



JOURNEYMAN™ GLOVES

Klein Tools' iconic JOURNEYMAN Gloves are designed for today's jobsite demands. They are constructed of the latest high-quality high-tech materials available. The new Journeyman Gloves provide ample comfort and functionality on and off the jobsite.

<p>Utility Gloves Klein Tools Journeyman Utility gloves are a hi-tech update to one of the best-selling gloves. The anatomically designed palm eliminates material bunching for an exceptional fit. Your hands will stay cool, dry and comfortable with TrekDry material covering your wrist, thumb and fingers.</p>	
<p>Camouflage Gloves Klein Tools Journeyman Camouflage gloves utilize synthetic leather in the palm and fingertips, extending the life of the glove while providing optimum dexterity. Form-fitting TrekDry material with Mossy Oak® Break-Up® Infinity camouflage helps keep your hands cool, dry and comfortable.</p>	
<p>Grip Gloves Klein Tools Journeyman Grip gloves offer protection and ample gripping capability in wet and dry conditions. PORON® padding material in the palm absorbs impact. Great for wire pulling. Neoprene cuff and soft molded rubber closure with hook and loop secures fit.</p>	
<p>Cut 5 Resistant Gloves Klein Tools Journeyman Cut Level 5 gloves provide protection, dexterity and extreme functionality on and off the jobsite. These gloves have been dipped for extra protection and are CE category II for immediate risk. The neoprene wrist closure provides extreme comfort.</p>	
<p>Leather Utility Gloves Klein Tools Journeyman Leather Utility gloves are durable and comfortable and have an open cuff for an easy quick on and off. These gloves have a dura hide palm and leather first fingers for durability. The stretch back adds extra comfort and flexibility.</p>	

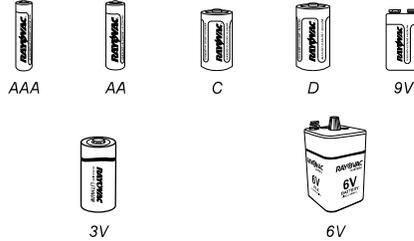
Vendor Code: **KLE**

Catalog Number	Size	Color(s)	Price Each
JOURNEYMAN UTILITY GLOVES			
40206	Large	Black/Gray	22.69
40207	X Large	Black/Gray	22.69
JOURNEYMAN CAMOUFLAGE GLOVES			
40209	Large	Camouflage*	28.52
40210	X Large	Camouflage*	28.52
JOURNEYMAN GRIP GLOVES			
40215	Large	Black	44.17
40216	X Large	Black	44.17
JOURNEYMAN CUT 5 RESISTANT GLOVES			
40224	Large	Black	17.63
40225	X Large	Black	18.74
JOURNEYMAN LEATHER UTILITY GLOVES			
40227	Large	Brown	30.09
40228	X Large	Brown	30.09

*Mossy Oak® Break-Up Infinity Pattern



BATTERIES



Vendor Code: **ROV**

Catalog Number	Description	Ctn. Qty.	Price per 100 pcs.
INDUSTRIAL ALKALINE BATTERIES			
ALAA8J	AAA Size	8	54.00
ALAA8J	AA Size	8	49.85
ALC6J	C Size	6	91.45
ALD12	D Size	12	136.76
AL9V8	9 Volt	8	167.83

Catalog Number	Description	Ctn. Qty.	Price Each
LITHIUM PHOTO BATTERY			
RL123ABULKA	3 Volt	100	3.41

Catalog Number	Description	Ctn. Qty.	Price Each
LANTERN BATTERY			
944A	6 Volt Heavy Duty Spring Terminal	1	6.80

FLASHLIGHT



DIY3AAABXTB

Workhorse Pro™ 3AAA LED Virtually Indestructible Flashlight
Reliable light in a durable package. The Virtually Indestructible Flashlight shines with powerful LEDs and an aluminum-titanium casing that can survive a 30-foot drop. Plus, Energy Saver mode gives you extended use for the long haul.

Vendor Code: **ROV**

Catalog Number	Lumens	Battery Size	Price Each
WORKHORSE PRO™ 3AAA LED VIRTUALLY INDESTRUCTIBLE			
DIY3AAABXTB	250	(3) AAA	25.36

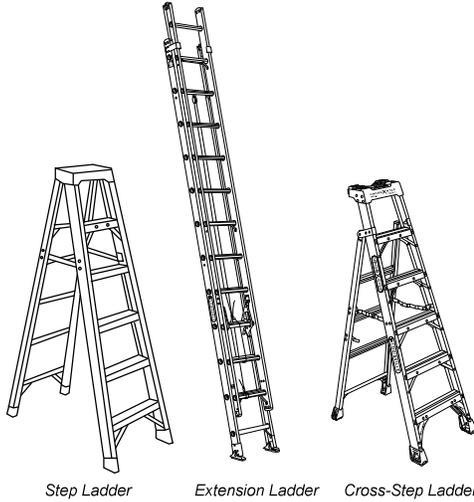


Tools, Terminals & Fasteners





LADDERS



Step Ladder Extension Ladder Cross-Step Ladder

Step Ladder

- Multi-functional Raptor Top with multiple tool slots and magnet
- Non-marring tread delivers slip-resistant footing and durability

Extension Ladder

- Direct rung to rail connection for a stronger connection
- Heavy duty metal slide guides

Cross Step Ladder

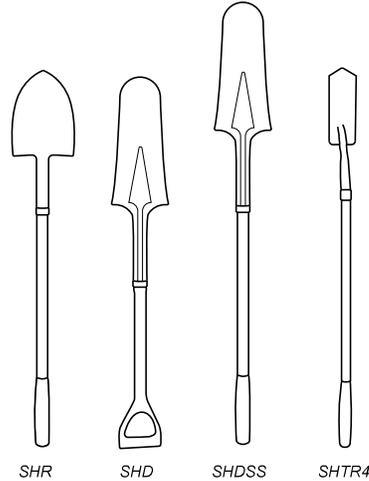
- ProTop™ keeps your tools right where you need them
- Heavy-duty interior support braces protect the ladder during transport to extend its lifespan.

Vendor Code: **LOU**

Catalog Number	Size	Weight (lbs.)	Price Each
300 LB. STEP LADDERS			
FS1504	4'	14	119.29
FS1506	6'	20	157.52
FS1508	8'	26	209.67
FS1510	10'	29	312.21
FS1512	12'	46	382.69
375 LB. REINFORCED STEP LADDERS			
FS1406HD	6'	21	220.76
FS1408HD	8'	26	291.64
FS1410HD	10'	42	387.55
FS1412HD	12'	53	474.50
300 LB. EXTENSION LADDERS			
FE3224	24'	51	379.59
300 LB. CROSS STEP LADDERS			
FXS1504	4'	15	119.67
FXS1506	6'	21	185.54
FXS1508	8'	27	249.21
FXS1510	10'	39	365.56
FXS1512	12'	48	448.60



SHOVELS



SHR SHD SHDSS SHTR4

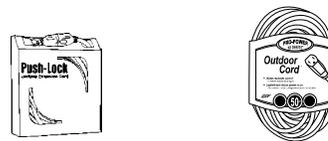
Dottie's Professional Grade Shovels are a unique compound construction fabricated out of fiberglass strands cured under tension in a thermosetting resin and wrapped in polypropylene. The hollow fiberglass core adds strength and rigidity maximizing performance and minimizing weight. The compression bar fills the throat of the blade reinforcing the highest point of stress.

- Ergonomically Designed Cushion Grip
- Resists Industrial Chemicals
- Industrial Breaking Strength
- Does Not Absorb Moisture
- Standard 48" or 27" D-Handle

Vendor Code: **DOT**

Catalog Number	Description	Handle Length	Price Each
SHR	#2 Round Point	48"	80.76
SHD	14" Drain Spade	48"	83.72
SHDSS	14" Sharpshooter	27" (D Handle)	89.74
SHTR4	4" Trenching	48" Handle	81.56

EXTENSION CORDS



Vendor Code: **COR**

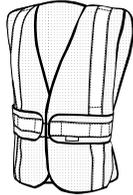
Catalog Number	Description	Price Each
PUSH-LOCK LOCKING CORDS		
025188826	45' 12/3 SJTW	46.05
ALL PURPOSE WITH INDICATOR LIGHT		
025880206	50' 12/3 SJTW	74.74
025890206	100' 12/3 SJTW	123.06

Tools, Terminals & Fasteners





SAFETY VESTS



- Scotchlite reflective material for increased visibility
- Easy to put on and take off with hook and loop fasteners
- Lightweight, breathable mesh for air circulation & faster drying

Vendor Code: **SCO**

Catalog Number	Description	Price Each
9462580030T	High-Visibility Fluorescent Orange Reflective Class 2 Construction Safety Vest	21.27
9461780030T	High-Visibility Yellow Polyester Reflective Class 2 Construction Reflective Safety Vest	21.26

GLOVES



Comfort Grip General Use



Comfort Grip Cut Resistant



Gripping Material

Comfort Grip General Use Gloves

Nitrile palm coating makes this glove a light, flexible, abrasion-resistant and long lasting alternative to many cotton and latex palm-coated gloves.

Comfort Grip Cut Resistant Gloves (ANSI 3)

These medium-duty gloves have the same features as the General Use Glove with even greater cut, puncture and tear resistance. They're excellent for jobs requiring dexterity when handling sharp parts.

Gripping Material Work Gloves

Comprised of thousands of micro fingers, these work gloves provide excellent grip, even in dirty, wet or oily conditions.

Vendor Code: **SCO**

Catalog Number	Size	Color	Price Each
COMFORT GRIP GLOVES - GENERAL USE			
CGMGU	Medium	Gray	9.67
CGLGU	Large	Gray	9.91
CGXLGU	Extra Large	Gray	9.92
COMFORT GRIP GLOVES - CUT RESISTANT (ANSI 3)			
CGMCR	Medium	Gray	31.23
CGLCR	Large	Gray	31.43
CGXLCR	Extra Large	Gray	31.69
GRIPPING MATERIAL WORK GLOVES			
WGM12	Medium	Black/Gray	32.96
WGL1	Large	Black/Gray	46.45
WGXL12	Extra Large	Black/Gray	34.49



PROTECTIVE EYEWEAR

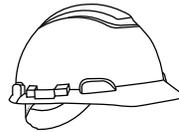


Industrial safety eye wear is designed to protect you. Available in a variety of styles, finishes, and color tints, they are designed down to the smallest detail to provide optimal performance with state of the art comfort, style, and protection.

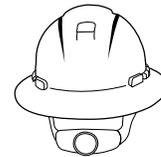
Vendor Code: **SCO**

Catalog Number	Frame	Lens Color	Price Each
STYLE: SPORT			
113431000020	Nickel	Clear	13.32
113441000020	Nickel	Gray	13.67
113451000020	Nickel	Mirror	14.33
113461000020	Nickel	Amber	9.99
115401000020	Nickel	Blue	14.05

HARD HATS



H-700 Series



Full Brim H-800 Series

H-700 Series

Protective hard hat with comfortable 4-point pinlock suspension and standard brow pad. Available in several colors. Meets requirements of ANSI/ISEA Z89.1-2014 Type 1, Class G and E.

- Suspension sits lower on head to reduce pressure and increase security
- Comfortable, easy adjusting pinlock suspension
- Optimized comfort with three levels of adjustment

Full Brim H-800 Series

Protective full brim hard hat with comfortable 4-point ratchet suspension and standard brow pad and Uvicator™ Sensor. Available in several colors. Meets requirements of ANSI/ISEA Z89.1-2014 Type 1, Class G and E.

- Impact resistant, ANSI Type I hard hat wears lightweight and comfortable on the head
- Comfortable suspension sits lower on head to reduce pressure points
- Smooth, easy turning ratchet suspension is easy to adjust
- 4-point ratchet suspension with three position height adjustment allows for customized fit
- Uvicator™ sensor shows when it's time to replace hard hat due to UV exposure

Vendor Code: **SCO**

Catalog Number	Color	Style	Price Each
H-700 SERIES			
H701P	White	Cap	14.16
FULL BRIM H-800 SERIES			
H801RUEVA*	White	Full Brim	30.37

*Includes UV Indicator That Lets Wearer Know When to Replace Hat Due to UV Exposure.

Tools, Terminals & Fasteners



Rags · Caulk and Sealants · Multi-Purpose Towels · Fire Protection Products

WIPING RAGS



- Rags are all new material bleached knit. They are medium weight, random size, soft, absorbent and are a low linting premium all purpose wipe.

Vendor Code: **DOT**

Catalog Number	Description	Price Each
RGZ2	Two Pound Bag of New White Knit Rags	20.16

CAULK & SEALANTS GUN AND AEROSOL CAN



RTV10



HF340

Vendor Code: **DOT**

Catalog Number	Color	Description	Price Each
RTV3	Clear	3 Ounce Tube	8.08
RTV10	Clear	10, 1 Ounce Cartridges	17.12
HF340	Foam	12 Ounce Pres. Can	19.13
CAULKING GUN			
CG10		Caulking Gun	9.78

MULTI-PURPOSE TOWELS IDEAL WIPES™



Vendor Code: **IDE**

Catalog Number	Description	Price Each
38500	12" x 9" (82 Towels in a Can)	24.25



FIRE BARRIER SEALANT



FD150+RED



FD150+RED(200Z)

3M™ Fire Barrier Sealant FD 150+ is an economical alternative to firestopping applications. It is used to firestop metal pipes or cables through concrete or gypsum, and for use in dynamic head-of-wall systems. A single-part, sag-resistant, water-based acrylic latex sealant, 3M Fire Barrier Sealant FD 150+ has excellent adhesion characteristics to most common construction materials. And, since it dries to the touch within one hour, it can be painted for a more professional-looking job.

Vendor Code: **SCO**

Catalog Number	Description	Price Each
LATEX CAULK, RED COLOR		
FD150+RED	10.1 fl. oz. Cartridge	8.99
FD150+RED(200Z)	20 fl. oz. in a Sausage Pack	13.24

FIRECAULK



High-performance latex-based intumescent firestop sealant. When properly installed, this product provides up to 4-hour fire protection in tested and listed systems. Firestops items penetrating through fire-rated construction assemblies. Dries to red color, no mixing required.

Vendor Code: **SCO**

Catalog Number	Description	Price Each
CP25WB+	Firecaulk (10.1 oz.)	42.78



FIRE PROTECTION PRODUCTS



66366



66367

66335

Metacaulk® Putty Pads are used to maintain the hourly rating of fire-rated walls containing electrical outlet boxes and to reduce sound transmission. Only one pad thickness (1/8 inch) is required for a 1 or 2 hour fire rating. No additional putty material needed to plug the end of each electrical metallic tube or conduit at its connection to the box. Hand moldable with no curing time required. STC rating 60. Tested in a UL 411 wall assembly/section to ASTM E90.

66366 and 66367

Metacaulk® Box Guard™ is a highly intumescent, fire-rated pad for use in electrical boxes. For steel electrical box membrane penetration applications, it is inserted on the inside back wall of an electrical box. When exposed to fire, Box Guard™ will expand forming a char that will seal off the opening and prevent the spread of flames and limit the temperature rise on the unexposed surfaces. A labor saving, economical alternative to putty pads. Great for retrofit jobs. STC 53 Rating. Tested in a UL 411 wall assembly/section to ASTM E90

Vendor Code: **REC**

Catalog Number	Description	Price Each
66335	Metacaulk Putty Pad 7" x 7" x 1/8"	9.96
66366	Metacaulk Single Gang Box Guard 1-13/16" x 2-13/16" x 1/4"	7.72
66367	Metacaulk Double Gang Box Guard 3-11/16" x 3-3/4" x 1/4"	8.43



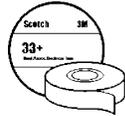
Tools, Terminals & Fasteners





Tools, Terminals & Fasteners

VINYL ELECTRICAL TAPE



Vendor Code: **SCO**

Catalog Number	Description	Price Each
1700	3/4" x 60' x .007" General Use	2.19
33	3/4" x 66' x .007" Premium	8.79
88	3/4" x 66' x .0085" Super Premium	16.28
88SUPER	1-1/2" x 44' x .0085" Super Premium	17.61

VINYL ELECTRICAL TAPE COLOR CODING

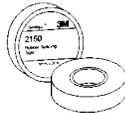


Vendor Code: **SCO**

Catalog Number	Description	Price Each
1700CWH	3/4" x 60' General Use	3.55
35WH	3/4" x 66' Premium	8.28
35WH12	1/2" x 20' Premium	2.86

Catalog Numbers Listed Above are White. Replace WH with BL for Blue, BR for Brown, GR for Green, GY for Gray, OR for Orange, PR for Purple, RD for Red, or YE for Yellow.

RUBBER SPLICING TAPE



Vendor Code: **SCO**

Catalog Number	Description	Price Each
LINERLESS		
130C34X30	3/4" x 30', 600V	24.24
130C112X30	1-1/2" x 30', 600V	50.99
130C2X30FT	2" x 30', 600V	61.23
WITH LINER		
2155	3/4" x 22' x .76", 600V	7.26
23	3/4" x 30', 600V - 6.9kV	29.37
70	1" x 30', 15kV+	78.11

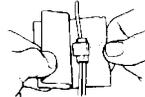
DUCT TAPE



Vendor Code: **SCO**

Catalog Number	Description	Color	Price Each
3939	2" x 60 Yards	Grey	19.59

MASTIC PADS RATED FOR DIRECT BURIAL



Vendor Code: **SCO**

Catalog Number	Size	Ctn. Qty.	Price Each
2200	3.25" x 4.25" Mastic Pad	10*	7.05
2200L	6.5" x 4.5" Mastic Pad	10*	10.23
2210	3.75" x 10" Vinyl Mastic Roll	10*	96.34

*Bulk Packed, No Inner Carton.

SCOTCHFIL INSULATION PUTTY IN TAPE FORM



Vendor Code: **SCO**

Catalog Number	Description	Price Each
SCOTCHFIL	1.5" x 60' x .125", 600V	21.36

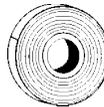
GLASS CLOTH TAPE



Vendor Code: **SCO**

Catalog Number	Description	Price Each
27	3/4" x 66' x .007", 600V / 130°C	36.57

VARNISHED CAMBRIC ELECTRICAL INSULATING TAPE



Vendor Code: **SCO**

Catalog Number	Description	Price Each
2510	3/4" x 60' x .007"	42.39
2520	3/4" x 60' x .008"	51.11



SCOTCHWRAP CORROSION PROTECTION TAPE



Vendor Code: **SCO**

Catalog Number	Size	Carton Quantity	Price Each
50	2" x 100' x .010"	1	38.30

ELECTRICAL COATING



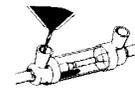
3M™ Scotchkote™ Electrical Coating FD is intended for use as a moisture and corrosion resistant outer seal on vinyl tape applications which are subjected to excessive amounts of oil. It is designed to improve the weather resistance of the taped splice. It meets state and local Volatile Organic Compound (VOC) limits.

- Rubber Coating to seal vinyl tape in a variety of environments
- Fast drying

Vendor Code: **SCO**

Catalog Number	Description	Price Each
SCOTCHKOTE	15 oz. Brush-top Can	47.70

UNDERGROUND SPLICE KITS



Vendor Code: **SCO**

Catalog Number	Connection Size	Cable O.D.	Price Each
RESIN INLINE			
82A	10 - 2 AWG	.750"	62.82
82A1	2 AWG	.625"	57.72
82A2	2 - 3/0 AWG	1"	94.91
82A3	3/0 AWG - 400 MCM	1.56"	151.31

1kV Multiple Conductors. 5kV Single Conductors.

DUCT SEAL



Vendor Code: **DOT**

Catalog Number	Description	Price Each
LHD1	1 lb. Plug	5.96
LHD5	5 lb. Plug	24.23



HEAT SHRINK TUBING



Vendor Code: **SCO**

Catalog Number	Description	Price Each
THIN WALL - SHRINK RATIO UP TO 2:1		
FP3011848BLACK	1/8" x 48"	3.28
FP30131648BLACK	3/16" x 48"	3.52
FP3011448BLACK	1/4" x 48"	4.09
FP3013848BLACK	3/8" x 48"	4.90
FP3011248BLACK	1/2" x 48"	6.23
FP3013448BLACK	3/4" x 48"	7.89
THICK WALL - SHRINK RATIO UP TO 4:1		
ITCSN040048	#12-6 x 48"	50.48
ITCSN080048	#8-1/0 x 48"	53.36
ITCSN110048	#2-4/0 x 48"	64.29
ITCSN150048	#3/0-400 x 48"	80.12
ITCSN200048	250-750 x 48"	105.61
ITCSN08006	#8-1/0 x 6"	9.95
ITCSN08009	#8-4/0 x 9"	12.23
ITCSN11009	#2-4/0 x 9"	16.54
ITCSN15009	#3/0-400 x 9"	21.77

Other Colors of Thin Wall Heat Shrink Tubing Available

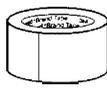
INSURE® PUSH-IN WIRE CONNECTORS



Vendor Code: **IDE**

Catalog Number	Description	Quantity per Jar	Price per 100 pcs.
301032J	12 AWG, 2-Port	300	17.08
301033J	12 AWG, 3-Port	250	17.72
301034J	12 AWG, 4-Port	200	19.01

TAPE



3939



302



406



364

Vendor Code: **MIL**

Catalog Number	Description	Color	Price Each
DUCT TAPE			
3939	2" x 60 Yards	Grey	19.59
NON-DETECTABLE UNDERGROUND TAPE			
22126	3" x 1,000'	Red	59.90
DETECTABLE UNDERGROUND TAPE			
31107	3" x 1,000'	Red	127.63
BARRICADE (CAUTION) TAPE			
22202	3" x 1,000'	Yellow	56.50

SUPER PERFORMANCE PLUS SPRING CONNECTORS



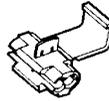
T/R+ 2 #18 - 5 #12 T/Y+ 2 #22 - 3 #12

Vendor Code: **SCO**

Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
TY+BOX	2 #22 - 3 #12	100	22.35
TR+BOX	2 #18 - 5 #12	100	33.09
RY+BOX	2 #18 - 2 #8	100	27.94
BG+BOX	4 #14 - 2 #6	50	77.72

BULK PACKED			Price per 1000 pcs.
TY+JUG	2 #22 - 3 #12	750	130.77
TR+JUG	2 #18 - 5 #12	750	119.76
RY+BULK	4 #18 - 2 #8	750	150.04

SELF-STRIPPING CONNECTORS



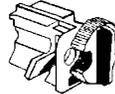
Vendor Code: **SCO**

Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
557	22 - 16 AWG	100	43.41
560	18 - 14 AWG	100	32.09
567	16 - 12 AWG	100	63.99
562	12 - 10 AWG	100	51.28

BREAKER LOCKOUTS



44809



44783

Vendor Code: **IDE**

Catalog Number	Description	Price Each
44809*	Single Pole Breaker Lockout	60.18
44783	Multi-Pole Breaker Lockout	20.47

*Three Devices per Package.

HEAVY DUTY LOCKOUT TAGS



Vendor Code: **IDE**

Catalog Number	Description	Carton Quantity	Price Each
44833	Red Striped Background	5	33.71

FIXTURE DISCONNECTS



Vendor Code: **IDE**

Catalog Number	Wire Size Range	Ctn. Qty.	Price per 100 pcs.
30372	Solid 18 - 12 AWG Stranded 14 - 12 AWG	25	184.14
30382J	Solid 18 - 12 AWG Stranded 14 - 12 AWG	75	154.11

WIRE NUTS



Vendor Code: **IDE**

Catalog Number	Color	Wire Size Range	Ctn. Qty.	Price per 100 pcs.
WT11	Gray	22 - 14 AWG 3 #22 - 2 #16	100	15.59
WT21	Blue	22 - 14 AWG 3 #20 - 3 #16	100	14.87
WT31	Orange	22 - 14 AWG 2 #18 - 2 #14	100	16.51
WT41	Yellow	22 - 10 AWG 3 #20 - 2 #12	100	16.88
WT61	Red	20 - 8 AWG 2 #14 - 4 #12	100	17.51

B-CAP CONNECTORS



Vendor Code: **IDE**

Catalog Number	Color	Wire Size Range	Ctn. Qty.	Price per 100 pcs.
BOXED				
B11	Yellow	3 #20 - 3 #12	100	22.58
B21	Red	2 #18 - 5 #12	100	30.59
B41	Blue/Gray	2 #12 - 2 #6	25	73.02

BULK PACKED			Price per 1000 pcs.
B1B	Yellow	3 #20 - 3 #12	91.16
B2B	Red	2 #18 - 5 #12	125.08

LOW VOLTAGE COMMUNICATIONS CONNECTORS



VDV826604



VDV826605

Vendor Code: **KLE**

Catalog Number	Wire Size Range	Carton Quantity	Price Each
VDV826604	22 - 26 AWG	25	9.07
VDV826605	19 - 26 AWG	25	9.07

Tools, Terminals & Fasteners





SPLIT-BOLT CONNECTORS



COPPER TO COPPER

Vendor Code: **TAB**

Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
9H	12 Solid – 10 Stranded	100	553.81
8H	10 Solid – 8 Stranded	100	508.42
6H	8 Solid – 6 Solid	100	508.42
4H	8 Solid – 4 Solid	100	515.72
3H	8 Solid – 3 Solid	100	607.84
2H	6 Solid – 2 Solid	100	976.27
2H3*	6 Solid – 2 Solid	100	1118.14
1H3*	6 Solid – 2 Str.	100	1024.82
1H	6 Solid – 2 Stranded	100	1003.30
10H	4 Solid – 1/0 Stranded	50	1610.85
20H	2 Solid – 2/0 Stranded	25	2232.84
30H	2 Solid – 4/0 Stranded	25	2799.89
40H	1 Str. – 250 MCM	25	3112.95
350M	250 – 350 MCM	1	6852.35
500M	400 – 500 MCM	1	8778.80

*Accommodates 3 Wires of Maximum Size.

ALUMINUM TO COPPER

Vendor Code: **TAB**

Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
6HPS	12 Solid – 6 Solid	100	520.72
4HPS	12 Solid – 4 Solid	100	768.49
2HPS	8 Solid – 2 Solid	100	998.90
10HPS	6 Solid – 1/0 Stranded	50	2416.79
20HPS	6 Solid – 2/0 Solid	25	2416.79
40HPS	4 Solid – 4/0 Stranded	25	4124.69

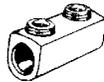
SINGLE TERMINAL LUGS FOR COPPER CONDUCTORS



Vendor Code: **TAB**

Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
L35	14 – 8 AWG	100	209.34
L70	14 – 4 AWG	100	368.90
L125BB	8 – 1/0 AWG	100	506.23
L250	6 AWG – 250 MCM	50	1761.26

BOLTED BUTT SPLICES FOR ALUMINUM OR COPPER



Vendor Code: **TAB**

Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
ASR0214	14 – 2 AWG	12	1049.45
ASR1114	14 – 1/0 AWG	12	1174.04
ASR2506	6 AWG – 250 MCM	12	2623.62
ASR3506	6 AWG – 350 MCM	12	6021.70

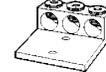
BOLTED LUGS FOR ALUMINUM OR COPPER



ADR6



ADR1121



ADR0232

Vendor Code: **TAB**

Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
SINGLE CONDUCTOR ONE-HOLE			
ADR6	14 – 6 AWG	50	102.25
ADR2	14 – 2 AWG	50	141.74
ADR11	14 – 1/0 AWG	25	191.77
ADR21	14 – 2/0 AWG	25	211.80
ADR25	6 AWG – 250 MCM	25	650.88
ADR30	6 AWG – 300 MCM	25	826.44
ADR35	6 AWG – 350 MCM	12	884.16
ADR50	4 AWG – 500 MCM	6	1383.11
ADR60	2 AWG – 600 MCM	6	1416.52
SINGLE CONDUCTOR TWO-HOLE			
ADR6012D	2 AWG – 600 MCM	3	2309.86
TWO CONDUCTOR			
ADR1121	14 – 1/0 AWG	12	468.04
ADR2121	14 – 2/0 AWG	12	475.23
ADR2521	6 AWG – 250 MCM	12	1324.10
ADR3521	6 AWG – 350 MCM	6	1836.41
ADR6021	2 AWG – 600 MCM	4	2965.68
THREE CONDUCTOR			
ADR0232	14 – 2 AWG	6	1918.77
ADR1132	14 – 1/0 AWG	6	2971.44
ADR2532	6 AWG – 250 MCM	6	3997.19
ADR3532	6 AWG – 350 MCM	3	3268.87

INSULATION PIERCING TAP CONNECTORS



Vendor Code: **TAB**

Catalog Number	Wire Size Range	Price per 100 pcs.
IPC1102	8 – 1/0 AWG	2545.54
IPC4111	1/0 – 4/0 AWG	2840.96

OXIDE INHIBITORS



Vendor Code: **TAB**

Catalog Number	Description	Price per 100 pcs.
CTB8	8 oz. Contax Oxide Inhibiting Compound	1931.67



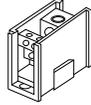
Tools, Terminals & Fasteners





Gangable Blocks · Multi-Tap Connectors · Easy-Twist™ Wire Connectors

GANGABLE BLOCKS



Vendor Code: **NSI**

Catalog Number	Line (Lugs)	Load (No Lugs)	Price Each
SINGLE LINE / SINGLE LOAD			
AS11H	14 – 2 AWG	14 – 2 AWG	16.10
ASK1K1	14 – 2/0 AWG	14 – 2/0 AWG	20.04
AMN1N1	6 AWG – 250 MCM	6 AWG – 250 MCM	36.91
AMP1P1	6 AWG – 350 MCM	6 AWG – 350 MCM	36.33
AMR1R1	4 AWG – 500 MCM	4 AWG – 500 MCM	54.02
SINGLE LINE / MULTI LOAD			
ASK1H4	14 – 2/0 AWG	(4) 14 – 4 AWG	20.36
ASK1H6	14 – 2/0 AWG	(6) 14 – 4 AWG	40.09
ALP1K6	6 AWG – 350 MCM	(6) 14 – 2/0 AWG	55.29
ALR1M4	4 AWG – 500 MCM	(4) 6 – 4/0 AWG	71.27
DUAL LINE / MULTI LOAD			
AMK2H6	14 – 2/0 AWG	(6) 14 – 4 AWG	34.37
AMK2I6	14 – 2/0 AWG	(6) 14 – 2 AWG	42.25
ALP2K6	6 AWG – 350 MCM	(6) 14 – 2/0 AWG	62.53
ALR2R2	4 AWG – 500 MCM	(2) 4 AWG – 500	63.34

Rated at 90°C

INSULATED MULTI-TAP CONNECTORS ALUMINUM OR COPPER



Vendor Code: **NSI**

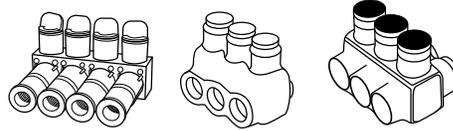
Catalog Number	Wire Size Range*	Price Each
SINGLE POLE		
ISR10	14 – 1/0 AWG	31.23
ISR250	6 AWG – 250 MCM	51.18
ISR350	6 AWG – 350 MCM	51.92
ISR500	4 AWG – 500 MCM	77.18
TWO POLE		
IT4	14 – 4 AWG Same Side	19.67
IT04	14 – 4 AWG Opposite Sides	21.08
IT10	14 – 1/0 AWG Same Side	27.26
IT010	14 – 1/0 AWG Opposite Sides	29.62
IT30	6 – 3/0 AWG Same Side	33.65
IT030	6 – 3/0 AWG Opposite Sides	37.39
IT250	6 AWG – 250 MCM Both Sides	48.79
IT350	6 AWG – 350 MCM Both Sides	62.26
IT500	4 AWG – 500 MCM Both Sides	91.91
THREE POLE		
IPLD303	6 – 3/0 AWG Both Sides	50.78
IPLD2503	6 AWG – 250 MCM Both Sides	56.36
IPLD3503	6 AWG – 350 MCM Both Sides	64.03
IPLD5003	4 AWG – 500 MCM Both Sides	93.84

*Other Wire Sizes and Openings Available for Multi-Tap Connectors.



