

Exterior Lighting

Metal Outside Light



PROJECTION: 6"
BULBS: One 60W (not included)
UL listed. Black finish.
Use with 280902.

- 280903** Fixture **Only**; 24/Ctn.
280902 Glass Globe **Only**; 48/Ctn.
280901 Hardware

Brass Porch Light



HEIGHT: 13"
PROJECTION: 4-1/2"
BULBS: One 60W (not included)

Solid polished brass with clear, beveled glass panes.

- 284033** 12/Ctn.

Plastic Outside Light



PROJECTION: 5-3/4"
BULBS: One 60W (not included)
UL listed.

- 280904** Black Fixture **Only**
280902 Glass Globe **Only**; 48/Ctn.
280906 White Fixture **Only**
280907 Replacement Hardware

Porch Light



HEIGHT: 17-1/2"
PROJECTION: 8-1/2"
BULBS: One 60W (not included)
MOUNTING BASE: 4-3/4"

- 284034** Black
284035 White

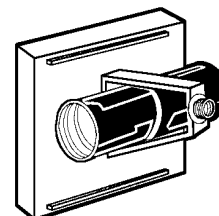
Lite-Guard Security Light



Pre-wired automatic outdoor security light with infrared motion sensor. Covers 50 ft. x 60 ft. —up to 3000 sq. ft. total area. Adjustable angles and sensitivity settings. 300W maximum. Auto shutdown in daylight.

- 280800**

Bathroom Glass Shade & Fixture



White shade and white fixture.

PROJECTION: 4-1/4" LENGTH: 14" BULBS: Two 60W (not included)

- 284039** Shade; 12/Ctn.

- 284040** Base; 48/Ctn.

Strip Light

Fixture only.



- 284041** Brass, 24" Long, Takes 4 Bulbs (Not Included)
284042 Chrome. 30" Long, Takes 5 Bulbs (Not Included)

Wall Mount Fixtures



(Shade and bulb not included)

Brass Arm

PROJECTION: 6"
HEIGHT: 8"
FINISH: Polished brass
BULB: One 60W
NECK: 2-1/4"

280405

280409 W/Wall Switch

Clear Ribbed Shade



DIAMETER: 4-3/4"
HEIGHT: 4-1/2"
NECK: 2"

280408 Shade Only



Clear Tulip Shade

DIAMETER: 3-1/2"
HEIGHT: 6"
NECK: 2-1/2"
48/Ctn.

280406

Frosted Tulip Shade



DIAMETER: 5-1/2"
HEIGHT: 5-1/4"
NECK: 2-1/2"

284061

Clear Crystal Shade



DIAMETER: 5-5/16"
HEIGHT: 5-1/4"
NECK: 2-1/4"
24/Ctn.

281202

White Globes



284030 Plastic Ribbed, 5"



283701 Smooth 6" Glass

Brass Finish Bullet

Brass-finish, bullet-shaped wall fixture. For bulb, uses one R-20 reflector (not included). All metal with top switch. Can dimensions: 3" x 5-3/8". Swivels. Easy to install. UL listed.

280701



Ceiling Fixtures

Single Bulb Fixture



BASE:
Polished brass-colored.
DEPTH: 1-1/2"
BULBS: Two 60W
(not included)

280403 6" Base; 24/Ctn.

280503 8" Base; 12/Ctn.



White alabaster glass
shade; 5" projection,
6" dia.

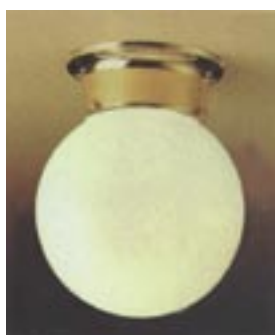
280402 24/Ctn.



Frosted and ribbed glass
shade; 5" projection, 8"
dia.

280502 16/Ctn.

6" Globe & Fixture



Polished brass base, 2" deep x 4-7/8" diameter. Uses one 60W bulb (not included).

280099 Base Only

280098 Base Only With Pull Chain



Smooth white 6" globe.

283701 Glass

Prices and Specifications Subject to Change without Notice



Two-Bulb Fixture

Projects 6", white fixture, uses two 60W (not included).

280103 24/Ctn.

This two bulb ceiling fixture (280103) can be used with any of the following shades:



12" Plastic

White plastic, 5" d x 12" dia.

280404 12/Ctn.



14" Swirl Glass

White w/swirl design. 14 " dia.

280301 12/Ctn.



13" Plastic

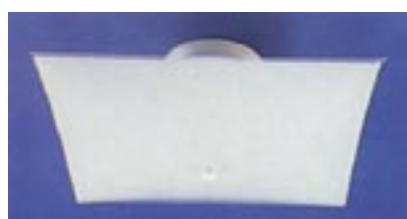
280102 White Plastic;
24/Ctn.



Square Glass

280201 White Patterned,
12" square; 12/Ctn.

Plain Square Glass



280200 Solid White, 12" square; 12/Ctn.

Bath Vents



Lighted Vent Fan

- * Ultra-quiet, U.L. Listed, 115V motor.
- * Vertical exhaust
- * Foam damper for a secure seal when not in operation
- * Simple installation with plug-in motor & lamp, snap-in junction box cover
- * 7" rough opening for 421206 and 421201
- * 50 CFM; 8/Ctn.

421206

#V2244 w/Light



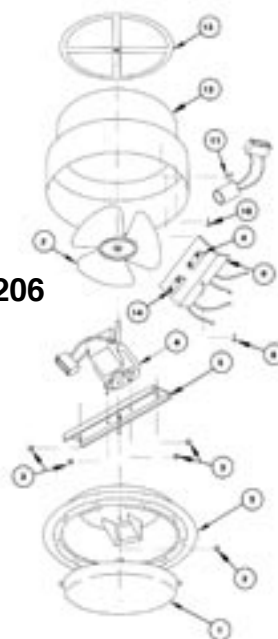
Replacement Parts for 421206

- 421207** Plastic Light Lens (#1)
- 421208** Foam Damper Assembly (#13)
- 421401** Blade Only (#7)
- 421204** Motor BCD0388-00 (#6)

