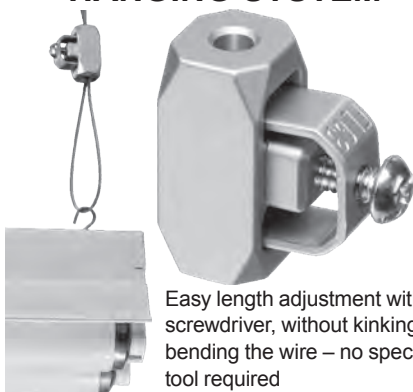


Arlington Industries, Inc.

## WIRE GRABBER HANGING SYSTEM



Easy length adjustment with a screwdriver, without kinking or bending the wire – no special tool required

Locke#

- P7126** DWB0812 Wire Grabber Kit  
Includes: 10' of .080" galvanized braided wire, one wire grabber (100lb. limit)
- P7127** FLG3 Screw Type Wire Grabber
- P7128** BW580 500' roll of .080" galvanized braided wire
- P7129** FH50 Fixture or box hanger that snaps into a 1/2" KO from inside and has a loop (50lb. limit)

## GRIPPLE HANGERS



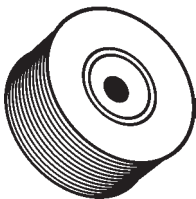
- Grippler hangers are the versatile way to suspend static loads.
- Their time saving qualities have been shown to reduce installation by up to 6 times compared to threaded rod, chain, hanger strap, or other loose cable systems.

- Grippler hangers incorporate a length of pre-cut cable with a pre-fabricated end fixing for maximum speed, efficiency and safety.
- Their lightness is a major safety improvement, both in terms of carrying and storing the product easily on site and in reducing accident risk in aerial situations caused by falling materials.
- They allow the installer to position the hangers vertically or at an angle to the suspended object.
- Grippler hangers are manufactured to ISO 9002 standards and carry certificates from the following agencies: UL, SMACNA and ETL Intertek.

Locke#

- L7260** HF02-15FT 15" Grippler hanger

## MA-LINE HANGING WIRE



Locke#

- M0334** 2 Lb. 18 Gauge Black Annealed Hanging Wire
- M0335** 5 Lb. 18 Gauge Black Annealed Hanging Wire
- M0336** 2 Lb. 18 Gauge Galvanized Hanging Wire
- M0337** 5 Lb. 18 Gauge Galvanized Hanging Wire

## ENGINEERED PRODUCTS CO. SINGLE JACK CHAIN



PLATED  
Priced per 100 Ft.

Locke#	Gauge	Wt. per 100'	Wkg. Load	Unit
<b>P1915</b>	12	9 Lb.	29 Lb.	100'

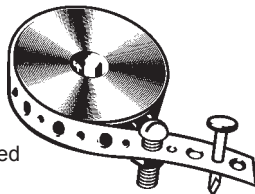
## ENGINEERED PRODUCTS CO. 1" S-HOOKS



Locke#

- P1916** 1" "S" Hook

## HANGER STRAP



Galvanized

Locke#

- M0090** 3/4" x 10' Perforated, 28 gauge
- M0091** 3/4" x 100' Perforated, 28 gauge

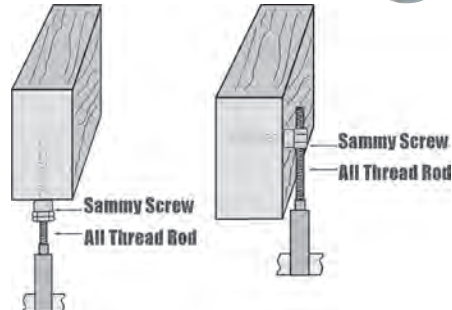
## WAL-RICH SAMMY-SCREW DRIVER



Locke#

- T1760** 2440102 Sammy-Screw Driver
- T1761** 2440104 Sammy-Screw Side Winder Driver

## WAL-RICH SAMMY SCREW WOOD Threaded Rod Anchor for Wood



Locke#

- M3125** 2440001 Sammy Screw Straight For Wood 1" Short Pattern
- M3126** 2440002 Sammy Screw Straight For Wood 2" Gst-20
- M3127** 2440003 Sammy Screw 1" Wood Angle Sidewinder
- M3128** 2440004 Sammy Screw 2 1/2" Wood Angle Sidewinder

## WAL-RICH SAMMY SCREW STEEL Threaded Rod Anchor for Steel



Locke#

- M3129** 2440006 Sammy Screw Straight For Steel 1" Dst-10
- M3130** 2440008 Sammy Screw Angle For Steel 1 1/4" Swdr516
- M3131** 2440010 Sammy-Tek-Screw For Steel 1 1/2" Tek-50

## WAL-RICH SAMMY SCREW CONCRETE Threaded Rod Anchor for Concrete



Locke#

- M3132** 2440012 Sammy Screw Straight For Concrete 1 1/2" Cst-20
- M3133** 2440014 Sammy Screw Angle For Concrete 2 1/2" Swg-25-380

P | ELECTRIC

# Mounting & Suspension

## Thomas&Betts

### ALL THREAD ROD



Locke#

**P1992** 1/4"x10' Plated All Thread Rod

**P3224** 3/8"x10' Plated All Thread Rod

**P3225** 1/2"x10' Plated All Thread Rod

## Metallics Inc.

### ALL THREAD ROD



Locke#

**M0539** 3/8" x 6' All Thread Rod

## Metallics Inc.

### STEEL COUPLER NUT



Locke#

**P3226** 1/4" Steel Coupler Nut

**P3227** 3/8" Steel Coupler Nut

**P3228** 1/2" Steel Coupler Nut

## ERICO®

### MALLEABLE IRON CEILING FLANGE



Recommended for attachment to wood beams or ceiling. Black finish.

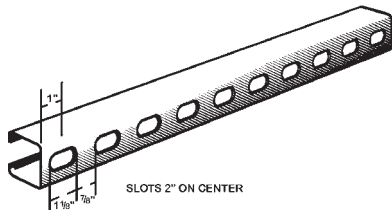
Locke#

**M3331** 3/8" Malleable Iron Ceiling Flange

**M3332** 1/2" Malleable Iron Ceiling Flange

## HAYDON®

### 1 5/8" STRUT CHANNEL SERIES 10' LENGTH

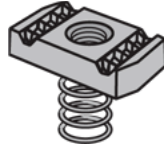


NOTE: For beam load capacity, use 85% of load chart.

Locke#	Section Dimen.	Material Thickness	Length	per 100Ft.
<b>P1990</b>	1 5/8"x1 5/8"	.105	10'	185 lbs
<b>P1991</b>	1 5/8"x1 3/16"	.075	10'	79 lbs
<b>P1993</b>	1 5/8"x1 5/8"	.105	20'	185 lbs
<b>P1994</b>	1 5/8"x1 3/16"	.075	20'	79 lbs

## HAYDON®

### 1 5/8" SPRING NUT



Locke#

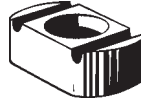
**P1999** 1/4" x 1 5/8" Spring Nut

**P3216** 3/8" x 1 5/8" Spring Nut

**P3217** 1/2" x 1 5/8" Spring Nut

## HAYDON®

### STRUT NUTS without SPRING



Locke#

**P3230** 1/4" x 20 Nut

**P3231** 5/8" x 16 Nut

**P3232** 1/2" x 13 Nut

## Thomas&Betts

### NYLON CONE NUT TOP RETAINER



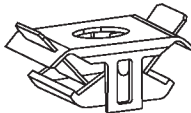
Locke#

**P3218** 1/4" Retainer Strut Nut

**P3219** 3/8" Retainer Strut Nut

## ERICO®

### STRUT NUT



Locke#

**P4121** 1/4" Slick Strut Nut

**P4122** 3/8" Slick Strut Nut

## L.H. Dottie Company

### HEX HEAD CAP SCREWS



Locke#

**P3221** 1/4"x1" Hex head cap screw

**P3222** 3/8"x1" Hex head cap screw

**P3223** 1/2"x1 5/16" Hex head cap screw

## ERICO®

### STEEL SIDE BEAM BRACKET



Clip can be fastened to side of joist or wall to support hanger rod.

Locke#

**M3360** 3/8" Steel Side Beam Bracket

## ERICO®

### UNIVERSAL C TYPE CLAMP (standard throat)



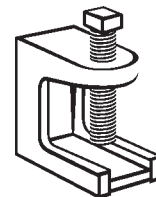
Ductile iron clamp, hardened steel cup point set screw and locknut.