MULTI-TAP CONNECTORS

POLARIS™ EDGE, GREY, AND VISION TAP



Polaris Edge

Polaris Grey

Polaris Vision Tap

Vendor Code: **NSI**

Catalog Number	Wire Size Range	Price Each
POLARIS EDGE™		
ISPBS20	2/0 AWG - 14 AWG 2 Port	46.76
ISPBO20	2/0 AWG - 14 AWG 3 Port	53.62
ISPB202	2/0 AWG - 14 AWG 2 Port	40.84
ISPB203	2/0 AWG - 14 AWG 3 Port	53.62
ISPBS350	350 MCM - 12 AWG 2 Port	54.04
ISPBS303	350 MCM - 12 AWG 3 Port	53.14
ISPB3504	350 MCM - 12 AWG 4 Port	72.58
ISPB3506	350 MCM - 12 AWG 6 Port	91.52
POLARIS GREY™		
ITG1	10-1 AWG (B, C, D) 10-2 AWG (K, M, I) 2 Port	35.18
IPLG13	10-1 AWG (B, C, D) 10-2 AWG (K, M, I) 3 Port	47.58
ITG6	14-6 AWG (B, C, D, K, M, I) 2 Port	20.82
IPLG63	14-6 AWG (B, C, D, K, M, I) 3 Port	23.99
ITG30	4-3/0 AWG (B, C, D) 2-2/0 AWG (K, M, I) 2 Port	37.85
IPLG303	4-3/0 AWG (B, C, D) 2-2/0 AWG (K, M, I) 3 Port	48.95
POLARIS VISION TAP™		
IPL43C	14 AWG - 4 AWG 3 Port	31.71
ISR10C	14 AWG - 1/0 AWG 2 Port	31.21
IPL103C	14 AWG - 1/0 AWG 3 Port	39.91
IPLD303C	6 AWG - 3/0 AWG 3 Port	51.03
ISR250C	6 AWG - 250 MCM 2 Port	51.18
IPLD2503C	6 AWG - 250 MCM 3 Port	56.37

EASY-TWIST™ WIRE CONNECTORS

WINGED



Square wire spring provides secure gripping of conductors. Flame retardant thermoplastic shell provides excellent electrical insulation. The compact design ensures proper installation, especially in tight spaces.

Vendor Code: **NSI**

Catalog Number	Wire Size Range	Carton Quantity	Price per 1000 pcs
WWCTB	Tan 22-8 AWG	500	80.01
WWCYB	Yellow 18-10 AWG	500	77.48
WWCRB	Red 18-8 AWG	500	72.91
WWCGB	Grey 18-8 AWG	250	157.14
WWCBB	Blue 14-6 AWG	100	218.00
WWCGRB	Green Grounding	500	87.51

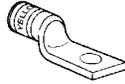
Tools, Terminals & Fasteners





Compression Lugs · Standard and Long Butt Splices · Compression Crimping Tools

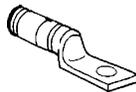
ONE HOLE COMPRESSION LUGS
STANDARD BARREL



Vendor Code: **TAB**

Catalog Number	Wire Size	Bolt Size	Color Key	Price per 100 pcs.
FOR COPPER CABLE				
54104	8 AWG	#10	Red	230.10
54130	8 AWG	1/4"	Red	230.10
54105	6 AWG	1/4"	Blue	246.69
54136	6 AWG	3/8"	Blue	245.84
54106	4 AWG	1/4"	Gray	333.01
54139	4 AWG	5/16"	Gray	333.01
54140	4 AWG	3/8"	Gray	333.01
54107	2 AWG	1/4"	Brown	448.05
54108	1 AWG	1/4"	Green	651.47
54147	1 AWG	5/16"	Green	651.47
54109	1/0 AWG	3/8"	Pink	691.48
54110	2/0 AWG	3/8"	Black	807.70
54111	3/0 AWG	3/8"	Orange	833.51
54112	4/0 AWG	3/8"	Purple	914.78
54113	250 MCM	1/2"	Yellow	1047.01
54174	250 MCM	3/8"	Yellow	1098.97
54115	350 MCM	1/2"	Red	1327.08
54116	400 MCM	1/2"	Blue	1539.90
54118	500 MCM	1/2"	Brown	1815.31
FOR ALUMINUM / COPPER				
60109TB	6 AWG	3/8"	Gray	1150.76
60114TB	4 AWG	3/8"	Green	1089.12
60120	2 AWG	1/2"	Pink	1602.40
60123	1 AWG	5/16"	Gold	1677.41
60130	1/0 AWG	3/8"	Tan	1779.73
60134	2/0 AWG	1/4"	Olive	2188.29
60142	3/0 AWG	3/8"	Ruby	2490.02
60148	4/0 AWG	3/8"	White	3219.44
60156	250 MCM	1/2"	Red	3354.60
60166	350 MCM	5/8"	Brown	4949.80
60172	500 MCM	5/8"	Pink	7320.78

LONG BARREL



Vendor Code: **TAB**

Catalog Number	Wire Size	Bolt Size	Color Key	Ctn. Qty.	Price per 100 pcs.
FOR COPPER					
54930BE	8 AWG	1/4"	Red	50	300.17
54905BE	6 AWG	1/4"	Blue	50	381.42
54906BE	4 AWG	1/4"	Gray	50	383.18
54942BE	2 AWG	5/16"	Brown	25	682.75
54947BE	1 AWG	5/16"	Green	20	679.92
54909BE	1/0 AWG	3/8"	Pink	10	994.20
54910BE	2/0 AWG	3/8"	Black	10	1015.37
54951BE	2/0 AWG	1/2"	Black	5	1045.08
54965BE	3/0 AWG	1/2"	Orange	10	1100.07
54970BE	4/0 AWG	1/2"	Purple	10	1265.09
54913BE	250 MCM	1/2"	Yellow	10	1816.89
54915BE	350 MCM	1/2"	Red	10	2052.57
54918BE	500 MCM	1/2"	Brown	6	2964.77
54920BE	600 MCM	5/8"	Green	6	4615.26

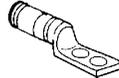
TWO HOLE COMPRESSION LUGS
STANDARD BARREL



Vendor Code: **TAB**

Catalog Number	Wire Size	Bolt Size	Color Key	Ctn. Qty.	Price per 100 pcs.
FOR COPPER					
54206	4 AWG	1/4"	Gray	50	963.10
54207	2 AWG	1/4"	Brown	25	1106.51
54209	1/0 AWG	3/8"	Pink	10	1743.31
54210	2/0 AWG	3/8"	Black	10	1793.39
54212	4/0 AWG	3/8"	Purple	10	1853.06

LONG BARREL



Vendor Code: **TAB**

Catalog Number	Wire Size	Bolt Size	Color Key	Ctn. Qty.	Price per 100 pcs.
FOR COPPER					
54852BE	6 AWG	1/4"	Blue	50	1243.75
54854BE	4 AWG	1/4"	Gray	50	1276.95
54855BE	2 AWG	1/4"	Brown	10	1343.23
54857BE	1 AWG	1/2"	Green	10	1442.75
54860BE	1/0 AWG	5/16"	Pink	10	1596.56
54862BE	2/0 AWG	1/2"	Black	10	1627.28
54864BE	3/0 AWG	1/2"	Orange	10	1721.17
54866BE	4/0 AWG	1/2"	Purple	10	1767.24
54868BE	250 MCM	1/2"	Yellow	10	1987.25
54872BE	350 MCM	1/2"	Red	10	2395.84
54876BE	500 MCM	1/2"	Brown	6	3217.42
54878BE	600 MCM	1/2"	Green	6	4780.19

STANDARD BUTT SPLICES



Vendor Code: **TAB**

Catalog Number	Wire Size	Color Key	Ctn. Qty.	Price per 100 pcs.
FOR COPPER				
54504	8 AWG	Red	50	289.38
54505	6 AWG	Blue	50	404.02
54506	4 AWG	Gray	50	515.31
54507	2 AWG	Brown	25	653.45
54508	1 AWG	Green	20	693.34
54509	1/0 AWG	Pink	10	563.74
54510	2/0 AWG	Black	10	626.69
54511	3/0 AWG	Orange	10	708.38
54512	4/0 AWG	Purple	10	779.54
54513	250 MCM	Yellow	10	1268.87
54515	350 MCM	Red	10	1451.00
54518	500 MCM	Brown	6	2171.74
FOR ALUMINUM / COPPER				
60501TB	8 AWG	Blue	20	346.06
60507TB	6 AWG	Gray	10	678.17
60512	4 AWG	Green	10	727.26
60516	2 & 3 AWG	Pink	10	961.62
60522TB	1 AWG	Gold	10	1651.06
60530TB	1/0 AWG	Tan	10	2001.61
60536	2/0 AWG	Olive	5	2111.67
60542	3/0 AWG	Ruby	5	2506.99
60548	4/0 AWG	White	5	2593.27

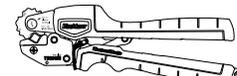
LONG BUTT SPLICES



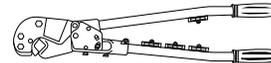
Vendor Code: **TAB**

Catalog Number	Wire Size	Color Key	Ctn. Qty.	Price per 100 pcs.
FOR COPPER				
54804	8 AWG	Red	50	244.22
54805	6 AWG	Blue	50	315.36
54806	4 AWG	Gray	50	420.49
54807	2 AWG	Brown	25	533.72
54808	1 AWG	Green	20	622.65
54809	1/0 AWG	Pink	10	1195.31
54810	2/0 AWG	Black	10	1302.89
54811	3/0 AWG	Orange	10	1352.14
54812	4/0 AWG	Purple	10	1497.08
54813	250 MCM	Yellow	10	1826.83
54815	350 MCM	Red	10	2118.53
54818	500 MCM	Brown	6	3190.61

COMPRESSION CRIMPING TOOLS



TBM45S



TBM5S

TBM45S FEATURES

- Installs Compression Connectors, C-Taps and Splices
- A Rotary Color-Coded Die Wheel Is Rotated into Position and Each Die Has Die Code Embossing
- Requires Two Crimps per Connector
- 5-15 lbs. Force Across Handles

TBM5S FEATURES

- Wide range of #8 AWG to 250 kcmil for copper and #10 to 4/0 AWG for aluminum lugs and splices
- Also installs C-taps from 54705 to 54750
- Shure Stake® mechanism ensures a properly completed crimp each time
- Includes color-coded, die code-embossed installation dies

Vendor Code: **TAB**

Catalog Number	Description	Price Each
TBM45S	Hand Compression Connector Tool	307.46
TBM5	Crimps #8-250MCM Cu, #10-4/0 Al Connectors, 54705-54750 C-Taps	447.99

Tools, Terminals & Fasteners





VINYL INSULATED LOCKING FORK STA-KON TERMINALS



INDUSTRIAL GRADE

Vendor Code: **TAB**

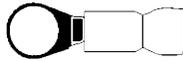
Catalog Number	Wire Size Range	Bolt Size	Ctn. Qty.	Price per 100 pcs.
18RA6FLE	22 - 18 AWG	#6	100	33.60
14RB6FLE	18 - 14 AWG	#6	100	36.19
14RB8FLE	18 - 14 AWG	#8	100	33.48
14RB10FLE	18 - 14 AWG	#10	100	33.48
10RC6FLE	12 - 10 AWG	#6	50	43.87
10RC8FLE	12 - 10 AWG	#8	50	43.87
10RC10FLE	12 - 10 AWG	#10	50	43.79

COMMERCIAL GRADE

Vendor Code: **TAB**

Catalog Number	Wire Size Range	Bolt Size	Ctn. Qty.	Price per 100 pcs.
TV188FXV	22 - 16 AWG	#8	75	45.15
TV148FXV	16 - 14 AWG	#8	75	50.91
TV1410FXV	16 - 14 AWG	#10	75	50.91
TV108FXV	12 - 10 AWG	#8	75	56.55
TV1010FXV	12 - 10 AWG	#10	75	56.55

VINYL INSULATED RING TYPE STA-KON TERMINALS



INDUSTRIAL GRADE

Vendor Code: **TAB**

Catalog Number	Wire Size Range	Bolt Size	Ctn. Qty.	Price per 100 pcs.
14RB8E	18 - 14 AWG	#8	100	42.27
14RB10E	18 - 14 AWG	#10	100	42.27
10RC8E	12 - 10 AWG	#8	50	56.76
10RC10E	12 - 10 AWG	#10	50	54.68
10RC14E	12 - 10 AWG	1/4"	50	58.25

COMMERCIAL GRADE

Vendor Code: **TAB**

Catalog Number	Wire Size Range	Bolt Size	Ctn. Qty.	Price per 100 pcs.
TV148RXV	16 - 14 AWG	#8	75	63.33
TV1410RXV	16 - 14 AWG	#10	75	63.33
TV108RXV	12 - 10 AWG	#8	75	69.83
TV1010RXV	12 - 10 AWG	#10	75	69.83
TV1014RXV	12 - 10 AWG	1/4"	75	69.83

VINYL INSULATED BUTT TYPE SPLICES



INDUSTRIAL GRADE

Vendor Code: **TAB**

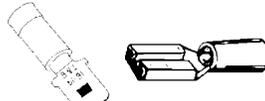
Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
2RA18XE	22 - 18 AWG	100	45.12
2RB14XE	16 - 14 AWG	100	45.12
2RC10XE	12 - 10 AWG	50	59.94

COMMERCIAL GRADE

Vendor Code: **TAB**

Catalog Number	Wire Size Range	Carton Quantity	Price per 100 pcs.
TV18BSXV	22 - 16 AWG	75	50.18
TV14BSXV	16 - 14 AWG	75	56.58
TV10BSXV	12 - 10 AWG	75	62.82

QUICK DISCONNECT STA-KON TERMINALS



MALE

FEMALE

INDUSTRIAL GRADE

Vendor Code: **TAB**

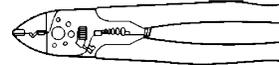
Catalog Number	Wire Type	Wire Size Range (AWG)	Ctn. Qty.	Price per 100 pcs.
TAB SIZE .250 X .032				
18RA250FE	Female	22 - 18	100	33.06
14RB250FE	Female	16 - 14	100	34.08
10RC250FE	Female	12 - 10	50	45.26
14RB250TE	Male	16 - 14	100	36.12

COMMERCIAL GRADE

Vendor Code: **TAB**

Catalog Number	Wire Type	Wire Size Range (AWG)	Ctn. Qty.	Price per 100 pcs.
TAB SIZE .250 X .032				
TV18250FDXV	Female	22 - 16	75	47.01
TV14250FDXV	Female	16 - 14	75	53.04
TV10250FDXV	Female	12 - 10	75	58.90

CRIMPING TOOL

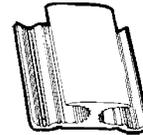


WT2000

Vendor Code: **TAB**

Catalog Number	For Use With	Price Each
WT2000	Insulated Terminals	87.67

COMPRESSION H-TAP CONNECTORS



Vendor Code: **TAB**

Catalog Number	Stranded Wire		Price per 100 pcs.
	Main Max.	Tap Min.	
WR159	1 AWG	6 AWG	208.05
WR189	2/0 AWG	6 AWG	214.11
WR289	3/0 AWG	6 AWG	388.00
WR419	4/0 AWG	3/0 AWG	394.19
WR399	4/0 AWG	1/0 AWG	389.89
WR1010	2/0 AWG	4 AWG	244.00
WR259	2/0 AWG	1/0 AWG	463.41
WR9	2 AWG	14 AWG	123.21
WR139*	2/0 AWG	10 & 14 AWG	213.97

Contains Two Taps

CRIMPING TOOL FOR INSULATED & NON-INSULATED CONNECTORS



Journeyman Series

Vendor Code: **KLE**

Catalog Number	Description	Price Each
OVERALL LENGTH 9-3/4"		
1005	Dipped Handles-Ins/Non Ins	34.82
J1005	Cushion Grip-Ins/Non Ins	46.47



Tools, Terminals & Fasteners





Cable Ties · Adhesive Mounting Base · Wire Markers

TY-RAP® CABLE TIES



INDUSTRIAL GRADE

- Ty-rap® 316 stainless steel locking device in the nylon head assures that the tie exceeds the minimum pullout strength requirements specified in MIL-S-23190

Vendor Code: TAB

Catalog Number	Length	Carton Quantity	Price per 100 pcs.
WHITE, INDOOR USE ONLY			
TY523ME	3.62"	100	11.25
TY524ME	5.5"	100	12.71
TY525ME	7.31"	100	16.12
TY526ME	11"	100	23.30
TY527ME	13.5"	50	53.91
TY528ME	14.19"	100	37.21
TY529M	30"	50	319.60
WHITE, WITH MOUNTING HEAD			
TY534M	6"	100	68.72
TY535M	7.8"	100	68.00
BLACK, OUTDOOR RATED			
TY523MXE	3.62"	100	14.55
TY524MXE	5.5"	100	15.75
TY525MXE	7.31"	100	17.22
TY526MXE	11"	100	30.28
TY527MXE	13.5"	50	59.21
TY528MXE	14.19"	100	39.04

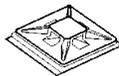
COMMERCIAL GRADE

- Commercial Grade have nylon locking devices for cost effective applications

Vendor Code: TAB

Catalog Number	Length	Carton Quantity	Price per 100 pcs.
WHITE, INDOOR USE ONLY			
L4189C	4"	100	21.14
L5309C	5.8"	100	15.09
L8409C	8.9"	100	17.85
L11409C	11.77"	100	36.88
L14409C	14.5"	100	49.42
BLACK, OUTDOOR RATED			
L4180C	4.1"	100	16.07
L5300C	5.25"	100	19.17
L8400C	8.9"	100	20.61
L11400C	11.41"	100	46.02
L14400C	14.29"	100	57.69
L241200L	24.9"	50	135.40

TY-RAP® ADHESIVE MOUNTING BASE



Vendor Code: TAB

Catalog Number	Description	Carton Quantity	Price per 100 pcs.
INDUSTRIAL GRADE			
TC5342AE	2-Way Base	100	75.57
TC5344AE	4-Way Base	100	71.48
COMMERCIAL GRADE			
MPNY1000A9C	2-Way Base	100	121.73
MPNY750A9C	4-Way Base	100	69.18

WIRE MARKERS

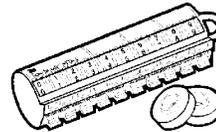


- Pocket pack wire marker books are easy to carry and easy to use
- Exclusive tab design allows you to take off marker without touching adhesive
- All purpose vinyl coated cloth tape exclusively designed to resist abrasion, oil, water and dirt

Vendor Code: TAB

Catalog Number	Contents of Each	Carton Quantity	Price Each
WM09	• Quantity 40: 0 – 9 • Quantity 10: T1, T2, T3 • Quantity 10: L1, L2, L3	10	35.95
WM045	• Quantity 10: 0 – 45	10	35.95
WM4690	• Quantity 10: 46 – 90	10	35.95
WMAZ	• Quantity 10: A – Z, +, – • Quantity 10: 0 – 15	10	35.95
WMA33	• Quantity 10: 1 – 33 • Quantity 10: A, B, C, +, – • Quantity 10: T1, T2, T3 • Quantity 10: L1, L2, L3	10	35.95

WIRE MARKING



Vendor Code: SCO

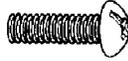
Catalog Number	Description	Price Each
SDR0	Wire Marker Tape #0	5.15
SDR1	Wire Marker Tape #1	5.15
SDR2	Wire Marker Tape #2	5.15
SDR3	Wire Marker Tape #3	5.15
SDR4	Wire Marker Tape #4	5.15
SDR5	Wire Marker Tape #5	5.15
SDR6	Wire Marker Tape #6	5.15
SDR7	Wire Marker Tape #7	5.15
SDR8	Wire Marker Tape #8	5.15
SDR9	Wire Marker Tape #9	5.15
STD09	0 – 9 Tape Dispenser	39.83
SWD	Write-on Tape Dispenser	54.37



K Tools, Terminals & Fasteners



ROUND HEAD MACHINE SCREWS COMBINATION SLOT/PHILLIPS ZINC FINISH



Vendor Code: DOT

Catalog Number	Size	Length	Carton Qty.	Price per 100 pcs.
RMC6322	6/32"	2"	100	11.54
RMC83212	8/32"	1/2"	100	5.28
RMC83234	8/32"	3/4"	100	6.15
RMC8321	8/32"	1"	100	6.21
RMC832114	8/32"	1-1/4"	100	8.91
RMC832112	8/32"	1-1/2"	100	9.61
RMC8322	8/32"	2"	100	13.62
RMC8323	8/32"	3"	100	25.56
RMC10241	10/24"	1"	100	7.82
RMC10322	10/32"	2"	100	14.86
RMC1438	1/4"	3/8"	100	10.04
RMC1412	1/4"	1/2"	100	11.39
RMC1434	1/4"	3/4"	100	11.74
RMC141	1/4"	1"	100	14.64
RMC14114	1/4"	1-1/4"	100	15.05
RMC14112	1/4"	1-1/2"	50	16.29
RMC142	1/4"	2"	50	18.21

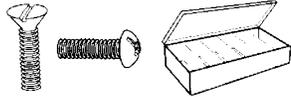
FLAT HEAD SLOTTED MACHINE SCREWS



Vendor Code: DOT

Catalog Number	Size	Length	Carton Quantity	Price per 100 pcs.
FM63212	6/32"	1/2"	100	5.43
FM63234	6/32"	3/4"	100	5.14
FM6321	6/32"	1"	100	5.47
FM632114	6/32"	1-1/4"	100	6.46
FM632112	6/32"	1-1/2"	100	8.80
FM6322	6/32"	2"	100	12.21
FM6323	6/32"	3"	100	22.77

MACHINE SCREW KITS



Vendor Code: DOT

Catalog Number	Description	Ctn. Qty.	Price Each
632	370 Assorted 6/32" Slotted Flat Head 3/4-3" Lengths	1	32.31
632PS	370 Assorted 6/32" Phillips/Slotted Round Head 1/2-2" Lengths	1	32.31
832PS	370 Assorted 8/32" Phillips/Slotted Round Head 1/2-2" Lengths	1	34.95

HEX HEAD CAP SCREWS



Vendor Code: DOT

Catalog Number	Description	Carton Quantity	Price per 100 pcs.
HEX HEAD CAP SCREWS			
MB1434	1/4-20 x 3/4"	100	15.51
MB141	1/4-20 x 1"	100	17.16
MB14114	1/4-20 x 1-1/4"	100	21.20
MB14112	1/4-20 x 1-1/2"	100	22.19
MB142	1/4-20 x 2"	100	26.76
MB3834	3/8-16 x 3/4"	100	32.47
MB381	3/8-16 x 1"	100	40.21
MB38114	3/8-16 x 1-1/4"	100	45.16
MB38112	3/8-16 x 1-1/2"	100	49.99
MB382	3/8-16 x 2"	100	59.62
MB12112	1/2-13 x 1-1/2"	50	85.69
HEX NUTS			
HN632	6-32	100	4.33
HN832	8-32	100	4.79
HN1024	10-24	100	5.12
HN1032	10-32	100	5.12
HN14	1/4-20	100	6.48
HN38	3/8-16	50	18.85
HN12	1/2-13	25	32.26

WASHERS



Vendor Code: DOT

Catalog Number	Description	Carton Quantity	Price per 100 pcs.
FENDER WASHERS			
FENW316114	3/16 x 1-1/4"	100	15.19
FENW141	1/4 x 1"	50	10.98
FENW14114	1/4 x 1-1/4"	100	14.87
FENW14112	1/4 x 1-1/2"	50	19.87
FENW38114	3/8 x 1-1/4"	100	19.87
FENW38112	3/8 x 1-1/2"	100	19.87
FENW12112	1/2 x 1-1/2"	50	19.87
LOCK WASHERS			
LW14	1/4"	100	3.56
LW38	3/8"	100	5.72
LW12	1/2"	100	9.79
FLAT STANDARD WASHERS			
FW8	#8	100	4.51
FW10	#10	100	5.14
FW14	1/4"	100	6.58
FW516	5/16"	100	8.78
FW38	3/8"	100	12.09
FW12	1/2"	50	26.88

LAG BOLTS



Vendor Code: DOT

Catalog Number	Size	Length	Ctn. Qty.	Price per 100 pcs.
LAG14112	1/4 x 1-1/2"	7/16"	100	35.24
LAG142	1/4 x 2"	7/16"	100	37.49
LAG143	1/4 x 3"	7/16"	100	46.91
LAG383	3/8 x 3"	7/16"	100	90.16
LAG384	3/8 x 4"	7/16"	100	119.01

EYE BOLTS WITH NUTS



Vendor Code: DOT

Catalog Number	Size	Carton Quantity	Price per 100 pcs.
EB10	3/8 x 4"	50	377.63
EB11	3/8 x 5"	50	434.40

SPRING TOGGLE BOLTS



Vendor Code: DOT

Catalog Number	Size	Carton Quantity	Price per 100 pcs.
COMBO - MUSHROOM HEAD			
TBC83	1/8 x 3"	50	52.67
TBC363	3/16 x 3"	50	64.32
TBC364	3/16 x 4"	50	68.89
TBC43	1/4 x 3"	50	75.99
TBC44	1/4 x 4"	50	80.00
SLOTTED - MUSHROOM HEAD			
TB384	3/8 x 4"	50	250.52

JACK CHAIN



Vendor Code: DOT

Catalog Number	Description	Load Limit	Ctn. Qty.	Price per 100 pcs.
CH1212	#12 Jack Chain	28	100	87.90
S1	S Hook	40	100	19.09

STEEL TIE WIRE



Vendor Code: DOT

Catalog Number	Gauge	Roll Quantity	Carton Quantity	Price Each
BLACK ANNEALED				
TY164	16-1/2	400'	1	16.14
GALVANIZED				
VTYG	16-1/2	400'	1	22.18

Tools, Terminals & Fasteners



Dottie



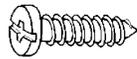
HEX HEAD SHEET METAL SCREWS



Vendor Code: DOT

Catalog Number	Size	Hex Size	Carton Quantity	Price per 100 pcs.
HWSMS834	8 x 3/4"	1/4"	100	10.39
HWSMS81	8 x 1"	1/4"	100	12.22
HWSMS1012	10 x 1/2"	5/16"	100	12.12
HWSMS1034	10 x 3/4"	5/16"	100	14.82
HWSMS101	10 x 1"	5/16"	100	16.54
HWSMS10114	10 x 1-1/4"	5/16"	100	18.34
HWSMS10112	10 x 1-1/2"	5/16"	100	20.35
HWSMS102	10 x 2"	5/16"	50	31.47
HWSMS10212	10 x 2-1/2"	5/16"	100	34.12
HWSMS103	10 x 3"	5/16"	100	40.24
HWSMS121	12 x 1"	5/16"	100	15.18

SLOT/PHILLIPS SHEET METAL SCREWS



Vendor Code: DOT

Catalog Number	Size	Carton Quantity	Price per 100 pcs.
2WS812	8 x 1/2"	100	7.89
2WS834	8 x 3/4"	100	9.34
2WS81	8 x 1"	100	10.57
2WS8114	8 x 1-1/4"	100	12.37
2WS1012	10 x 1/2"	100	10.38
2WS1034	10 x 3/4"	100	11.49
2WS101	10 x 1"	100	13.57
2WS10114	10 x 1-1/4"	100	15.84
2WS10112	10 x 1-1/2"	100	17.71
2WS121	12 x 2"	100	18.94

