- Suitable for fiber-optic wire.

Part #	Container Size	Weight
79-002	1 gal / 3.7 L Pail	9 lbs / 4 kg
79-003	5 gal / 18.9 L Pail	42 lbs /19 kg
79-006N	1 qt / 946.3 mL Squeeze Bottle	2 lbs /0.9 kg

POLY-GEL CABLE-PULLING LUBRICANT

Perfect for all types of insulation and conduit, including fiber-optic cable, cable with low-density, linear low-density polyethylene, polyurethane and semi-conducting jackets.

- Clean, clear gel, water-based for easy cleanup. Non-staining and non-toxic.
- Dries to a clear, non-conductive film for easy handling, stripping and terminating of cable. Will not gum up or harden on conduit.
- Easy and versatile to use. Apply manually or with pump.
- Workable over wide temperature range: Poly-Gel 28° F to 200° F (-2° C to 93° C) • All Season Poly-Gel -10° F to 180° F (-23° C to 82° C).

Part #	Description	Container Size	Weight
79-201	Poly-Gel	1 qt / 946.3 mL Squeeze Bottle	2.5 lbs / 1.1 kg
79-202	Poly-Gel	1 gal / 3.7 L Pail	8.75 lbs / 3.9 kg
79-203	Poly-Gel	5 gal / 18.9 L Pail	42 lbs /19 kg
79-301	All Season Poly-Gel	1 qt / 946.3 mL Squeeze Bottle	2.5 lbs / 1.1 kg

SUPER-SLICK CABLE-PULLING LUBRICANT

Slick film will not rub off or dry out on long pulls or re-pulls.

- Lowest pulling tension. This nVent GARDNER BENDER lubricant reduces friction by an additional 30% compared to regular lubricants.
- Requires up to 45% less lubricant per foot than regular lubricants, actually reducing cable-pulling costs.
- Stable under temperature extremes of 28° F to 200° F (-2° C to 93° C) and withstands repeated freeze-thaw cycles.
- Harmless to skin and safe for the environment. Non-toxic, non-flammable and non-corrosive to all conduit types. Easily cleans up with water and will not stain clothing.
- Universally compatible with all cable types and jacket materials, including low-density and linear low density polyethylene, polyurethane and semi-conducting jackets.

Part #	Container Size	Weight
79-401	1 qt / 946.3 mL Squeeze Bottle	2.5 lbs / 1.1 kg
79-402	1 gal / 3.7 L Jug	8.75 lbs / 3.9 kg
79-403	5 gal / 18.9 L Pail	42 lbs /19 kg

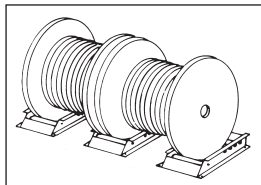
Wire and Cable Pulling Lubricant Specifications

	Wire-Aide	Poly-Gel	All Season Poly-Gel	Super-Slick
Base	Wax, modified	Poly-oxyethylene/Water	Polyethylene polymer	Water
Color	Yellow	Blue	Lime Green	White
Viscosity	66,000 - 94,000 cps @ 10 rpm	70,000-110,000 cps @ 10 rpm	70,000-110,000 cps @ 10 rpm	12,000-20,000 cps @ 10 rpm
pH	Approx. 6.5 - 8.0	6.5 - 8.5	Approx. 6.5 - 8.5	7.5 - 9.0
Freezing Point	32° F / 0° C	32° F / 0° C	18° F / -7° C	32° F / 0° C
Freeze-Thaw Stability	OK/3 cycles	Excellent	OK/3 cycles	Excellent
Lubricity	Excellent	Excellent	Excellent	Excellent
Shelf Life	Indefinite	Indefinite	Indefinite	Indefinite
Corrosion Test	Non-corrosive to metals	Non-corrosive	Non-corrosive to metals	-
Staining Properties	Non-staining to hard surfaces	Non-staining	Non-staining to hard surfaces	Non-staining
Removal	Soap and hot water	Soap and water	Soap and water	Water Rinse
Abrasion Protection	Excellent	-	-	Excellent
Cling Ability	Excellent	Excellent	Excellent	Excellent
Water Resistance	Repels water to some extent	-	-	-
Hardening Character	Non-hardening	-	-	Non-Hardening
Condition on Drying	Waxy film	Semi-fluid film	Lubricious film	Slick film
Flash Point	Non-combustible	Non-combustible	Non-combustible	Non-combustible





WRR-100



MATERIAL HANDLING

HANDY-SAVER REEL ROLLER

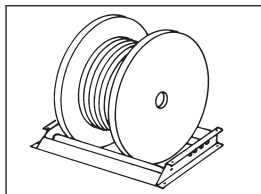
Durable roller base that permits fast, easy loading and re-loading.

- 3000 lb capacity per pair.
- Slanted ramp permits fast, easy loading and unloading.
- Five roller slot adjustments set for wide range of reel diameters; no limit on reel widths.
- Epoxy-coated solid steel platform withstands heavy use.
- For 15 in (38.1 cm) to 30 in (76.2 cm) diameter reels.
- Dimensions: 26 in L x 11 1/4 in W x 4 1/2 in H (66 cm L x 28.5 cm W x 11.4 cm H).

Part #	Description	Weight
WRR-100	Handy-Saver Reel Roller (1 ea.)	48 lbs / 21.7 kg



WRR-300



30 IN (76.2 CM) REEL ROLLER

Holds reels up to 30 in (76.2 cm) diameter; 2000 lb / 907.1 kg capacity.

- Five roller slot adjustments to fit reel diameter.
- Epoxy-coated solid steel platform with handy loading/unloading ramp.
- Dimensions: 33 1/2 in L x 26 1/2 in W x 4 1/2 in H (85.0 cm L x 67.3 cm W x 11.4 cm H)

50 lbs	Description	Weight
WRR-300	30 in Reel Roller	50 lbs / 22.6 kg



TRJ-56

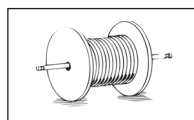
TRJ-96

TELESCOPING REEL JACKS

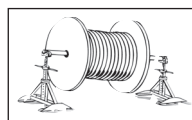
Easily set up in minutes to dispense or take up wire, cable, rope or hose.

- Adjustable jack height accommodates various reel sizes.
- Roller bearings on jack permit smooth reel rotation.
- High-strength steel construction holds up to 5000 lb / 2267.9 kg reel.

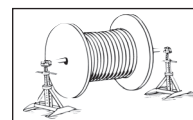
50 lbs	Dimensions (L x W)	Jack Height	Reel Capacity		Weight
		Range	Size	Weight	
TRJ-56	14 1/2 in x 15 in / 36.8 cm x 38.1 cm	13 in / 33 cm to 28 in / 71.1 cm	28 in / 71.1 cm to 56 in / 142.2 cm	2500 lbs / 1133.9 kg (ea.)	25 lbs / 11.3 kg
TRJ-96	24 in x 16 in / 60.9 cm x 40.6 cm	22 in / 55.8 cm to 54 in / 137.1 cm	46 in / 116.8 cm to 96 in / 243.8 cm	2500 lbs / 1133.9 kg (ea.)	49 lbs / 22.2 kg



Insert spindle through center of reel.



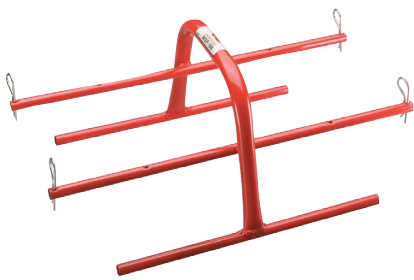
Place reel jacks under each end of spindle, aligning roller bearings with spindle grooves, and raise one jack until reel end clears floor.



Raise opposite jack until spindle is level.



Conduit Fishing



WSP-100E

HAND WIRE CADDY

Convenient hand carrying or dispensing of small quantities of reeled wire.

- Rugged construction from 5/8 in (15.8 mm), .083 steel tubing, epoxy-coated to reduce chipping and peeling.

Holds up to:

- 8 reels, each 7 in (17.7 cm) diameter and 5 in (12.7 cm) wide
- 4 reels, each 7 in (17.7 cm) diameter and 6 in (15.2 cm) - 10 in (25.4 cm) wide

Part #	Description	L x W x H	Weight
WSP-100E	Hand nVent CADDY	22 1/2 in x 13 1/2 in x 9 1/2 in / 57.1 cm x 34.2 cm x 24.1 cm	6 lbs / 2.7 kg



WSP-115

PORTABLE WIRE CADDY

Maximum flexibility to dispense six 500 ft (152.40 m) spools of #6 to #10 AWG or twelve 7 in (17.7 cm) diameter by 5 in (12.7 cm) wide wire reels at the same time.

- Durable welded square-tube steel frame to stand up to tough job-site applications.
- WSP-115 model comes with wire guide and casters.

Part #	Description	L x W x H	Weight
WSP-115	Wire nVent CADDY with Casters	16 in x 26 in x 20 1/2 in / 40.6 cm x 66 cm x 52 cm	8 lbs / 3.6 kg



SPOOL CADDY CART

Transport and dispense reels of building wire, coaxial and multi-conductor cables.

- Hand nVent CADDY WSP-100E is included. The caddy is easily attached to and detached from cart for maximum capacity and flexibility.
- Constructed of heavy-duty, steel tubing holds up to 300 lbs (136 kg).
- Semi-pneumatic steel wheels are much more durable than plastic wheels.
- Special channel allows up to two hand caddies to attach to cart.
- Holds up to:
 - 4 - 8 reels, each 5 in (12.7 cm) - 7 in (17.7 cm) diameter and 5 in (12.7 cm) - 10 in (25.4 cm) wide
 - 4 reels, each 10 in (25.4 cm) - 12 in (30.4 cm) diameter and 7 in (17.7 cm) wide
 - 2 reels, each 15 in (38.1 cm) - 18 in (45.7 cm) diameter and 14 in (35.5 cm) wide

Part #	Description	L x W x H	Weight
WSP-140	Spool nVent CADDY w/ WSP-100E	22 in x 16 in x 43 in / 55.8 cm x 40.6 cm x 109.2 cm	27 lbs / 12.2 kg



WSP-144

DELUXE SPOOL CART & CADDY COMBO

- Holds up to 23 500 ft (152.40 m) spools or two 2,500 ft (762 m) spools.
- Constructed of heavy-duty steel tubing holds up to 400 lbs (181.4 kg) Durable semi-pneumatic wheels.
- WSP-144 offers five spool holders that attach in six positions to hold reel/spool combinations:
 - 10 - 23 reels, each 5 in (12.7 cm) - 7 in (17.7 cm) diameter and 5 in (12.7 cm) - 10 in (25.4 cm) wide
 - 4 reels, each 10 in (25.4 cm) - 12 in (30.4 cm) diameter, 7 in (17.7 cm) wide
 - 2 reels, each 15 in (38.1 cm) - 18 in (45.7 cm) diameter, 14 in (35.5 cm) wide
- Hand Caddy (WSP-100E) is easily attached to and detached from cart using a special channel.

Part #	Description	L x W x H	Weight
WSP-144	Deluxe Spool nVent CADDY	22 in x 18 1/2 in x 43 in / 55.8 cm x 46.9 cm x 109.2 cm	28 lbs / 12.7 kg



WSP-150

HEAVY-DUTY SPOOL CADDY

- Constructed of heavy-duty steel tubing, holds up to 700 lbs.
- Shock-absorbing, semi-pneumatic wheels mounted on ball bearing steel rims with easy-service grease fittings.
- Dispenses THHN, THW, NM wire and other materials from horizontal or vertical position.
- Two wire guide feeders permit wire feed in any direction.
- WSP-150 has a versatile carrying capacity. Holds up to:
 - 4 reels, each 10 in (25.4 cm) diameter and 15 in (38.1 cm) wide
 - 3 reels, each 12 in (30.4 cm) - 14" diameter
 - 2 reels, each 12 in (30.4 cm) - 15 in (38.1 cm) diameter and 15 in (38.1 cm) wide
 - 1 reel, 24 in (60.9 cm) diameter and 15 in (38.1 cm) wide

Part #	Description	L x W x H	Weight
WSP-150	Heavy-Duty Spool CADDY	22 in x 18 1/2 in x 45 in / 55.8 cm x 46.9 cm x 114.3 cm	60 lbs / 27.2 kg



Conduit Fishing

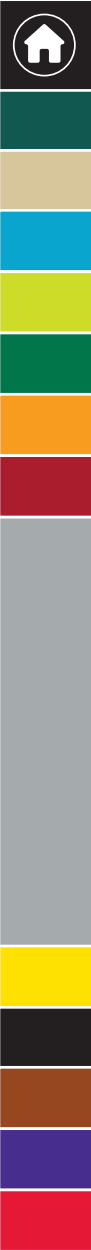


WIRE DISPENSER

- Holds up to:
 - 10 reels, each 18 in (45.7 cm) diameter
- Swivels a full 360° on the base.
- All-steel construction.
- Base has two fixed and two swivel locking casters.
- Spindles are mounted at an angle to keep wire reels in proper payout position.
- Easily rolls through standard 36 in (91.4 cm) door opening.