Locke#

**M0822** 3/8" C Type Beam Clamp



### BEAM CLAMP MALLEABLE IRON



Locke#

**P3448** BC25 1/4" Beam Clamp

**P5338** BC38 3/8" Beam Clamp

## HAYDON®

### STRUT CLAMP WITH CUSHION

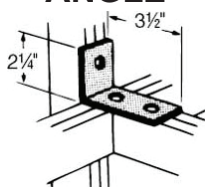


Locke#

**P8090** 2502 3/8" O.D. Strut clamp

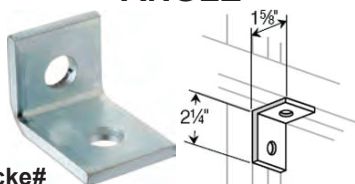
**P8094** 2506 7/8" O.D. Strut clamp

## Thomas&Betts PLATE FITTINGS 90° ANGLE



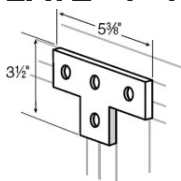
Locke#  
P3229 AB204 1 1/4" x 3 1/2" 90° Angle

## Thomas&Betts PLATE FITTINGS 90° ANGLE



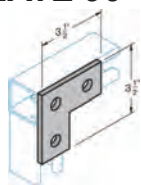
Locke#  
P3236 AB201 1 5/8" x 2 1/4" 90° Angle

## Thomas&Betts FLAT PLATE "T" FITTING



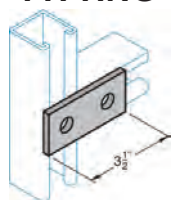
Locke#  
P3233 AB220 Flat Plate "T" Fitting

## HAYDON® FLAT PLATE 90° FITTING



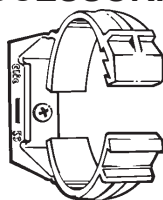
Locke#  
P3234 F210 Flat Plate 90° Fitting

## HAYDON® FLAT PLATE STRAIGHT FITTING



Locke#  
P3235 F203 Flat Plate Straight Fitting

## CLIC®/Strutcatcher™ CLIC STRAPS & ACCESSORIES



Locke#  
P4218 CLIC 32 Clic strap 1" PVC  
P4219 CLIC 36 Clic strap 1 1/4" EMT



## CONDUIT HW-TW HANGERS



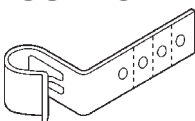
Locke#  
P0495 2052 1/2" HW-TW con. hang.  
P0496 2053 3/4" HW-TW con. hang.  
P0497 2054 1" HW-TW con. hang.  
P0498 2041 1 1/4" TW con. hang.  
P0499 2055 1 1/4"-1 1/2" HW hang.  
P0503 2056 1 1/2" HW con. hang.  
P0500 2058 2" HW-TW con. hang.  
P0501 2057 2 1/2" H-TW con. hang.  
P0502 2059 3" HW-TW con. hang.  
P2358 2061 4" HW-TW con. hang.

## Arlington Industries, Inc. CONDUIT HANGERS 1/2" Flange



Locke#  
P4174 CDOB For 1/2" Rigid or EMT  
P4175 CD1B For 3/4" Rigid or EMT

## Thomas&Betts SCREW-ON CONDUIT SUPPORT



For 1/2" & 3/4" EMT conduit & MC/AC cable.  
Locke#  
P4206 CS812 support

## Thomas&Betts T-BAR TWIST CLIPS



Supports electrical fixtures from acoustical tee bar 3/16" or 1/16" wide.

Locke#  
P4164 4G16 T-Bar Twist Clips

## Thomas&Betts MULTIFUNCTION CLIPS



Attaches to #12 wire thru 3/8" rod, fits 1/8" to 3/8" flanges.

Locke#  
P4165 4Z34 Multifunction Clips

## Thomas&Betts CONDUIT CLIPS



812M Conduit Clip now has new finger close capability. 100 per box.

Locke#	Conduit	Hole
P4168	812M 1/2"-3/4"	1/4" - 20 Thread Impression

## Thomas&Betts COMBINATION CONDUIT HANGER CLIPS

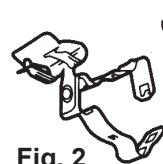
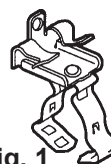


Fig. 1 Fig. 2 Fig. 3

Locke#	Fig.	Mounting Hole
P4169	812M24 1	1/2" to 3/4" conduit to 1/8" to 1/4" Flanges
P4201	812M58 1	1/2" to 3/4" conduit to 5/16" to 1/2" Flanges
P4202	812M58SM 2	1/2" to 3/4" conduit to 5/16" to 1/2" Flanges
P4521	812MATA 3	"AT" clip w/ top mounted conduit clip for 1/2" to 3/4"

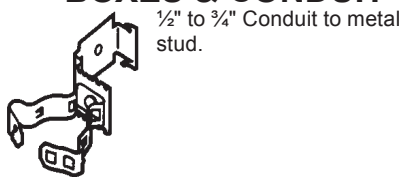
## Thomas&Betts CONDUIT SUPPORT



ANTI-RATTLE CLAMP

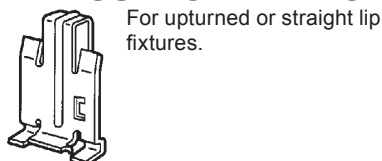
Locke#  
P4176 781 Conduit Support

## Thomas & Betts MF CLIP FOR SWITCH BOXES & CONDUIT



Locke#  
**P4170** 812MF Multifunction Clips

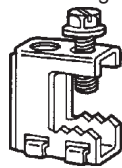
## Thomas & Betts LAY IN FIXTURE SUPPORT CLIPS



Locke#  
**P4172** 515A Support Clips

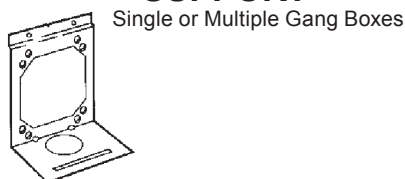
## Thomas & Betts BEAM CLAMPS

Thru 1/2" Flange



Locke#  
**P4173** BC Beam Clamps

## Thomas & Betts QUICK MOUNT BOX SUPPORT



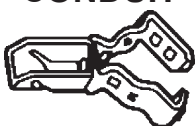
Locke#  
**P4177** H23 4" Wall Depth

## Thomas & Betts MC CABLE SUPPORT



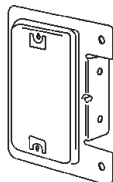
Locke#  
**P3146** PCS-1 For MC/AC 14-2 to 12-3

## Thomas & Betts "Z" SPURLIN CLIP, 1/2"-3/4" CONDUIT



Locke#  
**P5512** 123812M "Z" spurlin clip

## Thomas & Betts PLATE MOUNTING BRACKET



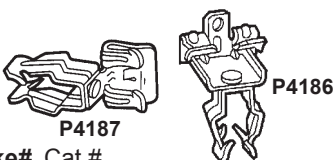
For new work  
Locke#  
**P4200** MP1S Plate Mount Bracket

## Thomas & Betts SCREWGUN BRACKETS



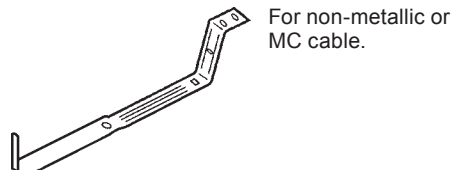
Locke#	Cat. No.	Stud Spacing	Box Depth
<b>P4184</b>	TSGB16	11"-18"	1 1/2"-28"
<b>P4185</b>	TSGB24	17"-26"	1 1/2"-28"

## Thomas & Betts COMBINATION PUSH-IN 1/2" CONDUIT CLIP



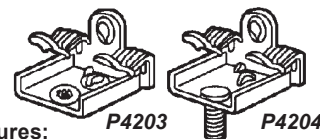
Locke#	Cat.#	
<b>P4186</b>	8P24	Clip
<b>P4187</b>	8P24SM	Clip

## Thomas & Betts COLORADO JIM



Locke#  
**P4254** CJ6 Wire Cable Support

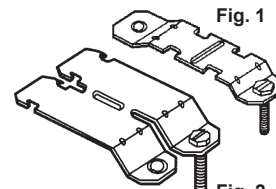
## Thomas & Betts UNIVERSAL CLAMPS



Features:  
1. To suspend a box to the underside of or to the front of beam flanges, 1/4"-3/4" thick.  
2. Provided with a 1/4"-20 thread impression.

Locke#	No.	Fig.	Flange	Per Box
<b>P4203</b>	M24	1	8"-1/4"	100
<b>P4204</b>	M24S	2	8"-1/4"	100

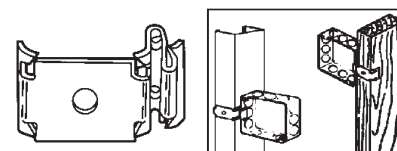
## Thomas & Betts SK SERIES STRUT CLIP



- One piece construction. 1/4"-3/4" thick.
- One size fits EMT and Rigid.
- Use screwdriver, wrench or nut driver.
- 1st - break in half. 2nd - install.
- Works with most struts. Has bright zinc finish.
- Bolt is retained to eliminate dropping of loose parts.