FRAMER SCREWS



Vendor Code: DOT

Catalog Number	Size	Head Type	Carton Quantity	Price per 100 pcs.
F6716	6 x 7/16"	Phillips Pan Head	100	5.76

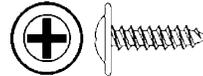
DRYWALL SCREWS



Vendor Code: DOT

Catalog Number	Description	Carton Quantity	Price per 100 pcs.
FINE THREAD			
DWSBX61	6 x 1"	100	6.03
DWSBX6118	6 x 1-1/8"	100	6.45
DWSBX6114	6 x 1-1/4"	100	6.66
DWSBX6158	6 x 1-5/8"	100	7.96
DWSBX62	6 x 2"	100	10.56
COURSE THREAD			
WR62	6 x 2"	100	10.58

METAL PIERCING K-LATH SCREWS



Vendor Code: DOT

Catalog Number	Size	Head Type	Carton Quantity	Price per 100 pcs.
KW812	8 x 1/2"	Phillips Wafer	100	6.25
KW834	8 x 3/4"	Phillips Wafer	100	7.36
TUFF PACK				
KWT812	8 x 1/2"	Phillips Wafer	1000	6.25
KWT834	8 x 3/4"	Phillips Wafer	50	7.42

SELF DRILLING TEK SCREWS



Vendor Code: DOT

Catalog Number	Size	Head Type	Carton Quantity	Price per 100 pcs.
PHILLIP WAFER HEAD				
TEKW812	8 x 1/2"	Phillips	100	12.30
TEKW834	8 x 3/4"	Phillips	100	18.69
PHILLIP WAFER HEAD - TUFF PACK				
TEKWT812	8 x 1/2"	Phillips	100	12.30
TEKWT834	8 x 3/4"	Phillips	100	18.69
HEX WASHER HEAD				
TEKHW812	8 x 1/2"	Hex	100	13.58
TEKHW834	8 x 3/4"	Hex	100	15.21
TEKHW81	8 x 1"	Hex	100	16.64
TEKHW1012	10 x 1/2"	Hex	100	18.13
TEKHW1034	10 x 3/4"	Hex	100	19.68
TEKHW101	10 x 1"	Hex	100	22.64
TEKHW10114	10 x 1-1/4"	Hex	100	24.13
TEKHW10112	10 x 1-1/2"	Hex	100	26.37
TEKHW102	10 x 2"	Hex	50	29.09
TEKHW1234	12 x 3/4"	Hex	100	27.32
HEX WASHER HEAD - TUFF PACK				
TEKHT1034	10 x 3/4"	Hex	500	19.65
TEKHT101	10 x 1"	Hex	500	21.03

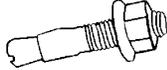
K Tools, Terminals & Fasteners

Dottie



Wedge Anchors Studs · Drywall Anchors · Hex Head Sleeve Anchors · Anchor Kits

WEDGE ANCHORS STUDS FOR CONCRETE



Vendor Code: DOT

Catalog Number	Description	Ctn. Qty.	Price per 100 pcs.
W14134	1/4" x 1-3/4" Stainless	100	151.89
W14214	1/4" x 2-1/4"	100	183.35
W38214	3/8" x 2-1/4"	100	237.44
W38234	3/8" x 2-3/4"	100	242.36
W38300	3/8" x 3"	100	243.14
W38334	3/8" x 3-3/4"	50	325.47
W12334	1/2" x 3-3/4"	50	421.89
W12512	1/2" x 5-1/2"	50	637.98

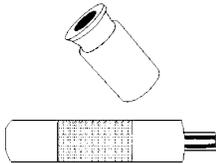
PLASTIC ANCHORS DRYWALL, CONCRETE, BRICK



Vendor Code: DOT

Catalog Number	Description	Carton Quantity	Price per 100 pcs.
22	3/16" x 3/4"	100	6.48

MACHINE SCREW ANCHORS



ANCHORS

Vendor Code: DOT

Catalog Number	Description	Drill Size	Carton Quantity	Price per 100 pcs.
MA5	1/4"	1/2"	100	83.11
MA7	3/8"	3/4"	50	196.27

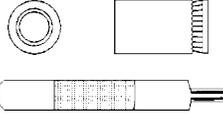
SETTING TOOL FOR MA ANCHORS

Vendor Code: DOT

Catalog Number	Description	Carton Quantity	Price Each
ST5	1/4" for MA5	1	14.78
ST7	3/8" for MA7	1	17.42

Dottie

DROP-IN ZINC-PLATED ANCHORS



ANCHORS

Vendor Code: DOT

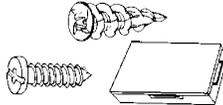
Catalog Number	Description	Drill Size	Carton Quantity	Price per 100 pcs.
DA25	1/4"	3/8"	100	173.61
DA38	3/8"	1/2"	50	281.82

SETTING TOOL FOR DA ANCHORS

Vendor Code: DOT

Catalog Number	Description	Carton Quantity	Price Each
AT25	1/4" for DA25	1	19.85
AT38	3/8" for DA38	1	25.14

DRYWALL ANCHORS AND KITS



ANCHORS

Vendor Code: DOT

Catalog Number	Description	Ctn. Qty.	Price per 100 pcs.
WD8N	Nylon #8 Anchor	100	38.71
WD8	Zinc #8 Anchor	100	55.62

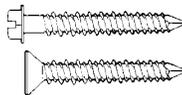
KITS

Vendor Code: DOT

Catalog Number	Description	Ctn. Qty.	Price Each
WDK8	8 x 1-1/4" Zinc, Display*	1	39.60
WDK8N	8 x 1-1/4" Nylon, Display**	1	41.97
WDK8T	8 x 1-1/4" Nylon, Tuff Pack**	1	41.97

Kits Include: Bit, 50 Phillips Sheet Metal Screws, 50 Anchors, Display* or Tuff Pack**

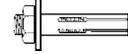
HEX HEAD SLOTTED CONCRETE ANCHORS



Vendor Code: DOT

Catalog Number	Description	Drill Size	Ctn. Qty.	Price per 100 pcs.
14H114	1/4" x 1-1/4"	3/16" x 3-1/2"	100	71.87
14H134	1/4" x 1-3/4"	3/16" x 3-1/2"	100	63.24
14H214	1/4" x 2-1/4"	3/16" x 4-1/2"	100	67.21
14H234	1/4" x 2-3/4"	3/16" x 4-1/2"	100	99.51

HEX HEAD SLEEVE ANCHORS

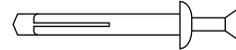


Vendor Code: DOT

Catalog Number	Description	Carton Quantity	Price per 100 pcs.
SA14138	1/4" x 1-3/8"	100	60.45
SA14214	1/4" x 2-1/4"	100	112.27
SA38300	3/8" x 3"	50	167.44

Uses Same Drill Size as Anchor Diameter.

ZAMAC ANCHORS

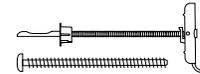


Vendor Code: DOT

Catalog Number	Description	Carton Quantity	Price per 100 pcs.
ZA100	1/4" x 1"	100	77.00
ZA125	1/4" x 1-1/4"	100	87.07
ZA150	1/4" x 1-1/2"	100	91.81
ZA200	1/4" x 2"	100	127.95

Uses Same Drill Size as Anchor Diameter.

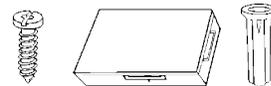
FLIPTOGGLE® KIT



Vendor Code: DOT

Catalog Number	Description	Price Each
FTG316	10 3/16" - 24 x 2-1/2" Screws 10 3/16" FlipToggle	18.47
FTG14	10 1/4" - 20 x 2-1/2" Screws 10 1/4" FlipToggle	20.85

ANCHOR KITS



Vendor Code: DOT

Catalog Number	Description	Ctn. Qty.	Price Each
PLASTIC			
K6C0	Conical Anchor Kit with #10 Screws/Anchors*	1	21.94
K6HXT	Conical Anchor Kit with Hex, Phillip, and Slot Screws/Anchors**	1	19.90
2AK	Anchor Kit with #10 SM Screws (Phillip/Slotted) Masonry Drill Bit*	1	20.18
2AKHX	Anchor Kit with #10 SM Screws (Hex/Phillip/Slotted) Masonry Drill Bit*	1	19.90

Kits Include 100 Sheet Metal Screws, 100 Anchors, Carbide Masonry Drill, and Display* or Tuff Pack**

Tools, Terminals & Fasteners



PORTABLE LABEL PRINTERS

BMP®21-PLUS



The **BMP21PLUS** is an affordable label and wire printer designed for the tool box and can print die-cut or continuous labels up to .75" wide and up to 100 labels per day.

Vendor Code: **BRA**

Catalog Number	Description	Price Each
BMP21PLUS	BMP21-PLUS Label Printer (9.5" H x 4.5" W x 2.5" D)	136.00
HEAT SHRINK SLEEVES		
M21187C342	White, .187" Dia. x 7" L	67.78
M21250C342	White, .25" Dia. x 7" L	79.78

BMP®41 AND BMP®51



BMP41



BMP51

The **BMP41** Portable Label Printer is a mid-range handheld labelling solution that can print die-cut or continuous labels up to 1" wide and up to 250 labels per day.

The **BMP51** Portable Label Printer Offers three power options: AC Power (included), rechargeable Lithium Ion Battery (included), or 8 AA's (not included) and can print die-cut or continuous labels up to 1.5" wide and up to 500 labels per day.

Vendor Code: **BRA**

Catalog Number	Description	Price Each
BMP41	BMP41 Printer with Hardcase	439.98
BMP51	BMP51 Printer with Li-Ion Battery Pack and AC Adapter	479.99
HEAT SHRINK SLEEVES		
M187075342	.187" D x .75" W	79.18
MC187342	M Series B342 White .335" x 7", 1 Roll	67.55
M1871342*	.187" D x 1" W	74.20
M250075342	.25" D x .75", White	95.99
MC250342	M Series B342 White .439" x 7", 1 Roll	79.75
M2501342*	Sleeve, .25" D x 1" W	82.27

*Only Compatible with BMP51

BMP®61

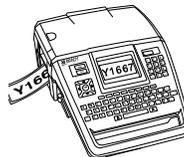


The **BMP61** handheld label printer is designed for efficient identification of wires, cables and components. It can easily import and export label files, lists and graphics to the printer through USB 2.0 port, USB flash drive or via Wi-Fi and can print die-cut or continuous labels up to 2" wide and up to 750 labels per day.

Vendor Code: **BRA**

Catalog Number	Description	Price Each
BMP61	BMP61 Label Printer (12.93" H x 4.22" W x 4.19" D)	857.13
BMP61W	BMP61 Label Printer with WiFi (12.93" H x 4.22" W x 4.19" D)	914.27
HEAT SHRINK SLEEVES		
PSPT1871WT	.187" D x 1" W	85.28
PSPT187175WT	.187" D x 1.75" W	112.97
PSPT1872WTR	.187" D x 2" W	87.58
PSPT2501WT	.25" D x 1" W	101.90
PSPT250175WT	.25" D x 1.75" W	136.24
PSPT2502WTR	.25" D x 2" W	105.58

BMP®71



The portable **BMP71** label printer is designed to help create labels fast and efficiently with features such as built-in label design wizards, storage space for over 100,000 label files, and a large, full color graphic screen with print preview capabilities. It can print continuous and die-cut labels up to 2" wide and up to 1,000 labels per day.

Vendor Code: **BRA**

Catalog Number	Description	Price Each
BMP71	BMP71 Label Printer	1027.43
HEAT SHRINK WIRE MARKING SLEEVES		
BM711871342	.187" D x 1" W	503.98
M711871342	.187" D x 1" W	77.13
BM712501342	.25" D x 1" W	663.49
M712501342	.25" D x 1" W	101.66

INDUSTRIAL LABEL PRINTER

BRADYPRINTER I3300



- No waste printing – with print smart technology, you get auto setup and calibration without throwing out blank labels
- Fast material changeovers – foolproof drop-in label rolls and ribbons snap into place for 20-second material changeovers
- Full-facility identification – complete all of your identification tasks, from wires, panels and products to safety and facility labels, with one convenient and efficient tool

Vendor Code: **BRA**

Catalog Number	Description	Price Each
150640	BradyPrinter i3300 with Brady Workstation Product and Wire ID Software Suite, (9.5" H x 9" W x 12" D)	1770.29
HEAT SHRINKABLE WIRE MARKING SLEEVES		
B331872342	B33, B342, White, .313 X 2" Fit	620.22
B3318723422	B33, B342, White, 0,313 X 2" Fit	620.22
B332502342	B33, B342, White, .415 X 2" Fit	544.09
B3325023422	B33, B342, White, .415" x 2" Fit	544.10

Tools, Terminals & Fasteners





Crimper Kits · Pipe Threader · Rotary Hammer Kits

CRIMPER KIT



- LED light provides instant pressure verification
- Provides fasted crimp time in the industry
- PFM (Predictive Force Monitoring): ensures optimal pressure every time
- Receive instant pressure verification: green light delivers peace of mind
- In-line design and 350 degree head rotation: easy access in the tightest panels
- Hydraulic system is optimized for consistent performance from 0°F - 122°F
- Proprietary jaw alignment system: holds connector for instant alignment
- Tool records and stores every crimp made. One-Key enabled for professional report building
- Weather protected electronics keep dirt, dust and moisture out

Vendor Code: **MIL**

Catalog Number	Description	Price Each
2679750C	M18™ FORCE LOGIC™ 600 MCM Cu Crimper Kit with 750 MCM Expanded Jaw	4284.29

Includes: (1) 750 MCM Cu/Al Crimping Jaw for M18™ FORCE LOGIC™ 600 MCM Crimper; (1) 750 MCM Copper 6T U Style Die, (1) 600 MCM Copper U Style Die, (1) 500 MCM Copper U Style Die, (1) 400 MCM Copper U Style Die, (1) 350 MCM Copper U Style Die, (1) 250 MCM Copper U Style Die, (1) 4/0 Copper U Style Die, (1) 3/0 Copper U Style Die, (1) 2/0 Copper U Style Die, (1) 1/0 Copper U Style Die, (1) #1 Copper U Style Die, (1) #2 Copper U Style Die, (1) #4 Copper U Style Die, (1) #6 Copper U Style Die, (1) #8 Copper U Style Die, (2) M18™ REDLITHIUM™ CP2.0 Battery, (1) M18™ & M12™ Multi-Voltage Charger, and (1) Carrying Case

CRIMPER



- Auto Distance Control Continuously Measures Distance & Pressure for Uniform Crimp Appearance Across All Sizes
- Lightest, In-Line Design & 180° Rotating Head for Easiest Alignment
- Easy Access Latch & One Handed Close, Frees-Up Second Hand to Hold Material
- Pre-Crimp Battery Check Automatically Ensures Enough Charge to Complete Each Crimp
- Fastest Dieless Crimper

Vendor Code: **MIL**

Catalog Number	Description	Price Each
287722	M18 FORCE LOGIC 750 MCM Dieless Crimper	5249.99

Includes: (1) M18™ FORCE LOGIC™ 750 MCM Dieless Crimper, (2) M18™ REDLITHIUM™ CP2.0 Battery, (1) M18™ & M12™ Multi-Voltage Charger, and (1) Carrying Case

PIPE THREADER



- AUTOSTOP™ kickback control prevents severe kickback
- Threads Faster than Corded
- Dedicated Support Arm enables threading without pipe stand
- One-Key™ technology allows for tracking, tool security, and inventory management
- Side grip and die head retention lock for no engagement with spinning die head

Vendor Code: **MIL**

Catalog Number	Description	Price Each
287422HD	M18 FUEL™ Pipe Threader w/ ONE-KEY™ Kit	2144.04

Includes: (1) M18 FUEL™ Pipe Threader w/ One-Key™, (2) M18 RED-LITHIUM™ HIGH OUTPUT™ HD12.0 Battery Pack, (1) M18™ & M12™ Rapid Charger, (1) Threading Support Arm, and (1) Carrying Case

ROTARY HAMMER KITS



271522

- FUEL™ Technology: Delivers faster than corded speed, corded durability, and all day work on one charge
- REDLITHIUM™ XC5.0 Battery Packs: Provide all day work on one charge, 20% more power and 2X more recharges than standard Lithium-Ion batteries
- AVS Anti-Vibration System: Minimizes vibration for maximum comfort
- POWERSTATE™ Brushless Motor: Provides 1.7 ft-lbs of impact energy, 0-1,400 RPM and 0-4,900 BPM
- REDLINK PLUS™ Intelligence: Integrates full-circle communication between tool, battery and charger to protect from overloading, overheating, and over-discharging

Vendor Code: **MIL**

Catalog Number	Description	Price Each
271222	M18 FUEL™ 1" SDS Plus Rotary Hammer Kit	692.69
271522	M18 FUEL™ 1-1/8" SDS Plus Rotary Hammer Kit	703.93

Includes: (2) Batteries, (1) Charger, (1) Side Handle, (1) Depth Rod, and (1) Carrying Case



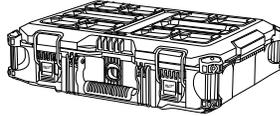
Tools, Terminals & Fasteners



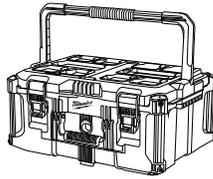


Tool Boxes · Organizers

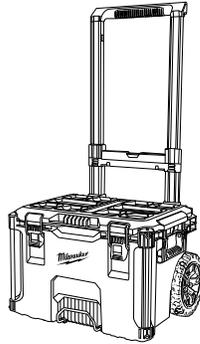
PACKOUT™ TOOL BOXES



48228424



48228425



48228426

- IP65 Rated Weather Seal
- Metal Reinforced Corners
- Metal Reinforced Locking Point
- Interior Organizer Tray(s)
- Mounting Location for the ONE-KEY™ TICK™
- Heavy Duty Latches
- Reinforced Hinge
- Metal Reinforced Top Handle (48228425 only)
- Industrial Grade Extension Handle (48228426 only)
- 9" All-Terrain Wheels (48228426 only)

Vendor Code: **MIL**

Catalog Number	Description	H	W	L	Price Each
48228424	PACKOUT Tool Box	6.6"	16.1"	22.1"	79.97
48228425	PACKOUT Large Tool Box	11.3"	16.1"	22.1"	89.97
48228426	PACKOUT Rolling Tool Box	25.6"	22.1"	18.6"	139.00

PACKOUT™ ORGANIZERS



48228430



48228431

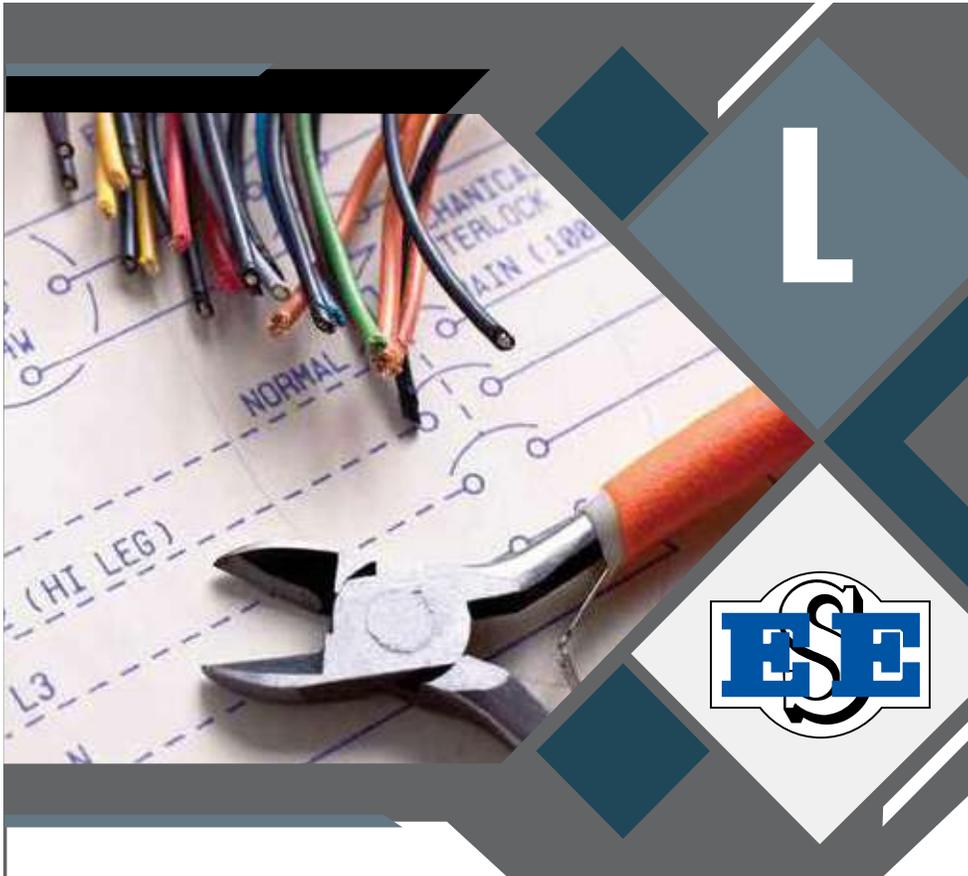
- IP65 Rated Weather Seal
- No-Travel Bins Seal Prevent Small Part Migration Between Bins
- Clear Top For Easy Identification Of Contents
- Integrated Center Slot For Long Bits and Blades
- Integrated screw slots on the back of the bins allow them to be mounted to the wall (48228430 only)
- Heavy Duty Latches
- Reinforced Hinge Includes 8 small and 2 large bins
- Slim Design for Organization of Small Items (48228431 only)

Vendor Code: **MIL**

Catalog Number	Description	H	W	L	Price Each
48228430	PACKOUT Organizer	4.61"	15"	19.76"	49.97
48228431	PACKOUT Low-Profile Organizer	2.52"	16.38"	19.76"	47.86

K Tools, Terminals & Fasteners





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L



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HOW MUCH POWER DO YOU NEED FROM YOUR GENERATOR SYSTEM?

Eaton Electrical offers a complete line of emergency automatic standby generators for home or business that can be installed during new construction or retrofitted into existing structures. Residential emergency home standby generators are permanently installed outside (similar to an air-conditioning unit), supply electrical power to all pre-selected lights and appliances, and are powered by either natural gas or LPG. Models range from 7,000 to 40,000 watts. They work with a matched automatic transfer switch that responds within seconds when utility power shuts down, even when no one is home!

In addition, Eaton has introduced a feature packed Commercial Product Line that will revolutionize the generator industry. Ranging from 20 kW to 150 kW, these gensets provide value without sacrificing quality and cover the needs of most any larger residence, business or light commercial application. Single phase and three phase models available. Residential Home Standby emergency power generator can utilize the following special features.

UL-LISTED AUTOMATIC TRANSFER SWITCH

- Automatically signals the generator to produce emergency electrical power when utility fails and disconnects when utility power returns.
- Within seconds your generator is producing electrical power without you having to even flip a switch. You don't have to be home for your system to work!

AUTOMATIC EXERCISER

- Seven (7) day interval testing of the power generating system.
- You set the system to exercise at a prescribed time and day of the week. This allows you to verify that your system is in peak operating condition between utility failures.

CONVENIENT FUEL SUPPLY

- Operates on home/business natural gas or LP gas service.
- Provides you with potentially unlimited run time during extended utility power failures.
- On Board LED System Fault Indicators - low oil pressure, high engine temperature shutdown, overspeed / overcrank shutdown and system ready light (air-cooled models only).
- Aids in performance of servicing in the event of a system difficulty. Leads technician to a more specific area for troubleshooting purposes. Reduces service time.

OHVI® SINGLE OR TWIN-CYLINDER ENGINE

- Full-pressure lubrication system with automotive spin-on oil filter (air-cooled only).
- Finest lubrication technology available and provides instantaneous disbursement of lubricant to all engine parts. Easy change filter.

AUTOMATIC VOLTAGE REGULATOR

- Maintains constant voltage with varying loads.
- Eliminates voltage spikes and allows operation of sensitive electronic equipment.

MAINTENANCE FRIENDLY

- Air-cooled models include a hinged top and removable front panel. Liquid-cooled models feature large removable enclosure doors.
- Provides easy and quick access to all maintenance and service parts. Reduces preventative maintenance or repair time.

Appliances That Can Be Powered*	Generator Kilowatts			
	8 kW	14 kW	17 kW	20 kW
Furnace Fan	√	√	√	√
Refrigerator	√	√	√	√
Four 100W Lamps	√	√	√	√
Water Pump	√	√	√	√
Sump Pump	√	√	√	√
Stereo	√	√	√	√
Color Television	√	√	√	√
Coffee Maker	√	√	√	√
Hair Dryer	√	√	√	√
Clock Radio	√	√	√	√
Computer	√	√	√	√
Deep Freezer	√	√	√	√
Microwave		√	√	√
Electric Range (1 element)		√	√	√
Electric Blanket		√	√	√
Attic Fan		√	√	√
Garage Door Opener (1/4 HP)		√	√	√
Security System		√	√	√
Washing Machine		√	√	√
Clothes Dryer		√	√	√
Dishwasher		√	√	√
Water Heater			√	√
Vacuum Cleaner			√	√
Toaster			√	√
Humidifier			√	√
Whirlpool Bath			√	√
Air Conditioner			√	√
Office Lighting				√
Coper and Fax Machines				√
Telephone System				√
Computer Network System				√
Central Air Conditioner				√



References

This chart is for estimating purposes only. Calculations are based on estimates of average wattage in each appliance type. Some appliances may be substituted for others. Appliances may not be able to run simultaneously.



NATURAL GAS MAXIMUM PIPE RUN (IN FEET)

Kilowatts (kW)	Pipe Size (Diameter)						
	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
7 – 8	55	200	820				
10	20	85	370	800			
13 – 14	10	50	245	545			
16 – 17		40	190	425			
20		20	130	305	945		
22		15	115	260	799		
25		10	95	220	739		
27			85	203	552		
30			60	147	565		
35 – 36			35	95	370	915	
40			25	75	315	790	
45			15	60	260	650	
48				50	230	585	
50				50	220	560	
60				25	145	390	1185
70				5	75	225	710
80					65	195	630
100					40	140	460
130						50	215
150						30	150

LP

- LPG: 8.55 ft³/lb., 4.24 lbs./gal., 2500 btu/ft³
- LPG: 36.3 ft³ = 1 gal.

NATURAL GAS

- 1 cubic foot = 1,000 BTU.
- 1 therm = 100,000 BTU.
- Gas consumption = 13,000 – 16,000 BTU per kW/hr.

PRESSURE

- 1 inch mercury = 13.61 inches water column.
- 1 inch Water Column = 0.036 psi.
- 5-14 inches water column = 0.18 psi to 0.50 psi.

NOTE

- Pipe sizing is based on 0.5" H₂O pressure drop
- Sizing includes a nominal number of elbows and tees.
- Please verify adequate service and meter sizing.

LP VAPOR MAXIMUM PIPE RUN (IN FEET)

Kilowatts (kW)	Pipe Size (Diameter)						
	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
7 – 8	165	570					
10	70	255	1000				
13 – 14	45	170	690				
16 – 17	25	130	540				
20	15	115	480				
22		85	365				
25		60	275	605			
27		55	260	575			
30		40	195	435			
35 – 36		20	125	290	1030		
40		15	107	250	890		
45			82	195	725		
48			70	165	620		
50			70	160	610		
60			45	115	445	1095	
70			20	60	260	660	
80			15	50	230	590	
100				30	165	430	1305
130					70	205	660
150					45	150	490





Generator LP Vapor Tank Sizing Guide

VAPOR WITHDRAWAL

Tank Capacity Total (gallons)	Tank Capacity Usable (gallons)	Minimum Temperature (°F)	Tank Capacity (BTU/hour)	Dimensions (inches)		
				Length	Diameter	Overall Height
120	72	40	246,240	57	24	33
		20	164,140			
		0	82,080			
150	90	40	293,760	68	24	33
		20	195,840			
		0	97,920			
250	150	40	507,600	94	30	39
		20	338,400			
		0	169,200			
325	195	40	642,600	119	30	39
		20	428,400			
		0	214,200			
500	300	40	792,540	119	37	46
		20	528,360			
		0	264,180			
850	510	40	1,217,700	165	41	50
		20	811,800			
		0	405,900			
1000	600	40	1,416,960	192	41	50
		20	944,640			
		0	472,320			

ESTIMATED FUEL USAGE

Load (kW)	BTU/Hour	LP (Gal/hr)	NG (ft ³ /hr)	NG (Therms/hr)
5	110,000	1.2	110	1.1
10	176,400	2.0	156	1.6
15	231,800	2.5	220	2.2
20	267,100	2.8	262	2.6
25	352,800	3.8	316	3.2
30	418,300	4.5	417	4.2
35	467,400	5.1	485	4.8
40	550,000	6.1	550	5.5
50	675,000	7.5	675	6.7
60	836,600	9.0	862	8.6
70	1,035,700	11.0	1,020	10.2
80	1,170,000	12.7	1,154	11.5
90	1,200,000	13.0	1,200	12.0
100	1,280,000	13.8	1,260	12.6
110	1,550,000	17.1	1,550	15.5
120	1,675,000	18.5	1,675	16.7
130	1,800,000	19.5	1,786	17.8
140	1,925,000	21.3	1,925	19.2
150	2,050,000	22.7	2,050	20.5
200	2,800,000	30.9	2,800	28.0
300	4,100,000	45.3	4,100	49.0

Operating Cost Per Hour = NG Therms/hour x Cost of NG Therm

GAS REQUIRED FOR COMMON APPLIANCES

Appliance	Approximate Input (BTU/hr)
WARM AIR FURNACE	
Single Family	100,000
Multi-Family, Per Unit	60,000
HYDRONIC BOILER, SPACE HEATING	
Single Family	100,000
Multi-Family, Per Unit	60,000
HYDRONIC BOILER, SPACE AND WATER HEATING	
Single Family	120,000
Multi-Family, Per Unit	75,000
RANGES	
Free Standing, Domestic	65,000
Built-in Oven or Broiler Unit, Domestic	25,000
Built-in Top Unit, Domestic	40,000
WATER HEATER, AUTOMATIC STORAGE	
30 – 40 Gallon Tank	35,000
50 Gallon Tank	50,000
WATER HEATER, INSTANTANEOUS	
2 Gallons Per Minute	142,800
4 Gallons Per Minute	285,000
6 Gallons Per Minute	428,000
OTHER APPLIANCES	
Water Heater, Circulating or Side-arm, Domestic	35,000
Refrigerator	3,000
Clothes Dryer, Type 1 (Domestic)	35,000
Gas Fireplace, Direct Vent	40,000
Gas Log	80,000
Barbecue	40,000
Gas Light	2,500
Incinerator, Domestic	35,000

References





SELECTION PROCEDURE:

The following steps will assure that the secondary voltage delivered by your transformer will be either 85%, 90% or 95% of the nameplate secondary voltage under maximum inrush conditions, at rated input voltage.

