Interchangeable Products with an Advantage

Appleton™ Electrical Products
Upgrade your electrical equipment with innovative products that provide superior performance and value.

EMERSON™

The ideal electrical products to get work done – fast and effectively.

Keeping a facility up and running is a huge responsibility. When your equipment fails, do you want a replacement product with the same functionality and reliability? Or do you want something that is better than the equipment that you are replacing? Emerson understands that switching manufactures can often lead to modifications to your electrical installation, adding unwanted maintenance costs. What if you could replace or upgrade your equipment without having to change your electrical requirements?

This means:
✓ Freedom to choose between manufacturers.
✓ Ultimate flexibility in retrofit and maintenance applications.
✓ Improved stock availability – you no longer need to rely on a single-source manufacturer.
✓ The exclusive benefits of epoxy powder coat finish that come standard on all Appleton™ coated products.

Expand your options. Meet all your application needs with our Appleton line of 21,000 electrical products. Contact us about your specific requirements at 800-621-1506 or locate a representative in your area at www.appletonelec.com.

Products engineered and certified to deliver unparalleled results for any electrical job, indoors or outdoors.

Products with an Advantage

Innovative Solutions to Industry Problems

✓ Interchangeable with corresponding Crouse-Hinds™ products and are UL Classified
✓ Unique features and benefits that provide superior performance and value
✓ Functionally equivalent to many standard products

Interchangeable

✓ FM7 Bodies, Covers, Gaskets
✓ FM8 Bodies, Covers, Gaskets
✓ FM9 Bodies, Covers, Gaskets
✓ Powertite Plugs and Receptacles
✓ U-Line Plugs and Receptacles
✓ WSR and WSRD Interlocked Receptacles and Powertite Plugs
✓ Contender CPS Receptacles and CPP516 Plug
✓ Division 1 and 2 Contender Control Stations
✓ EBR and JBR Receptacles and Powertite Plugs
✓ FSQC Interlocked Receptacles and Powertite Plugs
✓ Contender LED Series Luminaires

Innovative

✓ Epoxy Powder Coat Finish
✓ Mercmaster LED (Family)
✓ Areamaster™ Generation 2 LED Flood Luminaires
✓ Baymaster™ LED High Bay Luminaires
✓ Rigmaster™ Linear LED Series
✓ A-51™ LED Luminaires
✓ PlexPower™ Panelboards
✓ PlexPower Motor Starters
✓ Plugs and Receptacles
✓ N1/N2 Nonmetallic Series
✓ Expanded Fill Sealoffs
✓ Conduit Bodies (rollers)
✓ D2P and EWP Panelboards
✓ GR with GRTB Terminal Strip
✓ Quad-Lead™ bolts (starters, breakers, panelboards)

Functionally Equivalent

✓ Unions
✓ Sealing Fittings
✓ Flexible Couplings
✓ GR (GUA) Boxes
✓ FS/FD Boxes
✓ TMC2/TMCX/TMC2X MC Fittings
✓ Conduit Fittings
✓ Conveyor Switches
✓ Junction Boxes

Superior Design
World leader in explosionproof design

Cutting-Edge Engineering
Innovative new products

Certified Protection
UL Listed and CSA Certified for safety

Unsurpassed Reliability
Focus on quality

Industry Leader
Major supplier to processing industries world wide

Products with an Advantage

Emerson understands that a more robust finish on a product can better protect it from the corrosive conditions where they are installed. This extra protection can extend the life of the product and ensures the integrity of the equipment for the long haul. We use a proprietary finishing technique to protect and seal our Appleton electrical products. This finish and its' advantages come standard on all our coated products, providing superior protection at no extra cost. Epoxy powder coat products last longer, thus reducing callbacks: lowering total installation and operation costs.

The Advantages:

- **Standard on all Appleton coated products.** Enclosures, lighting and many conduit fittings get the epoxy powder coating as the final finishing step.
- **Improved triple coat finish for malleable iron products.** Epoxy powder coating is the third step in our exclusive triple coat finish. These products have the combined advantages of zinc plating, chromate dip and epoxy powder coating.
- **More flexible than paint.** Products are more resistant to mechanical damage since the powder coat finish does not crack or chip like painted surfaces.
- **Environmentally-safe process.** Unlike conventional painting processes, our epoxy powder coat finish is completely environmentally safe. Airborne overspray particulates are nonexistent.
- **Ideal for harsh and corrosive environments.** This finish stands up to harsh and corrosive environments longer. It's the ideal choice for drilling rigs, chemical plants, refineries, pulp and paper plants, and any other demanding application.