Part #	Description	L x W x H	Weight
WCM-10	Wire Dispenser	36 3/8 in x 31 3/8 in x 59 1/4 in / 92.3 cm x 79.6 cm x 150.4 cm	155 lbs / 70.3 kg

NOTES



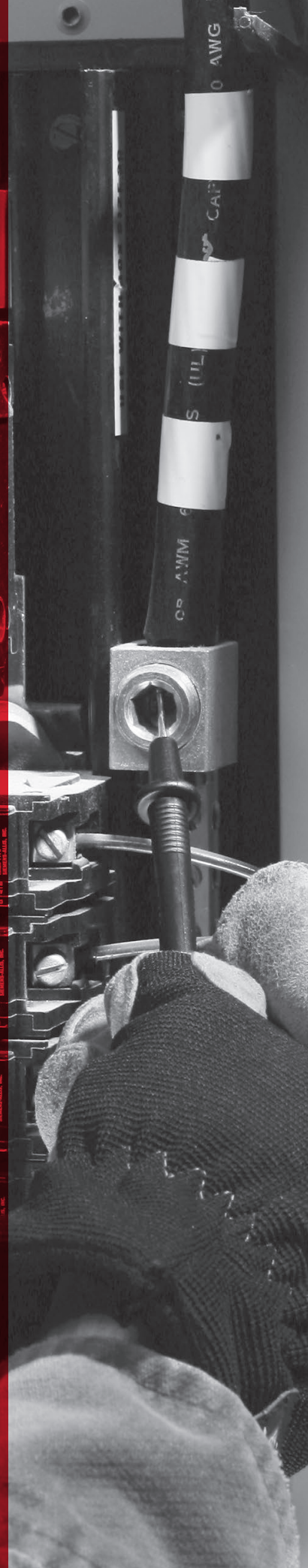


TEST & MEASURE

Testing equipment can be put to good use ensuring that electrical equipment is properly installed and safe to operate.

Faulty installations can be lethal; the condition of electrical installations can be established when contractors use test equipment.

nVent GARDNER BENDER is pleased to offer this innovative, full featured line of test equipment designed to make electrical work faster and safer.



Test & Measure



Analog Multimeters	130	USB Testers	129
Battery Testers	133	USB Multimeter	129
Analog Battery Tester	133	USB Tester	129
Household Battery Tester	133	Voltage Testers	124
Test Leads	133	Automotive Voltage Tester	126
Clamp-On Multimeters	132	nVent GARDNER BENDER Circuit Alert Non-Contact Voltage Detector	127
Clamp-On Multimeters	132	Combination Screwdriver, Voltage Probe & Continuity Tester	125
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Household Electrical Tester Kits	134	Twin Probe Circuit Tester	124
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VOLTAGE TESTERS

Selection Chart



Feature	GET-3202	GET-3100	GET-3213	GCV-3206	GVT-392	GCT-3304	GAT-3400	GVD-3504	GVD-3505
Voltage Range									
AC Voltage	5-50V	80-250V	80-300V	12-250V	120-480V	-	-	50-600V	12-600V
DC Voltage	5-50V	80-250V	80-300V	12-250V	120-240V	-	6-12V	-	-
Non-Contact Voltage	-	-	-	-	-	-	-	✓	✓
Functions									
Polarity	-	-	-	-	✓	-	-	-	-
Continuity	-	-	-	✓	-	✓	-	-	-
Indication									
Audible	-	-	-	-	-	-	-	✓	✓
Visual	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vibration	-	-	-	-	✓	-	-	-	-
General									
Lead Length	5.5 in / 13.9 cm	2 in / 5 cm	24 in / 60.9 cm	30 in / 76.2 cm	26 in / 66 cm	36 in / 91.4 cm	36 in / 91.4 cm	-	-
Pocket Clip	✓	✓	✓	✓	-	✓	✓	✓	✓
Agency Approval						-	-		
CAT Rating	I 50V	II 300V	II 300V	-	II 600V	-	-	III 600V	III 600V
Drop Rating	6 ft / 1.82 m	6 ft / 1.82 m	6 ft / 1.82 m	6 ft / 1.82 m	6 ft / 1.82 m	6 ft / 1.82 m	6 ft / 1.82 m	6 ft / 1.82 m	6 ft / 1.82 m
Crush Rating	150 lb / 68 kg	150 lb / 68 kg	150 lb / 68 kg	150 lb / 68 kg	150 lb / 68 kg	150 lb / 68 kg	150 lb / 68 kg	150 lb / 68 kg	150 lb / 68 kg
Warranty	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY



GET-3202

LOW VOLTAGE TWIN PROBE CIRCUIT TESTER

Tests AC/DC Voltage from 5 - 50 V, 50-60 Hz.

- Indicator glows when voltage is present and brightens as voltage increases.
- Insulated alligator clip test leads.
- Pocket clip for added convenience.
- Dual Insulated, durable ABS housing

TESTS

- Low volt outdoor lighting
- Low volt control panels
- Doorbells
- Alarm systems
- Automotive
12 V DC and 36 V DC



No batteries required



Part #	Description
GET-3202	Low Voltage Twin Probe Circuit Tester



GET-3100

TWIN PROBE CIRCUIT TESTER

Tests AC/DC Voltage from 80-250 V.

- Neon indicator glows when voltage is present and brightens as voltage increases.
- Insulated housing.
- Insulated test leads.
- Pocket clip for added convenience.
- 2 in (5 cm) test lead.

TESTS

- DC motors
- Switches
- Outlets



No batteries required



Part #	Description
GET-3100	Twin Probe Circuit Tester



GET-3213



HEAVY-DUTY 3-WAY VOLTAGE TESTER

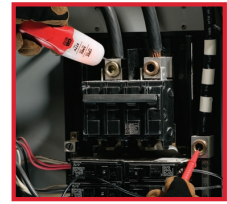
Tests AC/DC Voltage at 120, 240 and 277 V.

- Individual indicators for each voltage range assures reliability.
- Functional, lightweight design features twin flexible leads and convenient pocket clip.
- 24 in (60.9 cm) test lead.
- Dual insulated, durable ABS housing.

TESTS

- Outlets
- Panels
- Light fixtures
- Switches
- Circuit Breakers

Part #	Description
GET-3213	Heavy-Duty 3-way Voltage Tester



No batteries required



GCV-3206



COMBINATION SCREWDRIVER, VOLTAGE PROBE & CONTINUITY TESTER

Tests for Continuity and AC/DC Voltage from 12-250 V.

- LED indicator glows when voltage or continuity exists.
- Operates from (2) LR-44 batteries, included.
- Convenient screwdriver tip for quick faceplate removal.

TESTS

- Outlets
- Fuses
- Switches
- Extension cords
- Light fixtures
- Low Voltage Lighting Circuits

Part #	Description
GCV-3206	Combination Screwdriver, Voltage Probe & Continuity Tester



Test continuity and voltage



GVT-392



SOLENOID VOLTAGE TESTER

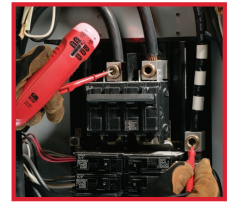
Tests for DC Polarity and AC/DC Voltage from 120 - 480 V.

- Dual voltage indication: solenoid vibration and neon bulb.
- Neon bulb indicates DC polarity.
- Built-in slots in housing hold probes for one-hand testing and storage.
- 4 ft (1.21 m) reach from probe to probe with probes unlocked.
- High-impact, dual insulated, case stands up to rugged service.

TESTS

- Outlets
- Panels
- Light fixtures
- Switches
- Circuit Breakers
- Extension Cords

Part #	Description
GVT-392	Combination Screwdriver, Voltage Probe & Continuity Tester



Probes lock together to enable one handed testing of standard outlet



GCT-3304



HEAVY-DUTY CONTINUITY TESTER

Tests for continuity in non-energized circuits.

- 36 in (91.4 cm) insulated test lead with alligator clip.
- Bright indicator bulb lights if continuity exists.
- Operates from (2) AAA batteries.
- Pocket clip for added convenience.

TESTS

- Extension cords
- Fuses
- Switches
- Water heater coils
- Unenergized low voltage wiring

Part #	Description
GCT-3304	Heavy-Duty Continuity Tester



Test continuity of switches



GAT-3400



AUTOMOTIVE VOLTAGE TESTER

Tests for DC Voltage from 6 - 12 V in automotive applications.

- Durable ABS Housing w/pocket clip.
- 3 ft (7.6 cm) test lead with alligator clamp.
- Pocket clip for added convenience.

TESTS

- Fuses in junction block
- Automotive circuits for voltage
- Back probe connectors & sockets

Part #	Description
GAT-3400	Automotive Voltage Testers



No batteries required



NON-CONTACT VOLTAGE TESTERS

Comparison Chart



Feature	GVD-3504	GVD-3505
Detection Range	50-600 V AC	12-600 V AC
Visual	✓	✓
Audible	✓	✓
Adjustable Sensitivity	-	✓
Pocket Clip	✓	✓
Agency Approvals		
Warranty	1 YEAR WARRANTY	1 YEAR WARRANTY
Batteries (included)	1 AAA	(2) Button Cells

CIRCUIT ALERT NON-CONTACT VOLTAGE DETECTOR

Indicates the presence of AC Voltage from 50 - 600 V.

- Visual (flashing) and audible (beeping) indicators signal presence of voltage.
- Built-in "safe test" feature assures batteries are operating properly.
- Compact design fits in shirt pocket.
- Operates from 1-AAA battery.
- Pocket clip for added convenience.

TESTS

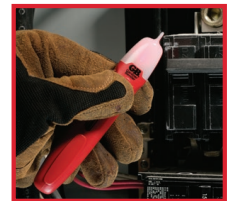
- Outlets
- Switches
- Circuit breaker panels
- Wiring
- Light fixtures



GVD-3504



Patented



Test light fixtures, outlets, or circuit breaker panels.

LIVE-WIRE

Non-contact detection of AC Voltage from 12 - 600 VAC with adjustable sensitivity for multiple-wire applications.

- Visual (flashing) and audible (beeping) indicators signal presence of voltage.
- Adjustable sensing levels.
- Built-in "safe test" feature assures batteries are operating properly.
- Operates from 2-LR44 1.5 Volt batteries (included).

TESTS

- Doorbells
- Low voltage lighting
- Outlets
- Switches
- Electrical panels
- Light fixtures



GVD-3505



Patented



Increasing the sensitivity increases the detection range

Part #	Description
GVD-3505	Live-Wire



RECEPTACLE TESTERS / ANALYZERS

Comparison Chart



Feature	GRT-3500	GFI-3501
Open Ground	✓	✓
Open Neutral	✓	✓
Open Hot	✓	✓
Hot / Ground Reversed	✓	✓
Hot / Neutral Reversed	✓	✓
Correct Wiring	✓	✓
GFCI Test Function	-	✓
Agency Approvals		
Warranty	1 YEAR WARRANTY	1 YEAR WARRANTY



GFI-3501



GROUND FAULT RECEPTACLE TESTER & CIRCUIT ANALYZER

Tests ground fault receptacles by tripping GFCI.

- Easy to use. Simply plug tester into any circuit protected by a ground fault receptacle (110 - 125 V AC) and press black button to test GFCI.
- Tests for seven conditions: ground fault interruption, open ground, open neutral, open hot, hot/ground reverse, hot/neutral reverse, and correct wiring.
- Succession of yellow and red lights provides indication of circuit status or specifies wiring errors.
- Tester trips GFCI between 6 - 9 mA.

TESTS

- Standard outlets
- Extension cords
- GFCI outlets

Part #	Description
GFI-3501	Ground Fault Receptacle Tester & Circuit Analyzer



Tests standard outlets



Tests outlets protected by GFCIs



GRT-3500



RECEPTACLE TESTER & CIRCUIT ANALYZER

Tests standard receptacles to ensure proper wiring.

- Neon indicators give positive indication of circuit status.
- Compact unit simply plugs into any standard 3-wire/grounded receptacle (110 - 125 V AC circuits).
- Tests for six circuit conditions: open ground, open neutral, open hot, hot/ground reverse, hot/neutral reverse, and correct wiring.
- Succession of yellow and red lights provides indication of circuit status or specifies wiring errors.
- Easy to read status chart displayed on both the top and bottom of the tester for multiple position viewing.

TESTS

- Standard outlets
- Extension cords

Part #	Description
GRT-3500	Receptacle Tester & Circuit Analyzer



Tests standard outlets



USB TESTERS

Comparison Chart



Feature	GUSB-3300	GUSB-3450
Tests USB Port Function	✓	✓
Test for AC Voltage	✓	–
Test for Negative Polarity	✓	–
Test USB Cables	–	✓
Voltage Measurement	–	✓
Current Measurement	–	✓
Warranty	1 YEAR WARRANTY	1 YEAR WARRANTY



One Year Warranty



GUSB-3300

USB TESTER

Check USB ports for the presence of AC/DC voltage and verify proper wiring and polarity.

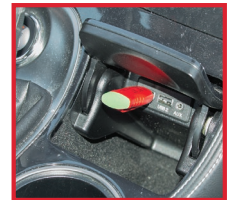
- LED illuminates to indicate one of four different USB conditions: dead port, ok port, reversed polarity, or AC voltage present.
- Compact design fits in shirt pocket.
- High impact housing with pocket clip for added convenience.

TESTS

- USB ports

GUSB-3300 USB Tester LED Color

LED Color	Range	Indication
Not Lit	0 to 2 V AC/DC	Dead port
Green	3 to 6 VDC	Port Ok
Red	–3 to –6 VDC	Reversed Polarity
Amber	3 to 6 VAC	AC Voltage Present



Test USB port functionality

Part #	Description
GUSB-3300	USB Tester

USB MULTIMETER

Check USB ports for proper voltage and current delivery. Test phone and tablet charging cables.