STEP 1

Calculate the total SEALED (steady state) VA load of your control circuit. This is done by adding the continuous VA requirements of the maximum number of components that will be energized at any given time, including non-inductive as well as inductive components. For Sealed VA data see chart below.

STEP 2

Calculate the PEAK INRUSH VA of your control circuit. First, analyze the sequence of operation of all components. Then add together the inrush VA ratings of the components that will be energized simultaneously. Next, determine the peak—or maximum simultaneous—inrush VA load that the transformer will "see." The VA requirements for indicating lights, timers and other non-inductive components which do not have an inrush VA also should be included since they will present a load to the transformer at the time of maximum inrush.

STEP 3

Calculate the TRANSFORMER SELECTION INRUSH VA. Use the following formula:

$$\text{Selection Inrush VA} = \sqrt{(\text{VA Sealed})^2 + (\text{VA Inrush})^2}$$

NOTE: Transformer Selection inrush VA also can be determined by adding the inrush VA and sealed VA arithmetically, but this usually results in an oversized transformer.

STEP 4

Determine the correct transformer NAMEPLATE VA Rating. Refer to the Inrush/Regulation Data table: if the line supply to the transformer is fairly stable (does not vary more than 5%), use the 90% secondary voltage column—the 90% column is most commonly used. If the line supply voltage varies up to 10%, use the 95% voltage regulation column. To determine the correct VA transformer rating, go down the column until you arrive at the inrush VA rating closest to, but not less than, the Transformer Selection Inrush VA calculated in Step 3. The left hand column of the table will give the corresponding transformer NAMEPLATE VA RATING.

NOTE: When evaluating supply-line stability, remember that supply-line voltage drop frequently is associated with motor-starting inrush current. When motors and motor controls are connected to a common feeder, the controls will experience a momentary voltage dip when the motor starts. This reduces the control transformer voltage supplied to the motor starting contactor and may cause the contactor to chatter or drop out.

INRUSH / REGULATION DATA

Transformer VA Rating at 55°C	Inrush VA — 40% Power Factor		
	At 95% Secondary Voltage	At 90% Secondary Voltage	At 85% Secondary Voltage
60	137	185	227
95	242	329	409
105	294	407	512
180	592	842	1071
225	929	1312	1663
275	1271	1801	2288
320	1581	2224	2816
380	2124	3048	3895
550	3196	4604	5896
850	5500	7914	10141
1100	8382	12067	15477
1500	11100	16066	21032
2000	21820	24356	41100
3000	29123	32770	59997
5000	74595	111000	145000
7500	104000	162000	219000
10000	111000	166000	237000

COMPONENT VA TABLES

Device	Inrush			Sealed		
	VAR	Watts	VA	VAR	Watts	VA
FREEDOM SERIES STARTERS AND CONTACTORS: AE16, AN16, AE56, AN56, CE15, CN35, CE55, CN55, MCE15						
IEC Sizes A—C	64	49	80	7.1	2.4	7.5
IEC Sizes D—F	78	65	100	9.2	3.1	10.0
IEC Sizes G—K	210	95	230	27.0	7.8	28.0
IEC Sizes L—N	374	112	390	48.0	13.0	49.8
IEC Sizes P—S	1132	240	1158	96.0	27.2	100.0
NEMA Size 00	64	49	80	7.1	2.4	7.5
NEMA Size 0	78	65	100	9.2	3.1	10.0
NEMA Sizes 1—2	210	95	230	27.0	7.8	28.0
NEMA Size 3	374	112	390	48.0	13.0	49.8
NEMA Sizes 4—5	1132	240	1158	96.0	27.2	100.0
NEMA Size 6	868	1345	1600	11.0	21.0	25.0
CITATION CONTACTORS AND STARTERS: A10, A50, B10, B50, C10, C50						
Size 00: Series C1	64	49	80	7.1	2.4	7.5
Sizes 0—1	81.5	63	103	18.7	7.0	20.0
Size 2	115	80	140	22.0	9.3	24.0
Size 3	374	112	390	48.0	13.0	49.8
Sizes 4—5	1132	240	1158	96.0	27.2	100.0
Size 6: Series C1	868	1345	1600	11.0	21.0	25.0
Size 7: Series B1						
Interposing Relay	29	68	74	5.1	6.8	8.5
Main Contactor	6275	2989	6950	170.0	60.0	180.0
Size 8: Series B1						
Main Coil	1262	2100	2450	56.0	50.0	75.0

Device	Inrush			Sealed		
	VAR	Watts	VA	VAR	Watts	VA
RELAYS						
Type AA (1—2 Pole)	18.0	8.5	20.0	8.0	6.6	11.0
Type D15	64.0	49.0	80.0	7.1	2.4	7.5
Type M (2—12 Pole)	122.0	95.0	155.0	20.0	9.0	22.0
Type M Latch Coil	36.5	18.5	41.0	13.0	11.0	17.0
Type MRD	—	168.0	—	—	13.2	13.2
Type MRD Ltc. Coil	—	21.6	—	—	21.6	—
Type R	—	6.0	6.0	—	6.0	6.0
Type RM—Set	—	—	—	—	3.5	3.5
Type RM—Release	—	—	—	—	3.1	3.1
Type TF	3.0	3.0	4.0	3.0	3.0	4.0
Type TH	4.0	4.0	5.0	4.0	4.0	5.0
TIMERS						
Type D80	60.0	67.0	90.0	18.0	6.0	19.0
Type D80 with Installed Contacts	89.0	95.0	130.0	20.0	7.0	21.0

References





Buck / Boost Transformers · Transformer Full Load Current

Buck-Boost Transformers are small single phase isolation transformers that will reduce (Buck) or raise (Boost) line voltage when connected as an Autotransformer. The most common application is Boosting 208 to 230V. Two or three may be banked for three phase application where the neutral is available from the input. Much smaller transformers may be used in Buck-Boost applications, since the size of the transformer is roughly proportional to the change in voltage. i.e.: A 10 kVA load at 240V can be increased to 264V, a 10% change can be achieved with a 1 kVA transformer.

VOLTAGE CHANGE TABLE

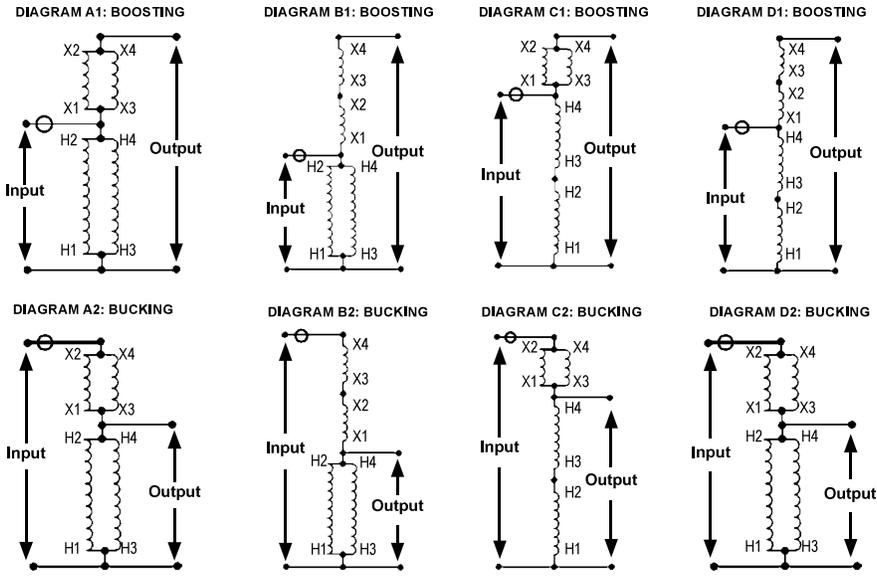
Rating	Reference Diagrams Below for Characteristics							
	A1	A2	B1	B2	C1	C2	D1	D2
120/240 x 12/24	1.10	0.90	1.20	0.80	1.05	0.95	1.10	0.90
120/240 x 16/32	1.13	0.87	1.27	0.77	1.07	0.93	1.13	0.87
240/480 x 24/48	1.10	0.90	1.20	0.80	1.05	0.95	1.10	0.90

Multiply Input Voltage by multiplier in Voltage Change Table for output voltage.

TRANSFORMER MULTIPLIER TABLE

Rating	Reference Diagrams Below for Characteristics							
	A1	A2	B1	B2	C1	C2	D1	D2
120/240 x 12/24	0.10	0.11	0.20	0.24	0.05	0.05	0.10	0.11
120/240 x 16/32	0.13	0.15	0.27	0.34	0.07	0.07	0.13	0.15
240/480 x 24/48	0.10	0.11	0.20	0.24	0.05	0.05	0.10	0.11

Multiply Load by multiplier in Transformer Multiplier Table for approximate transformer size.



TRANSFORMER FULL LOAD CURRENT TABLES

SINGLE PHASE

kVA Rating	120V	208V	240V	277V	480V	600V
0.050	0.42	0.24	0.21	0.18	0.10	0.08
0.100	0.83	0.48	0.42	0.36	0.21	0.17
0.150	1.25	0.72	0.63	0.54	0.31	0.25
0.250	2.08	1.20	1.04	0.90	0.52	0.42
0.500	4.17	2.40	2.18	1.81	1.04	0.83
0.750	6.25	3.61	3.13	2.71	1.56	1.25
1.00	8.33	4.81	4.17	3.61	2.08	1.67
1.50	12.50	7.21	6.25	5.42	3.13	2.50
2.00	16.67	9.62	8.33	7.22	4.17	3.33
3.00	25.00	14.42	12.50	10.3	6.25	5.00
5.00	41.67	24.04	20.83	18.05	10.42	8.33
7.50	62.50	36.06	31.25	27.08	15.63	12.50
10.0	83.33	48.08	41.67	36.10	20.83	16.67
15.0	125.00	72.12	62.50	54.15	31.25	25.00
25.0	208.33	120.19	104.17	90.25	52.08	41.67

THREE PHASE

kVA Rating	208V	240V	480V	600V
3.0	8.34	7.23	3.61	2.89
9.0	25.01	21.68	10.84	8.67
15.0	41.69	36.13	18.06	14.45
30.0	83.37	72.25	36.13	28.90
45.0	125.06	108.38	54.19	43.35
75.0	208.43	180.64	90.32	72.25
112.5	312.64	271.95	135.48	108.38

$$\text{Three Phase kVA} = \frac{\text{Volts} \times \text{Amps} \times 1.73}{1000}$$

$$\text{Single Phase kVA} = \frac{\text{Volts} \times \text{Amps}}{1000}$$

References



AMPACITIES OF INSULATED CONDUCTORS WITH NOT MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN RACEWAY, CABLE OR EARTH (DIRECTLY BURIED)

TABLE 310-16, 2020 N.E.C.

Wire Size	Copper			Aluminum		
	60°C	75°C	90°C	60°C	75°C	90°C
	TW, UF	THW, THWN, THHW, USE	THHN, TFFN	TW, UF	THW, THWN, THHW, USE	THHN, TFFN
18 AWG*	-	-	14	-	-	-
16 AWG*	-	-	18	-	-	-
14 AWG*	15	20	25	-	-	-
12 AWG*	20	25	30	15	20	25
10 AWG*	30	35	40	25	30	35
8 AWG	40	50	55	35	40	45
6 AWG	55	65	75	40	50	55
4 AWG	70	85	95	55	65	75
3 AWG	85	100	115	65	75	85
2 AWG	95	115	130	75	90	100
1 AWG	110	130	145	85	100	115
1/0 AWG	125	150	170	100	120	135
2/0 AWG	145	175	195	115	135	150
3/0 AWG	165	200	225	130	155	175
4/0 AWG	195	230	260	150	180	205
250 MCM	215	255	290	170	205	230
300 MCM	240	285	320	195	230	260
350 MCM	260	310	350	210	250	280
400 MCM	280	335	380	225	270	305
500 MCM	320	380	430	260	310	350
600 MCM	350	420	475	285	340	385
700 MCM	385	460	520	315	375	425
750 MCM	400	475	535	320	385	435

Section 310.15(B) shall be referenced for ampacity correction factors when the ambient temperature is other than 30°C (86°F).
 Section 310.15(C)(1) shall be referenced for more than three current-carrying conductors. (see below)
 Section 310.16 shall be referenced for conditions of use.
 *Section 240.4(D) shall be referenced for conductor overcurrent protection limitations, except as modified elsewhere in the Code.

ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS

TABLE 310-15(C)(1), 2020 N.E.C.

Number of Conductors in a Raceway	Percent of Total Value
4 – 6	80
7 – 9	70
10 – 20	50
21 – 30	45
31 – 40	40
41 or Above	35

AMBIENT TEMPERATURE CORRECTION FACTORS BASED ON 30°C (86°F)

TABLE 310-15(B)(1), 2020 N.E.C.

Ambient Temperature	Temperature Rating of Conductor		
	60°C	75°C	90°C
10 or less	1.29	1.20	1.15
11 – 15	1.22	1.15	1.12
16 – 20	1.15	1.11	1.08
21 – 25	1.08	1.05	1.04
26 – 30	1.00	1.00	1.00
31 – 35	0.91	0.94	0.96
36 – 40	0.82	0.88	0.91
41 – 45	0.71	0.82	0.87
46 – 50	0.58	0.75	0.82
51 – 55	0.41	0.67	0.76
56 – 60	—	0.58	0.71
61 – 65	—	0.47	0.65
66 – 70	—	0.33	0.58
71 – 75	—	—	0.50
76 – 80	—	—	0.41
81 – 85	—	—	0.29

VOLTAGE DROP TABLE

Voltage Drop = $\frac{\text{Factor} \times \text{Amps} \times \text{Feet}}{100}$		
Copper Conductor: 80% Power Factor		
Wire Size	Single Phase	Three Phase
14 AWG	0.4762	0.4167
12 AWG	0.3125	0.2632
10 AWG	0.1961	0.1677
8 AWG	0.1250	0.1087
6 AWG	0.0833	0.0714
4 AWG	0.0538	0.0463
3 AWG	0.0431	0.0379
2 AWG	0.0370	0.0323
1 AWG	0.0323	0.0278
1/0 AWG	0.0269	0.0231
2/0 AWG	0.0222	0.0196
3/0 AWG	0.0190	0.0163
4/0 AWG	0.0161	0.0139
250 MCM	0.0147	0.0128
300 MCM	0.0131	0.0114
350 MCM	0.0121	0.0106
400 MCM	0.0115	0.0091
500 MCM	0.0101	0.0088

SINGLE-PHASE DWELLING SERVICES AND FEEDERS

TABLE 310-12, 2020 N.E.C.

Copper (AWG)	Aluminum (AWG)	Service Amps
4	2	100
3	1	110
2	1/0	125
1	2/0	150
1/0	3/0	175
2/0	4/0	200

References



ELLIOTT ELECTRIC SUPPLY

L9

Conduit Fill Table

MAXIMUM NUMBER OF REGULAR CONDUCTORS IN EMT, IMC OR RMC

DATA EXTRACTED FROM TABLE C.1, TABLE C.4 AND TABLE C.9 IN 2020 N.E.C.

Conduit Trade Size in Inches	Wire Size (THWN, THHN)																				
	AWG												MCM								
	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500	600	700	750
1/2	EMT	12	9	5	3	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
	IMC	14	10	6	3	2	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
	GALV	13	9	6	3	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
3/4	EMT	22	16	10	6	4	2	1	1	1	1	1	1	1	-	-	-	-	-	-	-
	IMC	24	17	11	6	4	3	2	1	1	1	1	1	1	-	-	-	-	-	-	-
	GALV	22	16	10	6	4	2	1	1	1	1	1	1	1	-	-	-	-	-	-	-
1	EMT	35	26	16	9	7	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1
	IMC	39	29	18	10	7	4	4	3	2	1	1	1	1	1	1	1	1	1	1	1
	GALV	36	26	17	9	7	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1
1 1/4	EMT	61	45	28	16	12	7	6	5	4	3	2	1	1	1	1	1	1	1	1	1
	IMC	68	49	31	18	13	8	6	5	4	3	3	2	1	1	1	1	1	1	1	1
	GALV	63	46	29	16	12	7	6	5	4	3	2	1	1	1	1	1	1	1	1	1
1 1/2	EMT	84	61	38	22	16	10	8	7	5	4	3	3	2	1	1	1	1	1	1	1
	IMC	91	67	42	24	17	11	9	7	5	4	4	3	2	1	1	1	1	1	1	1
	GALV	85	62	39	22	16	10	8	7	5	4	3	3	2	1	1	1	1	1	1	1
2	EMT	138	101	63	36	26	16	13	11	8	7	6	5	4	3	3	2	1	1	1	1
	IMC	149	109	69	39	28	17	15	12	9	8	6	5	4	3	3	2	2	1	1	1
	GALV	140	102	64	37	27	16	14	11	8	7	6	5	4	3	3	2	2	1	1	1
2 1/2	EMT	241	176	111	64	46	28	24	20	15	12	10	8	7	6	5	4	4	3	2	2
	IMC	211	154	97	56	40	25	21	17	13	11	9	7	6	5	4	4	3	3	2	1
	GALV	200	146	92	53	38	23	20	17	12	10	8	7	6	5	4	3	3	2	1	1
3	EMT	364	266	167	96	69	43	36	30	22	19	16	13	11	9	7	6	6	5	4	3
	IMC	326	238	150	86	62	38	32	27	20	17	14	12	9	8	7	6	5	4	3	3
	GALV	309	225	142	82	59	36	31	26	19	16	13	11	9	7	6	5	5	4	3	3
3 1/2	EMT	476	347	219	126	91	56	47	40	29	25	20	17	14	11	10	9	8	6	5	4
	IMC	436	318	200	115	83	51	43	36	27	23	19	16	13	10	9	8	7	6	5	4
	GALV	412	301	189	109	79	48	41	34	25	21	18	15	12	10	8	7	7	5	4	4
4	EMT	608	443	279	161	116	71	60	51	37	32	26	22	18	15	13	11	10	8	7	6
	IMC	562	410	258	149	107	66	56	47	35	29	24	20	17	13	12	10	9	7	6	5
	GALV	531	387	244	140	101	62	53	44	33	27	23	19	16	13	11	10	8	7	6	5

Please refer to the 2020 N.E.C. for more information of the following conduit fill tables. Table C.2 for ENT, Table C.3 for FMC, Table C.5 for LFNC-A, Table C.6 for LFNC-B, Table C.7 for LFNC-C, Table C.8 for LFMC, Table C.10 for Rigid PVC Schedule 80, Table C.11 for Rigid PVC Schedule 40, Table C.12 for Type A PVC, and Table C.13 for Type EB PVC.

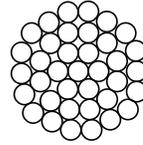
References



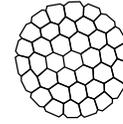


Conduit Fill Table for Compact Conductors

Compact Stranding
 A stranding configuration with concentric strands in which each layer is passed through a compacting die to reduce the conductor diameter by approximately 10%



Regular Conductor



Compacted Conductor

Compact Stranding is typical of Aluminum Conductors which allows more conductors in the same size conduit.

MAXIMUM NUMBER OF COMPACTED CONDUCTORS IN EMT, IMC OR RMC

DATA EXTRACTED FROM TABLE C.1(A), TABLE C.4(A) AND TABLE C.9(A) IN 2020 N.E.C.

Conduit Trade Size in Inches		Wire Size (Aluminum XHHW, THHN)															
		AWG								MCM							
		8	6	4	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500	600	700
1/2	EMT	-	2	1	1	1	1	1	-	-	-	-	-	-	-	-	-
	IMC	-	3	1	1	1	1	1	-	-	-	-	-	-	-	-	-
	GALV	-	2	1	1	1	1	1	-	-	-	-	-	-	-	-	-
3/4	EMT	-	4	3	1	1	1	1	1	1	1	1	1	-	-	-	-
	IMC	-	5	3	1	1	1	1	1	1	1	1	1	-	-	-	-
	GALV	-	5	3	1	1	1	1	1	1	1	1	1	-	-	-	-
1	EMT	-	7	4	3	2	1	1	1	1	1	1	1	1	-	-	-
	IMC	-	8	5	3	3	2	1	1	1	1	1	1	1	1	-	-
	GALV	-	8	5	3	2	1	1	1	1	1	1	1	1	-	-	-
1 1/4	EMT	-	13	8	6	4	3	3	2	1	1	1	1	1	1	1	1
	IMC	-	14	9	6	5	4	3	3	2	1	1	1	1	1	1	1
	GALV	-	13	8	6	4	4	3	2	1	1	1	1	1	1	1	1
1 1/2	EMT	-	18	11	8	6	5	4	3	3	1	1	1	1	1	1	1
	IMC	-	19	12	8	6	5	4	4	3	2	1	1	1	1	1	1
	GALV	-	18	11	8	6	5	4	3	3	2	1	1	1	1	1	1
2	EMT	-	29	18	13	10	8	7	6	5	4	3	3	2	1	1	1
	IMC	-	32	20	14	10	9	7	6	5	4	3	3	2	2	1	1
	GALV	-	30	18	13	10	8	7	6	5	4	3	3	2	1	1	1
2 1/2	EMT	-	52	32	23	17	14	12	10	8	6	5	5	4	4	3	2
	IMC	-	45	28	20	15	13	10	9	7	6	5	4	4	3	2	2
	GALV	-	43	26	19	14	12	10	8	7	5	4	4	3	3	2	1
3	EMT	-	78	48	34	26	22	18	15	12	10	8	7	6	5	4	4
	IMC	-	70	43	31	23	20	16	14	11	9	7	7	6	5	4	3
	GALV	-	66	41	29	22	19	15	13	10	8	7	6	5	5	4	3
3 1/2	EMT	-	102	63	45	34	29	24	20	16	13	11	10	9	7	6	5
	IMC	-	93	58	41	31	26	22	18	15	12	10	9	8	7	5	4
	GALV	-	88	55	39	29	25	21	17	14	11	10	8	7	6	5	4
4	EMT	-	130	81	58	43	37	30	25	21	16	14	12	11	9	7	6
	IMC	-	120	74	53	40	34	28	24	19	15	13	11	10	9	7	6
	GALV	-	114	70	50	38	32	26	22	18	14	12	11	10	8	6	5

Please refer to the 2020 N.E.C. for more information of the following compacted conductor conduit fill tables. Table C.2(A) for ENT, Table C.3(A) for FMC, Table C.5(A) for LFNC-A, Table C.6(A) for LFNC-B, Table C.7(A) for LFNC-C, Table C.8(A) for LFMC, Table C.10(A) for Rigid PVC Schedule 80, Table C.11(A) for Rigid PVC Schedule 40, Table C.12(A) for Type A PVC, and Table C.13(A) for Type EB PVC.

References



TEMPERATURE CONVERSION TABLE

°C	°F	°C	°F	°C	°F	°C	°F
0	32.0	*F = (9/5 x °C) + 32		*C = 5/9 x (°F - 32)		*K = °C + 273.15	
1	33.8	26	78.8	51	123.8	76	168.8
2	35.6	27	80.6	52	125.6	77	170.6
3	37.4	28	82.4	53	127.4	78	172.4
4	39.2	29	84.2	54	129.2	79	174.2
5	41.0	30	86.0	55	131.0	80	176.0
6	42.8	31	87.8	56	132.8	81	177.8
7	44.6	32	89.6	57	134.6	82	179.6
8	46.4	33	91.4	58	136.4	83	181.4
9	48.2	34	93.2	59	138.2	84	183.2
10	50.0	35	95.0	60	140.0	85	185.0
11	51.8	36	96.8	61	141.8	86	186.8
12	53.6	37	98.6	62	143.6	87	188.6
13	55.4	38	100.4	63	145.4	88	190.4
14	57.2	39	102.2	64	147.2	89	192.2
15	59.0	40	104.0	65	149.0	90	194.0
16	60.8	41	105.8	66	150.8	91	195.8
17	62.6	42	107.6	67	152.6	92	197.6
18	64.4	43	109.4	68	154.4	93	199.4
19	66.2	44	111.2	69	156.2	94	201.2
20	68.0	45	113.0	70	158.0	95	203.0
21	69.8	46	114.8	71	159.8	96	204.8
22	71.6	47	116.6	72	161.6	97	206.6
23	73.4	48	118.4	73	163.4	98	208.4
24	75.2	49	120.2	74	165.2	99	210.2
25	77.0	50	122.0	75	167.0	100	212.0

FULL LOAD CURRENT IN AMPERES SINGLE-PHASE, ALTERNATING-CURRENT MOTORS

TABLE 430.248, 2020 N.E.C.

Horsepower (HP)	115V	200V	208V	230V
1/6	4.4	2.5	2.4	2.2
1/4	5.8	3.3	3.2	2.9
1/3	7.2	4.1	4.0	3.6
1/2	9.8	5.6	5.4	4.9
3/4	13.8	7.9	7.6	6.9
1	16.0	9.2	8.8	8.0
1-1/2	20.0	11.5	11.0	10.0
2	24.0	13.8	13.2	12.0
3	34.0	19.6	18.7	17.0
5	56.0	32.2	30.8	28.0
7-1/2	80.0	46.0	44.0	40.0
10	100.0	57.5	55.0	50.0

The voltages listed are rated motor voltages. The listed currents are for system voltage ranges of 110 to 120 and 220 to 240.

FULL LOAD CURRENT IN AMPERES, DIRECT-CURRENT MOTORS

TABLE 430.247, 2020 N.E.C.

HP	90V	120V	180V	240V	500V	550V
1/4	4.0	3.1	2.0	1.6	-	-
1/3	5.2	4.1	2.6	2.0	-	-
1/2	6.8	5.4	3.4	2.7	-	-
3/4	9.6	7.6	4.8	3.8	-	-
1	12.2	9.5	6.1	4.7	-	-
1-1/2	-	13.2	8.3	6.6	-	-
2	-	17.0	10.8	8.5	-	-
3	-	25.0	16.0	12.2	-	-
5	-	40.0	27.0	20.0	-	-
7-1/2	-	58.0	-	29.0	13.6	12.2
10	-	76.0	-	38.0	18.0	16.0
15	-	-	-	55.0	27.0	24.0
20	-	-	-	72.0	34.0	31.0
25	-	-	-	89.0	43.0	38.0
30	-	-	-	106.0	51.0	46.0
40	-	-	-	140.0	67.0	61.0
50	-	-	-	173.0	83.0	75.0
60	-	-	-	206.0	99.0	90.0
75	-	-	-	255.0	123.0	111.0
100	-	-	-	341.0	164.0	148.0
125	-	-	-	425.0	205.0	185.0
150	-	-	-	506.0	246.0	222.0
200	-	-	-	675.0	330.0	294.0

ELECTRICAL FORMULAS FOR CALCULATING AMPERES, HORSEPOWER, KILOWATTS AND KVA

Use to find:	Direct Current	Alternating Current	
		Single Phase	Three Phase
Amperes when HP is known	$\frac{HP \times 746}{E \times \%EFF}$	$\frac{HP \times 746}{E \times \%EFF \times PF}$	$\frac{HP \times 746}{E \times \%EFF \times PF \times \sqrt{3}}$
Amperes when kW is known	$\frac{kW \times 1000}{E}$	$\frac{kW \times 1000}{E \times PF}$	$\frac{kW \times 1000}{E \times PF \times \sqrt{3}}$
Amperes when kVA is known		$\frac{kVA \times 1000}{E}$	$\frac{kVA \times 1000}{E \times \sqrt{3}}$
Horsepower (HP)	$\frac{E \times I \times \%EFF}{746}$	$\frac{E \times I \times \%EFF \times PF}{746}$	$\frac{E \times I \times \%EFF \times PF \times \sqrt{3}}{746}$
Kilowatts (kW)	$\frac{E \times I}{1000}$	$\frac{E \times I \times PF}{1000}$	$\frac{E \times I \times PF \times \sqrt{3}}{1000}$
Kilovolt-Amperes (kVA)		$\frac{E \times I}{1000}$	$\frac{E \times I \times \sqrt{3}}{1000}$

E = Voltage; %EFF = Percent Efficiency; PF = Power Factor of Motor; I = Amps

OHM'S LAW

A. When Volts and OHMS are known:

Amperes = Volts / OHMS, or $I = E / R$

Example: Find the current of a 120 volt circuit with a resistance of 60 OHMS.

$I = E / R = 120 / 60 = 2 \text{ Amperes}$

B. When Watts and Volts are known:

Amperes = Watts / Volts, or $I = P / E$

Example: A 120 Volt Circuit has a 1440 Watt Load. Determine the current.