Replacement Parts for Old Style 421206

- 420103** Motor BDC0190 120 VAC W/O Plug

421206



Vent Fan without Light



421201

#V2262-50 w/out Light

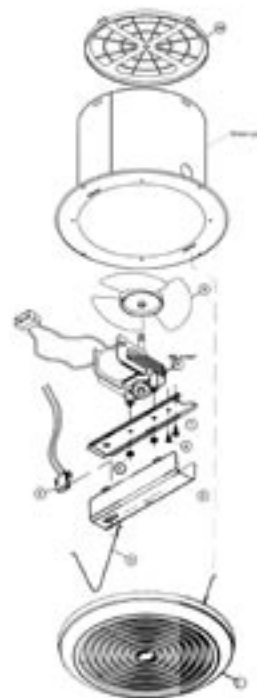
Replacement Parts for 421201

- 421402** Grill & Spring Assembly (#1 & #2)
- 421401** Blade Only (#9)
- 421204** Motor BCD0338-00 (#8)

Replacement Parts for Old Style 421201

- 420103** Motor BDC0190 120 VAC W/O Plug

421201



Hardware and Bulbs

Light Shade Screws



Brass screws for light fixtures.

- 281501** Standard Size w/Smooth Head, Bulk
281505 Small Metric w/Phillips Head; 100/Pk.

Shade Nuts

285026



Acorn Nuts

White plastic; 50/Ctn.

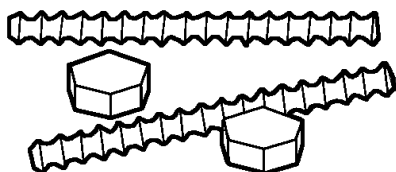
281605



Mounting Hardware

for Indoor Light Fixtures

Two 8/32 cap nuts and two 8/32 x 2" steel studs. Bright brass.



285025

Handy Hint:

Use these templates to the left to identify whether you need a candelabra base or a medium base. The drawings are shown actual size.



Medium



Candelabra



Standard 60 Watt Bulb

Frosted bulbs by Supreme Lighting. Dependable; long-lasting. 60 watt. 120 bulbs per case.

281705

Flame Bulbs

Clear 130-volt. 40W; 25/Ctn.

- 281702** Candelabra Base
281725 Medium Base



Torpedo Bulbs

Clear 130-volt. 25W; 25/Ctn.

- 281701** Candelabra Base
281726 Medium Base

Vanity Bulbs

- 281710** 3", 60W
281709 3", 40W



Ceiling Fans



A great way to increase comfort and energy efficiency.

- 52" diameter
- 3-speed pull chain
- Reversing switch
- Polished brass accents
- Low wattage consumption
- Lubricated sealed ball bearings

Ceiling Fan with Tulip Light Kit

52" ceiling fan with three tulips lights. Silicon steel motor. Limited lifetime warranty. Motor size: 153 x 12. Triple capacitor, 3-speed reversible, dual mount, five blades, 12 degree pitch.

284065 Walnut & Polished Brass

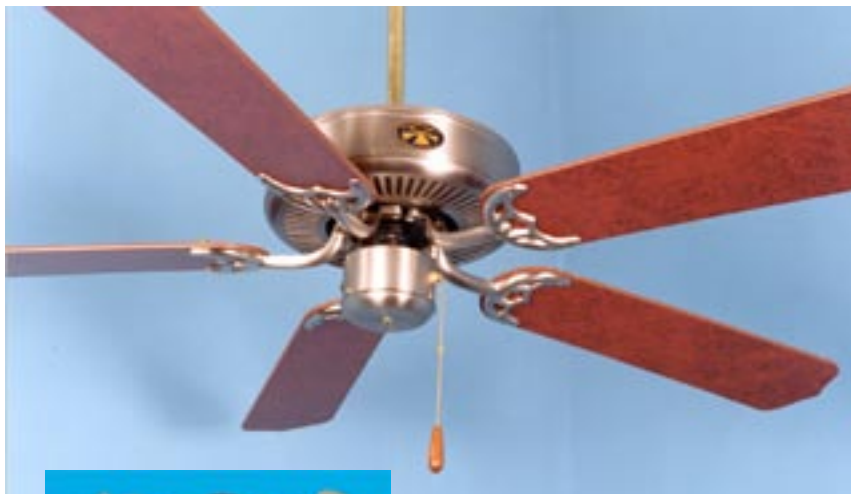
284070 White



Ceiling Fan

52" ceiling fan, Cherry finish blades with pewter accents and silicon steel motor. Limited lifetime warranty. Motor size: 153 x 12. Triple capacitor, 3-speed reversible, dual mount, five blades, 12 degree pitch.

284075



Tulip Light Kit

Pewter finish and frosted shades.

284076

Replacement Tulip Shades



Frosted. 36/Ctn.

284061

Wall Plates



Single Switch Plate

222301 Ivory; 250/Ctn.
222303 White; 250/Ctn.
222302 Brown; 250/Ctn.



Duplex Receptacle Plate

222601 Ivory; 250/Ctn.
222603 White; 250/Ctn.
222602 Brown; 250/Ctn.

Midi Switch Plate

For larger
boxes: 3-1/8"
W x 4-7/8" H.



222304 Ivory; 100/Ctn.
222295 White; 100/Ctn.
222305 Brown; 100/Ctn.

Midi Receptacle Plate

For larger outlet boxes: 3-1/8" W x
4-7/8" H for single gang. 100/Ctn.



221203 Ivory
221205 White
221204 Brown

Double Switch Plate

4-15/16" W x 4-7/8" H.
100/Ctn.



222300 Ivory
222299 White

Single Blank

225005 White; 100/Ctn.
225006 Brown; 100/Ctn.
225007 Ivory; 100/Ctn.



Double Blank

225008 Brown; 50/Ctn.
225009 White; 50/Ctn.
225010 Ivory; 50/Ctn.

Decorator Plate

Accommodates both decorator
switches & receptacles. Furnished
w/long screws. 100/Ctn.

222308 White
222309 Ivory
222310 Brown



Decorator Switch

Touch-A-Matic single pole w/ground-
ing terminal on E-Z wire device. Sealed
against dust. High endurance.

222311 Ivory; 100/Ctn.
222294 White; 100/Ctn.

Duplex Receptacle

Parallel ground-
ing 15 amp 125V.
UL listed. 100/Ctn.