Locke#	Model#	Fig.	EMT	Rigid	Load lb.	Per Box
<b>P4190</b>	SK85I	1	1/2"	1/2"	200	100
<b>P4191</b>	SK125I	1	3/4"	3/4"	200	100
<b>P4192</b>	SK165I	1	1"	1"	200	100
<b>P4193</b>	SK205I	1	1 1/4"	1 1/4"	200	100
<b>P4194</b>	SK245I	1	1 1/2"	1 1/2"	200	50
<b>P4195</b>	SK325I	1	2"	2"	200	50
<b>P4196</b>	SK405I	2	2 1/2"	2 1/2"	350	50
<b>P4197</b>	SK485I	2	3"	3"	350	50
<b>P4199</b>	SK645I	2	4"	4"	350	25

## Thomas & Betts METAL STUD CLIPS

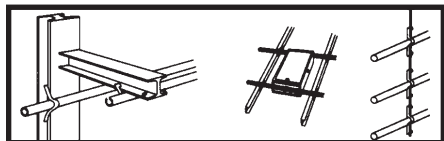


Box support to outside of stud

Locke#  
**P4180** MSF Metal Stud Clips

# Mounting & Suspension

## ERICO® KON CLIPS

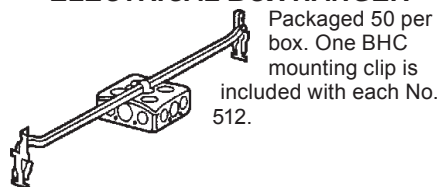


- Support conduit (EMT, Rigid, ENT, and Aluminium) to rods of flanges.
- Can be used for: flexible metallic tubing, armored cable, portable cables, control tubes, communications cable, ect.
- No installation tools required.

Sizing Chart		Conduit Size	
		1/2" & 3/4" EMT 1/2" & 3/4" Rigid	
#8, #9, #10 & #12 Wire		K-8	
3/16" & 1/4" Rod		K-8	
1/8" to 1/4" Flange		K-8	
3/16", 3/8", 7/16" & 1/2" Flange		K-12	
		#12	#10, #9, #8
14-2 Cable	KX		KX
4-3 Cable	KX		KX
12-2 Cable	KX		KX
12-3 Cable	KX		K8

- Locke#**
- P4178** K-8 Kon clips For Wire, Rod and small Flange
- P4179** K-12 Kon clips for large flange
- P4339** KX Kon clips for large flange

## ERICO® ACOUSTICAL "TEE BAR" ELECTRICAL BOX HANGER



Packaged 50 per box. One BHC mounting clip is included with each No. 512.

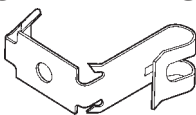
- Locke#**
- P4171** 512HD 24" Elec. Box Hanger

## ERICO® MC SUPPORT FOR METAL STUD



- Locke#**
- P4334** 449 MC Support for metal stud

## ERICO® NM/MC SUPPORT FOR WOOD/METAL STUD



- Locke#**
- P4335** FXG20 NM/MC Support for wood/metal stud

## ERICO® "Z" PURLIN CLIP



- One fastener fits flanges 1/16" to 1/4"
- Installation: Hammer-on or install from the floor with the VAFT tool
- Used to support 1/4" and 3/8" threaded rod from purlin beam flanges 1/16" thru 1/4" thick

- Locke#**
- P4343** AF146TI 3/8-16 threaded rod to 1/16" to 1/4" thick angle flange

## ERICO® Z PURLIN CLIP



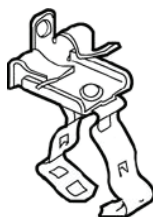
- Locke#**
- P4331** AF14 Z Purlin clip
- P4332** VAFT Installation tool for AF14

## ERICO® HAMMER-ON PURLIN CLIP



- Locke#**
- P4333** 122 Hammer-on purlin clip

## ERICO® 1" CONDUIT CLIP FOR BEAM



- Locke#**
- P4337** 16M24 1" Conduit clip for beam

## ERICO® 1" CONDUIT CLIP



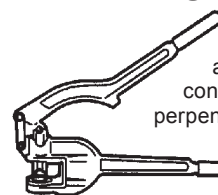
- Locke#**
- P4336** 16M 1" Conduit clip

## ERICO® 1" SIDE MT CONDUIT CLIP FOR BEAM



- Locke#**
- P4338** 16M24SM 1" Side MT Conduit Clip For Beam
- P4329** 812M24SM 1/2"-3/4" Side MT Conduit Clip For Beam

## GREENLEE METAL STUD PUNCH



New Tool Design with offset handles allow punch to work in confined locations & near perpendicular walls, punches up to 20 ga. sheet metal.

- Locke#**
- P4188** MSP20 Metal Stud Punch

## Arlington Industries, Inc. METAL STUD GROMMET



Plastic grommets snap easily into 1 1/2" hole.

- Locke#**
- P4189** ESG1 Metal Stud Grommet

## Arlington Industries, Inc. METAL STUD BUSHING



- Locke#**
- P4689** SB13 Metal Stud Bushing

P | ELECTRIC



<b>Locke#</b>	
<b>P2180</b>	MN8C #8 Commons, 2.5 Lb.
<b>P2181</b>	MN16C #16 Commons, 2.5 Lb.



<b>Locke#</b>	
<b>P6498</b>	#8 x 2½" Wood Rockets, 100ct.
<b>P6499</b>	#8 x 3" Wood Rockets, 100ct.

## DRYWALL SCREWS

<b>Locke#</b>	
<b>P6319</b>	#6 x 1½" Drywall Screws, 100
<b>P6320</b>	#6 x 1½" Drywall Screws, 500
<b>P6321</b>	#6 x 2" Drywall Screws, 100
<b>P6322</b>	#6 x 2" Drywall Screws, 300



Self-drilling & Self-Tapping


<b>Locke#</b>	
<b>P1950</b>	8"x½",¼",driver size;100/box
<b>P1951</b>	8"x¾",¼",driver size;100/box
<b>P1952</b>	8"x1",¼",driver size;100/box



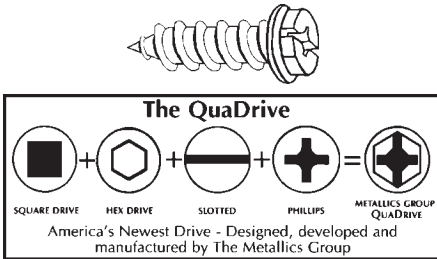
Self-drilling & Self-Tapping, 5/16" Driver Size

<b>Locke#</b>	
<b>P1953</b>	#10 x ½" Hex Screw, 100 ct.
<b>P1956</b>	#10 x ½" Hex Screw, 500 ct.
<b>P1954</b>	#10 x ¾" Hex Screw, 100 ct.
<b>P1955</b>	#10 x 1" Hex Screw, 100 ct.
<b>M0039</b>	#10 x 1¼" Hex Screw, 100 ct.
<b>P1957</b>	#8 x ½" Hex, 500 ct., ¼" head
<b>P1970</b>	#8 x ½" Hex, 1000 ct., ¼" head
<b>P1959</b>	#8 x ¾" Hex, 500 ct., ¼" head

## SELF-DRILLING PHILLIPS SCREW



<b>Locke#</b>	
<b>P6338</b>	#8 x ½" Self-Drilling, 100ct.
<b>P6372</b>	#8 x ½" Stud-Cutter, 1000ct.



<b>Locke#</b>	
<b>M0052</b>	#10x1" Sheet Metal Screw
<b>P6807</b>	#10x2" sheet metal screw, 100



Sheet metal screws with ¼" hex-washer heads.

<b>Locke#</b>	
<b>M0053</b>	100 Pack, ½"x7 (½" long)
<b>M0040</b>	1,000 Pack, ½" x 7 (½" long)
<b>M0041</b>	15,000 Pack, ½"x7 (½" long)
<b>M0042</b>	1,000 Pack, ½" x 8 (½" long)
<b>M0043</b>	100 Pack, ¾" x 8 (¾" long)
<b>M0044</b>	1,000 Pack, ¾" x 8 (¾" long)
<b>M0045</b>	100 Pack, 1" x 8 (1" long)
<b>M0049</b>	50 Pack, 2" x 8 (2" long)
<b>M0050</b>	250 Pack, 2" x 8 (2" long)

**White Screws**

<b>M0048</b>	50 Bag, 1-½" x 8 (1-½" long)
<b>M0047</b>	250 Pack, 1-½"x8 (1-½" long)
<b>M0038</b>	50 Bag, 2" x 8 (2" long)
<b>M0037</b>	250 Pack, 2" x 8 (2" long)

**We APPreciate  
Your Business!**



<b>Locke#</b>	
<b>M0956</b>	25 Pack, #8 (3" long) Screws
<b>M0943</b>	100 Pack, #8 (3" long) Screws
<b>M0046</b>	50 Bag, #2 phillips oval head(2") Register Screws