- Plug USB charging cables into the end of the USB multimeter to measure voltage and current draw.
- Display alternates between voltage (volts) and current (amps).
- Compact design fits in shirt pocket.

TESTS

- USB ports
- USB cables

Part #	Description
GUSB-3450	USB Multimeter



One Year Warranty



GUSB-3450



Test USB ports or USB cables



Test & Measure

ANALOG MULTIMETERS

Full family of analog multimeters test AC Voltage, DC Voltage, DC Current, Resistance, Continuity, and batteries.

- Manual range selection.
- Easy to read, color-coded analog displays.
- All testers include test leads and operating instructions.
- All are Agency approved and incorporate fuse overload protection circuitry.



Test circuit breakers



Test outlets



ANALOG MULTIMETERS

Comparison Chart



Feature	GMT-312	GMT-318	GMT-319
Voltage Range			
AC Voltage	300V	500V	1000V
DC Voltage	300V	500V	1000V
Current Range			
AC Current	–	–	–
DC Current	150 mA	250 mA	10 A
Functions			
Resistance	1 Meg	50K	10 Meg
Decibels (on AC voltage ranges)	–20 to +56dB	–20 to +56dB	–8 to +62dB
Continuity (Audible)	–	–	✓
Battery Testing	Internal	✓ 1.5 & 9V	✓ 1.5 & 9V
Specifications			
Manual Range Selection	✓	✓	✓
Total Functions	5	6	7
Total Ranges	12	14	19
Fuse	250 mA	250 mA	500 mA & 10A
Accuracy	±5%	±4%	±4%
General			
Agency Approval			
CAT Rating	II 300V	II 500V	II 1000V
Warranty	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY



DIGITAL MULTIMETERS

Full family of digital multimeters test AC Voltage, DC Voltage, Resistance, Continuity, Temperature, Diodes, and Batteries

- Manual and auto ranging styles.
- Easy to read digital displays.
- All testers include test leads and operating instructions.
- Conforms to UL 61010-1 standards and certified to CAN/CSA C22.2.



Test outlets



Test lead holders for one-handed testing (GDT-3190 & GDT-3200 only)



Back-Lit Display (GDT-3200 only)



DIGITAL MULTIMETERS

Comparison Chart



Feature	GDT-311	GDT-3190	GDT-3200
Voltage Range			
AC Voltage	500V	500V	500V
DC Voltage	600V	600V	600V
Functions			
Resistance	2 meg Ω	2 meg Ω	20 meg Ω
Diode Test	-	-	✓
Continuity (Audible)	-	-	✓
Temperature (Probe type)	-	-	32 to 482° F / 0 to 250° C
Battery Testing	-	✓ 1.5 V, 9 V, 12 V	✓ 1.5V
Specifications			
Manual or Auto Ranging	Manual	Manual	Auto
Total Functions	3	4	7
Total Ranges	12	15	7
Display Count	2000	2000	2000
Low Battery Indicator	✓	✓	✓
Auto Off	-	✓	✓
Rubber Boot	-	✓	✓
Backlit LCD	-	-	✓
General			
Agency Approval	ETL CE	ETL CE	ETL CE
Drop Rating	3 ft / 0.91 m	6 ft / 1.82 m	6 ft / 1.82 m
Crush Rating	150 lb / 68 kg	150 lb / 68 kg	150 lb / 68 kg
CAT Rating	III 600V	III 600V	III 600V
Warranty	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY



Test & Measure

CLAMP-ON MULTIMETERS

nVent GARDNER BENDER clamp meters test AC Current, AC Voltage, DC Voltage, Resistance and Continuity.

- Manual and autoranging styles.
- Easy-to-read displays.
- All testers include test leads and operating instructions.



Voltage (GCM-221)



Voltage (GCM-500)

CLAMP-ON MULTIMETERS

Comparison Chart



Feature	GCM-500	GCM-221
Voltage Range		
AC Voltage	600 V	600 V
DC Voltage	600 V	600 V
Current Range		
AC Current	600 A	600 A
Functions		
Resistance	300 k Ω	200 k Ω
Continuity	–	✓
Audible Buzzer	–	✓
Specifications		
Manual or Auto Ranging	Manual	Auto
Total Functions	4	6
Total Ranges	10	6
Display Count	–	1999
Data Hold	–	✓
Jaw Size	1 in / 25.4 mm	1 in / 25.4 mm
General		
Agency Approval		
Drop Rating	3 ft / 0.91 m	3 ft / 0.91 m
Crush Rating	150 lb / 68 kg	150 lb / 68 kg
CAT Rating	III 600 V	II 600 V, III 300 V
Warranty	1 YEAR WARRANTY	1 YEAR WARRANTY



TEST LEADS

Tests most common household battery types to determine existing charge.

- Tough ABS construction.
- Flexible cords for easy use.

Part #	Description	Models
RTL-107	Push-on Alligator Clips	RTL-103, RTL-108, RTL-200
RTL-108	Mid-size Test Leads	GMT-312, GMT-318
RTL-200	Large Test Leads	GDT-311, GDT-3190, GDT-3200, GMT-319, GCM-500, GCM-221

BATTERY TESTERS

ANALOG BATTERY TESTER

Tests all common batteries to determine if they are charged or need replacement.

- Tests from 1.5 V button cells to 22.5 V photo cells.
- Includes test leads for easy testing.

TESTS

- AA, AAA, C, D, N
- 1.5 V button cells
- 1.25 V Ni-Cad rechargeable
- 3 V lithium
- 22.5 V photo & lantern cells
- 6 V lantern
- 12 V, 15 V Photo cells
- 9 Volt



Use test leads to measure battery charge



One Year Warranty

GBT-500A

Part #	Description
GBT-500A	Analog Battery Tester

HOUSEHOLD BATTERY TESTER

Tests most common household battery types to determine existing charge.

- Moveable contact arm fits multiple battery sizes.
- Simple "Low/Good" indicator.

TESTS

- AA
- AAA
- C
- D
- 9 V
- 1.5 V button cells



Movable contact arm fits multiple battery sizes



GBT-3502

Part #	Description
GBT-3502	Household Battery Tester



TESTER KITS



GK-5



HOUSEHOLD ELECTRICAL TESTER KITS

Includes the most commonly used household testers.

- Tests voltage, GFCI receptacles, batteries and USB ports
- Simple to use for DIY projects
- Easy to understand audible and visual indicators

TESTS

- Wiring
- Switches
- Circuit breaker panels
- Household batteries
- Extension cords
- Light fixtures
- Standard outlets
- GFCI outlets
- USB ports

Part #	Description
GK-5	Household Testers Kit
GTK-2	2-Piece Electrical Tester Safety Kit

Tester Included	GK-5	GTK-2
Non-Contact Voltage Tester	✓	✓
GFCI Outlet Tester	✓	✓
USB Tester	✓	-
Battery Tester	✓	-



Receptacle Tester



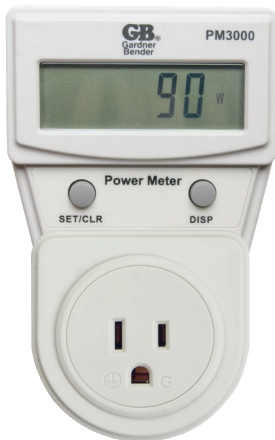
Non-Contact Voltage Tester



USB Tester



Battery Tester



PM3000



POWER METER

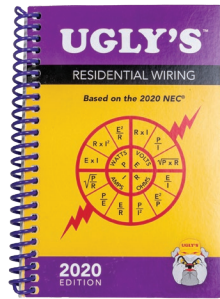
Monitor energy consumption and help assess the efficiency of appliances.

- Measures energy consumption in Kilowatt hours, volts, amps, watts, and Hz
- Easy to read LCD screen
- Accurately, safely, & reliably monitor appliances for cost planning

Part #	Description
PM3000	Energy Power Meter



Measure energy consumption for cost planning



ERB-UG



ERB-WS

ELECTRICAL REFERENCE BOOKS

Reference books that outline safe wiring recommendations based on the National Electric Code.

Part #	Pkg Qty	Description
ERB-UG	1	Ugly's Electrical References - Revised 2017 Edition. A quick, on-the-job reference guide for the most commonly required information in an easy-to-read format.
ERB-WS	1	Wiring Simplified 43rd Edition - A comprehensive book that translates the NEC rules into easy-to-understand explanations on how to complete safe wiring installs in homes.

REPLACEMENT PARTS AND ACCESSORIES

Test Instruments

Model	FUSES					Batteries
	10A/250V	0.5A/250V	2.0A/250V	0.2A/250V	0.25A/250V	
Analog Multimeters						
GMT-312	-	-	-	✓	-	(1) AA
GMT-318	-	✓	-	-	-	(1) AA
GMT-319	-	✓	-	-	-	(2) AAA
Digital Multimeters						
GDT-311	-	-	-	-	-	(1) 9 Volt
GDT-3190	-	-	-	-	-	(1) 9 Volt
GDT-3200	-	-	-	-	-	(2) AAA
Clamp Meters						
GCM-221	-	-	-	-	-	(1) 9 Volt
GCM-500	-	✓	-	-	-	(1) AA
Probe Testers						
GAT-3400	-	-	-	-	✓	-
GBT-500A	✓	-	-	-	-	-
GBT-3502	✓	-	-	-	✓	-
GCT-3304	-	-	-	-	-	(2) AAA
GCV-3206	-	-	-	-	-	(2) LR44
GET-3100	-	-	-	-	-	-
GET-3202	-	-	-	-	-	-
GET-3213	-	-	-	-	-	-
GVD-3504	-	-	-	-	-	(1) AAA
GVD-3505	-	-	-	-	-	(2) 1.5 V LR44
GVT-392	-	-	-	-	-	-



HAND TOOLS

Hand tools are a part of every tool box. With exclusive features for safety, durability, reliability and life strength, nVent GARDNER BENDER hand tools offer superior performance on every job.

Hand Tools



Coaxial Cable Strippers & Cutters	146
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RJ-45 / RJ-11 Modular Plug Crimp Tool	148
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Hand Tools



SAFE & CONVENIENT

This patented line of tools with Snap-in sensor detects AC voltage without contacting live wires



Wire Strippers



Screwdrivers



Pliers

BE SAFE. WORK SMART.

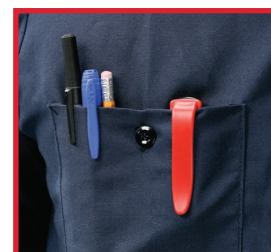
CIRCUIT ALERT VOLTAGE SENSING MODULE

- The Circuit Alert voltage sensing module fits in a variety of Circuit Alert tools.
- Non-contact AC voltage detection.
- Audio and visual alerts.
- Pocket clip.
- Tri-directional momentary on/off switch.

Patented



CAM-10



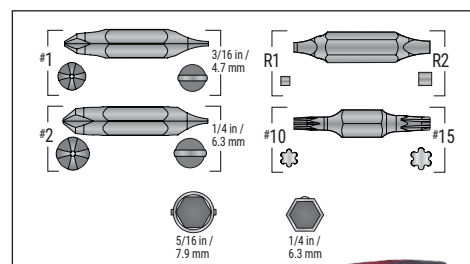
CAM-10 Pocket Clip

Part #	Description
CAM-10	Voltage-sensing module

CIRCUIT ALERT VOLTAGE SENSING SCREWDRIVER

- 10-in-1 screwdriver includes 10 different tips and sockets.
- Insulated comfort grip handle with Circuit Alert attachment.
- Bits can be stored in the handle.
- Use with Hex-Lok connectors.

Part #	Description	Bits
SDT-10	Circuit Alert Voltage Sensing Screwdriver 10-in-1	See diagram



10-in-1



SDT-10

See page 11
For more info on
Hex-Lok Wire Connector

CIRCUIT ALERT VOLTAGE SENSING LONG NOSE PLIERS

- Crimp terminals.
- Cut brass, copper, and aluminum wire.
- Strip 12-16 AWG solid wire, 14-18 AWG stranded wire.
- Comfort grip handles with Circuit Alert attachment.
- Forged steel construction for long life.
- Precision hardened cutting blades.