- 221201** Ivory
221200 White
221202 Brown



Self-Contained Receptacle

Use 14-2/G or 12-2/G
NM cables for in-line
or end-of-line use. UL
listed. 100/Ctn.

- 222326** White
222322 Ivory
222321 Brown



Duplex Receptacle, Single Gang

Universal duplex. U-
bend contact design
for maximum con-
ductivity and plug re-
tention; exceeds UL
standard for abrupt
plug pull-out. UL498
listed.



- 222345** WDRU15IV; Ivory
222347 WDRU15WT; White
222346 Snap-on Ivory Plate
222348 Snap-on White Plate

Self-Contained Rocker Switch



Decorator quiet-touch. Single pole in-line. For
sheet rock 5/16" to 1/2" thick or wall panel-
ing 5/32" to 1/2" thick. Use only nonmetallic
sheathed cable; types NM & MNC having
copper conductors sizes #14 and #12 AWG.
15 amp/120 VAC; 100/Ctn.

- 222315** Ivory
222316 Brown
222329 White

Self-Contained Switch

Use 14-2/G or 12-2/G
NM cables for in-line
or end-of-line use.
UL listed. 100/Ctn.



- 222327** White
222319 Ivory
222320 Brown
222325 Plastic Pawl (Wing)

Self-Contained Receptacle

Single pole in-line.
15A/125V; 100/Ctn.

- 222330** White
222314 Brown
222313 Ivory



Toggle Switch



10-A-125V; 5-A-250V.
1" wide mounting strap.
100/Ctn.

- 221701** Ivory
221702 Brown
221703 White

Ground Fault Interrupter Receptacle



Fits easily into standard
surface flush boxes. Feed-
through ready. UL listed. 15
amp 125V at receptacle 20
amp 125V feed-through.
10/Ctn.

- 222889** White
222891 Ivory

Snap-On Plates

Use w/self-contained rocker switches
#222315,
#222316,
#222313,
#222314. 100/Ctn.



SINGLE

222318 Ivory
222317 Brown
222331 White

DOUBLE

222324 Ivory
222323 Brown
222332 White

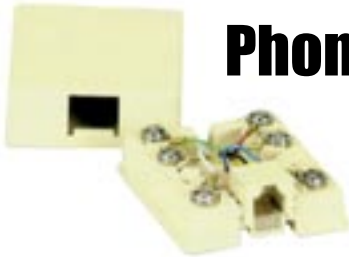
Snap-On Receptacle Wallplates

Side snaps assure proper alignment; quick to install. No screws to lose. Virtually unbreakable thermo-plastic. Smooth surface for easy cleaning. Single gang.



222346 WPRUIV, Ivory
222348 WPRUWT, White

Phone Jack

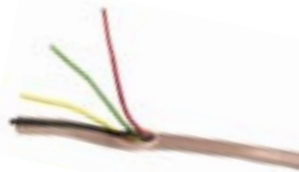


Surface mount, snap cover for neat appearance with prewired combination head screw terminals. For surface mount onto baseboards, walls and other flat surfaces. Self-tapping mounting screws and adhesive pad provided. 4 conductor in almond.

222820

Phone Wire

220315 1000'; Bulk



Wall Boxes

Single-Gang

Plastic. OD: 1-3/4" D, 3-3/4" H, 2-3/8" W. Ears securely molded to box.

221103 W/Ears
221105 W/Ears & Swing Bracket
222325 Plastic Wings (Pawls)
222328 Screws for Wings



Weatherproof Male Motor Base

Three-wire outdoor wire receptacle with snap cover. Parallel grounding motor base. #9991. 50/Ctn.

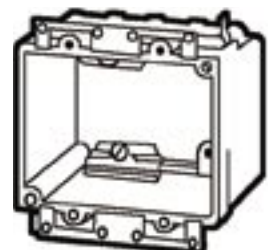
222815



Two-Gang

Plastic. OD: 1-3/4" D, 3-1/4" H, 4-1/16" W. Ears securely molded to box. Wire clamps included; bulk packaged.

221104



Weatherproof Protective Plate

Weatherproofs any conventional or "U" ground duplex receptacle, duplex switch or combination switch/receptacle. Snaps shut with self-sealing rubber gaskets. Indestructible Lexan® polycarbonate. 50/Ctn.

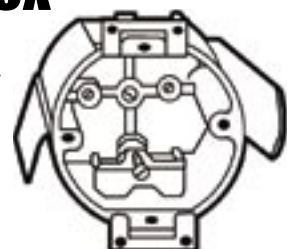
221400 Gray
221405 White



Round Box

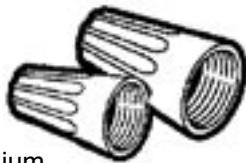
3.5" round outlet box, 2-1/8" diameter w/ high clamps, ears and snap-in bracket which secures box to wall or ceiling.

221106



Bakelite Wire Connector

Easy grip with deep ribs. Tin-plated helical cone spring inside. Ideal for all connections. UL approved for copper or aluminum wire. 100/bag. 50/Ctn.



225001 Small

225000 Medium

Thermostat Wire

20 gauge. UL listed.

220308 2 Wire, 500'

220311 3 Wire, 500'

220310 5 Wire, 250'

220313 8 Wire, 250'



Range Cord

3', 50 amp cord w/three #6 and one #8 conductors with molded cap and terminal plugs. 12/Ctn.

220306



3-Wire Female Plug

15 amp 125V furnished with cord clamp for heavy duty use. Standard plug with parallel prong. UL listed.

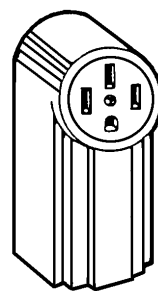
223301 100/Ctn.



3-Wire Male Plug

15 amp 125V thermoplastic rubber, cord dia. .25-.60". UL listed.

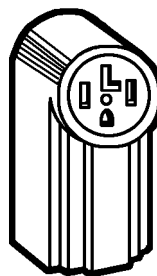
223201



Range Receptacle

4-wire, 50 amp, 125/250-volt range receptacle with "Quick-Lok" terminals. 50/Ctn.

224201



Dryer Receptacle

4-wire, 30 amp, 125/250-volt dryer receptacle with "Quick-Lok" terminals. 50/Ctn.