<b>Locke#</b>	<b>NAED#</b>	
<b>P3698</b>	TS21	10438 8-1"




<b>Locke#</b>	
<b>M3137</b>	1333050 Wood-To-Metal 10-24 X 1 7/16"

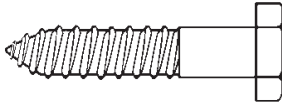



<b>Locke#</b>	
<b>M3134</b>	1333002 ¼" Tapcon Screws 1¼"
<b>M3135</b>	1333004 ¼" Tapcon Screws 1¾"
<b>M3136</b>	1333006 ¼" Tapcon Screws 2¾"

<b>Locke#</b>	
<b>P5972</b>	QCSH3 Tapcon Anchor 3/16" x 2¼", Hex Head ¼" 100 per box
<b>P5965</b>	18007 Tapcon Anchor ¼" x 1¼", Hex Head 5/16" 100 per box
<b>P5967</b>	18008 Tapcon Anchor ¼" x 1¾", Hex Head 5/16" 100 per box
<b>P5973</b>	QCSH30 Tapcon Anchor ¼" x 2¼", Hex Head 5/16" 100 per box

## Metallics Inc. HEX HEAD LAG SCREW



Locke#	Vendor#	NAED#	Dia.	Length
P3692	BLS38	15301	1/4"	1 1/4"
P3691	BLS21	15336	3/8"	2"
P2182	BLS20		5/16"	6"

## Metallics Inc. LAG SCREW SHIELDS



Locke#	Vendor#	NAED#	Screw Size	Hole Size	Length
P3686	1201	18000	1/4"	1/2"	1"
P3687	1203	1810	3/8"	5/8"	1 1/4"

## ZAMAC ANCHOR



Locke#	Vendor#	NAED#	Size	Quantity
P5974	HDA141		1/4" x 1"	Zamac, 100ct.

## SLEEVE ANCHOR



Locke#	Vendor#	NAED#	Size	Quantity
P4330	3114		5/16" x 1 1/2"	Sleeve, 100ct.

## Metallics Inc. AUGER ANCHOR KIT



For drywall. Anchor is installed with #2 phillips bit (provided). #8 phillips (provided) is inserted with same bit! Quick Step Auger anchors #8 x 1 1/4" Phillips Pan Head screws. 50 per box.

Locke#	Vendor#	NAED#	Size	Quantity
P4300	WDK8		1/4"	Auger Anchors



## WALL DOG ANCHOR SCREWS



Case Hardened Steel  
Installs in Wallboard (1/2", 5/8" & double wallboard), Plywood, Concrete, Hollow or Grout Filled Block, Brick, Plaster

- No second step, installs directly through fixture into wallboard
- Patented design provides for smooth entry, clean cutting and a powerful hold
- Thread design prevents spinning and stripping
- Penetrates metal and wood studs
- When removed it leaves a much smaller hole than other systems
- Can be easily backed-out
- No need for shields

Locke#	Vendor#	NAED#	Description
P1833	WDOG		Walldog Anchors

## L.H. Dottie Company SCREW ANCHOR KIT

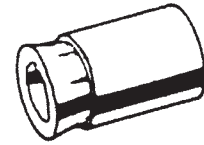


Kit includes the masonry drill & the matching screws. Assures fast, permanent, low cost mountings. The complete 3-in-1 kit includes everything you need for average mounting jobs. Includes 100 No. 12 x 1" "Hi-Red" Screw Anchors; 100 Pan Head - slotted tapping screws (10" x 1"); 1 1/4" Hi-Twist Masonry Drill. Packed in 7" x 3 1/2" x 1 1/4" plastic box.

Locke#	Vendor#	NAED#	Description
M0051	HPAK-14		Screw Anchor Kit

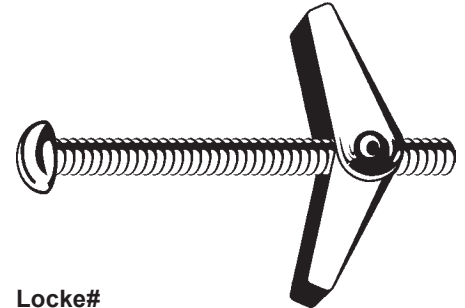
*We APPreciate  
Your Business!*

## Metallics Inc. MACHINE SCREW ANCHORS



Locke#	Vendor#	NAED#	Screw Size	Hole Size	Length
P3688	1406	17825	1/4"-20	1/2"	7/8"
P3690	1408	17835	3/8"-16	5/8"	5/8"
P3689	ST-5		ST Tool for P3688 Anchor		
P3695	ST-7		ST Tool for P3690 Anchor		

## Metallics Inc. STEEL TOGGLE BOLT



Locke#	Vendor#	NAED#	Description
M0057			3/8" x 3" Toggle Bolt
M0059			1/4" x 3" Toggle Bolt
M0060			1/4" x 4" Toggle Bolt

*We Do More  
than Just  
Meet our  
competition,  
We Beat  
them.  
compare  
our Prices  
And Save!!*

P | ELECTRIC



## ROUND HEAD MACHINE SCREW



**Locke#**

<b>P1834</b>	Round Head Machine Screw 6-32x1-1/4 Phillips Head 100/box
<b>P1835</b>	Round Head Machine Screw 6-32 X 2 Phillips Head 100/box



## FLAT HEAD SCREWS



**Locke#**

<b>P1823</b>	8/32 x 1", 100 per box
<b>P1824</b>	8/32 x 2", 100 per box
<b>P1825</b>	6/32 x 1", 100 per box
<b>P1831</b>	6/32 x 1 1/2", 100 per box
<b>P1826</b>	6/32 x 2", 100 per box



## PHILLIPS/SLOTTED ROUND MACHINE SCREWS



**Locke#**

<b>P1829</b>	8/32 x 2", Steel, 100 per box
<b>P1822</b>	10/24 x 1 1/4", 100 per box
<b>P1830</b>	10/32 x 1 1/4", 100 per box
<b>P6800</b>	1/4"-20 x 3/8", 100 per box



## STOVE BOLT WITH NUT

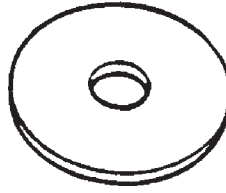


**Locke#**

<b>M0821</b>	1/4"-20 x 1", 100 per box
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## FENDER WASHERS



**Locke#**

<b>P3991</b>	W113	1/4" x 1" Washer, 100 pk
<b>P4005</b>	W127	3/8" x 1" Washer, 100 pk
<b>P4006</b>	W120	1/2" x 1 3/8" Washer, 100 pk
<b>P3992</b>	W114	1/4" x 1 1/2" Washer, 100 pk
<b>P5504</b>	FENW316114	3/16" x 1 1/4" Washer, 100 pk



## FLAT WASHER



**Locke#**

<b>P3993</b>	1/2" Flat Washer, 50 pack
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## FLAT WASHER



**Locke#**

<b>M0820</b>	3/8" Flat Washers
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## HEXAGON FINISHED NUTS



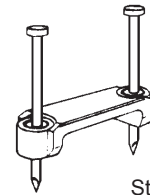
**Locke#**

Locke#	NAED#	Thread
<b>P3693</b>	N163	14100 1/4"-20
<b>P3694</b>	N166	14115 1/2"-13
<b>M0819</b>		3/8"

**MAke Money the eAsY WAY. BuY right ANd sAve!!**



## PLASTIC INSULATED STAPLES



**Locke#**

Locke#		Stud Spacing	Per Box
<b>P4305</b>	PLX-50-1	14-2,12-2	100
<b>P4306</b>	PLX-50-5	Romex	500
<b>P4307</b>	PLX-75-1	12-3,10-3	100
<b>P4308</b>	PLX-75-5	Romex	500
<b>P5515</b>	PLX-50P	Romex	4000



## CABLE STAPLES

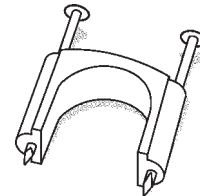


**Locke#**

<b>P0382</b>	NMC	2 conductors, 12 & 14 wire, 1" x 1 1/2", 100 ct.
<b>P0383</b>	NMC	3 conductors, 10, 12 & 14 wire, 1 1/4" x 9/16", 100 ct.
<b>P3696</b>	RX50X2P	1" x 1/2" Romex Staples, 5000 ct.
<b>P0398</b>	BX3-P	9/16" x 1 1/16" Romex Staples, 7500 ct.
<b>P6613</b>	SEU43	1 1/2" x 1" staples for SE cable, 100 ct.



## CABLE STAPLES



**Locke#**

<b>P0380</b>	GSE330	Staples for #2 SER cable, 30 per box
<b>P0381</b>	GSE715	Staples for 4/0 SER cable, 15 per box

## 3M SCOTCHKOTE ELECTRICAL COATING



This is an electrical grade, fast-drying sealant and bonding compound in a brush-top can.