$I = P / E = 1440 / 120 = 12 \text{ Amperes}$

C. When OHMS and Watts are known:

Amperes = $\sqrt{\text{Watts} / \text{OHMS}}$, or $I = \sqrt{P / R}$

Example: A circuit consumes 625 watts through a 12.75 OHM resistor. Determine the current.

$I = \sqrt{P / R} = \sqrt{625 / 12.75} = \sqrt{49} = 7 \text{ Amperes}$

Notes:

A. One electrical horsepower (HP) = 746 watts. Electric motors are rated in horsepower in the US (kW is used by many other countries).

B. One kilowatt (kW) = 1000 watts. Generators are rated in kilowatts.



FLA Three Phase Motors · FLA Transformers · Enclosure Heat Dissipation

APPROXIMATE FULL LOAD CURRENT IN AMPERES, THREE-PHASE MOTORS

Horsepower (HP)	Volts	Motor R.P.M.			
		@3800	@1800	@1200	@900
1/2	230	-	1.72	2.15	2.38
	460	-	0.86	1.08	1.19
3/4	230	-	2.46	2.93	3.26
	460	-	1.23	1.46	1.63
1	230	2.80	3.56	3.76	4.30
	460	1.40	1.78	1.88	2.15
1-1/2	230	4.36	4.86	5.28	5.60
	460	2.18	2.43	2.64	2.80
2	230	5.60	6.40	6.84	7.90
	460	2.80	3.20	3.42	3.95
3	230	8.34	9.40	10.20	11.40
	460	4.17	4.70	5.12	5.70
5	230	13.50	14.40	15.80	15.90
	460	6.76	7.21	7.91	7.92
7-1/2	230	19.50	21.50	21.80	23.00
	460	9.79	10.70	10.90	11.50
10	230	25.40	26.80	28.00	30.50
	460	12.70	13.40	14.00	15.20
15	230	36.40	39.20	41.40	44.50
	460	18.20	19.60	20.70	22.20
20	230	50.40	51.20	52.80	54.90
	460	25.20	25.60	26.40	27.40
25	230	60.80	64.80	65.60	67.30
	460	30.40	32.40	32.80	33.70
30	230	73.70	75.60	78.80	81.80
	460	36.80	37.80	39.40	40.90
40	230	96.40	101.00	102.00	105.00
	460	48.20	50.50	50.60	52.50
50	230	120.00	124.00	126.00	130.00
	460	60.00	62.00	63.00	65.00
60	230	143.00	149.00	150.00	154.00
	460	71.50	74.50	75.00	77.00
75	230	179.00	183.00	184.00	193.00
	460	89.60	91.50	92.00	96.50
100	230	231.00	236.00	239.00	252.00
	460	115.00	118.00	120.00	126.00
125	230	292.00	293.00	298.00	305.00
	460	146.00	147.00	149.00	153.00
150	230	343.00	348.00	350.00	365.00
	460	171.00	174.00	175.00	183.00
200	230	458.00	452.00	460.00	482.00
	460	229.00	226.00	230.00	241.00

FULL LOAD CURRENT AND OTHER DATA, THREE-PHASE, ALTERNATING-CURRENT MOTORS

Motor HP	Volts	Motor Amps	Size Breaker	NEMA Size Starter	Heater Amps	Size Wire AWG	Size Conduit
1	230	4.2	15	00	4.830	12	3/4"
	460	2.1	15	00	2.415	12	3/4"
1-1/2	230	6.0	15	00	6.900	12	3/4"
	460	3.0	15	00	3.450	12	3/4"
2	230	6.8	15	0	7.820	12	3/4"
	460	3.4	15	00	3.910	12	3/4"
3	230	9.6	15	0	11.040	12	3/4"
	460	4.8	15	0	5.520	12	3/4"
5	230	15.2	15	1	17.480	12	3/4"
	460	7.6	15	0	8.740	12	3/4"
7-1/2	230	22.0	40	1	25.300	10	3/4"
	460	11.0	30	1	12.650	12	3/4"
10	230	28.0	50	2	32.200	10	3/4"
	460	14.0	30	1	16.100	12	3/4"
15	230	42.0	70	2	48.300	6	1"
	460	21.0	40	2	24.150	10	3/4"
20	230	54.0	100	3	62.100	6	1"
	460	27.0	50	2	31.050	10	3/4"
25	230	68.0	100	3	78.200	4	1-1/2"
	460	34.0	50	2	39.100	8	1"

- 1) Overcurrent device may have to be increased due to starting current and load conditions. See NEC Table 430-52. Wire based on 75°C terminations and insulation.
- 2) Overload heater must be based on motor nameplate and sized per NEC 430-32.
- 3) Conduit size based on rigid metal conduit with some spare capacity. For minimum size & other conduit types, see NEC Appendix C.

FULL LOAD CURRENT IN AMPERES, SINGLE-PHASE, TRANSFORMER

$$F.L.A. = \frac{kVA \times 1000}{Volts}$$

FULL LOAD CURRENT IN AMPERES, THREE-PHASE, TRANSFORMER

kVA	208V	240V	480V	kVA	208V	240V	480V
3	8.3	7.2	3.6	45	124	108	54
4	12.5	10.8	5.4	75	208	180	90
6	16.6	14.4	7.2	112	312	270	135
9	25.0	21.6	10.8	150	416	360	180
15	41.0	36.0	18.0	225	624	541	270
22	62.0	54.0	27.0	300	832	721	360
30	83.0	72.0	36.0	500	1389	1202	601

References

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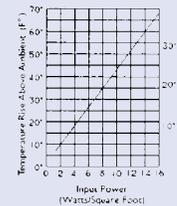
HEAT DISSIPATION IN ELECTRICAL ENCLOSURES

Selection Procedure:

1. Determine input power in watts per square feet by dividing the heat dissipated in the enclosure (in watts) by the enclosure surface area (in square feet).
2. Locate on the graph the appropriate input power on the horizontal axis and draw a line vertically until it intersects the temperature rise curve.
3. Read horizontally to determine the enclosure temperature rise.

Example: What is the temperature rise that can be expected from a 48" x 36" x 16" enclosure with 300 watts of heat dissipated within it?

*Solution: Surface Area = 2[(48x36) + (48x16) + (36x16)] divided by 144 sq.ft.
 Input Power = 300 / 42 = 7.1 Watts/SqFt.
 From Curve: Temp. Rise = 30°F (16.7°C)*



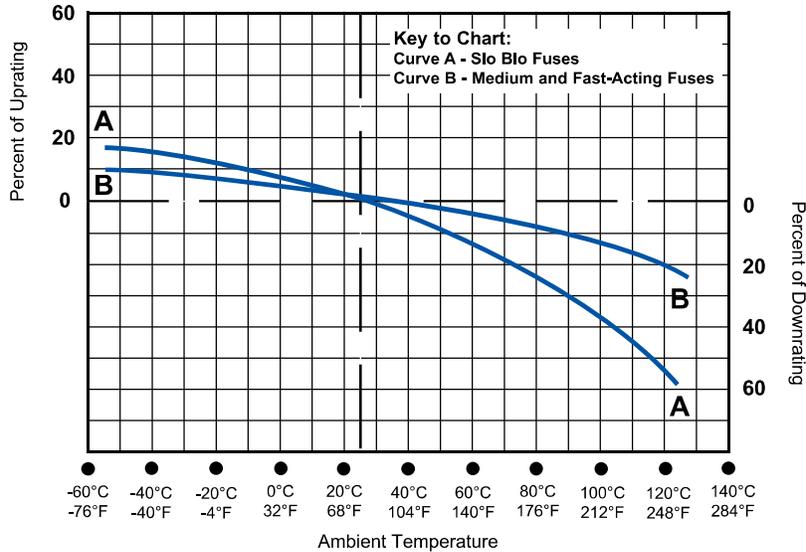


Relay Cross Reference Guide · Ambient Temperature Derating Curve for Fuses

RELAY CROSS REFERENCE GUIDE

Eaton	Rockwell Automation (Allen-Bradley)	Cyberdyn	Magnecraft (Struthers Dunn)	Omron	Tyco (Potter & Brumfield)	Square D	Tyco (Schrack)	Idec
D3PR2, D5PR2, D5PR3	700-HA32, 700-HAB2, 700-HAX2	N/A	750XBX, A314XBX, W250ACPX	MK2P	KRP(A)-11	8501KP12	MT2	RR2P
D3PR3	700-HA33, 700-HAB3, 700-HAX3	N/A	750XCX, A314XCX, W250CPX	MK3P	KRP(A)-14	8501KP13	MT3	RR3PA
D2PR4	700-HC14, 700-HC24	HJQ-22F	782XDX1, 782XDX2, W78(A)CSX	N/A	KHAU-17	8501RS(D)14, 8501RS(D)4	PT4	RU4S
D7PR2	700-HF32	N/A	782XBX, W78(A)R	N/A	K10	8501RS(D)42	N/A	RH2B
D7PR3	700-HF33	N/A	783XCX, 78XCX	N/A	N/A	8501RS(D)43	N/A	RH3B
D7PR4	700-HF34	N/A	784XDX, 78XDX	N/A	N/A	8501RS(D)44	N/A	RH4B
D2PR2	N/A	N/A	782XBX1, 782XBX2	N/A	KHUA-11	N/A	PT2	RU2S
D2PR5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RY2LS
D3PR5	N/A	N/A	N/A	MRL	N/A	N/A	N/A	RR2KP

AMBIENT TEMPERATURE DERATING CURVE FOR FUSES



The current capacity of fuses is 110% of rating when installed in a standard UL test circuit and tested in open air at 25°C ambient. This allows for derating to 100% of rating in an enclosure at 40°C ambient. At higher ambient temperatures, continuous current-carrying capacity will be decreased as shown in the chart above. This closely follows the derating tables for all electrical equipment, and reduces equipment burnout due to high ambient conditions.

References





Motor Protection Tables – Fuse Selection based on Motor FLA

Using AC Motor Protection Tables to Select Fuse Ratings

Fuse ratings selected in accordance with the following recommendations also meet NEC requirements for Motor Branch Circuit and Short Circuit Protection.

Selecting Fuses for Motor Running Protection Based on Motor Actual Full Load Currents

Better protection is achieved when fuse ratings are based on motor actual FLA as obtained from motor nameplates. Locate motor nameplate FLA in the column appropriate for the type motor and type of protection required. Read to the left and obtain the recommended fuse ampere rating.

DUAL ELEMENT FUSES (FUSETRON)

Fuse Ampere Rating	Motor Full Load Amps (FLA)			
	Without Overload Relays		With Overload Relays	
	S.F. ≥ 1.15 or with Rise ≤ 40°C	S.F. < 1.15 or with Rise > 40°C	S.F. ≥ 1.15 or with Rise ≤ 40°C	S.F. < 1.15 or with Rise > 40°C
1/10	0.08 – 0.09	0.09 – 0.10	0.00 – 0.08	0.00 – 0.09
1/8	0.10 – 0.11	0.11 – 0.125	0.09 – 0.10	0.10 – 0.11
15/100	0.12 – 0.15	0.14 – 0.15	0.11 – 0.12	0.12 – 0.13
2/10	0.16 – 0.19	0.18 – 0.20	0.13 – 0.16	0.14 – 0.17
1/4	0.20 – 0.23	0.22 – 0.25	0.17 – 0.20	0.18 – 0.22
3/10	0.24 – 0.30	0.27 – 0.30	0.21 – 0.24	0.23 – 0.26
4/10	0.32 – 0.39	0.35 – 0.40	0.25 – 0.32	0.27 – 0.35
1/2	0.40 – 0.47	0.44 – 0.50	0.33 – 0.40	0.36 – 0.43
6/10	0.48 – 0.60	0.53 – 0.60	0.41 – 0.48	0.44 – 0.52
8/10	0.64 – 0.79	0.70 – 0.80	0.49 – 0.64	0.53 – 0.70
1	0.80 – 0.89	0.87 – 0.97	0.65 – 0.80	0.71 – 0.87
1-1/8	0.90 – 0.99	0.98 – 1.08	0.81 – 0.90	0.88 – 0.98
1-1/4	1.00 – 1.11	1.09 – 1.21	0.91 – 1.00	0.99 – 1.09
1-4/10	1.12 – 1.19	1.22 – 1.30	1.01 – 1.12	1.10 – 1.22
1-1/2	1.20 – 1.27	1.31 – 1.39	1.13 – 1.20	1.23 – 1.30
1-6/10	1.28 – 1.43	1.40 – 1.56	1.21 – 1.28	1.31 – 1.39
1-8/10	1.44 – 1.59	1.57 – 1.73	1.29 – 1.44	1.40 – 1.57
2	1.60 – 1.79	1.74 – 1.95	1.45 – 1.60	1.58 – 1.74
2-1/4	1.80 – 1.99	1.96 – 2.17	1.61 – 1.80	1.75 – 1.96
2-1/2	2.00 – 2.23	2.18 – 2.43	1.81 – 2.00	1.97 – 2.17
2-8/10	2.24 – 2.39	2.44 – 2.60	2.01 – 2.24	2.18 – 2.43
3	2.40 – 2.55	2.61 – 2.78	2.25 – 2.40	2.44 – 2.60
3-2/10	2.56 – 2.79	2.79 – 3.04	2.41 – 2.56	2.61 – 2.78
3-1/2	2.80 – 3.19	3.05 – 3.47	2.57 – 2.80	2.79 – 3.04
4	3.20 – 3.59	3.48 – 3.91	2.81 – 3.20	3.05 – 3.48
4-1/2	3.60 – 3.99	3.92 – 4.34	3.21 – 3.60	3.49 – 3.91
5	4.00 – 4.47	4.35 – 4.86	3.61 – 4.00	3.92 – 4.35
5-6/10	4.48 – 4.79	4.87 – 5.21	4.01 – 4.48	4.36 – 4.87
6	4.80 – 4.99	5.22 – 5.43	4.49 – 4.80	4.88 – 5.22
6-1/4	5.00 – 5.59	5.44 – 6.08	4.81 – 5.00	5.23 – 5.43
7	5.60 – 5.99	6.09 – 6.52	5.01 – 5.60	5.44 – 6.09
7-1/2	6.00 – 6.39	6.53 – 6.95	5.61 – 6.00	6.10 – 6.52
8	6.40 – 7.19	6.96 – 7.82	6.01 – 6.40	6.53 – 6.96
9	7.20 – 7.99	7.83 – 8.69	6.41 – 7.20	6.97 – 7.83
10	8.00 – 9.59	8.70 – 10.00	7.21 – 8.00	7.84 – 8.70

Fuse Ampere Rating	Motor Full Load Amps (FLA)			
	Without Overload Relays		With Overload Relays	
	S.F. ≥ 1.15 or with Rise ≤ 40°C	S.F. < 1.15 or with Rise > 40°C	S.F. ≥ 1.15 or with Rise ≤ 40°C	S.F. < 1.15 or with Rise > 40°C
12	9.60 – 11.99	10.44 – 12.00	8.01 – 9.60	8.71 – 10.43
15	12.00 – 13.99	13.05 – 15.00	9.61 – 12.00	10.44 – 13.04
17-1/2	14.00 – 15.99	15.22 – 17.39	12.01 – 14.00	13.05 – 15.21
20	16.00 – 19.99	17.40 – 20.00	14.01 – 16.00	15.22 – 17.39
25	20.00 – 23.99	21.74 – 25.00	16.01 – 20.00	17.40 – 21.74
30	24.00 – 27.99	26.09 – 30.00	20.01 – 24.00	21.75 – 26.09
35	28.00 – 31.99	30.44 – 34.78	24.01 – 28.00	26.10 – 30.43
40	32.00 – 35.99	34.79 – 39.12	28.01 – 32.00	30.44 – 37.78
45	36.00 – 39.99	39.13 – 43.47	32.01 – 36.00	37.79 – 39.13
50	40.00 – 47.99	43.48 – 50.00	36.01 – 40.00	39.14 – 43.48
60	48.00 – 55.99	52.17 – 60.00	40.01 – 48.00	43.49 – 52.17
70	56.00 – 59.99	60.87 – 65.21	48.01 – 56.00	52.18 – 60.87
75	60.00 – 63.99	65.22 – 69.56	56.01 – 60.00	60.88 – 65.22
80	64.00 – 71.99	69.57 – 78.25	60.01 – 64.00	65.23 – 69.57
90	72.00 – 79.99	78.26 – 86.95	64.01 – 72.00	69.58 – 78.26
100	80.00 – 87.99	86.96 – 95.64	72.01 – 80.00	78.27 – 86.96
110	88.00 – 99.99	95.65 – 108.69	80.01 – 88.00	86.97 – 95.65
125	100.00 – 119.99	108.70 – 125.00	88.01 – 100.00	95.66 – 108.70
150	120.00 – 139.99	131.30 – 150.00	100.01 – 120.00	108.71 – 130.43
175	140.00 – 159.99	152.17 – 173.90	120.01 – 140.00	130.44 – 152.17
200	160.00 – 179.99	173.91 – 195.64	140.01 – 160.00	152.18 – 173.91
225	180.00 – 199.99	195.65 – 217.38	160.01 – 180.00	173.92 – 195.62
250	200.00 – 239.99	217.39 – 250.00	180.01 – 200.00	195.63 – 217.39
300	240.00 – 279.99	260.87 – 300.00	200.01 – 240.00	217.40 – 260.87
350	280.00 – 319.99	304.35 – 347.82	240.01 – 280.00	260.88 – 304.35
400	320.00 – 359.99	347.83 – 391.29	280.01 – 320.00	304.36 – 347.83
450	360.00 – 399.99	391.30 – 434.77	320.01 – 360.00	347.84 – 391.30
500	400.00 – 479.99	434.78 – 500.00	360.01 – 400.00	391.31 – 434.78
600	480.00 – 600.00	521.74 – 600.00	400.01 – 480.00	434.79 – 521.74

References





Motor Protection Tables – Fuse Selection based on Motor HP

Table with columns: Motor HP, Full Load Amps, Horsepower (HP) Without Overload Relays, Horsepower (HP) With Overload Relays, Switch or Fuse Clip Rating. Sub-sections include 120V, 230V, 200V, and 230V 3-phase circuits.

Table with columns: Motor HP, Full Load Amps, Horsepower (HP) Without Overload Relays, Horsepower (HP) With Overload Relays, Switch or Fuse Clip Rating. Sub-sections include 460V and 575V 3-phase circuits.

*Fuse reducers required
**100 Amp switch required
S.F. = Motor Service Factor

SELECTING FUSES FOR MOTOR RUNNING PROTECTION BASED ON MOTOR HORSEPOWER

Motor horsepower and motor full load amperes (FLA) shown are taken from NEC Tables 430.248 and 430.250 covering standard speed AC motors with normal torque characteristics.

If motor running protection will be provided by the fuses, select fuse ratings for corresponding motor type from the table's columns headed "Without Overload Relays."

If overload relays will provide principle motor running protection, select fuse ratings for corresponding motor type from the table's columns headed "With Overload Relays."

References



Voltage	Type	15 Amperes		20 Amperes		30 Amperes		50 Amperes		60 Amperes	
		Receptacle	Plug	Receptacle	Plug	Receptacle	Plug	Receptacle	Plug	Receptacle	Plug
2 POLE, 3 WIRE, GROUNDED											
125V	5	5-15R	5-15P	5-20R	5-20P	5-30R	5-30P				
	TT					TT-30R	TT-30P				
250V	6	6-15R	6-15P	6-20R	6-20P	6-30R	6-30P	6-50R	6-50P		
277V AC	7			7-20R	7-20P						
3 POLE, 3 WIRE, UNGROUNDED											
125 / 250V	10			10-20R	10-20P	10-30R	10-30P	10-50R	10-50P		
3 POLE, 4 WIRE, GROUNDED											
125 / 250V	14			14-20R	14-20P	14-30R	14-30P	14-50R	14-50P		
3Ø 250V	15					15-30R	15-30P	15-50R	15-50P	15-60R	15-60P
4 POLE, 4 WIRE, UNGROUNDED											
3ØY 120 / 208V	18			18-20R	18-20P					18-60R	18-60P

References



ELLIOTT ELECTRIC SUPPLY

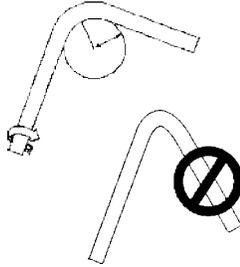
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NEMA Turnlok® Device Configurations

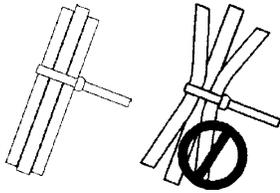
Voltage	Type	15 Amperes		20 Amperes		30 Amperes	
		Receptacle	Plug	Receptacle	Plug	Receptacle	Plug
2 POLE, 3 WIRE, GROUNDED							
125V	L5	L5-15R L515-R L515-C L515-FO 	L5-15P L515-P L515-FI 	L5-20R L520-R L520-C L520-FO 	L5-20P L520-P L520-FI 	L5-30R L530-R L530-C L530-FO 	L5-30P L530-P L530-FI
250V	L6	L6-15R L615-R L615-C L615-FO 	L6-15P L615-P L615-FI 	L6-20R L620-R L620-C L620-FO 	L6-20P L620-P L620-FI 	L6-30R L630-R L630-C L630-FO 	L6-30P L630-P L630-FI
277V AC	L7	L7-15R L715-R L715-C L715-FO 	L7-15P L715-P L715-FI 	L7-20R L720-R L720-C L720-FO 	L7-20P L720-P L720-FI 	L7-30R L730-R L730-C L730-FO 	L7-30P L730-P L730-FI
480V AC	L8	Receptacle Legend R = Receptacle C = Corded Female FO = Flanged Outlet	Plug Legend P = Plug FI = Flanged Inlet	L8-20R L820-R L820-C L820-FO 	L8-20P L820-P L820-FI 	L8-30R L830-R L830-C L830-FO 	L8-30P L830-P L830-FI
600V AC	L9			L9-20R L920-R L920-C L920-FO 	L9-20P L920-P L920-FI 	L9-30R L930-R L930-C L930-FO 	L9-30P L930-P L930-FI
3 POLE, 3 WIRE, UNGROUNDED							
125 / 250V	L10			L10-20R L1020-R L1020-C L1020-FO 	L10-20P L1020-P L1020-FI 	L10-30R L1030-R L1030-C L1030-FO 	L10-30P L1030-P L1030-FI
3Ø 250V	L11			L11-20R L1120-R L1120-C L1120-FO 	L11-20P L1120-P L1120-FI 	L11-30R L1130-R L1130-C L1130-FO 	L11-30P L1130-P L1130-FI
3Ø 480V	L12			L12-20R L1220-R L1220-C L1220-FO 	L12-20P L1220-P L1220-FI 	L12-30R L1230-R L1230-C L1230-FO 	L12-30P L1230-P L1230-FI
3Ø 600V	L13					L13-30R L1330-R L1330-C L1330-FO 	L13-30P L1330-P L1330-FI
3 POLE, 4 WIRE, GROUNDED							
125 / 250V	L14			L14-20R L1420-R L1420-C L1420-FO 	L14-20P L1420-P L1420-FI 	L14-30R L1430-R L1430-C L1430-FO 	L14-30P L1430-P L1430-FI
3Ø 250V	L15			L15-20R L1520-R L1520-C L1520-FO 	L15-20P L1520-P L1520-FI 	L15-30R L1530-R L1530-C L1530-FO 	L15-30P L1530-P L1530-FI
3Ø 480V	L16			L16-20R L1620-R L1620-C L1620-FO 	L16-20P L1620-P L1620-FI 	L16-30R L1630-R L1630-C L1630-FO 	L16-30P L1630-P L1630-FI
4 POLE, 4 WIRE, UNGROUNDED							
3ØY 120 / 208V	L18			L18-20R L1820-R L1820-C L1820-FO 	L18-20P L1820-P L1820-FI 	L18-30R L1830-R L1830-C L1830-FO 	L18-30P L1830-P L1830-FI
3ØY 277 / 480V	L19			L19-20R L1920-R L1920-C L1920-FO 	L19-20P L1920-P L1920-FI 	L19-30R L1930-R L1930-C L1930-FO 	L19-30P L1930-P L1930-FI
3ØY 347 / 600V	L20			L20-20R L2020-R L2020-C L2020-FO 	L20-20P L2020-P L2020-FI 	L20-30R L2030-R L2030-C L2030-FO 	L20-30P L2030-P L2030-FI
4 POLE, 5 WIRE, GROUNDED							
3ØY 120 / 208V	L21			L21-20R L2120-R L2120-C L2120-FO 	L21-20P L2120-P L2120-FI 	L21-30R L2130-R L2130-C L2130-FO 	L21-30P L2130-P L2130-FI
3ØY 277 / 480V	L22			L22-20R L2220-R L2220-C L2220-FO 	L22-20P L2220-P L2220-FI 	L22-30R L2230-R L2230-C L2230-FO 	L22-30P L2230-P L2230-FI
3ØY 347 / 600V	L23			L23-20R L2320-R L2320-C L2320-FO 	L23-20P L2320-P L2320-FI 	L23-30R L2330-R L2330-C L2330-FO 	L23-30P L2330-P L2330-FI

References

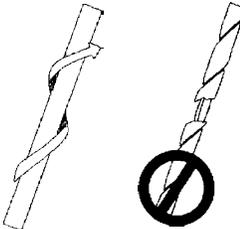


BENDING CATEGORY CABLES

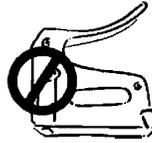
Maintain a maximum bend radius of 4 times the cable diameter (4-pair cables). Never exceed a 90 degree bend! Exceeding a 90 degree bend causes disruption in conductor and cable integrity.

CABLE TIES

Apply cable ties loosely and at random intervals. Don't overtighten cable ties, as pinching or crushing will result in attenuation or impedance.

TWISTING CABLES

Try to minimize the amount of jacket twisting. If the cable is over-twisted, it can lead to torn jackets.

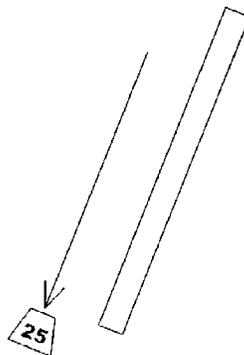
STAPLE GUNS

DO NOT use staple guns to position cables.

CABLE TERMINATION

Make sure twisted pair cable maintains its pair twisting to within 1/2" or less of the point of termination on the connecting hardware.

Any untwisting of pairs greater than this will adversely affect the performance of the cable and reduce its ability to transmit at effective speed.

CABLE RUNS

Try to plan out your installation so that you do not run cable further than 90 meters (295').

Never run data cables in the same conduit as electrical wiring.

Home run cable wherever possible to maximize data transmission.

Category 5 Patch cables... ANSI/TIA/EIA 568A allows for a maximum patch cable length of 6m (20') in the wiring closet and 3m (10') at the workstation outlet. If either of these lengths is exceeded, your horizontal cable run must be reduced by the excess amount.

When pulling cable, avoid kinking and tugging. Constant tension should be used when pulling cable into place. EIA/TIA-568A specifies a 25 pound maximum pulling tension for category cable installations.

INSTALLATION TIPS

Many networks that run on UTP cable use only two of the four pair of wires. To prevent crosstalk, do not use the second unused pair for voice or other data applications.

When routing cables through walls and ceilings, always keep data cable as far as possible from sources of EMI (electromagnetic interference) and RFI (radio frequency interference), such as fluorescent lights, electric panels, light dimmers and electrical motors.

Avoid heat and moisture. High temperature and moist locations may cause attenuation problems.

Select only the highest grade category cables as overall performance is a key ingredient for system success.

Patch cables are intended to be flexed and moved. Stranded conductor patch cords are recommended due to their greater flexibility over solid conductors.

BASIC TOPOLOGIES

Star Topology utilizes a central point of control. Each station or device in the telecommunications system communicates via point to point wiring to the central link. In most situations, address recognition and routing is performed at the central control point.

A star topology is considered the easiest to design and install since each station's cabling is run directly out from the central location to the appropriate work area. It is also adaptable to other topologies.

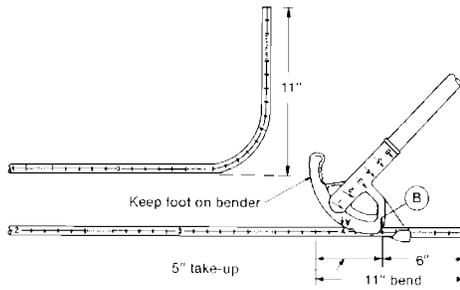
Ring Topology is structured with stations cabled together in a logical circle. Information travels in one direction passing through each station and only stopping at the addressed station. Only one station can transmit on the ring at any one time. Stations take turns gaining access to the ring via polling or by passing an access token from one to another.

Bus Topology has all the devices attached to a linear transmission media. When a station transmits, the signal travels in both directions. Signals travelling along the bus are made available to all stations. Each station checks the intended address of the signal and ignores all information not addressed to its location.



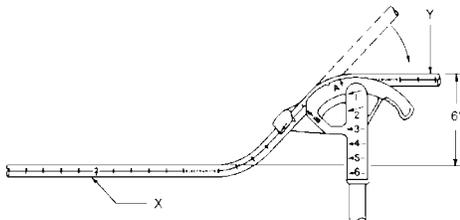
Conduit Bending Instructions – EMT Bender

ACCURATE STUBS



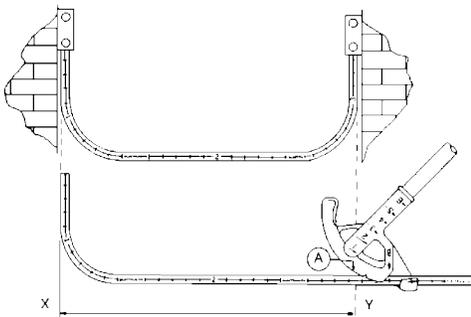
Subtract take-up from desired stub height. This gives distance at which to place B on bender from the end of the tube. To make an 11", 90° bend with 1/2" tube, allow 5" for take-up as shown on diagram. With 3/4" tube, allow 6". With 1" tube, allow 8".