224301

Temporary Adapter

50 AMP, 125/250 volt. 20 amp, 125 volt. AD-50-20; 10/Ctn.

Adapts this:

To this:



220301

MH 4-Wire Dryer Cord



Round rubber jacketed wire, molded-on plug. Black 4-wire 4' for mobile homes, 30 amp. 12/Ctn.

220307

Cartridge Fuses

Made with Rosin core solder. 250 volts. UL listed. 10 per box. 60 Amp; 50/Ctn.

221006



Non Tamp Fuse

Base shape prevents insertion of the wrong ampage. Thermal element provides time lag temporary overload by starting of appliance motors. Regular short-circuit protection. 4 per box.

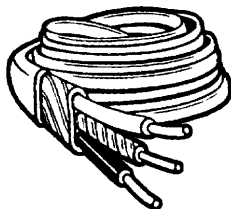
220801 15 Amp; 125/Ctn.

220802 20 Amp; 125/Ctn.



Cables & Conduits

Non-Metallic Sheathed Cable



- Uncoated copper conductors ASTM B-3
- Insulated w/Cresin-90 PVC compound, color coded
- Two conductors are parallel w/ground wire & paper separator
- Three conductors twisted with cable fillers and wrapped ground wire to form round core
- Smooth 30 mil. PVC jacket

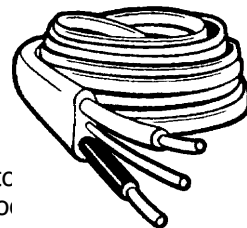
Both with ground. Materials, test and construction in accordance with NSI/UL 719 and Federal Specification J-C-30A.

220425 8-2 NM, 125'

220427 12-2 NM, 250'

220424 10-2 NM, 250'

Underground Feeder Cable



- 10-2 UF w/ground, 250'
- Solid copper 2 or 3 conductors
- 90° PVC insulation, color-coded insulated conductors & bare ground laid parallel
- 600 volts
- Sunlight-resistant PVC jacket compound

Materials, test & construction in accordance with NSI/UL 493 and Federal Specification J-C-30A.

220426

Liquidtight Flexible Non-Metallic Conduit

For electrical applications outside or inside, including transformer connections, air conditioning and heating. Joins with metallic or non-metallic connectors. Easy to cut, impact and chemical resistant; will not kink or fracture.



220408 1/2" x 100'

220432 3/4" x 100'

Liquidtight Non-Metallic Elbow Fitting

Plastic elbow for use with non-metallic Liquidtight conduit, type B. Provides smooth connection, no sharp edges to strip wires so that wiring pulls through easily.



220431 1/2"

220434 3/4"

Liquidtight Non-Metallic Straight Connector



For use with non-metallic Liquidtight conduit, type B. Provides smooth connection, no sharp edges to strip wires so that wiring pulls through easily.

220430 1/2" Plastic

220433 3/4" Plastic

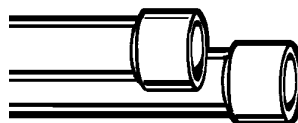
Convenience Kit

1/2" x 4' THHN wire with non-metallic connectors for easy A/C hookup. 90° connector is removable. Straight connector not included. 6/Ctn.



220405 10 Gauge

220410 8 Gauge



PVC Conduit

220441 3/4" x 10'

Disconnect Switches



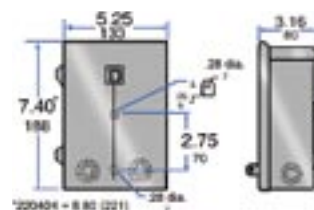
Pull-Out Style Disconnect Switches

Not-fusible and fusible, NEMA TYPE 3R — Outdoor 240Vac, Single-phase, 2 wire with ground. Convenient knockout provisions on the side, back and bottom for maximum flexibility. Side-hinged doors for easy access and installation. Positive pull-out head contact for a durable, long-lasting electrical connection. Pull-out head storages in "OFF" position. Mounting slot for prehanging during installation. Metallic style is rugged, long-life galvanized steel with power coat. Non-metallic is made of durable polymer for long-lasting protection against harsh elements.



METALLIC					
Part #	Description	HP Max	Line	Load	Equip. Grounding Terminals Al/Cu
220406	60 Amp, Not-Fusible	10	#14-#3	#14-#3	(2) #14-#4
220407	30 Amp, Fusible	3	#14-#3	#14-#6	(2) #14-#4
220404	60 Amp, Fusible	10	#14-#3	#14-#3	(2) #14-#4

METALLIC

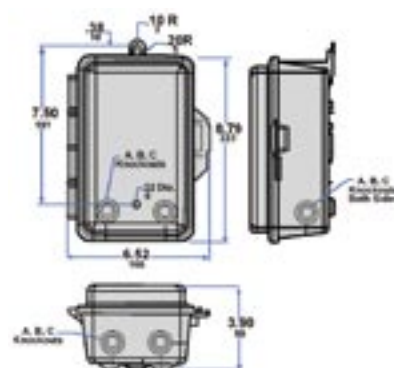


NON-METALLIC					
Part #	Description	HP Max	Line	Load	Equip. Grounding Terminals Al/Cu
220400	60 Amp, Fusible ¹	10	#14-#3	#14-#3	(6) #14-#4
220409	60 Amp, Not-Fusible ²	3	#14-#3	#14-#3	(6) #14-#4

¹ Suitable for use on systems with up to 10K RMS symmetrical amperes available fault current at 240 VAC.

² Does not contain overcurrent protection. Suitable for use on systems with up to 10K RMS symmetrical amperes available fault current at 240 Vac when protected by a fuse or circuit breaker rated 60 Amperes or less.