UL Listed and CSA Certification Marks

Shows product is tested by UL and meets Standards of Safety for the U.S.	Shows product is tested by CSA and meets Standards of Safety for the U.S.	Shows product is tested by UL and meets applicable standards for Canada.
Shows product is tested by CSA and meets applicable standards for Canada.	Shows product tested by UL to meet U.S. and Canadian Standards.	Shows product tested by CSA to meet U.S. and Canadian Standards.
Shows components tested by UL to meet standards for components only, where some conditions exist, sold in the U.S. and Canada.	Shows components tested by CSA to meet standards for components only, where some conditions exist, sold in the U.S. and Canada.	Shows product tested by UL to intermate with competitors' products.

Contender LED Series Luminaires

Interchangeable

The Appleton Contender LED Series luminaires by Emerson mount directly to the following Crouse-Hinds™ Champ® mounting hoods:

Mounting Hoods	Model Number
Pendant	APM2, APM3
Flexible Pendant	HPM2
Ceiling	CM2, CM3
Wall	TWM2, TWM3
Quad	QM25
25° Stanchion	JM5
Straight Stanchion	PM5

The following Crouse-Hinds™ luminaires utilize these same Champ® mounting hoods
HID and LED VMV Series
HID and Fluorescent DMV Series
HID and LED PVM Series
HID LMV Series

Full-Line Choice

Contender LED Series luminaires are available in three light output levels for retrofit of HID fixtures up to 175 W:

Nominal Lumens	HID Equivalent	Model Number
3300	70-100W	VMV3L
4400	100-150W	VMV4L
5500	150-175W	VMV5L

Nominal lumen value for 5000K CCT, clear glass globe. Detailed lumen information for all globe options available in product catalog pages. Two voltage designations are available: BU – 120-277 Vac, 50/60Hz; or 125-300 Vdc and BH – 347-480 Vac, 50/60Hz. Suitable for use from -40°C to +65°C (-40°F to +149°F).

Contender™ LED Series Features

- Compact, light weight, low profile design is suited for low mounting heights (less than 12 lbs).
- Standard 6 kV surge protection.
- Heavy duty, high temperature silicone rubber gaskets.
- LED reported L70 of over 100,000 hours per IES-LM80.
- Type 4X, IP66/67 rated. Marine Outside Type (Salt Water).
- Luminaire comes pre-wired with 12" of 14 AWG TEW wire from the IP68 watertight NPT hub at the top of the luminaire lid.
- Customize to the application requirements with four different field replaceable globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.

Clear Polycarbonate   *Diffused Polycarbonate*   *Clear Glass*   *Short Prismatic Glass Refractor*

Standard Materials and Finishes
- Luminaire body: cast copperfree (4/10 of 1% max.) aluminum
- All hardware: stainless steel
- Globe: polycarbonate or glass
- Globe and short refractor guard: stainless steel wire
- Reflector: fiberglass reinforced white polyester
- Luminaire bodies: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

Contender LED Luminaire Listed for use with
Champ Mounting Hood

**Appleton
Contender LED**

**Crouse-Hinds™ Champ® Mounting Hood securely
mated directly to Appleton Contender LED Luminaire
without an adapter**

**Crouse-Hinds™
Champ®
Mounting Hoods**

Advantages:
- Seemlessly retrofits to Crouse- Hinds™ Champ® hoods without an adapter
- Three light output levels for retrofit of HID fixtures up to 175 W
- IP68 bushing sealed wiring inlet to prevent water ingress into fixture from conduit
- Rugged housing with superior thermal design translates to long luminaire life

Contender LED Luminaire Series
- cCSAus Listed for use with Crouse- Hinds™ Champ® mounting hood.
- Certificate Number: 70170001
- Master Contract 164460

Retrofit Mounting Hood Adapters

Interchangeability

Appleton Retrofit Mounting Hood Adapters by Emerson allow the end-user to seamlessly retrofit energy efficient, Appleton Mercmaster LED Generation 3, Mercmaster LED Low Profile, and Mercmaster Connect Series luminaires to pre-existing HID mounting hoods.

Features
- Available for use with all Mercmaster LED Generation 3, Mercmaster LED Low Profile and Mercmaster Connect Series hazardous and industrial luminaires.
- Compact adapter design maintains luminaires compact, light weight, low profile for low mounting heights.
- Easy, fast installation with no loose parts.
- Labor savings; no need to pull new wires.
- Casted opening for safety cable connection.
- Standard adapter is compatible with ceiling and pendant mounting hoods:
  — Crouse-Hinds™: APM2, APM3, HPM2, CM2, and CM3
- Offset adapter is compatible with stanchion and wall mounting hoods:
  — Crouse-Hinds™: TWM2, TWM3, JM5, and PM5.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.