TRUE OFFSETS



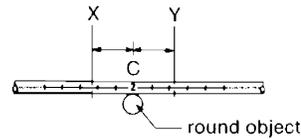
Line up arrow on either side of hook with guide-line and make 45° bend in tube. Reverse tube in bender and adjust so that X is lined up with inch-mark on bender corresponding to depth of offset desired. Line up guide-line with opposite arrow and make second 45° bend. A true offset, in the same plane, will result between X and Y.

BACK-TO-BACK BENDS

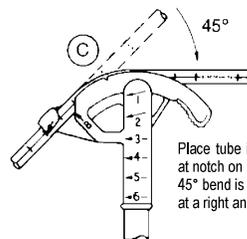


Make stub bend at X with guide-line centered on either arrow located on side of hook. Measure distances from X to Y on tube. Reverse bender and put A on bender at Y on tube. Line up guide-line with opposite arrow used when making first stub and make second bend.

SADDLE BENDS

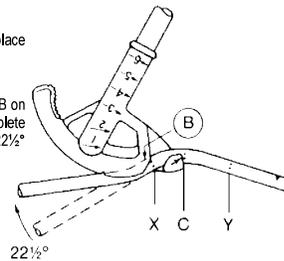


C = Center of finished Saddle Bend
 X = Double of the diameter of round object from C
 Y = Double of the diameter of round object from C



Reverse tube in bender and place B on bender at X on tube. Make return bend of 22½°.

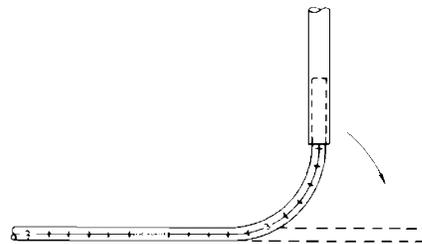
Duplicate procedure placing B on bender at Y on tube and complete saddle by making another 22½° bend.



22½°
 Finished bend neatly saddles round object.

Proper alignment of the guide line with arrows on bender hook will result in the saddle being in a straight line.

TO STRAIGHTEN



Place handle of bender over stub or piece of pipe that will fit inside and push down to the floor in one full sweep.

References



Lighting Guide

FLOOD LIGHTING CALCULATIONS

- Step 1:** Determine foot-candle level from outdoor foot-candle table below.
 - Step 2:** Determine square footage of area to be lighted (length x width).
 - Step 3:** Determine type of fixture to be used and proper mounting height.
 - Step 4:** Identify initial lumens of fixture type.
 - Step 5:** Determine dirt depreciation factor of fixture from Light Depreciation Chart.
 - Step 6:** Use formula with above data to calculate number of fixtures. Round fractions to nearest whole number.
- Formula:** Number of Fixtures = 3 x (Number of Foot-Candles Needed) x (Square Footage of Area) / (Initial Lumens of Fixture Lamp Type) x (Dirt Depreciation)
- Example:** Using 400 watt High Pressure Sodium (HPS) on 30 foot pole.
 $3 \times 2 \times 40,000 / 50,000 \times 1.01 = 4.85$. All fractions should be rounded off. Required number of fixtures = 5.
- Note:** This is not a precise lighting guide.

FOOT-CANDLE TABLE

Lighting Area	Recommended Foot-Candles
Storage Yards – Inactive	1
Railroad Yard Switch Points	2
Shipyards	5
General Bulking Construction	10
Corridors / Stairways / Restrooms	10 – 20
Storage Rooms	10 – 50
Storage Yards – Active	20
Loading Platforms	20
Conference Rooms	20 – 50
Gymnasiums	30 – 50
Merchandising	30 – 150
Cafeterias	50
Classrooms	50 – 75
General Offices	50 – 100
Manufacturing Assembly	50 – 500
Areas with Video Display Terminals (VDTs)	75
Drafting / Accounting	100 – 200
AIRPORTS	
Terminal Apron / Parking	0.5
Hangar Aprons	1
BULLETIN BOARDS	
Light Surfaces	20 – 50
Dark Surfaces	50 – 100
PARKING AREAS / VEHICULAR TRAFFIC	
Low Activity	1
Medium Activity	2
High Activity	2
SPORTS	
Playground	5
Basketball Court – Recreational	10
Baseball – Recreational	10 – 15
Tennis Court – Club	20
Basketball Court – High School	30

LIGHT DEPRECIATION CHART

Clean Environment	Medium Environment	Dirty Environment
0.96	1.01	1.06

MOUNTING HEIGHT GUIDE

Watts	High Pressure Sodium (HPS)	Metal Halide (MH)	Mercury Vapor	Tungsten / Halogen
70	10 – 15'	–	–	–
100	15 – 20'	–	–	–
150	20 – 25'	–	–	–
175	–	–	18 – 23'	–
200	20 – 25'	–	–	–
250	22 – 27'	20 – 25'	20 – 25'	–
400	30 – 35'	25 – 30'	20 – 25'	–
500	–	–	–	15 – 20'
1000	40 – 50'	40 – 45'	35 – 40'	20 – 25'
1500	–	–	–	25 – 30'

INDOOR LIGHTING CALCULATIONS
ZONAL CAVITY METHOD

- Step 1. Determine cavity ratios** = (2.5 X height of cavity X cavity perimeter) / area of cavity base
 - Step 2. Determine effective cavity reflectances:** use chart below
 - Step 3. Select coefficient of utilization:** use manufacturer's tables with effective cavity reflectances from step 2 for specific fixture type
 - Step 4. Compute average illuminance level :** use formula below to determine appropriate number of fixtures
- Number of Fixtures** = (room area in square feet X desired foot candles) / (lumens per fixture X coefficient of utilization)
- Note:** This method is used for estimating purposes only and other factors may contribute to resulting illuminance level. Refer to the IESNA Lighting Handbook for further details.

% Ceiling or Floor Reflectance	90				50				10			
	90	70	50	30	90	70	50	30	90	70	50	30
% Wall Reflectance												
Cavity Ratio												
0.2	89	88	86	85	49	48	47	30	10	10	09	09
0.4	88	86	84	81	48	47	45	30	11	10	09	09
0.6	87	84	80	77	47	45	43	30	11	10	08	08
0.8	87	82	77	73	47	44	40	30	11	10	08	08
1.0	86	80	75	69	46	43	38	30	12	10	08	08
1.2	85	78	72	66	45	41	36	30	12	10	07	07
1.4	85	77	69	62	45	40	35	30	12	10	07	07
1.6	84	75	67	59	44	39	33	29	12	09	07	07
1.8	83	73	64	56	43	38	31	29	13	09	06	06
2.0	83	72	62	53	43	37	30	29	13	09	06	06
2.2	82	70	59	50	42	36	29	29	13	09	06	06
2.4	82	69	58	48	42	35	27	29	13	09	06	06
2.6	81	67	56	46	41	34	26	29	13	09	06	06
2.8	81	66	54	44	41	33	25	29	13	09	05	05
3.0	80	64	52	42	40	32	24	29	13	09	05	05
3.2	79	63	50	40	39	31	23	29	13	09	05	05
3.4	79	62	48	38	39	30	22	29	13	09	05	05
3.6	78	61	47	36	39	29	21	29	13	09	04	04
3.8	78	60	45	35	38	29	21	28	14	09	04	04
4.0	77	58	44	33	38	28	20	28	14	09	04	04
4.2	77	57	43	32	37	28	20	28	14	09	04	04
4.4	76	56	42	31	37	27	19	28	14	08	04	04
4.6	76	55	40	30	36	26	18	28	14	08	04	04
4.8	75	54	39	28	36	26	18	28	14	08	04	04
5.0	75	53	38	28	35	25	17	28	14	08	04	04

References



NEMA Enclosure Type Classifications

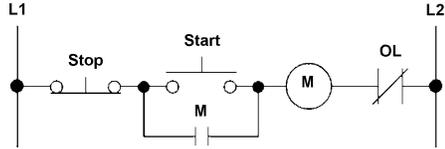
NEMA Type	Description
1	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt.
2	Same as NEMA Type 1 including protection against dripping and light splashing of liquids.
3	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and that will be undamaged by the external formation of ice on the enclosure.
3R	Same as NEMA Type 3 excluding protection against windblown dust.
3S	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and in which the external mechanism(s) remain operable when ice laden.
4	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice on the enclosure.
4X	Same as NEMA Type 4 including protection against corrosion.
5	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against settling airborne dust, lint, fibers, and flyings; and to provide a degree of protection against dripping and light splashing of liquids.
6	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose-directed water and the entry of water during occasional temporary submersion at a limited depth; and that will be undamaged by the external formation of ice on the enclosure.
6P	Same as NEMA Type 6 including protection against the entry of water during prolonged submersion at a limited depth.
7	Enclosures are for indoor use in locations classified as Class I, Groups A, B, C, or D and shall be capable of withstanding the pressures resulting from an internal explosion of specified gases, and contain such an explosion sufficiently that an explosive gas-air mixture existing in the atmosphere surrounding the enclosure will not be ignited. Enclosed heat generating devices shall not cause external surfaces to reach temperatures capable of igniting explosive gas-air mixtures in the surrounding atmosphere. Enclosures shall meet explosion, hydro-static, and temperature design tests.
9	Enclosures are intended for indoor use in locations classified as Class II, Groups E, F, or G, and shall be capable of preventing the entrance of dust. Enclosed heat generating devices shall not cause external surfaces to reach temperatures capable of igniting or discoloring dust on the enclosure or igniting dust-air mixtures in the surrounding atmosphere. Enclosures shall meet dust penetration and temperature design tests, and aging of gaskets (if used).
12	Enclosures constructed (without knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flyings; and against dripping and light splashing of liquids.
12K	Same as NEMA Type 12 including enclosures constructed with knockouts.
13	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flyings; and against the spraying, splashing, and seepage of water, oil, and non-corrosive coolants.

References

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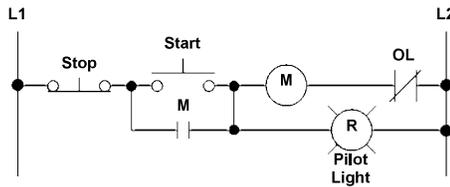
Common Pilot Device Diagrams

START / STOP FOR NON-REVERSING STARTER



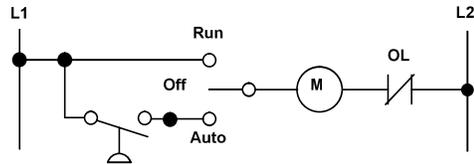
Device Type	Operator	Contact Block	Legend Plate
Start Button	10250T103	10250T53C	10250TM33
Stop Button	10250T102	10250T51C	10250TM34

START / STOP WITH MOTOR RUN LIGHT



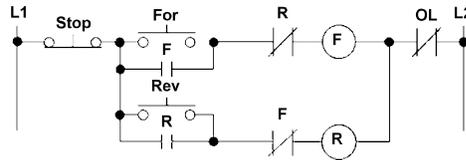
Device Type	Operator	Contact Block	Legend Plate
Start Button	10250T103	10250T53C	10250TM33
Stop Button	10250T102	10250T51C	10250TM34
Run Light	10250T181N	10250TC1N	10250TM31

HAND / OFF / AUTO CIRCUIT



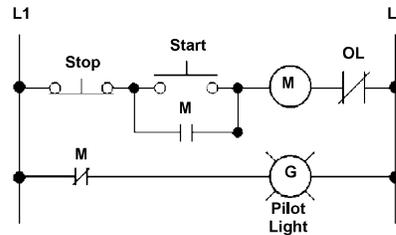
Device Type	Operator	Contact Block	Legend Plate
Selector Switch	10250T1323	10250T2C	10250TM51

FORWARD / STOP / REVERSE FOR REVERSING STARTER



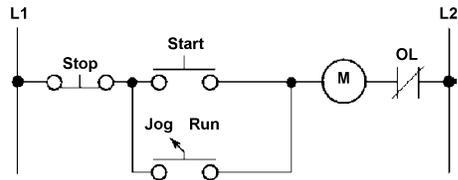
Device Type	Operator	Contact Block	Legend Plate
Forward Button	10250T103	10250T53C	10250TM15
Stop Button	10250T102	10250T51C	10250TM34
Reverse Button	10250T101	10250T53C	10250TM30

START / STOP WITH MOTOR OFF LIGHT



Device Type	Operator	Contact Block	Legend Plate
Start Button	10250T103	10250T53C	10250TM33
Stop Button	10250T102	10250T51C	10250TM34
Off Light	10250T181N	10250TC2N	10250TM24

START / STOP WITH JOG / RUN SELECTOR SWITCH



Device Type	Operator	Contact Block	Legend Plate
Start Button	10250T103	10250T53C	10250TM33
Stop Button	10250T102	10250T51C	10250TM34
Selector Switch	10250T1311	10250T53C	10250TM44

References

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Summary of Code Requirements for Lighting Control

Vive wireless solutions ensure you can meet new construction and retrofit (lighting alterations code requirements for ASHRAE 2010, ASHRAE 2013, IECC 2012, IECC 2015, and Title 24-2016).

For specific commercial building code lighting requirements in your state, please visit www.lutron.com/energycodes.

Control Method(s)	Code Requirements					Solution(s)	
	ASHRAE 90.1-2010	ASHRAE 90.1-2013	IECC 2012	IECC 2015	Title 24-2016	 Vive	 Vive with Wireless Hub
Local Switch	•	•	•	•	•	√	√
Occupancy Sensing	•	•	•	•	•	√	√
Bi-Level Control	•	•	•	•	•	√	√
Multi-Level Dimming					•	√	√
Automatic Daylighting	•	•		•	•	√	√
Demand Response					•		√
Energy Monitoring		•			•		√

Key: • New Construction • Lighting Alteration

Disclaimer: This table is a summary only; other exceptions or details may apply. Jurisdictions may have requirements that differ from these standards. For specific code requirements please visit: www.lutron.com/energycodes

References



Warning! · Counterfeit Circuit Breakers · Warning!

WARNING! WARNING! WARNING!
COUNTERFEIT CIRCUIT BREAKERS

WHY BUY NEW?

You should never compromise when selecting the electrical device whose fundamental purpose is protection. When you buy an Eaton circuit breaker from Elliott Electric Supply, you get a circuit breaker you can depend on, plus a whole lot more.

RELIABILITY

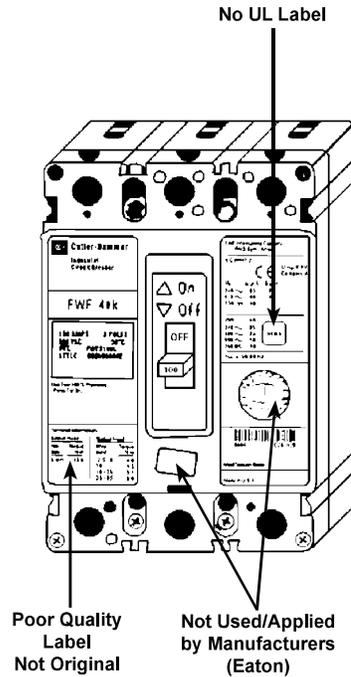
Eaton assures the quality and reliability of each new circuit breaker before it leaves the manufacturing facility. Each unit is tested with state-of-the-art test equipment especially designed for each type of breaker. Eaton circuit breakers carry UL 489 and IEC 60947-2 ratings and meet or exceed many other international testing standards.

SAFETY

Accidents happen each day. The risk of equipment damage or injured personnel may be reduced by using the correct circuit protective devices. In order to assure your safety, you need to know the differences between new, used and surplus and third-party repaired circuit breakers. When it comes to protecting your equipment and people, it is truly what you don't know that can hurt you.

PEACE OF MIND

Why risk buying used, surplus or third-party repaired breakers? The cost of even one circuit failing to operate can be staggering and the results catastrophic, maybe even tragic. There is also the whole issue of liability. As the individual who decides whether to buy used or buy new, you bear great responsibility. Why risk your reputation, your livelihood, or your safety?



HOW TO SPOT A COUNTERFEIT BREAKER

Missing Date Code

- Removed to hide the age of the circuit breaker.

Old Date Code

- Any product over two years old no longer has any factory warranty.

Factory Seals Broken or Removed

- Product has been tampered with and has no warranty or guarantee that it meets performance specifications.

Mislabeled Products to Change Size/Type

- Product has been tampered with, causing a possible misapplication and a safety hazard.

Non-English Text

- Product that appears with labels in languages other than English.

Missing UL Sticker

- Product is likely imported illegally and is NOT certified to meet U.S. electrical codes.

Low-Quality Labeling and/or Misspelled Words

- Product is likely a counterfeit and made with substandard materials and workmanship.

Old Westinghouse or Challenger Label

- These products have not been produced since 1999 and 1997 respectively.

Not in a Carton or in Older White Carton

- Product is used and/or outdated



Power Defense Molded Case Circuit Breaker Replacement Guide

125 A	225 A	250 A	400 A	600 A	800 A	1200 A	2500 A
POWER DEFENSE™—GLOBAL—UL®/CSA®/CE/CCC Dimensions in inches (per three-pole breaker)							
PDG1	PDG2	PDG3		PDG4	PDG5	PDG6	
125 A Frame (15–125 A)	225 A Frame (15–225 A)	400 A & 600 A Frame (45–800 A)		800 A Frame (300–800 A)	800 A & 1200 A Frame (320–1200 A)	1600 A, 2000 A & 2500 A Frame (700–2500 A)	
 W: 3.00 H: 5.50 D: 3.00	 W: 4.13 H: 6.00 D: 3.50	 W: 5.50 H: 10.10 D: 4.30		 W: 8.25 H: 16.00 D: 4.38	 W: 8.30 H: 16.00 D: 5.50	 W: 15.50 H: 16.00 D: 9.80	
SERIES G—GLOBAL—UL/CSA/CE/CCC Dimensions in inches (per three-pole breaker)							
EG	JG		LG	NG		RG	
125 A Frame (15–125 A)	250 A Frame (20–250 A)		600 A Frame (100–600 A)	800 A & 1200 A Frame (320–1200 A)		1600 A, 2000 A & 2500 A Frame (800–2500 A)	
 W: 3.00 H: 5.50 D: 3.00	 W: 4.13 H: 7.00 D: 3.57		 W: 5.50 H: 10.10 D: 4.10	 W: 8.30 H: 16.00 D: 5.50		 W: 15.50 H: 16.00 D: 9.80	
SERIES C—DOMESTIC—UL/CSA Dimensions in inches (per three-pole breaker)							
GD	FD	JD	KD	LD	MDL	ND (Aftermarket)	RD (Aftermarket)
100 A Frame (15–100 A)	225 A Frame (15–225 A)	250 A Frame (70–250 A)	400 A Frame (55–400 A)	600 A Frame (70–600 A)	800 A Frame (300–800 A)	800 A & 1200 A Frame	1600 A, 2000 A & 2500 A Frame
 W: 3.00 H: 4.88 D: 2.63	 W: 4.13 H: 6.00 D: 3.38	 W: 4.13 H: 10.00 D: 4.06	 W: 5.50 H: 10.10 D: 4.10	 W: 8.25 H: 10.80 D: 4.06	 W: 8.25 H: 16.00 D: 4.06	 W: 8.30 H: 16.00 D: 5.50	 W: 15.50 H: 16.00 D: 9.80

Note: Available Continuous Current Ranges are Shown in Parentheses. These Options are Dependent on the Frame and Trip Unit Used with Each Breaker. Please Consult Eaton's Volume 4 Circuit Protection Catalog for More Information.

References



Product selector and technical data
Scan the QR code for additional assistance in selecting a breaker or to obtain data sheets and 2D or 3D drawings. You can also visit our website at Eaton.com/PowerDefense.





Arizona

NEW STORE!	AVONDALE #169 PHONE: 623-259-1366 FAX: 623-259-1367 24/7 CONTACTS
	Reid Goins.....ReidGoins@elliottelectric.com.....Branch Manager M-F: 5am-4pm 1205 N Elseo Felix Jr. Way, #A101 Host Store: Phoenix, AZ #148 Sat: 8am-Noon Avondale, AZ 85323 Reid210-464-2171
NEW STORE!	DEER VALLEY #153 PHONE: 480-681-0668 FAX: 480-681-0669 24/7 CONTACTS
	Steven Dawson.....StevenDawson@elliottelectric.com.....Branch Manager M-F: 5am-4pm 21415 North 15th Lane, #116 Host Store: Phoenix, AZ #148 Sat: 8am-Noon Phoenix, AZ 85027 Steven210-954-2351
NEW STORE!	GILBERT #166 PHONE: 602-325-9757 FAX: 602-325-9758 24/7 CONTACTS
	Austin Simms.....AustinSimms@elliottelectric.com.....Branch Manager M-F: 5am-4pm 425 East Germann Road, #101 Host Store: Phoenix, AZ #148 Sat: 8am-Noon Gilbert, AZ 85297 Austin.....760-336-1165
NEW STORE!	MESA #152 PHONE: 623-900-2983 FAX: 623-900-2984 24/7 CONTACTS
	Nick Shattuck.....NickShattuck@elliottelectric.com.....Branch Manager M-F: 5am-4pm 2250 West Broadway Road, #102 Host Store: Phoenix, AZ #148 Sat: 8am-Noon Mesa, AZ 85202 Nick.....210-355-6004
NEW STORE!	PHOENIX #148 PHONE: 480-372-4901 FAX: 480-372-4902 24/7 CONTACTS
	Quentin Bell.....QuentinBell@elliottelectric.com.....Area Manager M-F: 5am-4pm 121 South 39th Avenue, #100 Michael Daake.....MichaelDaake@elliottelectric.com... Area Operations Manager Sat: 8am-Noon Phoenix, AZ 85009 Quentin.....210-232-1838 Michael623-213-9860
NEW STORE!	TUCSON #159 PHONE: 520-526-1947 FAX: 520-526-1948 24/7 CONTACTS
	Anacely Martinez.....AnacelyMartinez@elliottelectric.com.....Branch Manager M-F: 6am-4pm 3130 S. Dodge Boulevard Host Store: Phoenix, AZ #148 Sat: 8am-Noon Tucson, AZ 85713 Anacely.....520-247-3449

Arkansas

NEW ADDRESS	BENTON #131 PHONE: 501-303-4983 FAX: 501-508-4978 24/7 CONTACTS
	David Work.....DavidWork@elliottelectric.com.....Operations Manager M-F: 7am-5:30pm 2114 Military Road Host Store: Little Rock, AR #091 Sat: 8am-Noon Benton, AR 72015 David501-804-6198
NEW ADDRESS	BENTONVILLE #112 PHONE: 479-250-1930 FAX: 479-250-1931 24/7 CONTACTS
	Tyler Wright.....TylerWright@elliottelectric.com.....Branch Manager M-F: 7am-5pm 320 SW 28th Street Host Store: Springdale, AR #106 Sat: 8am-Noon Bentonville, AR 72712 Tyler.....281-467-6044
NEW ADDRESS	CABOT #094 PHONE: 501-605-1780 FAX: 501-605-1785 24/7 CONTACTS
	Lawrence Gabbard.....LawrenceGabbard@elliottelectric.com.....Branch Manager M-F: 7am-5pm 132 Professional Drive Host Store: Little Rock, AR #091 Sat: Closed Cabot, AR 72023 Lawrence501-908-1404
NEW ADDRESS	CONWAY #099 PHONE: 501-336-8444 FAX: 501-329-5636 24/7 CONTACTS
	Lawrence Gabbard.....LawrenceGabbard@elliottelectric.com.....Branch Manager M-F: 6:30am-5pm 520 Equity Avenue Host Store: Little Rock, AR #091 Sat: Closed Conway, AR 72032 Lawrence501-908-1404
NEW ADDRESS	EL DORADO #138 PHONE: 870-639-6289 FAX: 870-864-8850 24/7 CONTACTS
	Wayne Jackson.....WayneJackson@elliottelectric.com.....Branch Manager M-F: 7am-5:30pm 805 South Timberlane Drive Host Store: West Monroe, LA #055 Sat: 8am-Noon El Dorado, AR 71730 Wayne.....870-310-8623
NEW ADDRESS	FAYETTEVILLE #125 PHONE: 479-443-4948 FAX: 479-443-6465 24/7 CONTACTS
	David Christenberry.....DavidChristenberry@elliottelectric.com.....Area Manager M-F: 7am-5:30pm 2642 South School Street Host Store: Springdale, AR #106 Sat: 8am-Noon Fayetteville, AR 72701 David479-225-6948
NEW ADDRESS	FORT SMITH #105 PHONE: 479-648-1902 FAX: 479-648-1960 24/7 CONTACTS
	Dana Borum.....DanaBorum@elliottelectric.com.....Branch Manager M-F: 7am-5:30pm 5500 Wheeler Avenue Host Store: Springdale, AR #106 Sat: 8am-Noon Fort Smith, AR 72901 Dana.....208-691-4167
NEW ADDRESS	HOPE #037 PHONE: 870-777-4225 FAX: 870-777-4343 24/7 CONTACTS
	Gil Murry.....GillMurry@elliottelectric.com.....Operations Supervisor M-F: 7am-5:30pm 1615 North Hazel Street Host Store: Texarkana, TX #030 Sat: 8am-Noon Hope, AR 71801 Gil870-602-0947
NEW ADDRESS	HOT SPRINGS #114 PHONE: 501-762-8210 FAX: 501-762-8211 24/7 CONTACTS
	Matthew Thompson.....MatthewThompson@elliottelectric.com.....Branch Manager M-F: 7am-5:30pm 411 Autumn Street Host Store: Little Rock, AR #091 Sat: 8am-Noon Hot Springs, AR 71901 Matthew501-249-0102

References





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Store Information: Arkansas, Colorado, Georgia

Arkansas (cont.)