NON-METALLIC

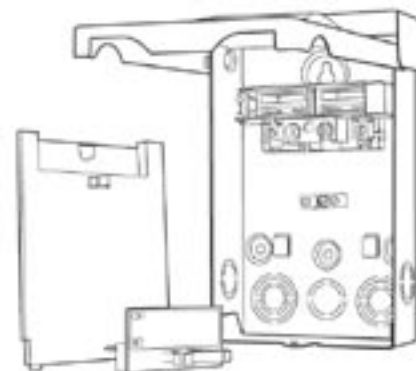


Cutler-Hammer Non-Fused Pull-Out Style Disconnect Switches

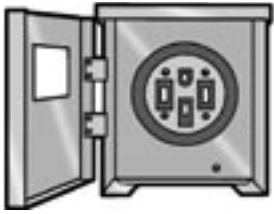
- ON/OFF control provided by pullout handle
- Pullout handle can be conveniently stored in the compartment in the OFF position, helping to prevent the handle from being misplaced.
- Protective shield cannot be removed until the pullout handle is removed, disconnecting the power.

220500 60 Amp Non-Fused Metal

NEW!



50 Amp Electric Box



Height: 6". Width: 5.25". Depth: 4.5". Hub: 1.25". One S-54 50A-125/250V 4-wire receptacle.

220403 4/Ctn.



Homeline Main Load Center



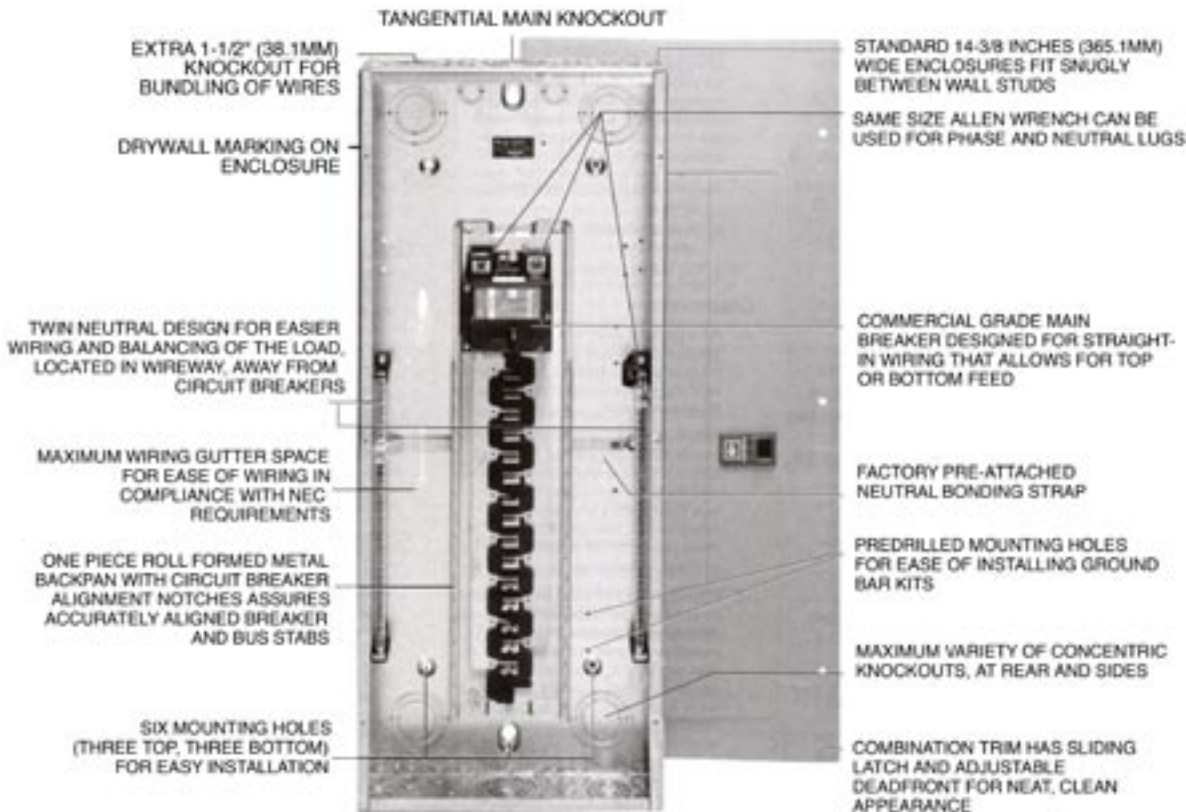
Rainproof, 10,000 RMS symmetrical amperes short circuit rating. Factory-installed main breaker with feed-thru lugs. 200 Ampere rating (when using copper wire). 8 spaces with a maximum of 16 single pole circuits and 8 tandem circuit breakers. Main wire size: #4-250.

220417 200 A Load Center

220418 2" Hub for 220417

Cutler Hammer 200 Amp Main Load Center

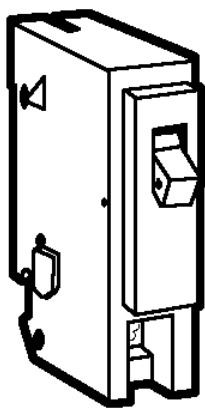
NEW!



Outdoor enclosure. 1 Phase - 3 Wire, 200 amp load center with 8 spaces and 16 circuits for BW10kAIC breakers. Wire size range Cu/Al 60°C or 75°C for main breaker: #2 - 300 kcmil.

220415 200 A Load Center

Circuit Breakers

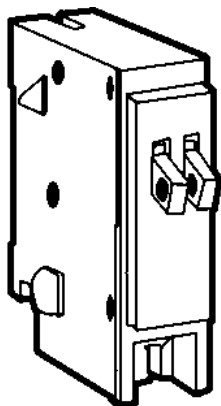


Homeline Circuit Breakers

10,000 Amperes RMS — UL listed Interrupting Rating 120/240Vac. 15-30 Ampere breakers are suitable for use with 60°C or 75°C conductors. 40-125 Ampere breakers are suitable for use with 75°C conductors.

- | | | | |
|---------------|-------------------------------|---------------|-------------------------------|
| 220977 | 15 Amp, 1 Pole ◆▲ | 220982 | 20 Amp, 1 Pole ◆▲ |
| 220979 | 20 Amp, 2 Pole, Common Trip ◆ | 220980 | 30 Amp, 2 Pole, Common Trip ◆ |
| 220981 | 40 Amp, 2 Pole, Common Trip ◆ | 220983 | 50 Amp, 2 Pole, Common Trip ◆ |
| 220984 | 60 Amp, 2 Pole, Common Trip ◆ | | |

- ◆ UL listed as SWD (switching duty) rated. Suitable for 120VAC fluorescent lighting loads.
- ▲ UL listed as HACR type for use with air conditioning, heating and refrigeration equipment having motor group combinations and marked for use with HACR type circuit breakers.