Patented



Part #	Description	Length
GPT-80	Circuit Alert Voltage Sensing Long Nose Pliers	8 in / 20.3 cm



Hand Tools



CIRCUIT ALERT VOLTAGE SENSING LINEMAN'S PLIERS

- Crimp terminals.
 - Cut brass, copper, and aluminum wire.
 - Comfort grip handles with Circuit Alert attachment.
 - Forged steel construction for long life.
 - Precision hardened cutting blades
 - Built-in hammer head surface.
 - Built-in groove for gripping and pulling flat fish tape.
- Patented



GPT-90

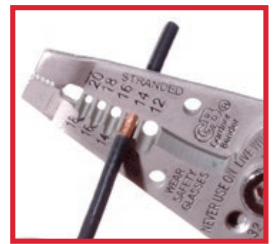
Part #	Description	Length
GPT-90	Circuit Alert Voltage Sensing Lineman's Pliers	8 in / 20.3 cm

CIRCUIT ALERT VOLTAGE SENSING WIRE STRIPPERS

Comparison Chart



Feature	GST-55M	GST-70M	GST-224M
Wire Stripping Range			
Solid	10-18 AWG	8-20 AWG	12 & 14 AWG
Stranded	12-20 AWG	10-22 AWG	-
NM Cable	-	-	14/2 & 12/2
Bolt Cutting Sizes	6-32, 8-32, 10-32	4-40, 5-40, 6-32, 8-32, 10-32, 10-24	6-32, 8-32, 10-32
Crimping	-	Insulated and non-insulated connectors	-
Spring Action Return	✓	-	✓



Wire Stripping

- Cut and strip solid and stranded mild steel, brass, copper, and aluminum wire.
 - Stainless steel body for maximum corrosion resistance.
 - Ergonomic cushioned handles with Circuit Alert attachment for ultimate comfort and control.
 - Double bevel cutting blades for superior nick resistance.
 - Dual gripping positions for traditional or forward hand positions.
 - Easy-to-read stamped markings.
 - Cuts and rethreads bolts.
 - Wire looping holes form wire to fit on screw terminals.
 - Plier nose for gripping and pulling.
- Patented



Volt Sensing (50-600 VAC)

Part #	Description	Wire Gauge	Length
GST-55M	Circuit Alert Voltage Sensing Wire Stripper	#10 - #18 AWG	7 in / 17.7 cm
GST-70M	Circuit Alert Voltage Sensing Crimper/Stripper	#8 - #20 AWG	7 in / 17.7 cm
GST-224M	Circuit Alert Voltage Sensing NM Cable Stripper	12/2 & 14/2 NM Cable	7 1/2 in / 19 cm



Bolt Cutting and Rethreading



GST-55M



GST-70M



GST-224M



Hand Tools

ARMOREDGE HAND TOOLS

nVent GARDNER BENDER's exclusive line of ArmorEdge hand tools are designed to be durable and long lasting. These tools feature a stainless steel body for maximum corrosion resistance. They are designed with double bevel cutting blades to provide superior nick resistance. ArmorEdge tools also have a Limited Lifetime Warranty, ensuring that these tools are built to last. Markings on these tools are laser-etched to make them easy to read. Ergonomic handles provide the ultimate comfort and control. The ArmorEdge line of hand tools includes a tool for almost any electrical application.

Comparison Chart



Feature	GES-55	GESP-55	GES-224	GESP-224	GESP-70	GBP-60N	GBP-61N	GBP-58N	GBP-07C	GBP-59P
Type of Hand Tool	Wire Stripper	Wire Stripper	Wire Stripper	Wire Stripper	Wire Stripper	Long Nose Wire Stripper	Long Nose Wire Stripper	Long Nose Pliers	Diagonal Cutting Pliers	Lineman's Pliers
Wire Stripping Range										
Solid	10-18 AWG	10-18 AWG	12-14 AWG	12-14 AWG	8-20 AWG	10-18 AWG	8-20 AWG	12-16 AWG	-	-
Stranded	12-20 AWG	12-20 AWG	14-16 AWG	14-16 AWG	10-22 AWG	12-20 AWG	10-22 AWG	14-18 AWG	-	-
NM Cable	-	-	14/2 & 12/2	14/2 & 12/2	-	-	-	-	-	-
Crimping	-	-	-	-	10-22 AWG insulated and non-insulated terminals Coaxial connectors	Insulated and non-insulated connectors	Insulated and non-insulated connectors	Non-insulated terminals	-	Non-insulated terminals
Bolt Cutting Sizes	6-32, 8-32, 10-32	6-32, 8-32, 10-32	6-32, 8-32, 10-32	6-32, 8-32, 10-32	4-40, 5-40, 6-32, 8-32, 10-24, 10-32	6-32, 8-32	6-32, 8-32	-	-	-
Handle Design	Symmetric	Curved	Symmetric	Curved	Symmetric	Curved	Symmetric	Symmetric	Symmetric	Symmetric
Spring Action Return	✓	✓	✓	✓	-	-	-	-	-	-



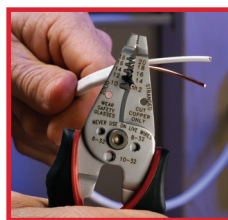
ARMOREDGE WIRE STRIPPERS

- Cut and strip solid and stranded mild steel, brass, copper, and aluminum wire.
- Stainless steel body for maximum corrosion resistance.
- Ergonomic, cushioned handles for ultimate comfort and control.
- Double bevel cutting blades provide superior nick resistance.
- Dual gripping positions for traditional or forward hand positions.
- Easy-to-read laser-etched markings.
- Wire looping holes form wire to fit on screw terminals.
- Plier nose for gripping and pulling.
- GESP-70 crimps 10-22 AWG insulated and non-insulated terminals and coaxial connectors, cuts bolt sizes 4-40, 5-40, 6-32, 8-32, 10-24, 10-32.

Part #	Description	Handle	Wire Gauge	Length
GES-55	ArmorEdge Wire Stripper	Curved	#10 - #18 AWG	6 1/2 in / 16.5 cm
GESP-55	ArmorEdge Wire Stripper	Symmetric	#10 - #18 AWG	6 3/4 in / 17.1 cm
GESP-70	ArmorEdge Multi-Tool Stripper/Crimper	Symmetric	#10 - #22 AWG	8 1/4 in / 20.9 cm
GES-224	ArmorEdge NM Cable Stripper	Curved	12/2 & 14/2 NM Cable	7 in / 17.7 cm
GESP-224	ArmorEdge NM Cable Stripper	Symmetric	12/2 & 14/2 NM Cable	7 1/4 in / 18.4 cm



12/2 and 14/2 NM Cable Stripper



10-18 AWG Wire Stripper



GBP-60N



GBP-61N

ARMOREEDGE LONG NOSE WIRE STRIPPERS

- Cut and strip mild steel, brass, copper, and aluminum solid and stranded wire.
- Ergonomic cushioned handles for ultimate comfort and control.
- Easy-to-read laser-etched markings.
- Long nose design for gripping, pulling, and forming wire to fit on screw terminals.
- Crimp insulated and non-insulated connectors.
- Cut and rethread bolt sizes 6-32 and 8-32.
- Available with both a curved handle and symmetric handle designs.

Part #	Description	Handle	Wire Gauge	Length
GBP-60N	ArmorEdge Long Nose Wire Stripper	Curved	10-18 AWG	7 3/4 in / 19.6 cm
GBP-61N	ArmorEdge Long Nose Wire Stripper	Symmetric	8-20 AWG	8 3/4 in / 22.2 cm

ARMOREEDGE LONG NOSE PLIERS

- Versatile 5-in-1 tool: cut, strip, grip, crimp, and form/loop.
- Cut and strip mild steel, brass, copper, and aluminum solid and stranded wire.
- Ergonomic, high-leverage, cushioned handles for ultimate comfort and control.
- Easy-to-read laser-etched markings.
- Long nose design for gripping, pulling, and forming wire to fit on screw terminals.
- Crimp non-insulated connectors.
- Strip 12-16 AWG solid wire and 14-18 AWG stranded wire.



GBP-58N

Part #	Description	Handle	Wire Gauge	Length
GBP-58N	ArmorEdge 5-in-1 Long Nose Pliers	Symmetric	12-16 AWG	8 1/2 in / 21.5 cm



GBP-07C

ARMOREEDGE DIAGONAL CUTTING PLIERS

- Cut mild steel, brass, copper, and aluminum solid and stranded wire.
- Ergonomic, high-leverage, cushioned handles for ultimate comfort and control.
- Angled head is ideal for cutting wires in tight locations.

Part #	Description	Handle	Length
GBP-07C	ArmorEdge Diagonal Cutting Pliers	Symmetric	7 in / 17.7 cm

ARMOREEDGE LINEMAN'S PLIERS

- Cut mild steel, brass, copper, and aluminum solid and stranded wire.
- Ergonomic cushioned handles for ultimate comfort and control.
- Integrated hammer head for installing nails and staples.
- Fishtape pulling station.
- Crimp non-insulated connectors.



GBP-59P

Part #	Description	Handle	Length
GBP-59P	ArmorEdge Long Nose Wire Stripper	Symmetric	8 1/2 in / 21.5 cm



Hand Tools

MULTI-TOOLS

Comparison Chart



Feature	GS-365	GS-370	GS-366
Wire Stripping Range			
Solid	6-16 AWG	10-22 AWG	8-20 AWG
Stranded	8-18 AWG	12-24 AWG	10-22 AWG
Crimping	10-22 AWG insulated and non-insulated terminals, coaxial connectors	10-22 AWG insulated and non-insulated terminals, coaxial connectors	10-22 AWG insulated and non-insulated terminals
Bolt Cutting Sizes	4-40, 5-40, 6-32, 8-32, 10-32, 10-24	4-40, 5-40, 6-32, 8-32, 10-32, 10-24	4-40, 6-32, 8-32, 10-32, 10-24
Wire Looping Holes	✓	✓	-
Spring Action Return	✓	-	-
Built-in Locking Mechanism	✓	-	-

 See page 138
For more info on
Additional Multi-Tools

MULTI-TOOL STRIPPER, CUTTER & CRIMPER

- Strips 10-22 AWG solid wire, 12-24 AWG stranded wire.
- Cuts copper and aluminum wire.
- Cuts and rethreads bolt sizes 4-40, 5-40, 6-32, 8-32, 10-24 and 10-32.
- Pliers nose for pulling and looping wire.
- Crimps 10-22 AWG insulated and non-insulated terminals, coaxial connectors.
- Comfort high-leverage handles.
- Precision ground-stripping stations prevent nicking conductor while stripping.



GS-370

Part #	Description	Wire Gauge	Length
GS-370	Multi-Tool	#10 - #22 AWG	8 1/2 in / 21.5 cm

MULTI-TOOL STRIPPER, CUTTER & CRIMPER

- Strips 6-16 AWG solid wire, 8-18 AWG stranded wire.
- Cuts copper and aluminum wire.
- Cuts and rethreads bolt sizes 4-40, 5-40, 6-32, 8-32, 10-32, and 10-24.
- Crimps 10-22 AWG insulated and non-insulated terminals, coaxial connectors.
- Pliers nose for pulling and looping wire.
- Snub nose for reaming 1/2 in (12.7 mm) and 1 in (25.4 mm) conduit.
- Precision ground-stripping stations prevent nicking conductor while stripping.
- Lock for compact storage.



GS-365

Part #	Description	Wire Gauge	Length
GS-365	Multi-Tool Stripper and Cutter	#6 - #16 AWG, Solid	8 1/2 in / 21.5 cm

MULTI-TOOL CABLE STRIPPERS

- Cuts copper and aluminum wire.
- Crimps 10-22 AWG insulated or non-insulated terminals.
- Strips 8-20 AWG solid wire, 10-22 AWG stranded wire.
- Cuts and rethreads bolt sizes 5-50, 6-32, 8-32, 10-32, and 10-24.
- Wire strip length gauge.



GS-366

Part #	Description	Wire Gauge	Length
GS-366	Multi-tool crimper & stripper	#8-#20 AWG	9 1/4 in / 23.4 cm



WIRE STRIPPERS

Comparison Chart



Feature	GS-394	GS-395	SE-92	GS-45	GS-355	GS-360	GS-361	GS-40
Automatic Wire Stripping	✓	✓	✓	-	-	-	-	-
Wire Stripping Range								
Solid	10-26 AWG	10-26 AWG	8-22 AWG	12-24 AWG	10-20 AWG	10-20 AWG	16-30 AWG	10-24 AWG
Stranded	10-26 AWG	10-26 AWG	8-22 AWG	-	12-22 AWG	12-22 AWG	18-32 AWG	10-24 AWG
Crimping	10-22 AWG insulated, non-insulated, and barrel terminals	10-22 AWG insulated, non-insulated, and barrel terminals	-	-	-	-	-	-
Wire Looping Holes	-	-	-	-	✓	✓	✓	✓
Built-in Locking Mechanism	-	-	-	✓	-	✓	-	✓



GS-394

AUTOMATIC STRIPPER & CRIMPER

- Cuts and strips 10-26 AWG solid and stranded wire.
- Automatic jaw-loaded wire stripper self-adjusts.
- Crimps 10-22 AWG insulated, non-insulated, and barrel terminals.
- Comfort high-leverage handles.

Part #	Description	Wire Gauge	Length
GS-394	Automatic Wire Stripper	#10 - #26 AWG	8 in /20.3 cm



GS-395

NEW AUTOMATIC STRIPPER & CRIMPER

- Features an adjustable strip length gauge and adjustable tension force
- Cuts and strips 10-26 AW solid and stranded
- Automatic jaw-loaded wire stripper self-adjusts
- Crimps 10-22 AWG insulated, non-insulated and open barrel terminals

Part #	Description	Wire Gauge	Length
GS-395	Adjustable Automatic Wire Stripper	#10 - #26 AWG	8 in /20.3 cm



SE-92

STRIP-EASY STRIPPER

- Strips 8-22 AWG solid and stranded wire.
- Strips wires clean with one easy squeeze, up to a full 7/8".
- Blades cut insulation without nicking conductor. Jaws open automatically to remove wire without crushing ends.
- AWG size clearly marked at each cutting hole.
- Comfortable no-slip handles.
- Includes replacement blade.

Part #	Description	Wire Gauge	Length
SE-92	Automatic Wire Stripper	#8 - #22 AWG	8 in /20.3 cm



Hand Tools



GS-360

WIRE STRIPPERS

- Cuts and strip solid and stranded copper and aluminum wire.
- Laser-etched markings.
- Pliers nose and curved cutting blade aid in pulling and cutting wire.
- Power spring return reduces hand fatigue.
- Ergonomic cushioned handle design.
- GS-45 and GS-360 have a built-in locking mechanism for compact storage.