LITTLE ROCK #091 PHONE: 501-565-1785 FAX: 501-565-0827				24/7 CONTACTS	NEW ADDRESS
James Felton.....JamesFelton@elliotelectric.com.....Area Operations Manager	M-F: 7am-5:30pm	5510 West 65th Street	James.....501-912-0175		
Donald White.....DonaldWhite@elliotelectric.com.....Area Manager	Sat: 8am-Noon	Little Rock, AR 72209	Donald.....501-650-6909		
MAGNOLIA #139 PHONE: 870-626-4277 FAX: 870-234-7640				24/7 CONTACTS	
Beau Potts.....BeauPotts@elliotelectric.com.....Operations Supervisor	M-F: 7am-5:30pm	102 Harvey Couch Boulevard	Beau.....903-490-2343		
Host Store: Texarkana, TX #030	Sat: 8am-Noon	Magnolia, AR 71753			
NORTH LITTLE ROCK #086 PHONE: 501-945-9398 FAX: 501-508-2426				24/7 CONTACTS	
Tyler Ward.....TylerWard@elliotelectric.com.....Operations Manager	M-F: 7am-5:30pm	1501 North Cypress Street	Tyler.....501-749-2311		
Host Store: Little Rock, AR #091	Sat: 8am-Noon	North Little Rock, AR 72114			
PINE BLUFF #149 PHONE: 870-671-4805 FAX: 870-671-4806				24/7 CONTACTS	NEW ADDRESS
Donald White.....DonaldWhite@elliotelectric.com.....Area Manager	M-F: 7am-5:30pm	1701 Commerce Road	Donald.....501-650-6909		
Host Store: Little Rock, AR #091	Sat: 8am-Noon	Pine Bluff, AR 71601			
ROGERS #124 PHONE: 479-636-4190 FAX: 479-636-5604				24/7 CONTACTS	
Tom Dawson.....TomDawson@elliotelectric.com.....Branch Manager	M-F: 7am-5pm	2214 South 8th Street	Tom.....479-616-6041		
Host Store: Springdale, AR #106	Sat: Closed	Rogers, AR 72758			
RUSSELLVILLE #104 PHONE: 479-967-2303 FAX: 479-967-2306				24/7 CONTACTS	
Terry Hansell.....TerryHansell@elliotelectric.com.....Branch Manager	M-F: 7am-5:30pm	1715 South Knoxville Avenue	Terry.....479-747-2271		
Host Store: Little Rock, AR #091	Sat: 8am-Noon	Russellville, AR 72802			
SEARCY #089 PHONE: 501-368-0309 FAX: 501-368-0619				24/7 CONTACTS	
Rick Debord.....RickDebord@elliotelectric.com.....Branch Manager	M-F: 7am-5:30pm	1612 East Booth Road	Rick.....501-831-3852		
Host Store: Little Rock, AR #091	Sat: 8am-Noon	Searcy, AR 72143			
SILOAM SPRINGS #126 PHONE: 479-238-1561 FAX: 479-238-1461				24/7 CONTACTS	
Wesley Holt.....WesleyHolt@elliotelectric.com.....Branch Manager	M-F: 7am-5:30pm	1201 East Lake Francis Drive	Wesley.....479-644-0049		
Host Store: Springdale, AR #106	Sat: 8am-Noon	Siloam Springs, AR 72761			
SPRINGDALE #106 PHONE: 479-361-2266 FAX: 479-361-9188				24/7 CONTACTS	
Jim Mitchell.....JimMitchell@elliotelectric.com.....Area Operations Manager	M-F: 7am-5:30pm	537 North 40th Street	Jim.....479-466-2884		
Tina Priddy.....TinaPriddy@elliotelectric.com.....Branch Manager	Sat: 8am-Noon	Springdale, AR 72762	Tina.....479-530-5276		
David Christenberry.....DavidChristenberry@elliotelectric.com.....Area Manager			David.....479-225-6948		
STUTTGART #107 PHONE: 870-672-7082 FAX: 870-672-7086				24/7 CONTACTS	
Jamie Crane.....JamieCrane@elliotelectric.com.....Branch Manager	M-F: 7am-5:30pm	310 West 22nd Street	Jamie.....870-456-2306		
Host Store: Little Rock, AR #091	Sat: 8am-Noon	Stuttgart, AR 72160			

Colorado

DENVER #174 PHONE: 720-259-9108 FAX: 720-259-9109				24/7 CONTACTS	OPENING SOON!
Alex Fritsch.....AlexFritsch@elliotelectric.com.....Branch Manager	M-F: 7am-5:30pm	10070 E. 40th Ave.	Alex.....713-298-5632		
Chris Petty.....ChrisPetty@elliotelectric.com.....Area Manager	Sat: 8am-Noon	Denver, CO 80238	Chris.....512-789-2679		

Georgia

ATLANTA #046 PHONE: 470-237-5352 FAX: 470-237-5353				24/7 CONTACTS	References
Jamen Costner.....JamenCostner@elliotelectric.com.....Area Operations Manager	M-F: 7am-5:30pm	4075 Bolder Ridge Drive	Jamen.....706-204-4703		
Host Store: Atlanta, GA #046	Sat: 8am-Noon	Atlanta, GA 30336			
MARIETTA #165 PHONE: 678-398-4904 FAX: 678-398-4905				24/7 CONTACTS	
Tim Adams.....TimAdams@elliotelectric.com.....Branch Manager	M-F: 7am-5:30pm	2255 Northwest Parkway SE	Tim.....404-904-9090		
Host Store: Atlanta, GA #046	Sat: 8am-Noon	Marietta, GA 30067			
NEWNAN #154 PHONE: 678-621-2507 FAX: 678-621-2508				24/7 CONTACTS	
Jessica Durand.....JessicaDurand@elliotelectric.com.....Branch Manager	M-F: 7am-5:30pm	2 Solar Circle	Jessica.....770-328-0836		
Host Store: Atlanta, GA #046	Sat: 8am-Noon	Newnan, GA 30265			
ROME #150 PHONE: 706-622-4953 FAX: 706-622-4954				24/7 CONTACTS	
Jason Eaton.....JasonEaton@elliotelectric.com.....Branch Manager	M-F: 7am-5:30pm	1461 Technology Parkway	Jason.....470-214-0812		
Host Store: Atlanta, GA #046	Sat: 8am-Noon	Rome, GA 30165			



Store Information: Kansas, Louisiana

Kansas

	DODGE CITY #135	PHONE: 620-682-8503	FAX: 620-682-8504	24/7 CONTACTS
	Bryan Mercer BryanMercer@elliottelectric.com Area Manager Levi Steele LeviSteele@elliottelectric.com Branch Manager Host Store: Wichita (West), KS #146	M-F: 7am-5:30pm Sat 8am-Noon	112 Peard Street Dodge City, KS 67801	Bryan 806-336-0761 Levi 620-390-9713
	HUTCHINSON #155	PHONE: 620-860-8405	FAX: 620-860-8406	24/7 CONTACTS
	Bob Ahlgrim RobertAhlgrim@elliottelectric.com Branch Manager Host Store: Wichita (West), KS #146	M-F: 7am-5:30pm Sat 8am-Noon	2501 East 14th Avenue Hutchinson, KS 67501	Bob 316-409-6730
NEW STORE!	LENEXA #171	PHONE: 913-563-7000	FAX: 913-563-7050	24/7 CONTACTS
	Max Cook MaxCook@elliottelectric.com Branch Manager Justin Roe JustinRoe@elliottelectric.com Operations Manager	M-F: 7am-5:30pm Sat 8am-Noon	14851 W. 99th St. Lenexa, KS 66215	Max 913-544-7321 Justin 913-707-4456
NEW STORE!	SALINA #168	PHONE: 785-914-5431	FAX: 785-914-5432	24/7 CONTACTS
	Kenn Sellers KennSellers@elliottelectric.com Branch Manager Host Store: Wichita (West), KS #146	M-F: 7am-5:30pm Sat 8am-Noon	700 York Avenue Salina, KS 67401	Kenn 785-376-1908
NEW ADDRESS	WICHITA (WEST) #146	PHONE: 316-854-0028	FAX: 316-854-0029	24/7 CONTACTS
	Bryan Mercer BryanMercer@elliottelectric.com Area Manager Hunter Rowland HunterRowland@elliottelectric.com Host Manager	M-F: 7am-5:30pm Sat 8am-Noon	3804 W. Esthner Avenue Wichita, KS 67213	Bryan 806-336-0761 Hunter 316-737-8968

Louisiana

	ALEXANDRIA #054	PHONE: 318-445-1336	FAX: 318-445-8356	24/7 CONTACTS
	Johnny Winfree JohnnyWinfree@elliottelectric.com Area Manager Chris Rogers ChristopherRogers@elliottelectric.com Area Operations Manager	M-F: 7am-5:30pm Sat 8am-Noon	3705 Lee Street Alexandria, LA 71302	Johnny 318-447-8925 Chris 318-447-0378
	BATON ROUGE #102	PHONE: 225-292-7746	FAX: 225-292-7840	24/7 CONTACTS
	Bob Jones BobJones@elliottelectric.com Host Manager Karen Bennett KarenBennett@elliottelectric.com Operations Manager	M-F: 6am-5:30pm Sat 8am-Noon	10440 Airline Highway Baton Rouge, LA 70816	Bob 225-620-8707 Karen 225-235-3852
	BOSSIER CITY #003	PHONE: 318-746-5712	FAX: 318-746-8036	24/7 CONTACTS
	Sharon Elliott SharonElliott@elliottelectric.com Host Manager Kyle Baker KyleBaker@elliottelectric.com Area Operations Manager	M-F: 7am-5:30pm Sat 8am-Noon	2414 Montgomery Lane Bossier City, LA 71111	Sharon 318-458-7157 Kyle 318-272-3251
	COVINGTON #137	PHONE: 985-302-3016	FAX: 985-249-6076	24/7 CONTACTS
	JT Thompson JulianThompson@elliottelectric.com Branch Manager Host Store: Baton Rouge, LA #102	M-F: 6am-5pm Sat 8am-Noon	1026 North Collins Boulevard Covington, LA 70433	JT 985-687-1110
NEW STORE!	GONZALES #170	PHONE: 225-960-6273	FAX: 225-960-6274	24/7 CONTACTS
	Alan Bryant RichardBryant@elliottelectric.com Branch Manager Wade Sullivan WadeSullivan@elliottelectric.com Operations Manager Host Store: Baton Rouge, LA #102	M-F: 7am-5:30pm Sat 8am-Noon	1617 W Highway 30 Gonzales, LA 70737	Alan 225-279-6749 Wade 225-313-0850
	LAFAYETTE #059	PHONE: 337-235-7681	FAX: 337-235-7725	24/7 CONTACTS
	Dwight Dufour DwightDufour@elliottelectric.com Branch Manager Host Store: Alexandria, LA #054	M-F: 7am-5:30pm Sat 8am-Noon	1811 N. University Ave., Ste. 100 Lafayette, LA 70507	Dwight 337-534-7910
	LEESVILLE #057	PHONE: 337-238-1624	FAX: 337-239-2527	24/7 CONTACTS
	Heather Littleton HeatherLittleton@elliottelectric.com Branch Manager Host Store: Alexandria, LA #054	M-F: 7am-5:30pm Sat 8am-Noon	206 Stanton Street Leesville, LA 71446	Heather 337-353-6211
	MONROE #079	PHONE: 318-387-1621	FAX: 318-387-1763	24/7 CONTACTS
	Eric Williams EricWilliams@elliottelectric.com Operations Manager Host Store: West Monroe, LA #055	M-F: 7am-5:30pm Sat 8am-Noon	801 Sterlington Road Monroe, LA 71203	Eric 318-737-9395
	NATCHITOCHES #020	PHONE: 318-352-7414	FAX: 318-352-4100	24/7 CONTACTS
	Bobby Garlington BobbyGarlington@elliottelectric.com Branch Manager Host Store: Alexandria, LA #054	M-F: 7am-5:30pm Sat 8am-Noon	500 Rapides Drive Natchitoches, LA 71457	Bobby 318-332-0015
	NEW ORLEANS #111	PHONE: 504-264-9995	FAX: 504-264-5996	24/7 CONTACTS
	CJ McLennan CharlesMcLennan@elliottelectric.com Branch Manager Host Store: Baton Rouge, LA #102	M-F: 6am-5pm Sat 8am-Noon	221 Hord Street Harahan, LA 70123	CJ 225-910-0424

References

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Store Information: Louisiana, Missouri, New Mexico, Oklahoma

Louisiana (cont.)

PINEVILLE	#035	PHONE: 318-767-0900	FAX: 318-767-0010	24/7 CONTACTS
Joshua HenryJoshuaHenry@elliottelectric.comOperations Manager Host Store: Alexandria, LA #054	M-F: 7am-5:30pm Sat: 8am-Noon	4406 Highway 28 East Pineville, LA 71360	Joshua.....318-625-9636	
RUSTON	#067	PHONE: 318-251-9393	FAX: 318-255-1402	24/7 CONTACTS
Van PhillipsVanPhillips@elliottelectric.comHost Manager Host Store: West Monroe, LA #055	M-F: 7am-5:30pm Sat: 8am-Noon	2020 Farmerville Highway Ruston, LA 71270	Van318-557-5591	
SHREVEPORT	#014	PHONE: 318-688-9822	FAX: 318-688-0702	24/7 CONTACTS
Sharon ElliottSharonElliott@elliottelectric.comHost Manager Host Store: Bossier City, LA #003	M-F: 7am-5:30pm Sat: 8am-Noon	9139 Linwood Avenue Shreveport, LA 71106	Sharon.....318-458-7157	
SULPHUR	#080	PHONE: 337-533-8019	FAX: 337-533-8055	24/7 CONTACTS
Neil Peveto NeilPeveto@elliottelectric.com Branch Manager Host Store: Alexandria, LA #054	M-F: 7am-5:30pm Sat: 8am-Noon	1336 Swisco Road Sulphur, LA 70665	Neil337-540-2842	
VIDALIA	#074	PHONE: 318-336-5113	FAX: 318-336-5587	24/7 CONTACTS
Edward BourdinJeanBourdin@elliottelectric.comOperations Supervisor Host Store: Alexandria, LA #054	M-F: 7am-5:30pm Sat: 8am-Noon	6 South Hickory Street Vidalia, LA 71373	Edward601-431-1944	
WEST MONROE	#055	PHONE: 318-398-9757	FAX: 318-398-9704	24/7 CONTACTS
Van PhillipsVanPhillips@elliottelectric.comHost Manager Michael JordanMichaelJordan@elliottelectric.comOperations Manager	M-F: 7am-5:30pm Sat: 8am-Noon	106 Industrial Drive West Monroe, LA 71292	Van318-557-5591 Michael318-376-9254	

Missouri

KANSAS CITY	#172	PHONE: 816-924-7000	FAX: 816-931-2918	24/7 CONTACTS	NEW STORE!
Mike Mitchell MichaelGideon@elliottelectric.com Branch Manager Bryan Mercer BryanMercer@elliottelectric.com Area Manager Host Store: Lenexa, KS #171	M-F: 7am-5:30pm Sat: 8am-Noon	4451 Troost Ave. Kansas City, MO 64110	Mike816-642-0929 Bryan806-336-0761		

New Mexico

CARLSBAD	#156	PHONE: 575-988-7017	FAX: 575-988-7018	24/7 CONTACTS
Michael Gideon MichaelGideon@elliottelectric.com Branch Manager Keagan McDermott KeaganMcDermott@elliottelectric.com Host Manager Host Store: Lubbock, TX #110	M-F: 7am-5:30pm Sat: 8am-Noon	5004 National Parks Highway Carlsbad, NM 88220	Michael575-390-4354 Keagan806-831-1755	
CLOVIS	#092	PHONE: 575-742-2504	FAX: 575-742-2508	24/7 CONTACTS
David Chaney DavidChaney@elliottelectric.com Branch Manager Keagan McDermott KeaganMcDermott@elliottelectric.com Host Manager Host Store: Lubbock, TX #110	M-F: 7am-5:30pm Sat: 8am-Noon	3205 Axtell Street Clovis, NM 88101	David325-277-7599 Keagan806-831-1755	
HOBBS	#076	PHONE: 575-397-2122	FAX: 575-397-2178	24/7 CONTACTS
Mathew Mendez MathewMendez@elliottelectric.com Operations Manager Host Store: Odessa, TX #066	M-F: 7am-5:30pm Sat: Closed	1105 West Sanger Street Hobbs, NM 88240	Mathew210-265-7793	
ROSWELL	#141	PHONE: 575-208-1571	FAX: 575-208-1572	24/7 CONTACTS
Keagan McDermott KeaganMcDermott@elliottelectric.com Host Manager Host Store: Lubbock, TX #110	M-F: 7am-5:30pm Sat: 8am-Noon	907 East 2nd Street Roswell, NM 88201	Keagan806-831-1755	

Oklahoma

DUNCAN	#118	PHONE: 580-252-2582	FAX: 580-252-2738	24/7 CONTACTS
Becky Pierce BeckyPierce@elliottelectric.com Operations Manager Host Store: Oklahoma City, OK #122	M-F: 7am-5:30pm Sat: 8am-Noon	5150 North Highway 81 Duncan, OK 73533	Becky580-222-6359	
EDMOND	#128	PHONE: 405-562-6283	FAX: 405-562-6284	24/7 CONTACTS
Justin Casteel JustinCasteel@elliottelectric.com Branch Manager Host Store: Oklahoma City, OK #122	M-F: 7am-5:30pm Sat: 8am-Noon	308 Centennial Boulevard Edmond, OK 73013	Justin405-312-4280	
ENID	#133	PHONE: 580-701-6818	FAX: 580-234-5655	24/7 CONTACTS
Jerrid Bramwell JerridBramwell@elliottelectric.com Branch Manager Host Store: Oklahoma City, OK #122	M-F: 7am-5:30pm Sat: 8am-Noon	3507 North Van Buren Bypass Enid, OK 73701	Jerrid580-542-6920	

References

**Oklahoma (cont.)**

LAWTON	#109	PHONE: 580-581-7270	FAX: 580-215-4548	24/7 CONTACTS
Michael Peckinpugh.....MichaelPeckinpugh@elliottelectric.com.....Branch Manager Host Store: Oklahoma City, OK #122	M-F: 7am-5:30pm Sat: 8am-Noon	1010 SE 1st Street Lawton, OK 73501	Michael.....580-695-6187	
MOORE	#132	PHONE: 405-759-4139	FAX: 405-237-1928	24/7 CONTACTS
Kody Rackley.....JonathaniRackley@elliottelectric.com.....Branch Manager Host Store: Oklahoma City, OK #122	M-F: 7am-5:30pm Sat: 8am-Noon	2101 South Eastern Avenue Moore, OK 73160	Kody.....405-727-0326	
OKLAHOMA CITY	#122	PHONE: 405-896-3723	FAX: 405-272-3057	24/7 CONTACTS
Chris Woodall.....ChrisWoodall@elliottelectric.com.....Area Manager David Tanner.....DavidTanner@elliottelectric.com.....Area Operations Manager	M-F: 7am-5:30pm Sat: 8am-Noon	1800 South May Avenue Oklahoma City, OK 73108	Chris.....806-570-6110 David.....817-899-7990	
PRYOR	#162	PHONE: 918-803-0063	FAX: 918-803-0064	24/7 CONTACTS
Jacob Morgan.....JacobMorgan@elliottelectric.com.....Branch Manager Host Store: Tulsa, OK #134	M-F: 7am-5:30pm Sat: 8am-Noon	1315 2nd Street MAIP Pryor, OK 74361	Chris.....918-640-8884	
STILLWATER	#147	PHONE: 405-880-8633	FAX: 405-880-8634	24/7 CONTACTS
Darrel Johnson.....DarrelJohnson@elliottelectric.com.....Branch Manager Host Store: Tulsa, OK #134	M-F: 7am-5:30pm Sat: 8am-Noon	303 East Harned Avenue Stillwater, OK 74075	Darrel.....405-612-1783	
TULSA	#134	PHONE: 918-948-7825	FAX: 918-835-8085	24/7 CONTACTS
Chris Rozene.....ChrisRozene@elliottelectric.com.....Branch Manager Misty Cagner.....MistyCagner@elliottelectric.com.....Operations Manager	M-F: 7am-5:30pm Sat: 8am-Noon	10131 East 21st Street Tulsa, OK 74129	Chris.....918-804-3557 Misty.....918-693-9969	

Tennessee

NASHVILLE	#164	PHONE: 629-262-0932	FAX: 692-262-0933	24/7 CONTACTS
Blake Woods.....BlakeWoods@elliottelectric.com.....Area Manager Will Houston.....WilliamHouston@elliottelectric.com.....Operations Manager	M-F: 7am-5:30pm Sat: 8am-Noon	3723 Keystone Avenue Nashville, TN 37211	Blake.....713-305-9185 Will.....256-468-4077	

Texas

ABILENE	#058	PHONE: 325-793-1570	FAX: 325-692-9649	24/7 CONTACTS
Reese Etter.....ReeseEtter@elliottelectric.com.....Area Operations Manager James Mezell.....JamesMezell@elliottelectric.com.....Area Manager	M-F: 7am-5:30pm Sat: 8am-Noon	4281 Crawford Drive Abilene, TX 79602	Reese.....817-937-5078 James.....325-660-1730	
AMARILLO	#081	PHONE: 806-220-0404	FAX: 806-220-0811	24/7 CONTACTS
Michael Lopez.....MichaelLopez@elliottelectric.com.....Host Manager Alexis Calderon.....AlexisCalderon@elliottelectric.com.....Operations Manager	M-F: 7am-5:30pm Sat: 8am-Noon	4000 Mockingbird Lane Amarillo, TX 79109	Michael.....806-433-2472 Alexis.....214-918-8364	
ANDREWS	#070	PHONE: 432-523-2423	FAX: 432-523-2428	24/7 CONTACTS
James Mezell.....JamesMezell@elliottelectric.com.....Area Manager Host Store: Odessa, TX #066	M-F: 7am-5:30pm Sat: Closed	1201 West Broadway Andrews, TX 79714	James.....325-660-1730	
ARLINGTON	#012	PHONE: 817-695-1616	FAX: 817-633-9062	24/7 CONTACTS
Santiago Martinez.....SantiagoMartinez@elliottelectric.com.....Branch Manager Rick Franklin.....RickFranklin@elliottelectric.com.....Operations Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	2900 East Pioneer Parkway Building 100, Suite 170 Arlington, TX 76010	Santiago.....469-600-0488 Rick.....936-715-5195	
ATHENS	#024	PHONE: 903-675-7999	FAX: 903-675-9414	24/7 CONTACTS
Dusty Godwin.....PaulGodwin@elliottelectric.com.....Branch Manager Dwain Johnson.....DwainJohnson@elliottelectric.com.....Operations Manager Host Store: Tyler, TX #002	M-F: 7am-5:30pm Sat: 8am-Noon	1755 Enterprise Street Athens, TX 75751	Dusty.....903-681-1468 Dwain.....903-477-3322	
AUSTIN (NORTH)	#120	PHONE: 512-351-3290	FAX: 512-973-9027	24/7 CONTACTS
Shawn Ford.....ShawnFord@elliottelectric.com.....Branch Manager Host Store: Austin (RDC), TX #064	M-F: 6am-5:30pm Sat: 8am-Noon	3101 Industrial Terrace Austin, TX 78758	Shawn.....512-925-3208	
AUSTIN (RDC)	#064	PHONE: 512-339-8750	FAX: 512-339-6732	24/7 CONTACTS
Mike Hogan.....MikeHogan@elliottelectric.com.....Area Operations Manager Chris Petty.....ChrisPetty@elliottelectric.com.....Regional Manager	M-F: 6am-5:30pm Sat: 8am-Noon	12555 Harris Branch Pkwy., Ste. 105 Manor, TX 78653	Mike.....512-289-7149 Chris.....512-789-2679	



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Store Information: Texas

Texas (cont.)

AUSTIN (SOUTH) #053 PHONE: 512-443-5600 FAX: 512-443-5601		24/7 CONTACTS
Adam Parker.....AdamParker@elliottelectric.com..... Branch Manager Host Store: Austin (RDC), TX #064	M-F: 7am-5:30pm Sat: 8am-Noon	2301 E Saint Elmo Road, Ste. 105 Austin, TX 78744 Adam.....512-999-8383
BASTROP #145 PHONE: 512-772-2493 FAX: 512-772-2494		24/7 CONTACTS
Blaine Williams.....BlaineWilliams@elliottelectric.com..... Branch Manager Host Store: Austin (RDC), TX #064	M-F: 7am-5:30pm Sat: 8am-Noon	405 Technology Drive Bastrop, TX 78602 Blaine.....979-716-2744
BIG SPRING #101 PHONE: 432-264-0316 FAX: 432-264-0483		24/7 CONTACTS
Jamie Roberts.....JamieRoberts@elliottelectric.com..... Operations Manager Host Store: Odessa, TX #066	M-F: 7am-5:30pm Sat: Closed	1308 East 4th Street Big Spring, TX 79720 Jamie.....432-270-2387
BORGER #075 PHONE: 806-273-3085 FAX: 806-273-2487		24/7 CONTACTS
Austin Boyd.....AustinBoyd@elliottelectric.com..... Branch Manager Host Store: Amarillo, TX #081	M-F: 7am-5:30pm Sat: 8am-Noon	2108 South Huber Borger, TX 79007 Austin.....806-930-0510
BRIDGEPORT #023 PHONE: 940-683-5740 FAX: 940-683-5299		24/7 CONTACTS
Heath Sparks.....JamesSparks@elliottelectric.com..... Branch Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	204 Lake Road Bridgeport, TX 76426 Heath.....214-914-7438
BROWNSVILLE #151 PHONE: 956-295-3007 FAX: 956-295-3008		24/7 CONTACTS
Lance Shelley.....LanceShelley@elliottelectric.com..... Branch Manager JD Cardenas.....JesusCardenas@elliottelectric.com..... Operations Manager Host Store: McAllen, TX #144	M-F: 7am-5:30pm Sat: 8am-Noon	5575 Ruben M Torres Boulevard Brownsville, TX 78526 Lance.....512-656-0084 JD.....956-372-8030
BROWNWOOD #027 PHONE: 325-646-6566 FAX: 325-646-3777		24/7 CONTACTS
Ross Neel.....RossNeel@elliottelectric.com..... Branch Manager Jacob Teague.....JacobTeague@elliottelectric.com..... Operations Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	4300 Danhill Drive Brownwood, TX 76801 Ross.....325-660-4658 Jacob.....325-641-0734
BRYAN #047 PHONE: 979-779-6630 FAX: 979-779-6620		24/7 CONTACTS
Quentin Risner.....QuentinRisner@elliottelectric.com..... Branch Manager Host Store: Houston (RDC), TX #049	M-F: 7am-5:30pm Sat: 8am-Noon	2501 Cavitt Avenue Bryan, TX 77801 Quentin.....936-554-0313
BURLESON #040 PHONE: 817-447-0192 FAX: 817-426-1193		24/7 CONTACTS
Louis Perkins.....LouisPerkins@elliottelectric.com..... Branch Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	149 North Wilson Street Burleson, TX 76028 Louis.....817-253-2212
CARTHAGE #068 PHONE: 903-694-9924 FAX: 903-694-9928		24/7 CONTACTS
Nathan Lenox.....NathanLenox@elliottelectric.com..... Branch Manager Host Store: Nacogdoches, TX #001	M-F: 7am-5:30pm Sat: Closed	3168 SW Loop 436 Carthage, TX 75633 Nathan.....903-692-4832
CEDAR PARK #051 PHONE: 512-260-0684 FAX: 512-260-7269		24/7 CONTACTS
Kody King.....KodyKing@elliottelectric.com..... Branch Manager Jacob Raflik.....JacobRaflik@elliottelectric.com..... Operations Manager Host Store: Austin (RDC), TX #064	M-F: 6am-5:30pm Sat: 8am-Noon	300 East New Hope Road Suite 308 Cedar Park, TX 78613 Kody.....512-567-2927 Jacob.....512-962-0857
CLEBURNE #116 PHONE: 817-202-8933 FAX: 817-202-8998		24/7 CONTACTS
Brady Allen.....BradyAllen@elliottelectric.com..... Branch Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	1820 North Main Street Cleburne, TX 76033 Brady.....817-734-1657
CONROE #069 PHONE: 936-788-6850 FAX: 936-788-8283		24/7 CONTACTS
Jason Renfrow.....JasonRenfrow@elliottelectric.com..... Branch Manager Devin Ray.....DevinRay@elliottelectric.com..... Operations Manager Host Store: Houston (RDC), TX #049	M-F: 7am-5:30pm Sat: 8am-Noon	660 Frazier Commerce Dr. Conroe, TX 77303 Jason.....281-330-0070 Devin.....936-232-8111
CORSICANA #031 PHONE: 903-872-9696 FAX: 903-872-9980		24/7 CONTACTS
Patrick McGuire.....PatrickMcGuire@elliottelectric.com..... Branch Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	1732 South Business 287 Corsicana, TX 75110 Patrick.....903-641-2993
DALLAS (EAST) #006 PHONE: 214-503-7227 FAX: 214-503-9766		24/7 CONTACTS
Lance Knight.....LanceKnight@elliottelectric.com..... Branch Manager Carley Camp.....CarleyCamp@elliottelectric.com..... Operations Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 6am-5:30pm Sat: 8am-Noon	3737 Grader Street, Suite #120 Garland, TX 75041 Lance.....972-333-8618 Carley.....903-240-9638

References
NEW ADDRESS



Store Information: Texas

Texas (cont.)

	DALLAS/FORT WORTH (RDC) #034 PHONE: 972-206-0016 FAX: 972-352-2818	24/7 CONTACTS
	Doug BlevinsDougBlevins@elliottelectric.com.....Area Manager M-F: 7am-5:30pm 13405 Stemmons Freeway Taylor KulovitzTaylorKulovitz@elliottelectric.com..... Area Operations Manager Sat 8am-Noon Farmers Branch, TX 75234	Doug214-497-2562 Taylor469-688-6178
	DALLAS (WEST) #018 PHONE: 214-351-0785 FAX: 972-241-1564	24/7 CONTACTS
	Lance KnightLanceKnight@elliottelectric.com..... Branch Manager M-F: 7am-5:30pm 13405 Stemmons Freeway Mark NewcombMarkNewcomb@elliottelectric.com.....Operations Manager Sat 8am-Noon Farmers Branch, TX 75234 Host Store: Dallas/Fort Worth (RDC), TX #034	Lance972-333-8618 Mark562-332-8925
	DEER PARK #130 PHONE: 281-220-3780 FAX: 713-740-6104	24/7 CONTACTS
	Steve KingSteveKing@elliottelectric.com.....Operations Manager M-F: 7am-5:30pm 3700 Pasadena Fwy Sat 8am-Noon Pasadena, TX 77503	Steve832-580-0055
	DENTON #019 PHONE: 940-381-9070 FAX: 940-380-0325	24/7 CONTACTS
	Austin FitzgeraldAustinFitzgerald@elliottelectric.com..... Branch Manager M-F: 7am-5:30pm 4221 Mesa Drive Host Store: Dallas/Fort Worth (RDC), TX #034 Sat 8am-Noon Denton, TX 76207	Austin281-415-8757
OPENING SOON!	DRIPPING SPRINGS #173 PHONE: 737-317-5073 FAX: 737-317-5074	24/7 CONTACTS
	Chris PettyChrisPetty@elliottelectric.com Regional Manager M-F: 7am-5:30pm 4955 Bell Springs Rd Unit 9 Host Store: Austin (RDC), TX #064 Sat 8am-Noon Dripping Springs, TX 78620	Chris512-733-7402
	DUMAS #085 PHONE: 806-934-4805 FAX: 806-717-2052	24/7 CONTACTS
	Austin BoydAustinBoyd@elliottelectric.com..... Branch Manager M-F: 7am-5:30pm 110 Success Boulevard Host Store: Amarillo, TX #081 Sat 8am-Noon Dumas, TX 79029	Austin806-930-0510
	ENNIS #044 PHONE: 972-875-3413 FAX: 972-875-3174	24/7 CONTACTS
	Shannon LottShannonLott@elliottelectric.com..... Branch Manager M-F: 7am-5:30pm 711 Lake Bardwell Drive Host Store: Dallas/Fort Worth (RDC), TX #034 Sat 8am-Noon Ennis, TX 75119	Shannon972-217-6006
OPENING SOON!	FORNEY #175 PHONE: 972-210-2783 FAX: 972-210-2784	24/7 CONTACTS
	Doug BlevinsDougBlevins@elliottelectric.com.....Area Manager M-F: 7am-5:30pm 10524 W US Hwy 80 Host Store: Dallas/Fort Worth (RDC), TX #034 Sat 8am-Noon Forney, TX 75126	Doug214-497-2562
	FORT STOCKTON #087 PHONE: 432-336-8730 FAX: 432-336-3279	24/7 CONTACTS
	Cassandra SanchezCassandraSanchez@elliottelectric.com.....Operations Manager M-F: 7am-5:30pm 1308 North Nelson Street Host Store: Odessa, TX #066 Sat 8am-Noon Fort Stockton, TX 79735	Cassandra432-290-6609
	FORT WORTH (EAST) #025 PHONE: 682-647-1594 FAX: 682-647-1528	24/7 CONTACTS
	Cody SearsCodySears@elliottelectric.com Branch Manager M-F: 7am-5:30pm 6312A Airport Freeway Juan AlvaradoInsidesales25B@elliottelectric.com.....Operations Manager Sat 8am-Noon Fort Worth, TX 76117 Host Store: Dallas/Fort Worth (RDC), TX #034	Cody817-271-9614 Juan469-508-2037
	FORT WORTH (WEST) #121 PHONE: 817-560-0585 FAX: 817-560-0723	24/7 CONTACTS
	Cody SearsCodySears@elliottelectric.com Branch Manager M-F: 7am-5:30pm 9651 Camp Bowie W. Boulevard Scott EwingScottEwing@elliottelectric.com.....Operations Manager Sat 8am-Noon Fort Worth, TX 76116 Host Store: Dallas/Fort Worth (RDC), TX #034	Cody817-271-9614 Scott817-538-4131
	GAINESVILLE #083 PHONE: 940-612-1388 FAX: 940-612-1499	24/7 CONTACTS
	John CarrJohnCarr@elliottelectric.com Branch Manager M-F: 7am-5:30pm 1725 East Highway 82 Host Store: Dallas/Fort Worth (RDC), TX #034 Sat 8am-Noon Gainesville, TX 76240	John940-395-4124
	GALENA PARK #017 PHONE: 713-675-6700 FAX: 713-675-6777	24/7 CONTACTS
	Joe HernandezJoeHernandez@elliottelectric.com..... Branch Manager M-F: 7am-5:30pm 1915 Turning Basin Jose LopezJoseLopez@elliottelectric.comOperations Manager Sat 8am-Noon Suite 500 Host Store: Deer Park, TX #130 Houston, TX 77029	Joe281-840-8922 Jose832-641-3686
	GALVESTON #100 PHONE: 409-741-0072 FAX: 409-741-0433	24/7 CONTACTS
	Anthony PardueAnthonyPardue@elliottelectric.com Branch Manager M-F: 7am-5:30pm 6510 Broadway Street Host Store: Deer Park, TX #130 Sat 8am-Noon Galveston, TX 77554	Anthony346-278-8349
	GEORGETOWN #136 PHONE: 737-444-2615 FAX: 737-444-2617	24/7 CONTACTS
	Kody KingKodyKing@elliottelectric.com..... Branch Manager M-F: 6am-5:30pm 2450 NE Inner Loop, Building 1 Brady CrenwelgeBradyCrenwelge@elliottelectric.comOperations Manager Sat 8am-Noon Georgetown, TX 78626 Host Store: Austin (RDC), TX #064	Kody512-567-2927 Brady512-971-2625

References





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Store Information: Texas

Texas (cont.)