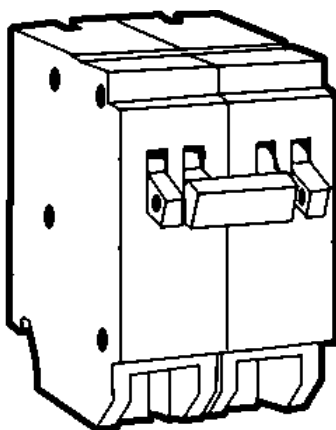
Homeline Tandem Circuit Breakers

10,000 AIR — One Pole Tandem 120/240Vac (one space required). 15-20 Ampere one pole tandem breakers are suitable for use with 60°C or 75°C conductors. 15-30 Ampere two pole tandem breakers are suitable for use with 75°C conductors.

- | | |
|---------------|---------------|
| 220989 | 15 and 20 Amp |
| 220978 | 20 and 20 Amp |
| 220993 | 30 and 15 Amp |



Homeline Quad Tandem Circuit Breakers



10,000 AIR — Two Pole Tandem 120/240Vac (two spaces required). Represents two 1-pole outer poles and one 2-pole inner breaker with common trip.

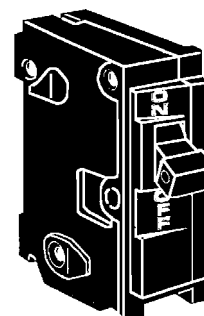
15-20 Ampere one pole tandem breakers are suitable for use with 60°C or 75°C conductors. 15-30 Ampere two pole tandem breakers are suitable for use with 75°C conductors.

- | | |
|---------------|-------------------------------|
| 220986 | Two 20 Amp 1 Pole, 30A 2 Pole |
| 220987 | Two 20 Amp 1 Pole, 40A 2 Pole |
| 220988 | Two 20 Amp 1 Pole, 50A 2 Pole |
| 220994 | Two 15 Amp 1 Pole, 30A 2 Pole |

Circuit Breakers

IMPORTANT NOTE:

In accordance with the National Fire and Safety Acts of 1990, all breakers must match the original manufacturer of the panel that the breaker will be used in. We do not assume any responsibility for installation of any electrical apparatus or the guarantee of the product.



All breakers listed are 240V AC, UL listed, C.S.A. approved.

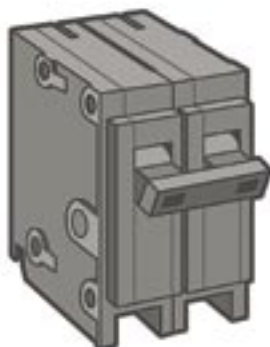
NEW!

Size	# of Poles	AMP	GE	Square D	Westinghouse	Classified Cutler-Hammer	Cutler-Hammer
1"	1	15	220915	220977		220502	
1"	1	20	220916	220982		220503	
1"	1	30	220917			220504	
2"	2	20	220904	220979		220505	220510
2"	2	30	220905	220980	220990	220506	220512
2"	2	40	220906	220981		220507	220513
2"	2	30/20					220520
2"	2	30/40			220992		
2"	2	50	220907	220983			
2"	2	60		220984			
2"	2	100	220908				

G.E. Half Sizes

220925 1/2", 1P/15 Amp
220926 1/2", 1P/20 Amp
220927 1/2", 1P/30 Amp
220928 1/2", 1P/40 Amp
220930 1", 2P/30 Amp
220931 1", 2P/40 Amp

NEW!



Cutler-Hammer UL Classified Circuit Breakers

*Fits virtually **any** panel!*

Understanding Classified Breaker Terminology:

SPECIFIED CIRCUIT BREAKER:

Each manufacturer lists the brands of circuit breakers that can be used in their panel boards. Often, manufacturers will not list competitors as "specified," even though they are suitable replacements.

UL CLASSIFIED BREAKER:

A breaker that is considered suitable by Underwriters Laboratory for use in the place of a specified breaker.

LISTED BREAKER:

According to the NEC, the listing of a product is by an independent third party. Cutler-Hammer Classified Breakers are listed by UL.

LABELED BREAKER:

A breaker with a label affixed by an independent third party.

Fits virtually any panel, so you can streamline your inventory!

Extensively tested for safety and performance

Meets all code acceptance regulations governed by the National Electric Code (NEC) and Underwriters Laboratories, Inc.

Why carry up to seven other brands when the industry's most reputable brand, Cutler-Hammer, is all you need?

Virtually eliminates the need to carry any other manufacturer's circuit breakers because these breakers are Classified as direct replacements by Underwriters Laboratories, Inc., and come with an outstanding 15 year warranty.

Designed and tested to be both mechanically and electrically interchangeable with circuit breakers manufactured by GE, Thomas & Betts, ITE/Siemens, Murray, Crouse-Hinds and Square D.

UL Classified breakers are produced by one manufacturer for use in place of the breakers specified on the panelboard. Like specified breakers, UL Classified breakers have been tested in the panel for which they are approved.

Original panelboard manufacturers may claim that the use of breakers others than those specified voids their warranty. However, the Magnusson-Moss Warranty Act prevents manufacturers from making warranties contingent upon the use of their replacement parts, as long as the third party part is safe. Since the safety has been proven by UL, the panelboard manufacturer's warranty is still effective when you chose a CL or CHQ breaker.

Pipe Protection

EASYHEAT

AHB Electric Pipe Heating Cable

Pre-Assembled Sets For Shelf or Rack Display



STOCK #	120 VOLTS 7 WATTS PER FT
S.O.	3 Foot (1m)
270515	6 Foot (2m)
270516	9 Foot (3m)
270517	12 Foot (4m)
270518	15 Foot (5m)
270519	18 Foot (6m)
270520	24 Foot (7m)
270521	30 Foot (9m)
S.O.	40 Foot (12m)
S.O.	60 Foot (18m)
S.O.	80 Foot (24m)
S.O.	Starter Assortment
S.O.	Med. Assortment
S.O.	Jumbo Assortment

Freeze protection on metal and plastic pipe. Complete, ready-to-install system in one compact box. CSA certified and UL listed. 120 VAC, 7 watts/ft., PVC inner insulation. Continuous ground braid, 3-wire grounded cord and plug (24") with weather-resistant PVC outer jacket, moisture-proof snap-action thermostat. "On" at approx. 38° F and "Off" at approx. 45° F.