**Locke#**

**P0139** 15 oz. Scotchkote

## 3M SCOTCH 33-PLUS VINYL PLASTIC ELECTRICAL TAPE



For applications in extremes of heat and cold. Provides moisture tight electrical mechanical protection with minimum bulk. To be used as a primary electrical insulation (especially in moisture and solvent vapor areas) for all wire and cable splices up to 600 volts and for fixture and wire splices up to 1000 volts.

**Locke#**

**P0115** 3/4" x 66' per roll, black

## 3M TEMFLEX 2150 RUBBER ELECTRICAL TAPE



Temflex 2150 Rubber Electrical Tape is designed for insulating and sealing in low voltage applications.

**Locke#**

**P4797** 2150 3/4" x 22' Temflex 30 mil. Electrical Tape

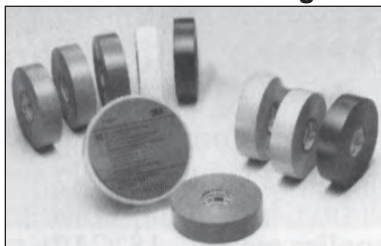
## HIGHLAND BLACK ELECTRICAL TAPE



**Locke#**

**P0113** 3/4" x 66' Black Electrical Tape

## VINYL ELECTRICAL TAPE For Color Coding



Especially suited for color coding, phase identification, identifying motor leads, piping systems, marking safety areas, insulating splices, terminations and harnessing. Resists abrasion, ultraviolet rays, moisture, alkalis, solvents and many acids. It is flame retardant, cold and weather resistant.

**Locke#**

**P0116** 3/4" x 66' Red Electrical Tape

**P0117** 3/4" x 66' White Electrical Tape

**P0118** 3/4" x 66' Blue Electrical Tape

**P0119** 3/4" x 66' Green Electrical Tape

**P0120** 3/4" x 66' Yellow Electrical Tape

**P0121** 3/4" x 66' Orange Electrical Tape

**P0122** 3/4" x 66' Brown Electrical Tape

**P0123** 3/4" x 66' Violet Electrical Tape

**P0124** 3/4" x 66' Gray Electrical Tape

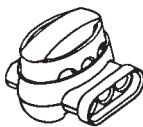
## PHONE WIRE CONNECTORS



**Locke#**

**P2787** UR2 Phone Wire Connector 19-26 AWG, 100 per box

## 3 COND IDC CONNECTORS



**Locke#**

**P2786** 314 3 Cond IDC Connector 22-14 AWG

## 3M SCOTCHFIL ELECTRICAL INSULATION PUTTY



An electrical grade rubber based non-vulcanizing, elastic-type putty in tape form. Noncorrosive, will not dry out and applies cleanly without waste. It can be wrapped, stretched or molded around irregular shapes.

**Locke#**

**P0126** 1/2" x 60' x 8" per roll

## 3M SCOTCH "ALL-WEATHER" PLASTIC TAPE



20% thicker than ordinary plastic tape. A "super" tape for the toughest jobs. Conformable under all climatic conditions, even in cold weather.

**Locke#**

**P0127** 3/4" x 66' x .0085 per roll

## 3M HI-VOLTAGE SPLICING TAPE



Linerless insulating tape. Void free, moisture resistant insulation without loss of electrical characteristics. Compatible with all solid dielectric cable insulations. Can be used on cables whose emergency overload temp. reach 130° C.

**Locke#**

**P0125** 3/4" x 30' per roll

## 3M VINYL MASTIC TAPE



2200 pads are made of a self-fusing, rubber-based insulating compound, laminated to an all-weather grade vinyl (PVC) around difficult shapes and will insulate, moisture seal, and pad all connections up to 600V.

### Locke#

P0111 2200 4 1/2" x 6 1/2" pads

## 3M VINYL MASTIC TAPE



2228 is a comfortable 1000V laminating tape consisting of an EPR backing bonded to a tacky, temperature stable, mastic.

### Locke#

P0109 2228 2"x10' roll

## 3M TEMFLEX FRICTION TAPE



Provides abrasion protection in wire and cable splices and connection insulation applications.

### Locke#

P4796 1755 3/4" x 60' Temflex  
15 mil. Cotton Tape

## 3M VINYL ELECTRICAL TAPE

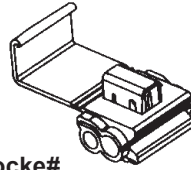


This is an economy-grade, 7-mil. tape that is UL listed. CSA certified for 176° F/80° C & individually packaged. 3/4" x 60'.

### Locke#

P0112 3/4"x60' Vinyl Electrical Tape

## 3M SCOTCHLOK SELF-STRIPPING ELECTRICAL TAP CONNECTORS



(Tap) 18-14 AWG  
(Run) 12-10 AWG

### Locke#

P2788 567 Connectors -100 box

## 3M 2242 SCOTCH LINERLESS SPLICING COMPOUND

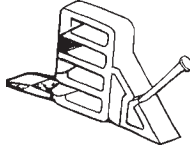


2242 is an all-purpose rubber tape. Use for all-purpose splicing, insulating bus bars, jacketing and insulating.

### Locke#

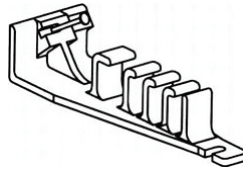
P0099 2242 Description Case  
3/4" x 15'/bag 50

## 3M STACK-IT CABLE STACKER



### Locke#

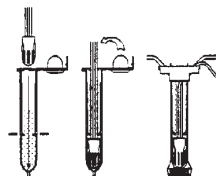
P4292 SI-1 Cable Stacker



### Locke#

P4289 SIFS-1 Cable Stacker for  
Furring Strip

## 3M DIRECT BURY SPLICE KITS



Direct bury splice kits splice and effectively moisture seal 2 or more conductors for remote control circuits in irrigation and landscape lighting systems. Rated for 600v.

### Locke#

Splices/Kit Kits/Case  
P2789 DBO/B6 2-Orange/Brown 25  
P2790 DBRY6 2-Red/Yellow 25

## 3M SCOTCHCODE WIRE MARKER DISPENSER



Fast, convenient marking of wire or cable. Ten refillable compartments let you choose the exact number/letter combinations needed.

### Locke#

P2132 STD-0-9 Numbered tape (one  
each of 0-9)

## 3M SCOTCHCODE WIRE MARKER TAPE REFILLS



Each roll is printed with a number (#) 0-9

### Locke#

Locke#	#	Box	Case
P2800	SDR-0	0	10 50
P2801	SDR-1	1	10 50
P2802	SDR-2	2	10 50
P2803	SDR-3	3	10 50
P2804	SDR-4	4	10 50
P2805	SDR-5	5	10 50
P2806	SDR-6	6	10 50
P2807	SDR-7	7	10 50
P2808	SDR-8	8	10 50
P2809	SDR-9	9	10 50

## Thomas & Betts SELF FUSING INSULATION TAPE



- It only adheres to itself
- No adhesives or heat required for permanent bond
- Bond is immediate even if wet
- Insulation for high and low voltage
- High and low temperature stability (-130°F to 500°F)
- UV, ozone, Steam / moisture resistant

### Locke#

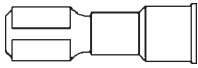
P1156 TBFT421-36 Red 1"x36'  
40 mils thick

**3M**  
**VINYL INSULATED BUTT CONNECTORS**



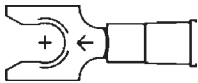
Locke#	Wire	Per
P2860	BSV10Q 12-10	25
P2861	BSV14L 16-14	50
P2862	BSV18L 22-18	50

**3M**  
**VINYL INSULATED FEMALE DISCONNECTS**



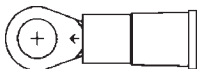
Locke#	Wire	Tab	Per
P2863	FDV10-250Q12-10	250	25
P2864	FDV14-250L 16-14	250	50

**3M**  
**VINYL INSULATED LOCKING FORKS**



Locke#	Wire	Stud	Per
P2865	LFV10-10Q 12-10	10	25
P2866	LFV10-8Q 12-10	8	25
P2867	LFV10-6Q 12-10	6	25
P2868	LFV14-10L 16-14	10	50
P2869	LFV14-8L 16-14	8	50
P2870	LFV14-6L 16-14	6	50

**3M**  
**VINYL INSULATED RING TONGUES**



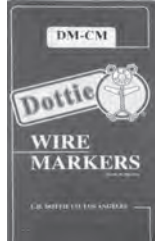
Locke#	Wire	Stud	Per
P2875	RV10-14Q 12-10	14	25
P2876	RV10-10Q 12-10	10	25

**GB** Gardner Bender  
**STACK-IT CABLE STACKER**



Locke#	Wire	Per
P2795	MCS-20W 14-2 Multicable	

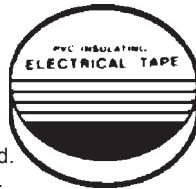
**CIRCUIT BREAKER MARKERS**



Each book contains 3 sets of 90 different labels.