GRANBURY #050 PHONE: 817-573-0675 FAX: 817-573-0776		24/7 CONTACTS
Brady Allen.....BradyAllen@elliottelectric.com.....Branch Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	4510 East Highway 377 Granbury, TX 76049
		Brady.....817-734-1657
GREENVILLE #011 PHONE: 903-454-3354 FAX: 903-454-8926		24/7 CONTACTS
Chad Oats.....ChadOats@elliottelectric.com.....Branch Manager Eric McCormack.....EricMcCormack@elliottelectric.com.....Operations Manager Host Store: Tyler, TX #002	M-F: 7am-5:30pm Sat: 8am-Noon	2805 Poplar Avenue Greenville, TX 75401
		Chad.....214-908-7716 Eric.....903-366-6328
HARLINGEN #142 PHONE: 956-622-4123 FAX: 956-622-4124		24/7 CONTACTS
Hugo De Hoyos.....HugoDeHoyos@elliottelectric.com.....Operations Manager Host Store: McAllen, TX #144	M-F: 7am-5:30pm Sat: 8am-Noon	720 S Lewis Ln Harlingen, TX 78552
		Hugo.....956-354-1885
HENDERSON #005 PHONE: 903-657-1517 FAX: 903-657-0253		24/7 CONTACTS
Jana Pace.....JanaPace@elliottelectric.com.....Operations Manager Host Store: Nacogdoches, TX #001	M-F: 7am-5:30pm Sat: Closed	802 West Main Street Henderson, TX 75652
		Jana.....936-554-7921
HEREFORD #090 PHONE: 806-364-1529 FAX: 806-364-1540		24/7 CONTACTS
Payton Coldiron.....PaytonColdiron@elliottelectric.com.....Branch Manager Host Store: Amarillo, TX #081	M-F: 7am-5:30pm Sat: 8am-Noon	401 E. 2nd Street Hereford, TX 79045
		Payton.....806-223-6933
HOUSTON (NORTHWEST) #108 PHONE: 713-462-9901 FAX: 713-462-4509		24/7 CONTACTS
Todd Pistor.....ToddPistor@elliottelectric.com.....Branch Manager Host Store: Houston (RDC), TX #049	M-F: 7am-5:30pm Sat: 8am-Noon	7929 N Sam Houston Pkwy W Houston, TX 77064
		Todd.....281-635-8310
HOUSTON (RDC) #049 PHONE: 281-345-1143 FAX: 281-345-7697		24/7 CONTACTS
Greg Fitzgerald.....GregFitzgerald@elliottelectric.com.....Regional Manager Jason Nevill.....JasonNevill@elliottelectric.com.....Area Operations Manager Brian Combs.....BrianCombs@elliottelectric.com.....Area Manager	M-F: 7am-5:30pm Sat: 8am-Noon	7929 N Sam Houston Pkwy W Houston, TX 77064
		Greg.....832-689-7460 Jason.....281-989-9322 Brian.....713-927-4812
HUMBLE #033 PHONE: 281-548-0169 FAX: 281-548-0198		24/7 CONTACTS
Jason Renfrow.....JasonRenfrow@elliottelectric.com.....Branch Manager Eddie Martinez.....EddieMartinez@elliottelectric.com.....Operations Manager Host Store: Deer Park, TX #130	M-F: 7am-5:30pm Sat: 8am-Noon	1550 Wilson Road Humble, TX 77338
		Jason.....281-330-0070 Eddie.....832-741-1847
HUNTSVILLE #010 PHONE: 936-439-0658 FAX: 936-439-9182		24/7 CONTACTS
Quentin Risner.....QuentinRisner@elliottelectric.com.....Branch Manager Host Store: Houston (RDC), TX #049	M-F: 7am-5:30pm Sat: On Call 8-Noon	402 Hwy 190 East Huntsville, TX 77340
		Quentin.....936-554-0313
JACKSONVILLE #015 PHONE: 903-586-2904 FAX: 903-586-5271		24/7 CONTACTS
Joshua Thornhill.....JoshuaThornhill@elliottelectric.com.....Branch Manager Host Store: Nacogdoches, TX #001	M-F: 7am-5:30pm Sat: 8am-Noon	2202 East Rusk Street Jacksonville, TX 75766
		Joshua.....903-809-3836
JASPER #032 PHONE: 409-489-0056 FAX: 409-489-0059		24/7 CONTACTS
Richard Barnhart.....RichardBarnhart@elliottelectric.com.....Branch Manager Host Store: Nacogdoches, TX #001	M-F: 7am-5:30pm Sat: 8am-Noon	430 South Fletcher Street Jasper, TX 75951
		Richard.....409-594-9164
KATY #038 PHONE: 281-828-2012 FAX: 281-828-2512		24/7 CONTACTS
Phillip Bragg.....PhillipBragg@elliottelectric.com.....Branch Manager Host Store: Houston (RDC), TX #049	M-F: 7am-5:30pm Sat: 8am-Noon	1722 Primewest Parkway Katy, TX 77449
		Phillip.....832-428-1823
KENEDY #119 PHONE: 830-299-4593 FAX: 830-583-9886		24/7 CONTACTS
Ross Wendele.....RossWendele@elliottelectric.com.....Branch Manager Host Store: San Antonio (RDC), TX #073	M-F: 7am-5:30pm Sat: 8am-Noon	475 Boardwalk Kenedy, TX 78119
		Ross.....254-285-8565
KERRVILLE #082 PHONE: 830-896-9240 FAX: 830-896-9244		24/7 CONTACTS
Chadd Smart.....ChaddSmart@elliottelectric.com.....Branch Manager Host Store: San Antonio (RDC), TX #073	M-F: 7am-5:30pm Sat: 8am-Noon	1200 Water Street Kerrville, TX 78028
		Chadd.....830-708-9926
KILGORE #013 PHONE: 903-984-8485 FAX: 903-984-8193		24/7 CONTACTS
Jeffrey Lester.....JeffreyLester@elliottelectric.com.....Branch Manager Host Store: Longview, TX #016	M-F: 7am-5:30pm Sat: 8am-Noon	1207 Energy Drive Kilgore, TX 75662
		Jeffrey.....903-985-3478

NEW STORE!

NEW ADDRESS

NEW ADDRESS

References



Store Information: Texas

Texas (cont.)

KILLEEN #048		PHONE: 254-554-5958	FAX: 254-554-8423	24/7 CONTACTS
Kellen Ducey KellenDucey@elliotelectric.com Branch Manager DJ McHarry DJMcHarry@elliotelectric.com Operations Manager Host Store: Austin (RDC), TX #064		M-F: 7am-5:30pm Sat: 8am-Noon	2501 South Fort Hood Street Killeen, TX 76542	Kellen 254-458-2204 DJ 254-291-0674
LANCASTER #158		PHONE: 469-913-1947	FAX: 469-913-1948	24/7 CONTACTS
Santiago Martinez SantiagoMartinez@elliotelectric.com Branch Manager Store: DFW (RDC), TX #034		M-F: 6:30am-5pm Sat: 8am-Noon	1810 North Interstate 35 E Lancaster, TX 75134	Santiago 469-600-0488
LEAGUE CITY #056		PHONE: 281-833-5333	FAX: 281-833-5334	24/7 CONTACTS
Raymond Gutierrez RaymondGutierrez@elliotelectric.com Branch Manager Brian Combs BCombs@elliotelectric.com Area Manager Host Store: Deer Park, TX #130		M-F: 7am-5:30pm Sat: 8am-Noon	1135 Butler Road League City, TX 77573	Raymond 713-505-4860 Brian 713-927-4812
LONGVIEW #016		PHONE: 903-757-8491	FAX: 903-758-0441	24/7 CONTACTS
Jerry Camp JerryCamp@elliotelectric.com Area Manager Steve Coots SteveCoots@elliotelectric.com Operations Manager		M-F: 7am-5:30pm Sat: 8am-Noon	1500 West Cotton Street Longview, TX 75604	Jerry 903-557-0963 Steve 903-720-4327
LUBBOCK #110		PHONE: 806-698-6329	FAX: 806-698-6805	24/7 CONTACTS
Keetha Lucero KeethaLucero@elliotelectric.com Operations Manager Keagan McDermott KeaganMcDermott@elliotelectric.com Host Manager		M-F: 7am-5:30pm Sat: 8am-Noon	6112 42nd Street Lubbock, TX 79407	Keetha 806-241-5629 Keagan 806-831-1755
LUFKIN #022		PHONE: 936-632-9733	FAX: 936-632-9736	24/7 CONTACTS
Michael Cates MichaelCates@elliotelectric.com Branch Manager Host Store: Nacogdoches, TX #001		M-F: 7am-5:30pm Sat: 8am-Noon	2001 Atkinson Drive Lufkin, TX 75901	Michael 936-675-0880
MANSFIELD #071		PHONE: 682-518-7272	FAX: 682-518-7255	24/7 CONTACTS
Jonathan Castillo JonathanCastillo@elliotelectric.com Operations Manager Host Store: Dallas/Fort Worth (RDC), TX #034		M-F: 7am-5:30pm Sat: 8am-Noon	1501 Heritage Pkwy, Suite 101 Mansfield, TX 76063	Jonathan 469-765-7354
MARBLE FALLS #036		PHONE: 830-693-9910	FAX: 830-693-0544	24/7 CONTACTS
Orion Barry OrionBarry@elliotelectric.com Branch Manager Host Store: Austin (RDC), TX #064		M-F: 7am-5:30pm Sat: 8am-Noon	608 Industrial Boulevard Marble Falls, TX 78654	Orion 512-525-4380
MARSHALL #008		PHONE: 903-935-9535	FAX: 903-935-3490	24/7 CONTACTS
Eric Sparks EricSparks@elliotelectric.com Branch Manager Host Store: Longview, TX #016		M-F: 7am-5:30pm Sat: 8am-Noon	210 Veterans Avenue Marshall, TX 75672	Eric 318-751-5923
MCALLEN #144		PHONE: 956-331-2410	FAX: 956-331-2411	24/7 CONTACTS
Lance Shelley LanceShelley@elliotelectric.com Branch Manager Danny Almanza DanielAlmanza@elliotelectric.com Operations Manager		M-F: 7am-5:30pm Sat: 8am-Noon	1701 North Jackson, Suite E McAllen, TX 78501	Lance 512-656-0084 Danny 956-890-0650
MCKINNEY #043		PHONE: 972-542-1196	FAX: 972-542-2279	24/7 CONTACTS
Jenny Martin JenniferMartin@elliotelectric.com Branch Manager Rich Correia RichCorreia@elliotelectric.com Operations Manager Host Store: Dallas/Fort Worth (RDC), TX #034		M-F: 7am-5:30pm Sat: 8am-Noon	427 Metro Park Drive McKinney, TX 75071	Jenny 214-725-4983 Rich 469-323-5290
MIDLAND #062		PHONE: 432-685-3108	FAX: 432-685-3706	24/7 CONTACTS
Braulio Bueno BraulioBueno@elliotelectric.com Operations Manager Johnny Busick JohnnyBusick@elliotelectric.com Branch Manager Host Store: Odessa, TX #066		M-F: 7am-5:30pm Sat: 8am-Noon	1001 South Goode Street Midland, TX 79701	Braulio 432-847-7678 Johnny 432-967-2059
MINERAL WELLS #095		PHONE: 940-325-5503	FAX: 940-325-5544	24/7 CONTACTS
Lee Robinson LeeRobinson@elliotelectric.com Branch Manager Host Store: Dallas/Fort Worth (RDC), TX #034		M-F: 7am-5:30pm Sat: 8am-Noon	201 North East 20th Avenue Mineral Wells, TX 76067	Lee 817-597-0847
MOUNT PLEASANT #021		PHONE: 903-577-7311	FAX: 903-577-7320	24/7 CONTACTS
Robert Daniel RobertDaniel@elliotelectric.com Branch Manager Host Store: Tyler, TX #002		M-F: 7am-5:30pm Sat: 8am-Noon	1121 West 16th Street Mt. Pleasant, TX 75455	Robert 903-440-0907
NACOGDOCHES #001		PHONE: 936-569-7941	FAX: 936-560-4685	24/7 CONTACTS
Jerry Camp JerryCamp@elliotelectric.com Area Manager Allen Watson AllenWatson@elliotelectric.com Operations Manager		M-F: 7am-5:30pm Sat: 8am-Noon	2310 North Stallings Drive Nacogdoches, TX 75964	Jerry 903-557-0963 Allen 936-552-1122

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Store Information: Texas

Texas (cont.)

NAC LIGHTING SHOWROOM #161 PHONE: 936-585-8641 FAX: 936-585-8642				24/7 CONTACTS
Susan Hardesty SusanHardesty@elliottelectric.com Showroom Manager Host Store: Nacogdoches, TX #001	M-F: 7am-5:30pm Sat: 8am-Noon	2310 North Stallings Drive Nacogdoches, TX 75964	Susan 936-240-9320	
NEW BRAUNFELS #060 PHONE: 830-626-6880 FAX: 830-626-8075				24/7 CONTACTS
Tyler Petty TylerPetty@elliottelectric.com Branch Manager Host Store: San Antonio RDC, TX #073	M-F: 7am-5:30pm Sat: 8am-Noon	212 Lucinda Drive New Braunfels, TX 78130	Tyler 512-750-1645	
ODESSA #066 PHONE: 432-366-0008 FAX: 432-366-6045				24/7 CONTACTS
Johnny Busick JohnnyBusick@elliottelectric.com Branch Manager James Mezell JamesMezell@elliottelectric.com Area Manager	M-F: 7am-5:30pm Sat: 8am-Noon	5617 Andrews Highway Odessa, TX 79762	Johnny 432-967-2059 James 325-660-1730	
PALESTINE #007 PHONE: 903-723-2141 FAX: 903-723-1451				24/7 CONTACTS
Craig Surginer CraigSurginer@elliottelectric.com Branch Manager Host Store: Nacogdoches, TX #001	M-F: 7am-5:30pm Sat: 8am-Noon	1620 Highway 155 Palestine, TX 75803	Craig 936-222-8466	
PAMPA #140 PHONE: 806-665-0433 FAX: 806-665-1002				24/7 CONTACTS
Brad Anderson BradAnderson@elliottelectric.com Branch Manager Host Store: Amarillo, TX #81	M-F: 7am-5:30pm Sat: 8am-Noon	1620 Alcock Street Pampa, TX 79065	Brad 405-820-7732	
PARIS #039 PHONE: 903-784-1916 FAX: 903-784-0107				24/7 CONTACTS
Brian Monk BrianMonk@elliottelectric.com Branch Manager Steven Tillery StevenTillery@elliottelectric.com Operations Manager Host Store: Tyler, TX #002	M-F: 7am-5:30pm Sat: 8am-Noon	3315 Park Place Paris, TX 75462	Brian 903-348-3524 Steven 903-517-3612	
PEARLAND #041 PHONE: 281-412-7049 FAX: 281-412-7314				24/7 CONTACTS
Raymond Gutierrez RaymondGutierrez@elliottelectric.com Branch Manager Chester Pitman ChesterPitman@elliottelectric.com Operations Manager Brian Combs BrianCombs@elliottelectric.com Area Operations Manager Host Store: Deer Park, TX #130	M-F: 7am-5:30pm Sat: 8am-Noon	3520 S Sam Houston Parkway E Suite 900 Houston, TX 77047	Raymond 713-505-4860 Chester 832-622-8749 Brian 713-927-4812	NEW ADDRESS
PEARSALL #127 PHONE: 830-334-5353 FAX: 830-334-5757				24/7 CONTACTS
Julian Garcia JulianGarcia@elliottelectric.com Branch Manager Host Store: San Antonio RDC, TX #073	M-F: 7am-5:30pm Sat: 8am-Noon	1910 Business Interstate 35E Pearsall, TX 78061	Julian 210-213-5622	
PECOS #117 PHONE: 432-445-1472 FAX: 432-445-1474				24/7 CONTACTS
Taylor Russell TaylorRussell@elliottelectric.com Branch Manager Reese Etter ReeseEtter@elliottelectric.com Area Operations Manager Host Store: Odessa, TX #066	M-F: 7am-5:30pm Sat: 8am-Noon	166 Raul Florez Boulevard Pecos, TX 79772	William 903-456-1387 Reese 817-937-5078	
PLAINVIEW #096 PHONE: 806-296-5518 FAX: 806-291-0839				24/7 CONTACTS
Chris Courtney ChrisCourtney@elliottelectric.com Branch Manager Keagan McDermott KeaganMcDermott@elliottelectric.com Host Manager Host Store: Lubbock, TX #110	M-F: 7am-5:30pm Sat: Closed	2509 West 5th Street Plainview, TX 79072	Chris 806-518-4970 Keagan 806-831-1755	
PLANO #078 PHONE: 469-467-7771 FAX: 469-467-0282				24/7 CONTACTS
Jenny Martin JenniferMartin@elliottelectric.com Branch Manager Host Store: Dallas/Fort Worth (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	2700 Summit Avenue, Suite 200 Plano, TX 75074	Jenny 214-725-4983	
PLEASANTON #088 PHONE: 830-569-3390 FAX: 830-569-3608				24/7 CONTACTS
Justin McCrary JustinMcCrary@elliottelectric.com Branch Manager Host Store: San Antonio RDC, TX #073	M-F: 7am-5:30pm Sat: 8am-Noon	2569 East Highway 97 Pleasanton, TX 78064	Justin 210-882-2755	
PROSPER #163 PHONE: 469-899-3981 FAX: 469-899-3982				24/7 CONTACTS
Dalton Ledford DaltonLedford@elliottelectric.com Operations Manager Host Store: DFW (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	700 Industry Way Suite 10 Prosper, TX 75078	Dalton 817-403-9477	
ROCKWALL #077 PHONE: 469-913-1945 FAX: 469-913-1946				24/7 CONTACTS
Lance Knight LanceKnight@elliottelectric.com Branch Manager Ryan Belden RyanBelden@elliottelectric.com Operations Manager Host Store: DFW (RDC), TX #034	M-F: 7am-5:30pm Sat: 8am-Noon	1510 East Interstate 30 Rockwall, TX 75087	Lance 972-333-8618 Ryan 903-456-6423	

References



Store Information: Texas

Texas (cont.)

ROUND ROCK #029		PHONE: 512-246-8001	FAX: 512-246-8002	24/7 CONTACTS
Kody King KodyKing@elliottelectric.com Branch Manager Steve Winters StevenWinters@elliottelectric.com Operations Manager Host Store: Austin (RDC), TX #064		M-F: 6am-5:30pm Sat: 8am-Noon	445 Texas Avenue Round Rock, TX 78664	Kody512-567-2927 Steve505-315-8090
SAN ANGELO #063		PHONE: 325-944-7321	FAX: 325-944-1579	24/7 CONTACTS
Brent Ogden BrentOgden@elliottelectric.com Branch Manager Host Store: Abilene, TX #058		M-F: 7am-5:30pm Sat: Closed	3448 Sherwood Way San Angelo, TX 76901	Brent325-277-5487
SAN ANTONIO (NORTH) #129		PHONE: 210-646-6950	FAX: 210-826-1197	24/7 CONTACTS
Danny Rodriguez DannyRodriguez@elliottelectric.com Branch Manager Host Store: San Antonio RDC, TX #073		M-F: 7am-5:30pm Sat: 8am-Noon	9707 Broadway Street San Antonio, TX 78217	Danny210-863-7997
SAN ANTONIO (RDC) #073		PHONE: 210-646-6950	FAX: 210-646-6192	24/7 CONTACTS
Brandon Hatch BrandonHatch@elliottelectric.com Operations Manager Chris Petty ChrisPetty@elliottelectric.com Regional Manager		M-F: 7am-5:30pm Sat: 8am-Noon	9707 Broadway Street San Antonio, TX 78217	Brandon210-204-9983 Chris512-789-2679
SAN ANTONIO (SOUTH) #061		PHONE: 210-522-0146	FAX: 210-522-0732	24/7 CONTACTS
Jason Pintirsch JasonPintirsch@elliottelectric.com Branch Manager Host Store: San Antonio RDC, TX #073		M-F: 7am-5:30pm Sat: 8am-Noon	5300 Bandera Road Leon Valley, TX 78238	Jason210-421-2804
SAN MARCOS #098		PHONE: 512-392-4310	FAX: 512-392-4390	24/7 CONTACTS
Adam Parker AdamParker@elliottelectric.com Branch Manager Host Store: Austin (RDC), TX #064		M-F: 7am-5:30pm Sat: 8am-Noon	1904 Dutton Drive San Marcos, TX 78666	Adam512-999-8383
SHERMAN #097		PHONE: 903-892-8041	FAX: 903-892-8907	24/7 CONTACTS
Jenny Martin JenniferMartin@elliottelectric.com Branch Manager Kenda Flowers KendaFlowers@elliottelectric.com Operations Manager Host Store: Dallas/Fort Worth (RDC), TX #034		M-F: 7am-5:30pm Sat: 8am-Noon	4509 Texoma Parkway Sherman, TX 75090	Jenny214-725-4983 Kenda903-357-3076
SPRING #157		PHONE: 832-626-1994	FAX: 832-626-1995	24/7 CONTACTS
Mike Baumann MikeBaumann@elliottelectric.com Branch Manager Host Store: Houston (RDC), TX #049		M-F: 7am-5:30pm Sat: 8am-Noon	21330 Inverness Forest Blvd. Houston, TX 77073	Mike281-851-2482
STAFFORD #065		PHONE: 281-879-4911	FAX: 281-879-8596	24/7 CONTACTS
Raul Gutierrez RaulGutierrez@elliottelectric.com Branch Manager Mando Rodarte MandoRodarte@elliottelectric.com Operations Manager Host Store: Houston (RDC), TX #049		M-F: 7am-5:30pm Sat: 8am-Noon	10650 West Airport, Suite 100 Stafford, TX 77477	Raul832-287-0511 Mando281-961-2633
STEPHENVILLE #084		PHONE: 254-965-8083	FAX: 254-968-2662	24/7 CONTACTS
Ross Neel RossNeel@elliottelectric.com Branch Manager Trae Dowell Traedowell@elliottelectric.com Operations Manager Host Store: Dallas/Fort Worth (RDC), TX #034		M-F: 7am-5:30pm Sat: 8am-Noon	1035 South Graham Street Stephenville, TX 76401	Ross325-660-4658 Trae817-304-7620
SULPHUR SPRINGS #004		PHONE: 903-885-0024	FAX: 903-885-0352	24/7 CONTACTS
Brian Monk BrianMonk@elliottelectric.com Branch Manager Brian Singleton BSingleton@elliottelectric.com Operations Manager Host Store: Tyler, TX #002		M-F: 7am-5:30pm Sat: 8am-Noon	1220 Elm Street Sulphur Springs, TX 75482	Brian M903-348-3524 Brian S903-348-7300
SWEETWATER #093		PHONE: 325-236-6381	FAX: 325-236-6186	24/7 CONTACTS
James Mezell JamesMezell@elliottelectric.com Area Manager Host Store: Abilene, TX #058		M-F: 7am-5:30pm Sat: Closed	2311 East Broadway Street Sweetwater, TX 79556	James325-660-1730
TEMPLE #072		PHONE: 254-899-2800	FAX: 254-899-2805	24/7 CONTACTS
Kellen Ducey KellenDucey@elliottelectric.com Branch Manager Jimmy Shanks JimmyShanks@elliottelectric.com Operations Manager Host Store: Austin (RDC), TX #064		M-F: 7am-5:30pm Sat: 8am-Noon	2703 Hancock Drive Temple, TX 76504	Kellen254-458-2204 Jimmy254-228-6982
TERRELL #026		PHONE: 972-563-2224	FAX: 972-563-2227	24/7 CONTACTS
Chad Oats ChadOats@elliottelectric.com Branch Manager Ryan Hamilton RyanHamilton@elliottelectric.com Operations Manager Host Store: Tyler, TX #002		M-F: 7am-5:30pm Sat: 8am-Noon	1300 Highway 34 South Terrell, TX 75160	Chad214-908-7716 Ryan469-628-7985





ELLIOTT ELECTRIC SUPPLY

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Store Information: Texas

Texas (cont.)

TEXARKANA #030 PHONE: 903-223-6400 FAX: 903-223-6700				24/7 CONTACTS
Brad Lloyd.....BradLloyd@elliottelectric.com.....Host Manager	M-F: 7am-5:30pm	800 Old Boston Road	Brad.....870-904-5469	
Kirk Echols.....KirkEchols@elliottelectric.com.....Area Operations Manager	Sat: 8am-Noon	Texarkana, TX 75501	Kirk.....870-557-1955	
TOMBALL #028 PHONE: 281-357-5300 FAX: 281-357-5005				24/7 CONTACTS
Mike Baumann.....MikeBaumann@elliottelectric.com.....Branch Manager	M-F: 7am-5:30pm	201 South Persimmon Street	Mike.....281-851-2482	
Fred Tristan.....FredTristan@elliottelectric.com.....Operations Manager	Sat: 8am-Noon	Tomball, TX 77375	Fred.....713-562-6626	
Host Store: Houston (RDC), TX #049				
TYLER #002 PHONE: 903-509-9882 FAX: 903-509-9832				24/7 CONTACTS
Jerry Camp.....JerryCamp@elliottelectric.com.....Area Manager	M-F: 7am-5:30pm	3706 Frankston Highway	Jerry.....903-557-0963	
Dean Ogden.....RichardOgden@elliottelectric.com.....Operations Manager	Sat: 8am-Noon	Tyler, TX 75701	Dean.....903-714-4203	
UVALDE #103 PHONE: 830-278-1938 FAX: 830-278-1395				24/7 CONTACTS
Shane Davenport.....ShaneDavenport@elliottelectric.com.....Branch Manager	M-F: 7am-5:30pm	17 Lou Stroup Drive	Shane.....830-591-8555	
Host Store: San Antonio RDC, TX #073				
WACO #042 PHONE: 254-752-3331 FAX: 254-752-3460				24/7 CONTACTS
Kellen Ducey.....KellenDucey@elliottelectric.com.....Branch Manager	M-F: 7am-5:30pm	3325 Clay Avenue	Kellen.....254-458-2204	
Brandon Carter.....BrandonCarter@elliottelectric.com.....Operations Manager	Sat: 8am-Noon	Waco, TX 76711	Brandon.....254-722-5969	
Host Store: Austin (RDC), TX #064				
WAXAHACHIE #009 PHONE: 972-937-6965 FAX: 972-937-6968				24/7 CONTACTS
Allan Creamier.....AllanCreamier@elliottelectric.com.....Branch Manager	M-F: 6:30am-5pm	706 Solon Road	Allan.....210-861-6377	
Host Store: Dallas/Fort Worth (RDC), TX #034				
WEATHERFORD #052 PHONE: 817-599-7964 FAX: 817-599-8289				24/7 CONTACTS
Lee Robinson.....LeeRobinson@elliottelectric.com.....Branch Manager	M-F: 7am-5:30pm	1830 Barnett Drive	Lee.....817-597-0847	
Host Store: Dallas/Fort Worth (RDC), TX #034				
WICHITA FALLS #113 PHONE: 940-257-6832 FAX: 940-257-6833				24/7 CONTACTS
Chris Hillen.....ChrisHillen@elliottelectric.com.....Operations Manager	M-F: 7am-5:30pm	903 Mississippi Avenue	Chris.....940-631-5111	
Host Store: Dallas/Fort Worth (RDC), TX #034				

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