Easy to Follow Instructions!

Detailed instructions inside every box take your customer through the simple step-by-step installation procedures. Cable runs straight along pipe and valves, held in place by application tape, and plugs into grounded electrical outlet. For odd lengths of pipe over 3/4" in diameter, we recommended two separate cables on opposite sides of the pipe with up to 3' of overrun at center of pipe run. Metal pipe requires 1/2" fiberglass insulation around cable. For plastic pipe, we recommend wrapping pipe with aluminum foil before cable installation.



Pre-Packaged Kits

Kits contain indicated length of Freeze-Free Cable, one fused plug kit, (1) instruction sheet and (1) set of warning labels.

272314 5' Kit; 5/Ctn.

272316 15' Kit; 5/Ctn.



Custom pipe freeze protection at off-the-reel prices! Choose pre-packaged systems or for longer cable needs, just cut off the required length from the reel dispenser and attach plug, packaged separately. Freeze-Free uses a self-regulating conductive core that reacts to changes in temperature, needing no thermostat. Patented fused plug — the same quality connector used by the industry since 1992 — installs in minutes with basic household tools. Approved for use on both plastic and metal to -20° F. UL listed.

Floor Display



100' Display

Display contains 100' feet of cable with a pegboard holder, ten plugs and an attractive header with a supply of application guides. Other Freeze Free items can be added to complete an effective sales center.

272308 100' Display

Cut-to-Length Cable



272305 100' Reel

272306 300' Reel

272304 500' Reel

Fused Plug Kits

- Grounded 30" cord-set requires less heating cable
- Power indicator light shows that power gets to the plug and indicates an intact fuse
- UL System Listed
- Pipe mounting brackets for easy attachment to typical water pipes
- Built-in, fast-reaction fuse
- Easy to install: just insert the cable into the plug and tighten the screws
- Same reliability
- Now supports up to 75 feet of Freeze Free cable



272307 Kit

272317 Kit; Bulk

272310 End Caps, 5/Bag; 10/Ctn.

Thermostat



- 35°F Automatic "On" ■ 45°F Automatic "Off" (approx.)
- Controls any 120 volt heater, heating cables, engine heaters, electric heaters, heat lamps

No special wiring, easy to install—just plug it in. Reduces energy consumption. One outlet with an indicator light to let you know unit is functioning. 1800 watts maximum, 15 amps, 120 volts.

272318

NOTE: USE ON SPECIFIC VOLTAGE ONLY; MAKE SURE ELECTRICAL OUTLET IS NOT OVERLOADED.

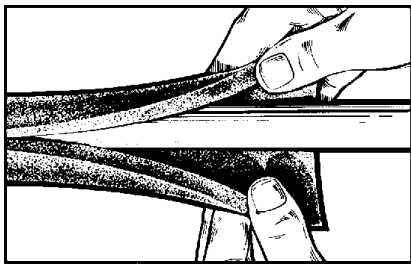
Insulation Kit



Contains one roll of 3" x 25' fiberglass and vinyl outer wrap. Use only with thermostatically controlled units.

270801 24/Ctn.

Permanent Pipe Insulation



Single step foam with half-slit slips easily over pipe. Self-closing, so no tape is needed. Flexible. 6' lengths. 48/Ctn.

270526 3/8" Wall Thickness, 7/8" ID for 3/4" Copper Pipe

270527 3/8" Wall Thickness, 1-1/8" ID for 1" Copper Pipe

270495 1" Wall Thickness, 1-1/8" ID for 1" Copper Pipe (R 6.4)

270802 3" Wall Thickness, 3' Long

270525 1/2" Wall Thickness 6' Long

Installing Freeze Free

How to Determine How Much You Will Need:

Gather the following information:

Pipe size	<i>EXAMPLE</i>
Outside diameter	1-1/2" Pipe
Pipe length	12 feet
Lowest expected air temp (disregard wind chill)	-20°F/-29°C
Number of valves & spigots	1 ball valve
Distance from pipe to outlet	2 feet

Consult the correct chart below. Read down to find your pipe diameter, then read across to the box below your lowest expected temperature. The first number will tell you the length (feet) of cable you need per foot of pipe. The second number indicates the recommended distance between each spiral wrap of cable on the pipe. The abbreviation "str" indicates that the cable should be run in a straight line instead of spiral wrap.

Chart 1 for Plastic Pipes (based on use of 1/2" insulation)

Pipe Dia.	Lowest Expected Temperature				
	+20°F/-7°C	0°F/-18°C	-20°F/-29°C	-40°F/-40°C	-60°F/-51°C
1/2"	1' str	1' str	1.5' 2-3/8"	2' 1-1/2"	2.4' 1-1/4"
3/4"	1' str	1.1' 7-1/4"	1.7' 2-3/8"	2.3' 1-1/2"	2.9' 1-1/4"
1"	1' str	1.3' 5"	2' 2-3/8"	2.7' 1-5/8"	3.3' 1-3/8"
1-1/4"	1' str	1.6' 4-1/4"	2.3' 2-1/2"	3.2' 1-3/4"	4.1' 1-3/8"
1-1/2"	1' str	1.8' 4"	2.5' 2-5/8"	3.6' 1-3/4"	4.7' 1-3/8"
2"	1' str	2.1' 4"	3' 2-5/8"	4.3' 1-3/4"	5.4' 1-1/8"

Chart 2 for Metal Pipes (based on use of 1/2" insulation)

Pipe Dia.	Lowest Expected Temperature				
	+20°F/-7°C	0°F/-18°C	-20°F/-29°C	-40°F/-40°C	-60°F/-51°C
1/2"	1' str	1' str	1' str	1.3' 3-1/8"	1.7' 2"
3/4"	1' str	1' str	1.1' 7-1/4"	1.5' 3"	2' 2"
1"	1' str	1' 5"	1.3' 5"	1.8' 2-3/4"	2.4' 1-7/8"
1-1/4"	1' str	1.1' 11-1/2"	1.6' 4-1/4"	2.1' 2-7/8"	2.9' 1-7/8"
1-1/2"	1' str	1.2' 9"	1.8' 4"	2.4' 2-3/4"	3.2' 1-7/8"
2"	1' str	1.5' 6-5/8"	2.2' 3-3/4"	2.8' 2-7/8"	3.9' 2"

Multiply the cable length required per foot of pipe by the length of your pipe. Add one extra foot for each valve in your line. Maximum cable length is 75 feet. For cable lengths longer than 75 feet, use two cables. Use of longer length may cause the internal fuse to blow.