Standard Materials and Finishes
- Adapters are cast copperfree (4/10 of 1% max.) aluminum
- Gray epoxy powder coat finish, electrostatically applied for complete uniform protection

Mounting Adapters for Mercmaster LED
Low Profile and Mercmaster LED Generation 3 *(continued)*

Mercmaster
LED Low Profile
Luminaire
Listed for use
with
Pendant/Ceiling
Mounting
Adapter

Pendant/Ceiling Mounting Adapter Listed for use with
Champ Mounting Hood

**Appleton Mercmaster
LED Low Profile
Luminaire**

**Appleton Pendant/
Ceiling Mounting
Adapter**

**Appleton Pendant/Ceiling
Mounting Adapter on
Crouse-Hinds™ Champ®
Mounting Hood**

**Crouse-Hinds™
Champ®
Mounting Hoods**

Mercmaster
LED Low Profile
Luminaire
Listed for use
with
Stanchion/
Wall Mounting
Adapter

Stanchion/Wall Mounting Adapter Listed for use with
Champ Mounting Hood

**Appleton Mercmaster
LED Low Profile
Luminaire**

**Appleton
Stanchion/Wall
Mounting Adapter**

**Appleton Stanchion/Wall
Mounting Adapter on
Crouse-Hinds™ Champ®
Mounting Hood**

**Crouse-Hinds™
Champ®
Mounting Hoods**

Mounting Adapters for Appleton Mercmaster LED Low Profile and Mercmaster LED Generation 3
- cCSAus Listed for use with Crouse- Hinds™ Champ® mounting hood.
- Certificate Number: 70072210
- Master Contract: 164460

PlexPower Factory Sealed Lighting and Power Panelboards

Innovative

The Appleton PlexPower Series panelboards use individual circuit breaker housing that provide explosionproof protection for standard off-the-shelf breakers, eliminating the need for a heavy cast enclosure. Breakers can be easily replaced, upgraded or added in the field with no bolted cover to remove, no need for sealing or rewiring and no danger of compromising flamepath integrity. Component level protection means the panelboard enclosure is lighter, more compact and easier to install.

Features

- Provides indoor and outdoor protection and control of electrical circuits such as lighting, heat trace and power circuits.
- No external conduit or cable seals required thus making installations faster, easier, and less costly.
- Ground-breaking design that uses individual breaker housings to minimize the downtime and costs associated with servicing circuit breakers in hazardous locations.
- Limitless flexibility through horizontal and vertical coupling options.
- Supplied with standard hard drawn, tin plated, copper bus bar for superior corrosion resistance.
- Gland plate at the bottom of enclosure can be easily field punched for cable or conduit entries. Additional gland plates available for sides and top, must be ordered with the panelboard.

Standard Materials

- Enclosures are stainless steel

Breaker Flexibility

- **Rugged Termination.** Each housing connects to the panelboard by means of line terminations designed for unyielding performance through years of heavy vibrations and shocks.
- **Flameproof Enclosure Housing.** Labyrinth joint construction and flame arrestors maintain hazardous location rating while allowing easy disassembly for servicing breakers.
- **Venting Plate.** Unique design of housing allows safe heat dissipation, enabling breakers to maintain their rated amperage while eliminating nuisance tripping.
- **Field Replaceable Components.** Standard, off-the-shelf circuit breakers and fuses are easy to obtain and reduce inventory costs and downtime.
- **Field Replaceable Fuses.** Standard, off-the-shelf fused circuit breakers are easy to obtain and reduce inventory costs and downtime.

PlexPower Lighting and Power Panelboards
- cCSAus Certified: 039199

PlexPower Factory Sealed Contactors and Motor Starters

Innovative

The factory sealed Appleton PlexPower Series contactors and motor starters are quicker and easier to install, operate, upgrade and maintain. The lightweight, modular level protection design, off-the-shelf replaceable components, and quick quarter-turn access latches make PlexPower an ideal solution for hazardous environments looking for a flexible, lightweight alternative to traditional cast and bolted systems.

Features

- No external conduit or cable seals required thus making installations faster, easier, and less costly.
- Ground-breaking design that uses individual breaker, contactor and motor starter housings to minimize the downtime and costs associated with maintenance in hazardous locations.
- PlexPower breakers, contactors and motor starters accommodate non-proprietary off-the-shelf breakers, contactors and motor starters, making replacements readily available from multiple sources.
- The lighter weight contactor and motor starter enclosure with quarter turn latches, can be quickly opened in the field for easier servicing.