Part #	Description	Wire Gauge	Length
GS-45	Slim Nose Stripper	#12 - #24 AWG	6 1/2 in / 16.5 cm
GS-355	Stripper	#10 - #20 AWG	6 1/4 in / 15.8 cm
GS-360	Stripper with lock	#10 - #20 AWG	6 in / 15.2 cm
GS-361	Small Gauge Stripper	#16 - #30 AWG	6 1/4 in / 15.8 cm



GS-40

CLIPPER STRIPPERS

- Strip 10-24 AWG solid or stranded wire.
- Compact tool adjusts quickly to any of the eight wire sizes.
- Hardened spring steel provides strength and durability.
- Looping holes bends and loops wire for termination on screws.
- Vinyl grips provide added comfort.
- Spring return for easy handling.
- Cut copper and aluminum wire.

Part #	Description	Wire Gauge	Length
GS-40	Clipper Stripper w/spring	#10 - #24 AWG	5 in / 12.7 cm

NM CABLE STRIPPERS AND RIPPERS

Comparison Chart



Feature	GRX-3224	CR-1000	CR-100
Wire Stripping Range			
Solid	12-14 AWG	-	6-14 AWG
Stranded	-	-	-
NM Cable	14/2 & 12/2	14/2 & 12/2	14/2 & 12/2
Bolt Cutting Sizes	6-32, 8-32	-	-
Plier Nose	✓	-	-



See page 140
For more info on
Additional Romex® Strippers

DUAL NM CABLE STRIPPER

- Strips outer sheath of 12/2 or 14/2 cable in one tool.
- Strips single conductor 12 or 14 AWG.
- Power spring return reduces hand fatigue.
- Cut copper and aluminum wire.
- Wire looping hole.
- Cuts and rethreads bolt sizes 6-32 and 8-32.
- Locking handle for compact storage.



GRX-3224

Part #	Description	Wire Gauge	Length
GRX-3224	NM Cable Stripper	12/2 & 14/2 NM Cable and #12 AWG and #14 AWG single conductor	7 5/8 in / 19.3 cm

Hand Tools



CR-1000

CABLE RIPPER

- Rips and cuts NM cable jackets.
- Strips wire insulation.
- Compact ergonomic design.

Part #	Description	Wire Gauge	Length
CR-1000	Premium Cable Ripper	12/2 & 14/2 NM Cable	6 1/2 in / 16.5 cm



1. Rip open cable jacket



2. Cut off cable jacket



3. Strip wire ends



CR-100

CABLE RIPPER

- Slits outer covering of non-metallic (type NM) sheathed cable.
- Wire gauge on handle checks and strips wire.
- Nickel-plated finish resists corrosion.

Part #	Description	Wire Gauge	Length
CR-100	Cable Ripper	12/2 & 14/2 NM Cable and 6-14 AWG single conductor	4 in /10.1 cm



COAXIAL CABLE STRIPPERS & CUTTERS

Comparison Chart



Feature	GS-3589	SE-398	COM-310
Wire Stripping Range			
Coaxial Cable	F-Type Connectors (RG-59, RG-6, RG-6 quad)	F-Type Connectors (RG-59, RG-6, RG-6 quad), RG-58	-
Crimping	F-Type Connectors (RG-59, RG-6, RG-6 quad)	-	F-Type Connectors, RCA, BNC
Plier Nose	✓	-	-
Wire Looping Holes	-	-	-
Built-in Locking Mechanism	-	-	-



GS-3589

COAXIAL STRIPPER

- Cut and strip RG-6 and RG-59 coaxial cable.
- Crimp RG-59 and RG-6 "F" connectors
- Tighten: 11 mm 7/16 in hex connectors
- Strip length gauge etched on tool
- Ergonomic handles for improved comfort
- Hardened steel cutting blades provide strength and durability.

Part #	Description	Wire Gauge	Length
GS-3589	Coaxial Stripper	RG-59 & RG-6	8 1/2 in / 21.5 cm



SE-398

COAXIAL CUTTER & STRIPPER

- Cuts and strips coaxial cable (RG-58, RG-59, RG-6, and RG-6 quad).
- Easily adjusts to various cable thicknesses and desired blade depth.

Part #	Description	Wire Gauge	Length
SE-398	Coaxial Cable Cutter & Stripper	RG-59 & RG-6	6 1/4 in / 15.8 cm

SE-398 also included in:
DTK-1000 8 Pc Coax Installation Kit



Hand Tools



COM-310

COMPRESSION CRIMP TOOLS

- Permanent connection.
- Works with most brands.
- Compression connectors add a water tight seal.
- Features a compact design for easy use and storage.

Part #	Description	Wire Gauge
COM-310	Crimp Tool	RG-59 & RG-6



COM-310

COM-310 also included in:
**DTK-1000 8 Pc Coax
Installation Kit**



DTK-1000

8-PIECE COAX INSTALLATION KIT WITH CARRYING CASE

- Kit includes the tools needed for cutting, stripping, and terminating coax cables and F-Type connectors for coax installations.
- Kit includes: cable cutter, SE-398 coax cable stripper, COM-310 compression tool, 4 GDC-6CM F-Type connectors, and a carrying pouch.
- Carrying case includes a belt clip for easy transportation.

Part #	Description
DTK-1000	8-Piece Coax Installation Kit



Hand Tools

TELEPHONE & NETWORKING CABLE STRIPPERS & CRIMPERS

Comparison Chart



Feature	GMC-1145D	GMC-2000D	GTPS-3100
Wire Stripping Range	CAT 3, CAT 5 cable	CAT 3, CAT 5 cable	CAT 3, CAT 5 cable
Crimping	RJ-11, RJ-12, RJ-45	RJ-11, RJ-45	-



RJ-45 / RJ-11 MODULAR PLUG CRIMP TOOL

- Used to produce patch cable and handset cables, cut, strip, and crimp.
- Heat-treated steel frame provides strength and durability.
- Comfort grip handles.
- Replacement cutting blade extends the life of the tool.

Part #	Description	Plugs	Pins
GMC-1145D	Telephone Crimp Tool, RJ-11 and RJ-45	RJ-11, RJ-12, RJ-45	2, 4, 8



RJ-45 / RJ-11 MODULAR PLUG CRIMP TOOL

- Used to produce patch cable and handset cables, cut, strip, and crimp.
- Durable ABS plastic construction.
- Includes 10 RJ-11 modular plugs and 5 RJ-45 modular plugs.

Part #	Description	Plugs	Pins
GMC-2000D	Module Crimp Tool	RJ-11, RJ-45	2, 4, 8



UTP/STP CABLE STRIPPER

- Strips UTP and STP cable up to .24 in (6.2 mm) diameter.
- Tension release lever for easy positioning and release of cable.
- Compact design for easy handling.
- For use on CAT 3 and CAT 5 cable.

Part #	Description	Wire Gauge	Length
GTPS-3100	UTP/STP Round Cable Stripper	UTP/STP	3 1/4 in / 8.2 cm



GS-385

PLIERS

LONG NOSE PLIERS

- Multi-function pliers: Cut, strip, grip, crimp, and form/loop wire.
- Use needle nose to form wire or grip small parts.
- Strip 14-16 AWG solid or stranded wire.
- Crimp 14-16 AWG non-insulated terminals.
- Cutting blade cuts solid or stranded wire.

Part #	Description	Length
GS-385	Long Nose w/ Cutter and Crimper	6 1/2 in / 16.5 cm



GPS-3220

DIAGONAL CUTTING PLIERS

- Tapered nose allows cutting in tight locations.
- Dual cutting edge and comfort-grip handle design for optimal gripping and cutting performance.
- Precision-machined and induction-hardened knives strengthen cutters and provide consistent performance when cutting aluminum, copper and medium-hard steel wire.



GPS-3228

Part #	Description	Length
GPS-3220	Cutting Pliers, Box Joint	8 in / 20.3 cm
GPS-3228	Cutting Pliers, Curved Diagonal	8 in / 20.3 cm
GS-386	Diagonal Cutting Pliers, Box Joint	6 3/8 in / 16.1 cm



GS-386



Hand Tools



GS-387

LINEMAN'S PLIERS

- Medium-duty side-cutting pliers.
- Cuts copper or aluminum wire.
- Serrated, square tip jaw for extra grip on bolts.
- Hardened-steel construction for long life.
- Comfort-grip handles.

Part #	Description	Length
GS-387	Linemen's Pliers	7 1/2 in / 19 cm



GCP-3400

LINEMAN'S PLIERS WITH CUTTER & CRIMPER

- High-leverage tool with crimping die and side cutters.
- Comfort-grip handles.
- Crimp non-insulated terminals.
- Serrated jaws provide maximum gripping.

Part #	Description	Length
GCP-3400	Linemen's Pliers and Crimping Tool	10 in / 25.4 cm



GS-388

8 IN (20.3 CM) CRIMPING PLIERS

- Crimp 10-22 AWG non-insulated terminals.
- Cuts copper and aluminum wire.
- Tapered nose for cutting in tight locations.

Part #	Description	Length
GS-388	Crimping Pliers	8 in / 20.3 cm



CABLE CUTTERS

Comparison Chart



Feature	GBX-300	GC-375	GRC-750
Type of Cable	BX, MC, AC, liquid tight	Soft copper, aluminum	copper, aluminum
Maximum Cable Cut Size	3/8 in / 9.5 mm	2/0	750 MCM
Length of Tool	7 1/4 in / 18.4 cm	8 in / 20.3 cm	15 3/4 in / 40.0 cm



GBX-300

Extra blade storage

BX & FLEXIBLE CABLE CUTTER

- Cut up to 3/8 in / 9.5 mm BX, MC, AC, and liquid tight cable.
- High durability blade lasts twice as long as normal blades.
- Includes storage space for replacement blades.
- Pivot shaft is reinforced with high strength steel sleeve.
- 25 ft (7.62 m) drop test.
- Thumbwheel for easy blade change, no tooling required.
- Quick-clamp feature automatically adjusts to cable size and secures it for splitting.
- Automatic release ejects cable.
- Cutting depth adjustment ensures clean cuts without nicking cable.

Part #	Description	Length
GBX-300	BX Armor Cutter	7 1/4 in / 18.4 cm



GC-375

CABLE CUTTER

- Cable-cutting tool designed to cut cleanly with high-leverage one-hand operation.
- Cuts soft copper & aluminum cable.

Part #	Description	Cut Size	Length
GC-375	Cable Cutter	2/0	8 in / 20.3 cm



GRC-750

RATCHETING CABLE CUTTER

- Cut copper and aluminum cable up to 750 MCM.
- Ratcheting mechanism for increased leverage.
- Variable-force cutting action; perform high force or quick cuts.
- Dual-action handles cut from either direction; easy to use in tight spots.
- Hardened alloy-steel blades are easily sharpened without removing them from tool.
- Rubber handles provide firm grip control.

Part #	Description	Jaw Opening	Length
GRC-750	Ratcheting Cable Cutter	1 9/16 in / 3.9 cm	15 3/4 in / 40 cm



GKC-100A

CUT-A-WAY PVC CONDUIT CUTTER

- Cuts flexible, watertight flexible and schedule 40 PVC conduit.
- Blade makes fast, clean cuts.
- Tough, lightweight aluminum handles.
- Compact design provides easy storage.

Part #	Description	Length
GKC-100A	Cut-A-Way PVC Cutter (1/2 in - 1 in PVC)	8 in / 20.3 cm



Hand Tools



SCE-3260



SCE-3262

SCREWDRIVERS

INSULATED SCREWDRIVERS

- #2 Phillips and 3/16 in / 4.7 mm flat tips.
- Magnetized, heat treated Chrome-Vanadium steel material reduces chipping and slipping.
- Insulated shaft and handle up to 1000V.
- High-torque ergonomic handle with hang hole and soft cushioned grip.
- SCE-3260 features a 5/16 in / 7.9 mm hex socket.

Part #	Description	Tips
SCE-3260	Insulated Screwdriver, Reversible Tip	Reversible #2 Phillips and 3/16 in / 4.7 mm flat tips, 5/16 in / 7.9 mm hex socket
SCE-3262	Insulated Screwdriver Set, 2 pc.	1 Screwdriver: #2 Phillips tip 1 Screwdriver: 3/16 in / 4.7 mm flat tip



See page 138
For more info on
Circuit Alert Screwdrivers



SCE-11

NEW 11-IN-1 SCREW AND NUT DRIVER

- Includes all of the most commonly used screw and nut drivers in one convenient tool.
- Hollow shaft for bit storage and long bolts and threaded rods.
- Cushioned grip for comfort and control.

Part #	Description	Tips
SCE-11	11-in-1 Screwdriver	1/4 in / 6.3 mm & 3/16 in / 4.7 mm flat tips #2 & #1 Phillips #1 & #2 square #15 & #10 star 1/4 in / 6.3 mm, 5/16 in / 7.9 mm, & 3/8 in / 9.5 mm hex sockets



NSS

STUBBY NUTDRIVER SET

- 1/4 in / 6.3 mm and 5/16 in / 7.9 mm nut drivers
- Magnetized tips securely hold small nuts.
- Hollow shaft for long bolts or threaded rod.
- Tool type and size are marked on the end of the handles for easy tool identification.
- Corrosion resistant chrome plated shaft.
- Cushioned handles for comfortable all-day use.

Part #	Description	Length
NSS	Stubby Nutdriver Set	4 in / 10.1 cm

Tap Sizes
6-32 8-32 10-24



TT-10B

TRIPLE TAP

- Three-in-one tapping tool designed for electrical work.
- Cleans and rethreads holes.
- Made of top-grade steel.