1. Installing end seal:

- Cleanly cut off the end of the cable.
- Use a pencil or screwdriver to unravel the braid back 1" from the cable end.
- Twist the braid into a tight pigtail
- Tape the braid pigtail back on top of the braided cable.
- Pushing firmly, insert the cable into the end seal all the way (at least 3/4"). Some gel may ooze out. **DO NOT** wipe it off.

DO NOT TWIST THE END SEAL DURING OR AFTER INSERTION. DO NOT REUSE AN END SEAL.

2. Installing the plug:

NEVER ATTEMPT TO MAKE PLUG/END SEAL ASSEMBLY WHILE PLUG IS CONNECTED TO POWER.

Before removing the cover screws, plug the power cord into a known functioning 120 volt power outlet to check the Power Light indicator. If the light is not lit, do not install the cable. Call Easy Heat for technical assistance.

- Unplug the power cord from outlet. Remove 2 cover screws. (Fig. 1)
- Open cover.
- Loosen 2 assembly screws (approx. 1/4") but **DO NOT FULLY REMOVE** them. (See Fig. 2a)
- Cleanly cut 1" off the end of the cable.
- Insert braided cable into assembly screw fixture opening (tunnel). Allow braid to slide back as cable is inserted.
- Push until the yellow jacket is seen from the opening as shown in Fig. 2b.
- The ground braid **MUST NOT** enter the assembly screw fixture opening because of the danger of it contacting one of the assembly screws, which will be live when the system is operational.
- Tighten the two assembly screws until they are both snug against the metal surfaces on top of the assembly screw fixture (5" pounds torque).
- Make sure that the ground braid covering the cable is in contact with the ground strip when plug put back together. This will complete the system's ground circuit. (Fig. 3)
- Close cover and replace cover screws until snug.

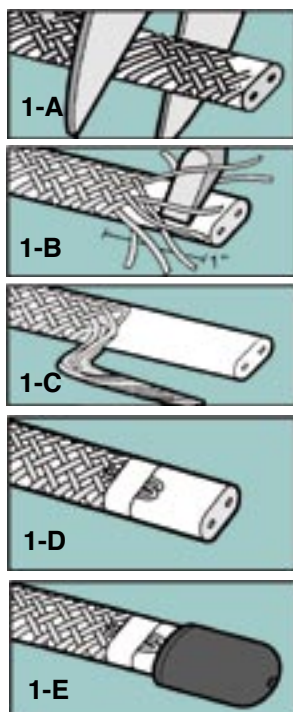


Fig. 1 power light

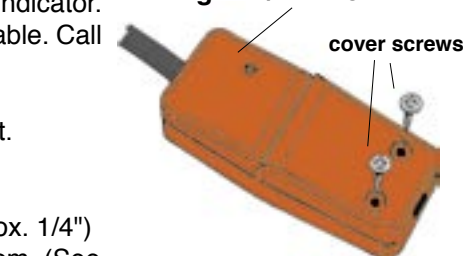


Fig. 2a

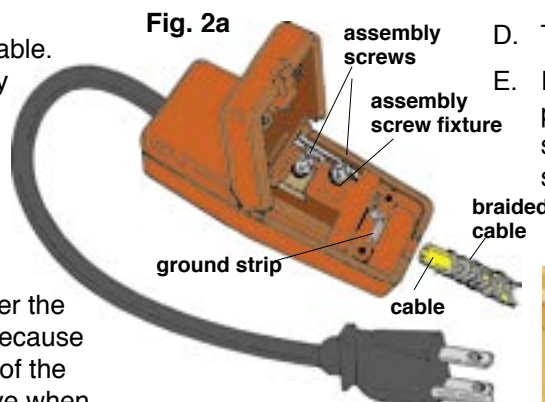
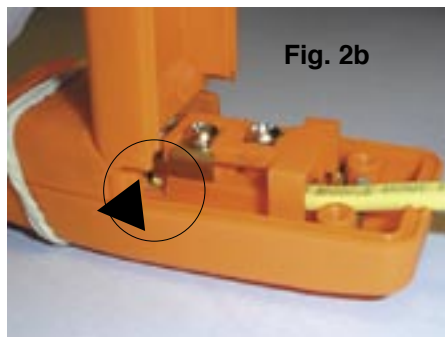
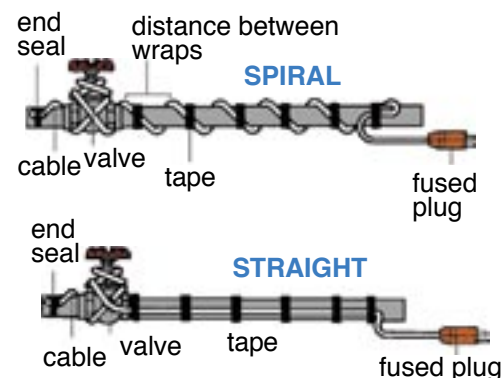


Fig. 2b



3. Attaching cable:

- Mount plug on pipe with plastic wraps provided, within 2 feet of outlet. Start at plug end and run cable in either spiral wrap or straight trace:



Check the chart for required distance between wraps **before** attaching cable to pipe.

- Provide extra heat at spigot and valves by wrapping with one additional foot of cable, overlapping as required.
- Fasten cable tightly to pipe at 6" intervals with tape. If excess cable remains at end of pipe, **DOUBLE IT BACK** along the pipe where insulation will **COMPLETELY** cover it.
- Tape end seal/cable to pipe.
- In a mobile home crock or stand pipe, **NEVER** install cable end seal where it would normally be submerged.



These instructions are provided to give you a basic idea of procedures. Consult the instructions provided with product for full details and warnings.

H-20