Standard Materials

- Enclosures are stainless steel

Breaker Flexibility

- *Rugged Termination.* Each housing connects to the panelboard by means of line terminations designed for unyielding performance through years of heavy vibrations and shocks.
- *Flameproof Enclosure Housing.* Labyrinth joint construction and flame arrestors maintain hazardous location rating while allowing easy disassembly for servicing breakers.
- *Venting Plate.* Unique design of housing allows safe heat dissipation, enabling breakers to maintain their rated amperage while eliminating nuisance tripping.
- *Field Replaceable Components.* Standard, off-the-shelf circuit breakers and fuses are easy to obtain and reduce inventory costs and downtime.

PlexPower Factory Sealed Contactors and Motor Starters
- cCSAus Certified: 70101633

FM7, FM8 and FM9 Unilet Conduit Outlet Bodies

Interchangeability
Appleton FM7, FM8 and FM9 conduit bodies, covers and gaskets by Emerson are completely interchangeable with equivalent Crouse-Hinds™ Form 7, Form 8 and Form 9 conduit bodies and covers. Applications and installation dimensions are also comparable.

Full-Line Choice
Appleton FM7, FM8 and FM9 conduit bodies are offered in a complete range of hub configurations and sizes. FM7, FM8 and FM9 covers are available in stamped steel, stamped aluminum, cast Grayloy™-iron or cast aluminum.

Configurations

| C | E | T | TA | TB |

| L | LB | LL | LR | X |
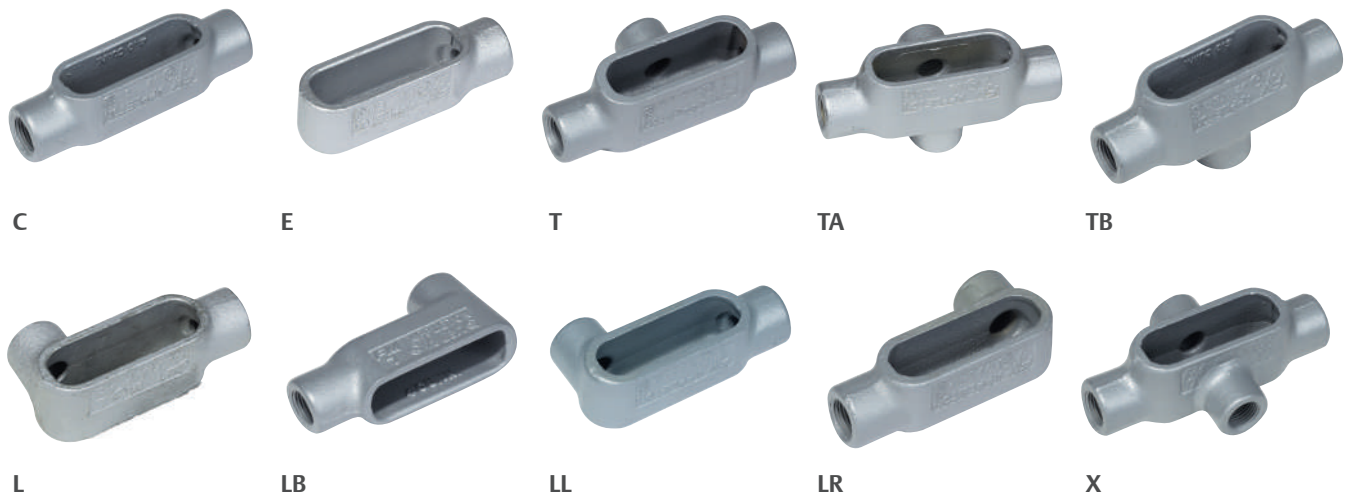
Ease of Use:
❶ FM7 Wedge-Lok clip cover secures with clips instead of screws; no re-tapping of corroded body screw holes make cover removal easy
❷ FM7 and FM8 flat-back designs provide greater cubic capacity for easier wire pulling and more room for splicing
❸ Each cover screw, washer and attached locking clip are held captive in the cover to prevent loss

Flexibility:
❹ Optional Form-In-Place covers with gasket minimize SKU's to order and inventory

Protection:
❺ Covers with gasket provide raintight protection to protect internal wiring
❻ Smooth, rounded, integral bushing in each hub to protect conductor insulation