Part #	Description	Length
TT-10B	3 Size Tapping Tool	6 7/8 in / 17.4 cm

Hand Tools



LOCKNUT WRENCHES

- Easily tighten and loosen locknuts in tight spaces.
- Thin tools fit a majority of UL locknuts.
- Etched markings allow for easy identification; clearly marked tighten and loosen ends make usage a breeze.
- Available in three different sizes to fit every application: 1/2 in / 12.7 mm, 3/4 in / 19 mm, and 1 in / 25.4 mm.
- Hooked tips latch onto locknuts and maximize turning leverage.
- Durable lightweight tools fit easily in a pocket.

Part #	Description	Length
LNW-KIT	Locknut Wrench Kit; 1/2 in, 3/4 in	5 in - 5 3/4 in / 12.7 cm - 14.6 cm
LNW-3PC	Locknut Wrench Kit; 1/2 in, 3/4 in, 1 in	5 in - 6 1/4 in / 12.7 cm - 15.8 cm



NEW FUSE PULLER & CONTINUITY TESTER

- Tough insulated plastic fuse puller.
- Made of non-conductive high-grade plastic.
- Designed for use with 0 to 200A/250V and 0 to 100A/600V fuses.
- Compact lightweight design.
- FPE-20T features a built-in continuity tester for testing the quality of fuses.

Part #	Description	Fuse Size	Length
FPE-20T	Fuse Puller w/ Built-in Continuity Tester	0-200A/250V and 0-100A/600V	7 1/4 in / 18.4 cm



Hand Tools



KF-200

ELECTRICIAN'S KNIFE

- Two-in-one tool has sharpened blade for skinning wire and screwdriver tip for screws.
- Tempered carbon-steel blades sharpen easily and hold their edge.
- Compact 3 3/4 in / 9.5 cm size.

Part #	Description
KF-200	Two-in-one Electrician's Knife



ES-360

PREMIUM ELECTRICIAN SCISSORS/CUTTERS

- Stainless steel with precision hollow-ground and hardened for long-lasting edge.
- One micro-serration blade reduces slippage.
- Right and Left handed users.
- Full Length: 5 1/2 in (138 mm), Cutting Length: 1 5/8 in (42 mm)
- For Shearing: Soft cable, up to 22 mm / 0.8 in dia., Insulation materials, Electrical tape, many other materials, and stripping insulation.

Part #	Description	Length
ES-360	Scissors/Cutters	5 1/2 in / 13.9 cm



TK-10

NEW APPRENTICE TOOL KIT

- Kit includes basic tools that apprentice electricians require.
- 4-in-1 Wire Stripper with lock cuts and strips 10-20 AWG solid wire & 12-22 AWG stranded wire.
- Lineman's Pliers with crimper for non-insulated terminals and serrated jaw for maximum gripping.
- 6-in-1 Screwdriver Contains 3/16 in / 4.7 mm & 1/4 in / 6.3 mm flat heads, #1 & #2 Phillips heads, and 5/16 in / 7.9 mm & 1/4 in / 6.3 mm hex socket heads.
- 4-pocket Tool Pouch included for easy tool storage and transportation.

Part #	Description	Kit Includes:
TK-10	Apprentice Tool Kit	Wire Stripper, Lineman's Pliers, 6-in-1 Screwdriver, Tool Pouch

NOTES





WORK LIGHTS

nVent GARDNER BENDER's line of LED work lights brings the best in innovation, technology, durability and versatility. 3 new LED lights offer a wide range of watts and lumen output for all applications. Other features also include Bluetooth wireless speaker technology, IP66 weather-proof rating, 25 ft (7.62 m) drop testing, industrial grade magnets, quick release stands and universal mounting brackets.

Work Lights

Work Light	158
20 Watt LED Work Light with Bluetooth Speaker	158
30 Watt Heavy Duty LED Work Light	159
40 Watt Heavy Duty LED Work Light	159





Work Lights

WORK LIGHT

Comparison Chart



Feature	GWL-20BT	GWI-30HD	GWL-40
Wattage	20	30W	40W
Lumens	2,200	3,000	3,800
Dimensions	2-1/2 in x 12 in x 12 in / 6.3 cm x 30.4 cm x 30.4 cm (7 in / 17.7 cm Depth when stand is extended)	2-3/4 in x 9-1/2 in x 9 in / 6.9 cm x 24.1 cm x 22.8 cm (7 in / 17.7 cm Depth when stand is extended)	2-3/4 in x 9-1/2 in x 9 in / 6.9 cm x 24.1 cm x 22.8 cm (7 in / 17.7 cm Depth when stand is extended)
Battery Life	3-6 Hours*	5 Hours	-
Charging Time	4 Hours	3 Hours	-
Power & Extension Cord Length	-	-	10 ft / 3.04 m Power Cord, 4.5 ft / 1.37 m Extension Cord
Magnets	-	-	✓ 4 Magnets
IP Rating	-	IP65	-
Warranty	1 YEAR WARRANTY	1 YEAR WARRANTY	1 YEAR WARRANTY

* Battery life varies on LED brightness level and volume level.

NEW 20 WATT LED WORK LIGHT WITH BLUETOOTH SPEAKER

The GWL-20BT, features a 20W LED work light producing over 2,000 lumens and includes two built-in 3 watt Bluetooth speakers. Whether you are on a commercial jobsite or working on a project around the home, the GWL-20BT will make every job more enjoyable and easier to complete.

- 2200 Lumens
- 20 Watts
- 6000k Color Temperature - Natural Day Light
- Quick Lock Release Rotating Kickstand Base and Mounting Bracket



GWL-20BT



Mounting Bracket



USB Accessory Charger

Part #	Description
GWL-20BT	20 Watt LED Work Light with Bluetooth Speaker



Quick release locking and rotating base

Work Lights



GWL-30HD

NEW 30 WATT HEAVY DUTY LED WORK LIGHT

The Heavy Duty GWL-30HD work light offers 30 watt/3,000 lumens to light up any project. It also offers one of the most durable body frames for portable work lights with a drop test rating of 25 ft (7.62 m).

The features don't stop at durability, an IP65 weather-resistant casing and covers make it ideal for outdoor use.

- 3000 Lumens
- 30 Watts
- 25 ft (7.62 m). Drop Test
- Water Resistant IP65 Rated
- 6000k Color Temperature – Natural Day Light

Part #	Description
GWL-30HD	30 Watt Heavy Duty LED Work Light



Mounting Bracket



USB Accessory Charger



Quick release locking and rotating base



GWL-40

NEW 40 WATT HEAVY DUTY LED WORK LIGHT

The GWL-40 includes a 10 ft (3.04 m) power cord with a 4.5 ft (1.37 m) Extension cord to provide power to other tools needed on the job.

4 industrial grade magnets on the back allow for easy mounting when space is limited or the adjustable kickstand can be used on a table or floor.

- 3800 Lumens
- 40 Watts
- 6000k Color Temperature – Natural Day Light
- 4 Heavy Duty Magnets

Part #	Description
GWL-40	40 Watt Heavy Duty LED Work Light



Directional LED Swivel



4 Heavy Duty Magnets



Built in Stand & Power Cord Caddy



SWITCHES

nVent GARDNER BENDER switches are available in many different styles and sizes. They are used in countless applications, from basic on-off to multifunction applications.

Switches



INDUSTRIAL & HOME SWITCHES

Light Sockets	169	Pull-Chain Switches	165-166
Bottom Turn Sockets	169	Push Button Switches	164
Candelabra Sockets	169	Rocker Switches	166
Fixture Sockets	169	Rotary Switches	167
Keyless Sockets	169	Toggle Switches	163
Pull Chain Sockets	170		
Push-Thru Sockets	170		
Snap-In Sockets	170		
Turn Knob Sockets	170		





Switches

SWITCH TERMINOLOGY

Single Pole (SP): A switch device that opens, closes or changes connections in a single conductor of an electrical circuit

Double Pole (DP): A switch device that opens, closes or changes connections in both conductors of the same circuit.

Two Circuit (2 CIR): A switch device that opens, closes or changes connections in a single conductor of two independent circuits.

Single Throw (ST): A switch device that opens, closes or completes a circuit at only one of the extreme positions of its actuator.

Double Throw (DT): A switch device that opens, closes or completes a circuit at both extreme positions of its actuator.

Actuator: A lever, push-button, slide, trigger or other means by which an external force is applied to operate a switch mechanism.

Normally Open (NO): A momentary type switch in which one or more circuits are open when the switch actuator is at its normal or rest position.

Normally Closed (NC): A momentary type switch in which one or more circuits are closed when the switch actuator is at its normal or rest position.

Alternate Action (Double Action Push): Push to make, then push to break, a circuit.

Power Ratings for Switches: The current handling capability of a switch measured in amperes, horsepower, lamp load or combinations of these with applicable voltages.

UL/CSA RATED SWITCHES

A UL/CSA-marked rating in amperes indicates that the switch meets or exceeds test house performance requirements of 6000 make-and-break cycles at the rated current, preceded by 50 make-and-break cycles at 150% switch current rating. 125% is used when switch ratings exceed 10 amperes.

A UL/CSA horsepower-only rated device meets minimum test requirements of 50 make-and-break cycles at the appropriate locked rotor current, followed by 6000 cycles at one-sixth the AC-locked rotor current and 10% of the DC-locked rotor current.

AC ampere ratings are resistive or inductive, with the inductive rating tested at 75% to 80% power factor.

AC horsepower ratings are inductive and tested at 40% to 50% power factor.

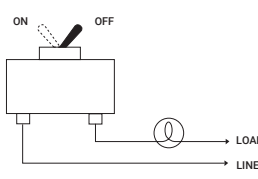
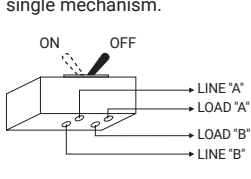
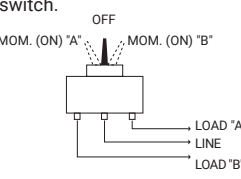
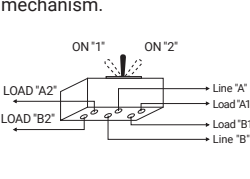
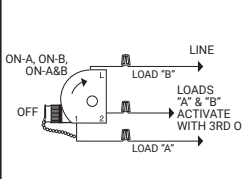
"L" Rating denotes ability of an AC-only switch to handle the initial high in-rush characteristics of a tungsten filament lamp on AC voltage only.

"T" Rating denotes ability of an AC/DC switch to handle the initial high in-rush characteristics of a tungsten filament lamp on either AC or DC voltage.

All DC ratings are 100% resistive only (non-inductive).

Many AC-only rated switches can be used in applications where less than 30 volts DC is required, provided current does not exceed full current rating of the switch.

Ampere-rated switches will not automatically handle in-rush characteristics of five to six times switch rating.

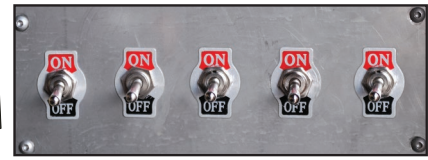
SPST	DPST	SPDT	DPDT	SPTT
<p>A switch that makes or breaks the connection of a single conductor in a single branch circuit. This switch has two terminals that are either connected together or disconnected.</p>  <p>ONE CIRCUIT - ON/OFF</p>	<p>A switch that makes or breaks the connection of two conductors in a single branch circuit. This switch has four terminals and is the equivalent of two SPST switches controlled by a single mechanism.</p>  <p>TWO CIRCUITS - ON/OFF</p>	<p>A switch that makes or breaks the connection of a single conductor with either of two other single conductors. This switch has 3 terminals and is commonly referred to as a "Three-Way" switch.</p>  <p>ONE CIRCUIT - ON/OFF/ON</p>	<p>A switch that makes or breaks the connection of two conductors to two separate circuits. This switch has six terminals and is the equivalent to two SPDT switches controlled by a single mechanism.</p>  <p>TWO CIRCUITS - ON/OFF/ON</p>	<p>A switch that makes or breaks the connection of a single conductor with either of three other single conductors or either or both of two conductors.</p>  <p>ONE CIRCUIT - OFF/ON(A)/ON(B)/ON(A+B)</p>

Switches

TOGGLE SWITCHES

Versatile toggle switch family with multiple position configurations.

- Available in single or double pole.
- Perfect for industrial equipment or emergency lighting.
- Mounts in standard 1/2 in (1.2 cm) diameter hole.
- Standard nut size (15/32 in [1.1 cm]- 32).
- Commonly used on: Power Tools, Panel Controls, Appliances, Circulation Fans, Marine, Motors and Grinders.

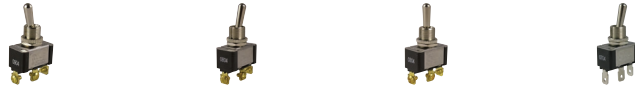


tip: All switches must be installed with a hex nut (provided) behind panel to prevent damage during installation.