Locke#	Product	Description
P2166	DMCM	Residential (main, kitchen, bedroom, patio, etc.)
P2136	DM09	Wire Markers numbered 0-9, (60 Ea, 0-4 / 30 Ea, 5-9)
P5529	DM145	Wire Markers numbered 1-45 (10 each)

**ELECTRICAL TAPE**



UL approved.  
3/4" x 60' roll.

Locke#	Product	Description
P0114		3/4"x60' Black Electrical Tape

**3M**  
**CABLE PULLING LUBRICANT**



Locke#	Product	Description
P1165	WL-QT	1 Qt. Cable Lube
P1166	WL-1	1 Gal. Cable Lube

**3M**  
**WIRE PULLING LUBRICANT WAX**



Locke#	Product	Description
P1167	WLX-QT1	Qt. Cable Lube
P1168	WLX-1	1 Gal. Cable Lube

**NSI**  
**OXIDE INHIBITING COMPOUND**



A non-petroleum grease for use on aluminum and copper wire, with all types of pressure, tap, split-bolt and service connectors. Temperature range is 0°F to 460°F. 8 oz.

Locke#	Product	Description
P0799	OX-800	8 oz. Anti-oxidant
P0835	OX-1	3/4 oz. Anti-oxidant

**GREENLEE**  
**WIRE PULLING LUBE**

In a handy squeeze bottle. Easier to fill elbows during conduit assembly. Easier to fill conduit or spread into conductors as they are pulled in. For use on all types of wires and cables and in all types of approved conduit.



Locke#	Product	Description
P0718		1 Qt. Wire Pulling Lubricant

*We APPr eciate  
Your  
Bus in ess!*

P | ELECTRIC

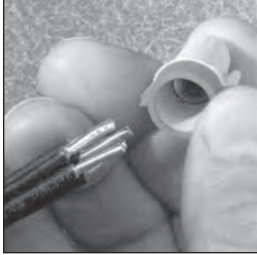
## 3M WINGED NUT DRIVER



Locke#

**T4007** WCD-P Wire nut driver for drills

## 3M WIRE CONNECTORS



Locke#

**P2784** T/R-BOX Tan/Red 100 box

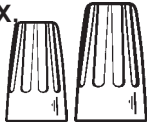
**P2785** T/R-JUG Tan/Red 750 jug

**P2782** T/Y-55218 Tan/Yellow 100 box

**P2783** T/Y-55219 Tan/Yellow 500 jug

## 3M WIRE NUTS

100 PER BOX  
priced per  
1000.

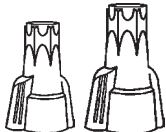


Locke#

**P2135** Gray 16-22 AWG wire range

**P0134** Orange 22-18 AWG wire range

## 3M HEXLOK™ WIRE NUTS



Locke#

**P6598** Tan Hex-lok wire nuts 100/bx

**P6600** Tan Hex-lok wire nuts 500/kg

## 3M WIRE CONNECTORS



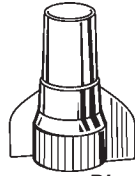
Blue - 100 PER BOX  
Orange - 500 PER BAG  
Priced per 1000.

Locke#

**P5521** Blue wire connectors,100/box

**P5525** Orange wire connect.,100/bag

## NSI WINGED TWIST LOCK WIRE NUTS



Priced per 1000. Provides a unique reentry twist off feature without the use of tools. Each has an expandable spring, steel shell and a PVC insulator.

Blue or Gray - 50 PER BOX  
Red or Yellow - 100 PER BOX

Locke#

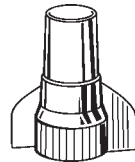
**P0135** Red 18-10 AWG Wire Range

**P0136** Yellow 18-8 AWG Wire Range

**P0137** Blue 14-6 AWG Wire Range

**P0108** Gray 14-10 AWG Wire Range

## NSI WINGED TWIST LOCK WIRE NUTS



Priced per 1000, sold in 500 count bags ONLY. Color coded electrical connectors will splice more than 1000 combinations of solid stranded building & fixture wire from 18 through 6.

Locke#

**P0140** Yellow Wire Nuts,500/bag

**P0141** Red Wire Nuts, 500/bag

## GB Gardner Bender WIRE CONNECTORS IN PLASTIC JARS

Locke#

**P1480** Yellow wire connectors, 100/jar

**P1482** Red wire connectors, 125/jar

**P1484** Large Blue wire conn., 50/jar

**P1485** Green wire connectors, 150/jar

**P1486** Tan Hex wire connect., 175/jar

**P1489** Small Grey wire conn., 150/jar

**P1490** Small Blue wire conn., 150/jar

**P1491** Orange wire connect., 100/jar

## GB Gardner Bender WINGED GROUNDING WIRE CONNECTORS



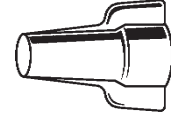
Green connectors.

Locke# Priced per 1000.

**P0138** 100 per box, priced per 1000

**P4609** 500 per bag, priced per 1000

## IDEAL 25 PACK • TERM-A-NUT



Locke#

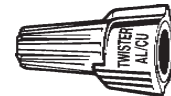
**P6760** Yellow Wire Nut, 100 per box

**P6761** Yellow Wire Nut, 500 per bag

**P6762** Red wire nut,100/box

**P6763** Red wire nut,500/bag

## IDEAL CONNECTORS

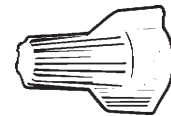


Locke#

**P6764** 30-765 Purple Wire Connector for AL/CU wire - 10 pk

**P6765** 30-165 Purple Wire Connector for AL/CU wire - 25 pk

## IDEAL TAN WING NUTS

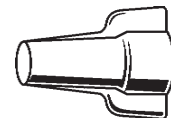


Locke#

**P6766** 30-341 Wing Nut-100/box

**P6767** 30-641 Wing Nut-500/bag

## IDEAL GREEN GROUNDING WIRE CONNECT.

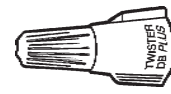


Locke#

**P6776** 30-092 Connector-100/box

**P6777** 30-292 Connector-500/bag

## IDEAL DIRECT BURY WIRE CONNECTOR



Locke#

**P6778** 30-160 Connector - 25/pk



## PUSH-IN CONNECTORS



Locke#	Part #	Description
P4000	773-162	Yellow 2-conductor 12-16 AWG Stranded Copper or 12-18 AWG Solid Copper, 100 Box
P4001	30-085J	3-conductor 18-12 AWG, 250 jar, made by <i>DEAL</i> .
P4002	773-164	Orange 4-conductor 12-16 AWG Stranded Copper or 12-18 AWG Solid Copper, 100 Box
P4003	30-087J	5-conductor 18-12 AWG, 150 jar, made by <i>DEAL</i> .
P4004	773-166	<b>Black</b> 6-conductor 12-16 AWG Stranded Copper or 12-18 AWG Solid Copper, 50 Box
P4008	773-116	<b>Green</b> 6-conductor 12-16 AWG Stranded Copper or 12-18 AWG Solid Copper, 50 Box
P4007	773-124	Gray 4-conductor, 3 x 12-16 AWG Str or 12-18 AWG Solid & 1 x 18 AWG, 100 Box



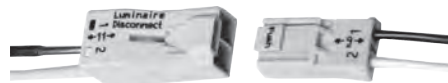
## LEVER-NUTS™



Locke#	Part #	Description
P9114	222-412	2 Conductor Lever-Nuts™
P9115	222-413	3 Conductor Lever-Nuts™
P9116	222-415	5 Conductor Lever-Nuts™



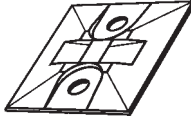
## PUSH WIRE® LUMINAIRE CONNECTOR



Locke#	Part #	Description
P4043	873-902	2-conductor Push-wire connectors for luminaire disconnect,
P4044	873-903	3-conductor Push-wire connectors for luminaire disconnect,



## CABLE TIE BASES



Locke#	Description
P2797	1"x1" Cable Tie Base, 100/bag

## NSI & ILSCO SELF-LOCKING NYLON CABLE TIES



Locke#	Description
P0130	4" Cable Ties, 3/4" dia.
P0131	5 1/2" Cable Ties, 1 1/2" dia.
P0133	7 1/2" Cable Ties, 1 3/4" dia.
P0132	11" Cable Ties, 3" dia.
P0128	14" Cable Ties, 4" dia.
P0129	15" Cable Ties, 4" dia.

## NSI & ILSCO BLACK CABLE TIES



Weather resistant black

Locke#	Description
P2791	4" Black Cable Tie, 100/bag
P2792	6" Black Cable Tie, 100/bag
P2793	8" Black Cable Tie, 100/ bag
P2794	11" Black Cable Tie, 100/bag

## NSI WEATHER RESISTANT MOUNTING CABLE TIES



Locke#	Description
P2796	8" Cable Tie f/#10, 100/bag



## HAZARD TAPE



3" x 1000' Roll, Underground Hazard Tape, "Electric Line below".