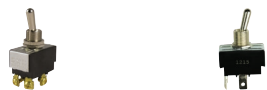


Part Number	GSW-10	GSW-11*	GSW-17*	GSW-110	GSW-111	GSW-121L*	GSW-124	GSW-121	GSW-122	GSW-127	GSW-18*	GSW-125
Poles & Throws	SPST											
Toggle Position	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF
Terminal Type (# of terminals)	Screw (2)	Screw (2)	Screw (2)	"O" Ring & Screw (2)	Screw (2)	Screw (2)	Screw (2)	Spade (2)	Spade (2)	Spade (2)	6" Wire Leads (2)	6" Wire Leads (2)
Actuator	Bat Shaped	Bat Shaped	Bat Shaped	Bat Shaped	Bat Shaped, Long Handle	Long Shank & Short Ball	Short Ball	Bat Shaped	Bat Shaped	Bat Shaped	Bat Shaped	Short Ball
Rating	1 1/2 HP 125-250 VAC, 20A/125-227 VAC	1 1/2 HP 125-250 VAC, 20A/125-227 VAC	3A/240 VAC, 6A/120 VAC	1 1/2 HP 125-250 VAC, 20A/125-227 VAC	3/4 HP 125-250 VAC, 20A/125 VAC, 10A/277 VAC	3A/250 VAC, 6A/125 VAC	3A/240 VAC, 6A/120 VAC	1 1/2 HP 125-250 VAC, 20A/125-227 VAC	3/4 HP 125-250 VAC, 20A/125 VAC, 10A/277 VAC	18(12) A/125 VAC	1/3 HP 125 VAC, 4A/250 VDC, 8A/125 VDC, 10A/125 VAC	1/3 HP 125 VAC, 4A/250 VDC, 8A/125 VDC, 10A/125 VAC

*Switch has an ON-OFF faceplate



Part Number	GSW-12	GSW-13	GSW-117	GSW-120
Poles & Throws	SPDT			
Toggle Position	ON-ON	ON-OFF-ON	(ON)-OFF-(ON)	ON-OFF-ON
Terminal Type (# of terminals)	Screw (3)	Screw (3)	Screw (3)	Spade (3)
Actuator	Bat Shaped	Bat Shaped	Bat Shaped	Bat Shaped
Rating	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	1 1/2 HP 125-250 VAC, 20A/125-277 VAC



Part Number	GSW-14	GSW-140
Poles & Throws	DPST	
Toggle Position	ON-OFF	ON-OFF
Terminal Type (# of terminals)	Screw (4)	Spade (4)
Actuator	Bat Shaped	Bat Shaped
Rating	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	10A/125-250 VAC



Part Number	GSW-15	GSW-16	GSW-123	GSW-126	GSW-143
Poles & Throws	DPDT				
Toggle Position*	ON-ON	ON-OFF-ON	(ON)-OFF-(ON)	ON-OFF-ON	ON-OFF-ON
Terminal Type (# of terminals)	Screw (6)	Screw (6)	Screw (6)	Spade (6)	Spade (6)
Actuator	Bat Shaped	Bat Shaped	Bat Shaped	Bat Shaped	Bat Shaped
Rating	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	1 1/2 HP 125-250 VAC, 10A/277 VAC, 20A/125 VAC	10A/125-250 VAC

*() Indicates momentary action



Switches

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.
- Standard nut size (15/32 in [1.1 cm]-32).
- Mounts in standard 1/2 in (1.2 cm) diameter hole.



Part Number	GSW-19	GSW-114
Poles & Throws	SPST	SPDT
Toggle Position*	ON-OFF	(ON)-OFF-(ON)
Terminal Type (# of terminals)	Screw (2)	Spade (3)
Actuator	Flat	Flat
Rating	20A/125-277 VAC	20A/125-277 VAC

*() Indicates momentary action



TOGGLE SWITCH COVER

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

- Built-in 15/32 in (1.1 cm)-32 hex nut base screws onto most nVent GARDNER BENDER toggle switches.

Part #	Description	Pkg Qty
GSW-20	Toggle Switch Cover	2/card
GSW-20H	Toggle Switch Cover, Half Boot	2/card

PUSH BUTTON SWITCHES

MOMENTARY CONTACT PUSH-BUTTON SWITCHES

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

- Normally OFF/OPEN or normally ON/CLOSED models.
- Screw terminals.
- Mounts in standard 1/2 in (1.2 cm) diameter hole.
- Mounting nut included.
- Standard nut size (15/32 in [1.1 cm]- 32).
- Commonly used on: Shop & Power Tools, Auto & Marine, Control Panels, Buzzers, Lamps, Farm/Agriculture and Appliances.



GSW-22



Part Number	GSW-22	GSW-23
Poles & Throws	SPST	
Toggle Position*	OFF-(ON)	ON-(OFF)
Terminal Type (# of terminals)	Screw (2)	Screw (2)
Color	Black	Red
Rating	3A/240 VAC, 6A/120 VAC	1.5A/277 VAC, 3A/120 VAC

*() Indicates momentary action

Switches



MAINTAINED CONTACT/LATCHING PUSH-BUTTON SWITCH - MOTOR RATED

Maintained push-button switch rugged and versatile enough to be utilized in many applications.

- Push on, push off switch with #18 AWG, 6 in (15.2 cm) stripped wire leads.
- Mounting nut included.
- Mounts in standard 1/2 in (1.2 cm) diameter hole.
- Standard nut size (15/32 in [1.1 cm] - 32).



Part Number	GWS-21
Poles & Throws	SPST
Toggle Position	ON-OFF
Terminal Type (# of terminals)	6 in / 15.2 cm Wire Leads (2)
Color	Black
Rating	1/3 HP 125 VAC, 4A/250 VDC, 8A/125 VDC, 10A/125 VAC

MAINTAINED CONTACT/LATCHING PUSH-BUTTON 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.
- Mounts in standard 1/2 in (1.2 cm) diameter hole.
- Nut size: 1/8 in (0.3 cm) - 27.



Part Number	GWS-24	GWS-25
Poles & Throws	SPST	
Toggle Position	ON-OFF	ON-OFF
Terminal Type (# of terminals)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (2)
Color	Nickel	Brass
Circuit	2 Pos. 2 Wire	2 Pos. 2 Wire
Rating	6A/125 VL, 3A/250 VAC, 6A/125 VAC	6A/125 VL, 3A/250 VAC, 6A/125 VAC

tip:

Horsepower Rating: AC horsepower ratings are inductive and tested at 40% to 50% power rating.

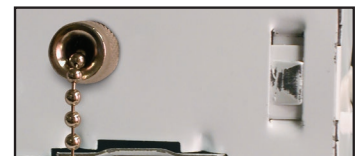
PULL-CHAIN SWITCHES SINGLE CIRCUIT PULL-CHAIN SWITCHES

Basic ON-OFF switch family with pull-chain feature.

- ON-OFF switch with #18 AWG, 6 in (15.2 cm) stripped wire leads.
- Mounts in 13/32 in (1 cm) diameter hole (GWS-35 mounts in 1/2 in [1.2 cm] diameter hole).
- Color coordinated nickel or brass plated.
- Commonly used on: Ceiling Fan, Lighting, Neon Signs and Ceiling Fixtures.



GWS-32



tip:

"L" Rating Example: 3A/125VL means the switch is rated to handle the high in-rush AC loads.

Part Number	GWS-31*	GWS-32*	GWS-35***
Poles & Throws	SPST		
Toggle Position*	ON-OFF	ON-OFF	ON-OFF
Terminal Type (# of terminals)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (2)
Color	Nickel	Brass	Nickel
Circuit	2 Pos. 2 Wire	2 Pos. 2 Wire	2 Pos. 2 Wire
Rating	3A/125 VL, 3A/250 VAC, 6A/125 VAC	3A/125 VL, 3A/250 VAC, 6A/125 VAC	3A/250 VAC, 6A/125 VAC

*All angle



Switches

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 13/32 in (10.3 mm) diameter hole.



Part Number	GWS-33	GWS-34	GWS-39
Poles & Throws	SPDT	SPTT	
Toggle Position*	OFF-ON-ON	OFF-ON-ON-ON	OFF-ON(A)-ON(B)-ON(A+B)
Terminal Type (# of terminals)	Insulation Displacement (2)	Insulation Displacement (2)	6 in / 15.2 cm Wire Leads (3)
Color	Brass	Brass	Brass
Circuit	3 Pos. 3 Wire	4 Pos. 4 Wire	4 Pos. 3 Wire
Rating	6A/125 VL, 3A/250 VAC, 6A/125 VAC	3A/250 VAC 6A/125 VAC	6A/125 VL, 3A/250 VAC, 6A/125 VAC

ROCKER SWITCHES

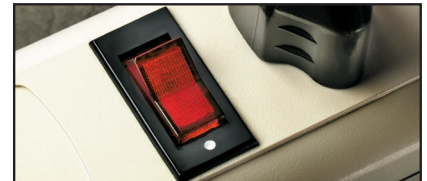
STANDARD ROCKER SWITCHES

Heavy-duty rocker switches that fit .830 in x 1.45 in (21 mm x 36.8 mm) panel cutouts.

- Frame is black glass-filled nylon.
- Commonly used on: Ovens, Lighting, Industrial Controls, Appliances, Computer Equipment, Power Tools and Marine.



GWS-45



Part Number	GWS-45	GWS-49*	GWS-46
Poles & Throws	SPST		DPDT
Toggle Position	ON-OFF	ON-OFF	ON-OFF-ON
Terminal Type (# of terminals)	Spade (2)	Spade (3)	Spade (6)
Rating	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	1 1/2 HP 125-250 VAC, 20A/125-277 VAC	1/2 HP 250 VAC, 1/3 HP 125 VAC, 6A/125-250 VAC

*Red lighted

APPLIANCE ROCKER SWITCHES

Economy rocker switches that fit standard .550 in x 1.125 in (13.9 mm x 28.5 mm) panel cutouts.

- Perfect for machinery or appliances.
- Lighted or unlighted versions available.



Part Number	GWS-41	GWS-42*
Poles & Throws	SPST	
Toggle Position	ON-OFF	ON-OFF
Terminal Type (# of terminals)	Spade (2)	Spade (3)
Rating	10A/250 VAC, 16A/125 VAC	10A/250 VAC, 16A/125 VAC

*Red lighted

Switches



MINI ROCKER SWITCHES

Miniature rocker switches that fit .520 in x .776 in and .787 in (13.2 mm x 19.7 mm and 19.9 mm) diameter panel cutouts.

- Perfect for small machinery or appliances.



Part Number	GSW-48*	GSW-50*	GSW-51
Poles & Throws	SPST		
Toggle Position	ON-OFF	ON-OFF	ON-OFF
Terminal Type (# of terminals)	Spade (3)	Spade (3)	Spade (2)
Rating	1/2 HP 250 VAC, 1/3 HP 125 VAC, 10A/125 VAC, 6A/125-250 VAC	10A/250 VAC, 16A/125 VAC	10A/250 VAC, 16A/125 VAC

*Red lighted

ROTARY SWITCHES

ROTARY SWITCHES

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

- Nut size (3/8 in [9.5 mm] - 27).
- Mounts in standard 1/2 in (12.7 mm) diameter hole.
- Commonly used on: Lighting, Entertainment Systems, Electrical Equipment, Industrial Controls, Musical Instrument Controls and Auto & Marine.



GSW-62



Part Number	GSW-63B	GSW-63W	GSW-61	GSW-69*	GSW-62	GSW-68
Poles & Throws	SPST				SPTT	
Toggle Position*	ON-OFF	ON-OFF	ON-OFF	ON-OFF	OFF-ON(P)-ON(N)-ON(N+P)	OFF-ON(P)-ON(N)-ON(N+P)
Terminal Type (# of terminals)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (3)	6 in / 15.2 cm Wire Leads (3)
Color	Black Button	White Button	Brass	Black Plastic	Brass	Brass
Rating	1A/125 VT, 5A/15 VT, 3A/125 VL, 1.5A/250 VAC, 3A/125 VAC	1A/125 VT, 5A/15 VT, 3A/125 VL, 1.5A/250 VAC, 3A/125 VAC	6A/28 VDC, 3A/250 VAC 6A/125 VAC	6A/28 VDC, 3A/250 VAC 6A/125 VAC	3A/250 VAC, 6A/125 VAC	3A/250 VAC, 6A/125 VAC



Switches

INDUSTRIAL & HOME SWITCHES

Assorted push button, slide, magnetic, and cord switches for appliance, industrial, and home applications.

- Commonly used on: Doors, Cabinets, Windows, Closets, RVs, Furnaces, Cords, Appliances, Machinery, Electrical Equipment, and Industrial Controls.



GSW-SK



INDUSTRIAL SWITCH



Part Number	GSW-151
Poles & Throws	SPST
Toggle Position	ON-OFF
Terminal Type (# of terminals)	Solder Terminals (2)
Actuator	Slide Switch
Description	Slide Switch
Mounting hole	0.5 in x 0.875 in / 1.2 cm x 2.2 cm cutout
Nut Size	—
Rating	3A/250 VAC, 6A/125 VAC

HOME SWITCHES



Part Number	GSW-71	GSW-72	GSW-SK	GSW-26
Poles & Throws	SPST			
Toggle Position*	ON-OFF	ON-OFF	ON-(OFF)	ON-(OFF)
Terminal Type (# of terminals)	Insulation Displacement (2)	Insulation Displacement (2)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (2)
Color	Brown	White	—	—
Actuator	Rotary	Rotary	Push Button	Push Button
Description	Cord Switch	Cord Switch	Door Switch	Door Switch Kit Replacement for GSW-SK
Mounting hole	—	—	0.55 in x 1.1 in / 1.3 cm x 2.7 cm cutout.	0.55 in x 1.1 in / 1.3 cm x 2.7 cm cutout
Rating	3A/125 VT, 3A/250 VAC, 6A/125 VAC	3A/125 VT, 3A/250 VAC, 6A/125 VAC	1/2 HP 125-277 VAC, 10A/250 VAC, 16A/125 VAC	1/2 HP 125-277 VAC, 10A/250 VAC, 16A/125 VAC

Switches



NEW LIGHT SOCKETS

BOTTOM TURN SOCKETS

Great for single-light replacements in pole lamps.