Locke#	Description
P6196	UT-7D Yellow Tape
P6790	UT-8D Red Tape



## THIN-WALL HEAT SHRINKABLE TUBING KIT



Includes these sizes: 36 3/16"x6"; 24 1/4"x6"; 12 3/8"x6"; 6 1/2"x6"; 4 3/4"x6" plus 4 1"x6" Rated to 600 volts and 194° Fahrenheit. Exceptional value, also includes handy plastic storage case.

Locke#	Description
P9903	HSKIT Black Thin-Wall Heat Shrinkable Tubing Kit
P9902	CHSKIT Colored Thin-Wall Heat Shrinkable Tubing Kit



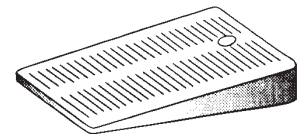
## CRIMPED SLEEVE CONNECTORS



Priced per 1000. 410 and 411 are zinc plated steel. Non-insulated for permanent connections.

Locke#	Description
P1827	41118-8 18-8 AWG wire range Crimp Sleeve Connect. 50/box
P1828	410 18-10 AWG wire range Crimp Sleeve Connect. 100/box

## WOBBLE WEDGE® INTER-LOCKING SHIMS



Use the Soft Wobble Wedges to level toilets, especially on uneven floors. It bolts down snug without any risk of chipping or cracking the porcelain. Use the Hard Wobble Wedges under water heaters and to plumb up cabinets. Stack them up to fill any gap, they won't rot or rust, they are tougher than wood shims, and they stay put.

Locke#	Description
M0667	Wobble wedges-hard vinyl shim
M0668	Wobble wedges-soft vinyl shim

# CU BUILDING WIRE AMPACITIES

## Copper

AMPACITIES OF INSULATED CONDUCTORS RATED 0-2000 VOLTS, 60°C - 250°C		
SINGLE CONDUCTORS IN FREE AIR, BASED ON AMBIENT TEMPERATURE OF 30°C		
Size	75°C	90°C
AWG or kcmil	THWN XHHW RHW USE	THHN XHHW RHH
14	30	35
12	35	40
10	50	55
8	70	80
6	95	105
4	125	140
3	145	165
2	170	190
1	195	220
0	230	260
00	265	300
000	310	350
0000	360	405
250	405	455
300	445	505
350	505	570
400	545	615
500	620	700
600	690	780
700	755	855
750	785	885
800	815	920
900	870	985
1000	935	1055
1250	1065	1200
1500	1175	1325
1750	1280	1445
2000	1385	1560

## Copper

AMPACITIES OF INSULATED CONDUCTORS RATED 0-2000 VOLTS, 60°C - 250°C		
NOT MORE THAN THREE CONDUCTORS IN RACEWAY, CABLE OR EARTH (DIRECTLY BURIED), BASED ON AN AMBIENT TEMPERATURE OF 30°C		
Size	75°C 167°F	90°C 194°F
AWG or kcmil	THWN XHHW RHW USE	XHHW THHN RHH
14	20	25
12	25	30
10	35	40
8	50	55
6	65	75
4	85	95
3	100	110
2	115	130
1	130	150
0	150	170
00	175	195
000	200	225
0000	230	260
250	255	290
300	285	320
350	310	350
400	335	380
500	380	430
600	420	475
700	460	520
750	475	535
800	490	555
900	520	585
1000	545	615
1250	590	665
1500	625	705
1750	650	735
2000	665	750

## NM-B

CONDUCTOR		
SIZE (AWG)	NO. CONDUCTORS IN CABLE	ALLOWABLE AMPACITY
TWO CONDUCTOR		
14	2	15
12	2	20
10	2	30
8	2	40
6	2	55
THREE CONDUCTOR		
14	3	15
12	3	20
10	3	30
8	3	40
6	3	55
4	3	70
2	3	95

## UF-B

CONDUCTOR		
SIZE (AWG)	NO. CONDUCTORS IN CABLE	ALLOWABLE AMPACITY
14	2	15
12	2	20
10	2	30
8	2	40
6	2	55
14	3	15
12	3	20
10	3	30
8	3	40
6	3	55

## Minimum Size Equipment Grounding Conductors for Grounding Raceway and Equipment

RATING OR SETTING OF AUTOMATIC OVERCURRENT DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC., NOT EXCEEDING (AMPERES)	SIZE	
	COPPER AWG or kcmil	ALUMINUM OR COPPER-CLAD ALUMINUM AWG or kcmil
15	14	12
20	12	10
30	10	8
40	10	8
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	0	3/0
1000	2/0	4/0
1200	3/0	250
1600	4/0	350
2000	250	400
2500	350	600
3000	400	600
4000	500	800
5000	700	1200
6000	800	1200

# CONDUIT FILL

## Maximum Number of Conductors in Trade Sizes of Conduit or Tubing

CONDUIT SIZE		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6
CONDUCTOR TYPE	WIRE SIZE												
THWN	14	13	24	39	69	94	154						
	12	10	18	29	51	70	114	164					
	10	6	11	18	32	44	73	104	160				
	8	3	5	9	16	22	36	51	79	106	136		
THHN (14 HRUT)	6	1	4	6	11	15	26	37	57	76	98	154	
	4	1	2	4	7	9	16	22	35	47	60	94	137
	3	1	1	3	6	8	13	19	29	39	51	80	116
	2	1	1	3	5	7	11	16	25	33	43	67	97
XHHW (4 HRUT 500 kcmil)	1	1	1	1	3	5	8	12	18	25	32	50	72
	0	1	1	1	3	4	7	10	15	21	27	42	61
	00	1	1	1	2	3	6	8	13	17	22	35	51
	000	1	1	1	3	5	7	11	14	18	29	42	61
	0000	1	1	1	2	4	6	9	12	15	24	35	51
	250	1	1	1	1	3	4	7	10	12	20	28	42
300	1	1	1	1	3	4	6	8	11	17	24	35	
350	1	1	1	1	2	3	5	7	9	15	21	30	
400	1	1	1	1	3	5	8	11	14	22	30	42	
500				1	1	2	4	5	7	11	16	24	35
600				1	1	1	3	4	5	9	13	20	28
700				1	1	1	3	4	5	8	11	17	24
750				1	1	1	2	3	4	7	11	17	24

# UTILITY AMPACITIES

## Triplex Service Drop 600V

ACSR NEUTRAL - MESSENGER				
Code - Word	Phase Conductor	Bare Neutral	Allowable Ampacities (amps)	
	Size (AWG)		Size (AWG)	XLP
Voluta	6	6	85	70
Periwinkle	4	4	115	90
Conch	2	2	150	120
Neritina	1/0	1/0	205	160
Runcina	2/0	2/0	235	185
Zuzara	4/0	4/0	315	245

## Quadruplex Service Drop 600V

ACSR NEUTRAL - MESSENGER				
Code - Word	Phase Conductor	Bare Neutral	Allowable Ampacities (amps)	
	Size (AWG)		Size (AWG)	XLP
Hackney	4	4	100	80
Palomino	2	2	135	105
Costena	1/0	1/0	180	140
Grullo	2/0	2/0	205	160
Appaloosa	4/0	4/0	275	210

## Triplex Secondary UD 600V

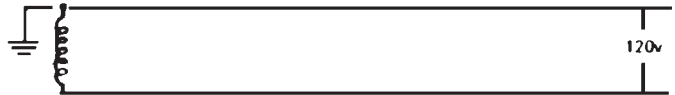
TRIPLEXED WITH YELLOW EXTRUDED STRIPE NEUTRAL				
Code - Word	Phase Conductors	Neutral	Allowable Ampacities (amps)	
	Size (AWG or kcmil)		Size (AWG or kcmil)	Direct Burial
Erskine	6	6	95	70
Vassar	4	4	125	90
Stephens	2	4	165	120
Ramapo	2	2	165	120
Brenau	1/0	2	215	160
Bergen	1/0	1/0	215	160
Converse	2/0	1	245	180
Hunter	2/0	2/0	245	180
Sweetbriar	4/0	2/0	315	240
Wesleyan	350	4/0	415	320

## Quadruplex Secondary UD 600V

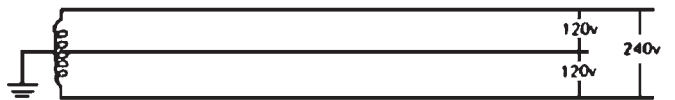
QUADRUPLEX WITH YELLOW EXTRUDED STRIPE NEUTRAL				
Code - Word	Phase Conductors	Neutral	Allowable Ampacities (amps)	
	Size (AWG or kcmil)		Size (AWG or kcmil)	Direct Burial
Tulsa	4	4	120	85
Dyke	2	4	155	115
Notre Dame	1/0	2	200	150
Syracuse	2/0	1	225	170
Wake Forest	4/0	2/0	290	225