- Corrosion resistant
- Turn knob activation
- Durable phenolic construction



GLS-34



Part Number	GLS-10
Style	On-Off
Base	Phenolic
Color	Black
Terminal Type (# of terminals)	Screw (2)
Rating	660W/250V

CANDELABRA SOCKETS

Candelabra sockets are perfect for replacing old or worn out sockets in lighting fixtures throughout your home or office.

- Corrosion resistant
- Easy installation
- Durable phenolic and metal construction



Part Number	GLS-20	GLS-21*	GLS-24**
Style	Keyless Activation	Keyless Activation, Single Leg Hickey	Keyless Activation, Two Leg Hickey
Base	Phenolic	Phenolic	Phenolic
Color	Black	Black	Black
Terminal Type (# of terminals)	6 in / 15.2 cm Wire Leads (2)	6 in / 15.2 cm Wire Leads (2)	Screw (2)
Rating	75W/125V	75W/125V	75W/125V

*1/2 in (12.7 mm) One Leg Hickey, **2 in - 3 1/2 in (50.8 mm - 88.9 mm) Two Leg Adjustable Hickey

FIXTURE SOCKETS

Can be used to replace a broken socket or assemble new light fixtures throughout the home or office.

- Corrosion resistant
- Durable porcelain and phenolic construction
- Hickey adapters and mounting brackets help with safe installation



Part Number	GLS-30	GLS-34*	GLS-35**
Style	Keyless Activation, Capped	Keyless Activation, Single Leg Hickey	Keyless Activation
Base	Porcelain	Porcelain	Phenolic
Color	Porcelain	Porcelain	Black
Terminal Type (# of terminals)	Screw (2)	Screw (2)	6 in / 15.2 cm Wire Leads (2)
Rating	660W/250V	660W/250V	660W/250V

*1/2 in (12.7 mm) One Leg Hickey, **1/2 in (12.7 mm) Mounting Bracket

KEYLESS SOCKETS

These sockets are great for light switches and other lamp types including touch base lamps.

- Corrosion resistant
- Easy installation
- Durable phenolic and metal construction



Part Number	GLS-40	GLS-41
Style	Keyless Activation	Keyless Activation
Base	Phenolic	Metal
Color	Black	Brass
Terminal Type (# of terminals)	Screw (2)	Screw (2)
Rating	660W/250V	660W/250V



Switches

NEW LIGHT SOCKETS

PULL CHAIN SOCKETS

These pull chain sockets can be used to replace a worn or broken socket. With brass finish on the chain and tough construction these last through an abundance of usage.

- Corrosion resistant
- Pull chain activation
- Phenolic base



Part Number	GLS-50
Style	On-Off
Base	Phenolic
Color	Black
Terminal Type (# of terminals)	Screw (2)
Rating	250W/250V

PUSH-THRU SOCKETS

Push-Thru sockets have a plastic shaft placed through the socket for turning the lamp on/off. These offer a tough construction and help avoid any type of electrical failure.

- Corrosion resistant
- Push-Thru activation
- Phenolic base



Part Number	GLS-60	GLS-61
Style	On-Off	On-Off
Base	Phenolic	Metal
Color	Black	Brass
Terminal Type (# of terminals)	Screw (2)	Screw (2)
Rating	660W/250V	75W/125V

SNAP-IN SOCKETS

U-Clip sockets are great for replacing any worn-out light sockets throughout your home.

- Corrosion resistant
- Fits most household light bulbs with a wattage of 250
- Phenolic base



Part Number	GLS-73
Style	U-Clip
Base	Phenolic
Color	Black
Terminal Type (# of terminals)	6 in / 15.2 cm Wire Leads (2)
Rating	660W/250V

TURN KNOB SOCKETS

One of the most widely used socket types, turn knob sockets are great for fixing up any lamps or light fixtures that you may have around the home.

- Corrosion resistant
- Turn knob activation
- Phenolic and Metal base



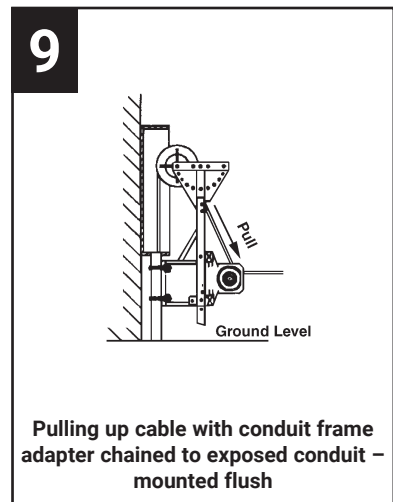
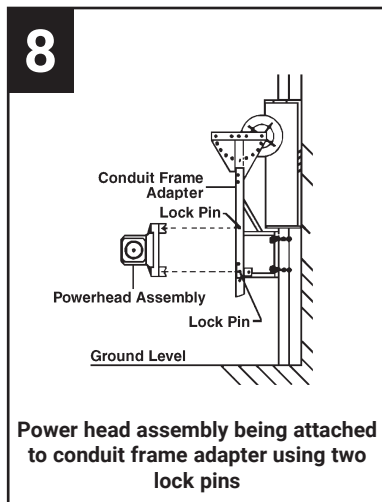
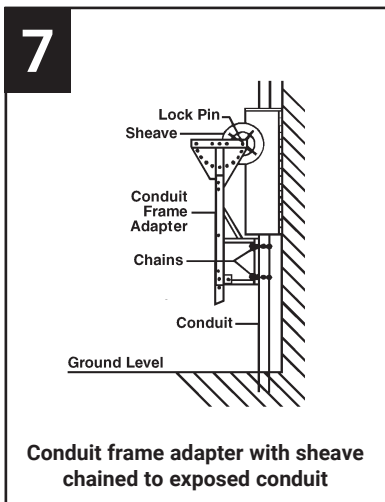
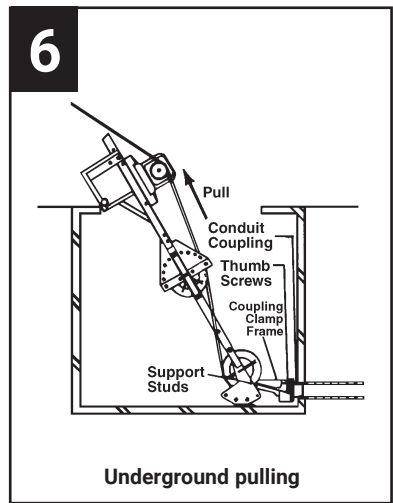
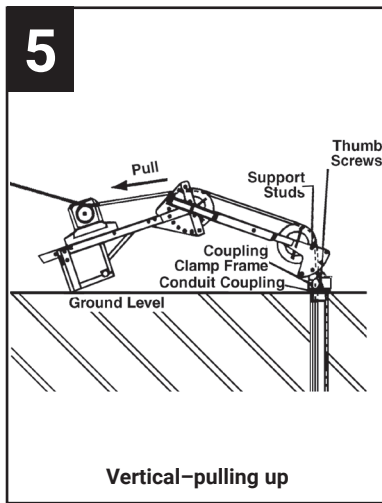
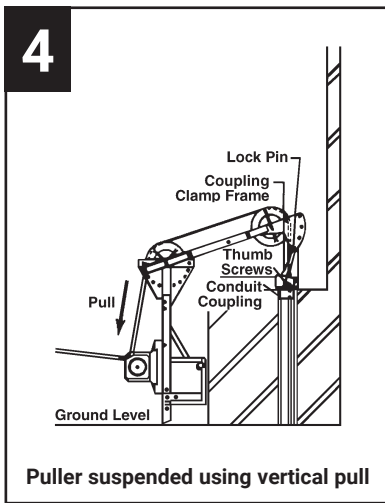
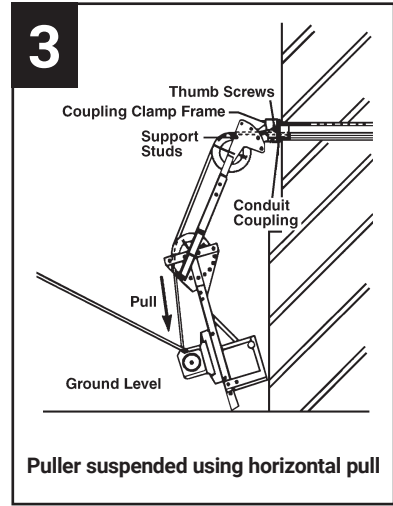
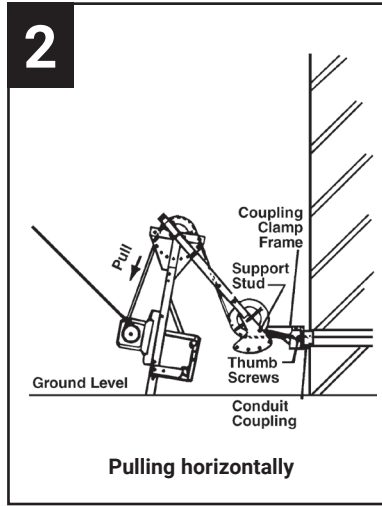
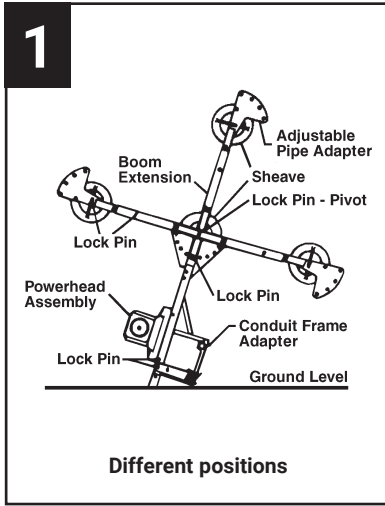
Part Number	GLS-80	GLS-82
Style	On-Off	On-Off
Base	Phenolic	Metal
Color	Black	Brass
Terminal Type (# of terminals)	Screw (2)	Screw (2)
Rating	250W/250V	250W/250V

NOTES





Brutus Puller Application Instructions





Brutus Puller Application Instructions

10

Conduit frame adapter chained to conduit (over the extension resting on floor) pulling down

11

Coupling threaded onto conduit. Coupling clamp locked to coupling with two thumb screws

12

Conduit frame adapter resting on floor and on back of box - pulling up

13

Conduit frame adapter chained to exposed conduit - pulling down

14

Downward pull - conduit frame adapter chained to conduit extension

15

Upward pull - conduit frame adapter chained to conduit extension

15

Conduit frame adapter chained to conduit - pulling up

17

Power head assembly chained to 6" conduit with two 90° bends pulling from underground conduit using cable sheave with hook

18

Resting conduit frame adapter on floor over conduit and pulling up



Brutus Puller Application Instructions

19

Resting conduit frame adapter on floor and blocks over conduit and pulling up

20

Pulling additional cable from junction box (1) down to junction box (2) using cable sheave with hook and power head assembly chained to pole

21

Conduit frame adapter chained to conduit extension in pull box – pulling vertically from underground

22

Use boom extension to obtain extra cable length for splicing

23

Conduit frame adapter and power head assembly chained to conduit (over extension) pulling down from box on ceiling

24

Pulling from 90° connector to obtain leads long enough to complete connection in junction box

25

Conduit frame adapter and power head assembly chained separately to conduit, pulling from a ceiling pull box for additional cable



Terminal Kits Include:

Part Number	Description	Qty
TK-806	100 Piece Assorted Kit with 49 Ring (22-10 AWG, 3/8 to #6 Stud) and 7 Spade Terminals (16-14 AWG, #10 Stud), 30 Butt Splices (22-10 AWG), and 14 Male/Female Disconnects (16-14 AWG, 1/4 in Tab).	100
TK-175	175 Piece Assorted Kit with 61 Ring (22-10 AWG, 3/8 in to #6 Stud) and 55 Spade Terminals (22-14 AWG, #10 to #6 Stud), 26 Butt Splices (22-10 AWG), and 33 Male/Female Disconnects (22-14 AWG, 1/4 in Tab)	175
TK-40	40 Piece Assorted Kit with 10 Ring (22-10 AWG, #10 to #8 Stud) and 8 Spade (22-10 AWG, #10 & #6 Stud) Terminals, 12 Butt Splices (22-10 AWG), and 10 Female Disconnects (22-14 AWG, 1/4 in Tab)	40
TK-100	80 Piece Assorted Kit with 20 Wire Connectors (22-10 AWG), 15 Ring(22-10 AWG, #10 Stud) and 15 Spade (22-10 AWG, #10 Stud) Terminals, 20 Butt and Tap Splices (22-10 AWG), and 10 Male/Female Disconnects (22-10 AWG, 1/4 in Tab)	80
TK-500	247 Piece Assorted Kit with 85 Wire Connectors (22-10 AWG), 40 Ring (22-14 AWG, #10 to #8 Stud) and 40 Spade (22-14 AWG, #10 to #8 Stud) Terminals, 42 Butt and Tap Splices (22-14 AWG), and 40 Male/Female Disconnects (16-14 AWG)	247
TK-1210	28 Piece Assorted Kit with 6 Ring (5/16 in to #8 Stud) and 4 Spade (#10 to #8 Stud) Terminals, 4 Butt Splices, and 10 Male/Female Disconnects (1/4 in Tab, Barrel/Fully Insulated). 12 to 10 AWG Kit.	28
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