## TYPES OF A-C DISTRIBUTION 600 Volts or Less

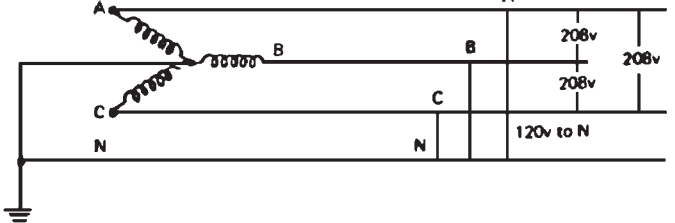
a. Single phase, 2-wire, 120 volts



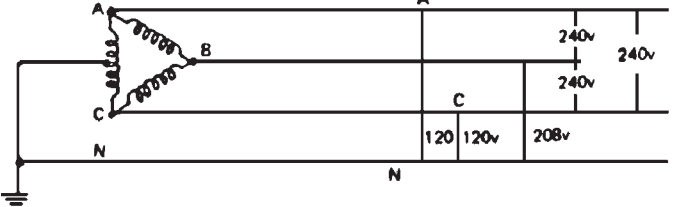
b. Single phase, 3-wire, 120/240 volts



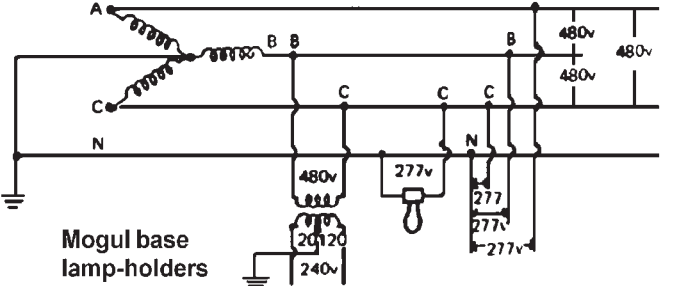
c. Three phase, 4-wire wye, 120/208 volts



d. Three phase, 4-wire delta, 120/240 volts



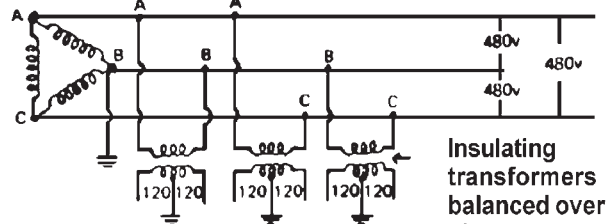
e. Three phase, 4-wire wye, 480/277 volts



Mogul base lamp-holders for industrial occupancies only.

Ballast loading 277V to ground (Section 210-6) Limited occupancies: industrial, office buildings, large schools, stores, & public commercial areas of other buildings, such as hotels or transportation terminals.

f. Three phase, 3-wire delta, 240 or 480 volts



May be grounded but mandatory under conditions covered by Sec. 410-76.

Insulating transformers balanced over phase-Secondary must be grounded.

# nEMA - St RAigHt bl ADe Con FiguRAtion S

## NEMA CONFIGURATIONS FOR GENERAL-PURPOSE NONLOCKING PLUGS & RECEPTACLES

		15 AMPERE		20 AMPERE		30 AMPERE		50 AMPERE		60 AMPERE	
		Receptacle	Plug	Receptacle	Plug	Receptacle	Plug	Receptacle	Plug	Receptacle	Plug
2-POLE 2-WIRE	125V	1-15R	1-15P								
	250V		2-15P	2-20R	2-20P	2-30R	2-30P				
	277V			(RESERVED FOR FUTURE CONFIGURATION)							
	600V			(RESERVED FOR FUTURE CONFIGURATION)							
2-POLE 3-WIRE GROUNDING	125V	5-15R	5-15P	5-20R	5-20P	5-30R	5-30P	5-50R	5-50P		
	250V	6-15R	6-15P	6-20R	6-20P	6-30R	6-30P	6-50R	6-50P		
	277V AC	7-15R	7-15P	7-20R	7-20P	7-30R	7-30P	7-50R	7-50P		
	347V AC	24-15R	24-15P	24-20R	24-20P	24-30R	24-30P	24-50R	24-50P		
	480V AC			(RESERVED FOR FUTURE CONFIGURATION)							
	600V AC			(RESERVED FOR FUTURE CONFIGURATION)							
3-POLE 3-WIRE	125/250V AC			10-20R	10-20P	10-30R	10-30P	10-50R	10-50P		
	30 250V	11-15R	11-15P	11-20R	11-20P	11-30R	11-30P	11-50R	11-50P		
	30 480W			(RESERVED FOR FUTURE CONFIGURATION)							
	30 600V			(RESERVED FOR FUTURE CONFIGURATION)							
3-POLE 4-WIRE GROUNDING	125/250V	14-15R	14-15P	14-20R	14-20P	14-30R	14-30P	14-50R	14-50P	14-60R	14-60P
	30 250V	15-15R	15-15P	15-20R	15-20P	15-30R	15-30P	15-50R	15-50P	15-60R	15-60P
	30 480V			(RESERVED FOR FUTURE CONFIGURATION)							
	30 600v			(RESERVED FOR FUTURE CONFIGURATION)							
4-POLE 4-WIRE	30 208Y/120V	18-15R	18-15P	18-20R	18-20P	18-30R	18-30P	18-50R	18-50P	18-60R	18-60P
	30 480Y/277V			(RESERVED FOR FUTURE CONFIGURATION)							
	30 600Y/347V			(RESERVED FOR FUTURE CONFIGURATION)							
4-POLE 5-WIRE GROUNDING	30 208Y/120V			(RESERVED FOR FUTURE CONFIGURATION)							
	30 480Y/277V			(RESERVED FOR FUTURE CONFIGURATION)							
	30 600Y/347V			(RESERVED FOR FUTURE CONFIGURATION)							

# uSeFuI FoRMuI AS

## CENTIGRADE-FAHRENHEIT CONVERSION

Deg. C	Deg. F	Deg. C	Deg. F	Deg. C	Deg. F	Deg. C	Deg. F
0	32.0	26	78.8	51	123.8	76	168.8
1	33.8	27	80.6	52	125.6	77	170.6
2	35.6	28	82.4	53	127.4	78	172.4
3	37.4	29	84.2	54	129.2	79	174.2
4	39.2	30	86.0	55	131.0	80	176.0
5	41.0	31	87.8	56	132.8	81	177.8
6	42.8	32	89.6	57	134.6	82	179.6
7	44.6	33	91.4	58	136.4	83	181.4
8	46.4	34	93.2	59	138.2	84	183.2
9	48.2	35	95.0	60	140.0	85	185.0
10	50.0	36	96.8	61	141.8	86	186.8
11	51.8	37	98.6	62	143.6	87	188.6
12	53.6	38	100.4	63	145.4	88	190.4
13	55.4	39	102.2	64	147.2	89	192.2
14	57.2	40	104.0	65	149.0	90	194.0
15	59.0	41	105.8	66	150.8	91	195.8
16	60.8	42	107.6	67	152.6	92	197.6
17	62.6	43	109.4	68	154.4	93	199.4
18	64.4	44	111.2	69	156.2	94	201.2
19	66.2	45	113.0	70	158.0	95	203.0
20	68.0	46	114.8	71	159.8	96	204.8
21	69.8	47	116.6	72	161.6	97	206.6
22	71.6	48	118.4	73	163.4	98	208.4
23	73.4	49	120.2	74	165.2	99	210.2
24	75.2	50	122.0	75	170.0	100	212.0
25	77.0						

## USEFUL FORMULAS

Quantity	Unit	Words	Symbols
Electromotive Force or Potential Difference	Volt	Ampere x ohm	$E=IR$
Current	Ampere	$\frac{\text{volt}}{\text{ohm}}$	$I = \frac{E}{R}$
Resistance	Ohm	$\frac{\text{volt}}{\text{ampere}}$	$R = \frac{E}{I}$
Conductance	Mho	$\frac{1}{\text{resistance}}$	$G = \frac{1}{R}$
Resistance	Ohm	$\frac{1}{\text{conductance}}$	$R = \frac{1}{G}$
Power	Watt	volt x ampere	$P=EI$
Power	Horsepower	$\frac{\text{watts}}{746}$	$hp = \frac{EI}{746}$
Energy	Watthour	volt x ampere x hour	$W=EIT$
Work	Kilowatthour	1,000 x watt x hour	$W=1,000PT$

Standard Points	Degrees F	Degrees C
Boiling point of water at sea level; i.e. pressure - 1 atmosphere	212°	100°
Melting point of ice	32°	01°
Absolute 0; i.e. the total absence of heat; theoretically only	-460°	-273°
Between boiling point & freezing point	-180°	-100°
Conversion Equations	$\text{Degrees F} = \frac{9}{5} (\text{degrees C} + 32)$	
	$\text{Degrees C} = \frac{5}{9} (\text{degrees F} - 32)$	