Appleton™ FM7™ (C57, 1-1/2")
28 Cubic Inches Capacity
Flat-Back Design

Crousse-Hinds Form 7™
(C57, 1-1/2")
26 Cubic Inches Capacity
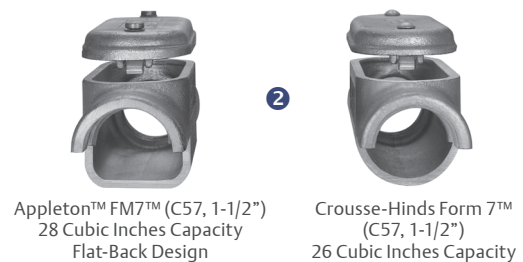
FM7, FM8 and FM9 Unilet Conduit Outlet Bodies (continued)

FM7 Cover and Gasket Classified for use with
Form 7 Conduit Body

FM7 Body
Listed for use with
FM7 Cover and Gasket

FM7 Body Classified for use with
Form 7 Cover and Gasket

**Appleton FM7
Conduit Bodies**

**Appleton FM7
Covers and
Gaskets**

**Crouse-Hinds™
Form 7 Covers
and Gaskets**

**Crouse-Hinds™
Form 7 Conduit
Bodies**

FM8 Cover and Gasket Classified for use with
Form 8 Conduit Body

FM8 Body
Listed for use with
FM8 Cover and Gasket

**Appleton FM8
Conduit Bodies**

**Appleton FM8
Covers and
Gaskets**

**Crouse-Hinds™
Form 8 Covers
and Gaskets**

**Crouse-Hinds™
Form 8 Conduit
Bodies**

FM9 Cover and Gasket Classified for use with
Mark 9 Conduit Body

FM9 Body
Listed for use with
FM9 Cover and Gasket

**Appleton FM9
Conduit Bodies**

**Appleton FM9
Covers and
Gaskets**

**Crouse-Hinds™
Mark 9 Covers
and Gaskets**

**Crouse-Hinds™
Mark 9 Conduit
Bodies**

Advantages:
- Multiple hub configurations
- More wiring room
- Stainless steel screws
- Epoxy powder coat finish

**Appleton Bodies/
Appleton Covers**
- UL Listed
- Listed for Wet Locations
- UL File: E2527 and E167726

**Appleton Bodies/
Crouse-Hinds™ Covers**
- UL Classified for use with Listed
  Crouse-Hinds™ Covers
- Suitable for Wet Locations
- UL File: E167726

**Appleton Covers/
Crouse-Hinds™ Bodies**
- UL Classified for use with Listed
  Crouse-Hinds™ Conduit Bodies
- Suitable for Wet Locations
- UL File: E167726

Powertite Plugs, Connectors and Receptacles

Interchangeability

Powertite plugs, connectors and receptacles, 30 through 100 Amps, comply with UL 1686. This standard describes the contact location, voltage ratings, electrical and mechanical characteristics of pin and sleeve plugs, connectors, and receptacles. Because of this standardization, all manufacturers' devices that conform to these same standards are interchangeable with one another. Appleton Powertite ACP plugs and ADR receptacles are also UL Classified to intermate with Crouse-Hinds™ Arktite® Series plugs, connectors and receptacles

Full-Line Choice

Appleton Powertite plugs, connectors and receptacles are rated 600 Vac, 250 Vdc, 50-600 Hz, and are available in 30, 60, 100, 150, 200, and 400 Amps. Style 1 and 2 grounding are available. Style 1 provides grounding through the shell housing only and Style 2 from the shell housing and an extra pole for dedicated ground. To help prevent connecting devices with different line voltages the special polarization option is available. For backup generator power applications, our reverse service option is available, where the plug is energized and the receptacle is non-energized, only becoming energized when connected with a "live" plug.

Safety:
- ❶ Style 2 extra pole ground strap connected to housing
- ❷ Recessed contacts minimize touching/arcing
- ❸ Longer Style 2 ground pin - contacts first/breaks last

Flexibility:
- ❹ Both NEMA 3 and 4 covers included
- ❺ Multiple sealing bushings and a reversible cable clamp included for a variety of cable diameters
- ❻ Connectors enable extra reach of power when receptacles aren't available

Durability:
- ❼ Weatherproof cover protection
- ❽ NEMA 4X protection: cable clamp tightens on sealing bushing and plug clamping ring threads on receptacle/connector (200 Amp uses wingnuts)
- ❾ Corrosion protection provided by standard epoxy powder coating

Powertite Plugs, Connectors and Receptacles *(continued)*

Powertite Plug Classified for use with
Arktite Receptacle

Powertite Receptacle
Listed for use with
Powertite Plug

Powertite Receptacle Classified for use with
Arktite Plug

**Appleton
Powertite
Receptacles**

**Appleton
Powertite Plugs**

**Crouse-Hinds™
Arktite® Plugs**

**Crouse-Hinds™
Arktite®
Receptacles**
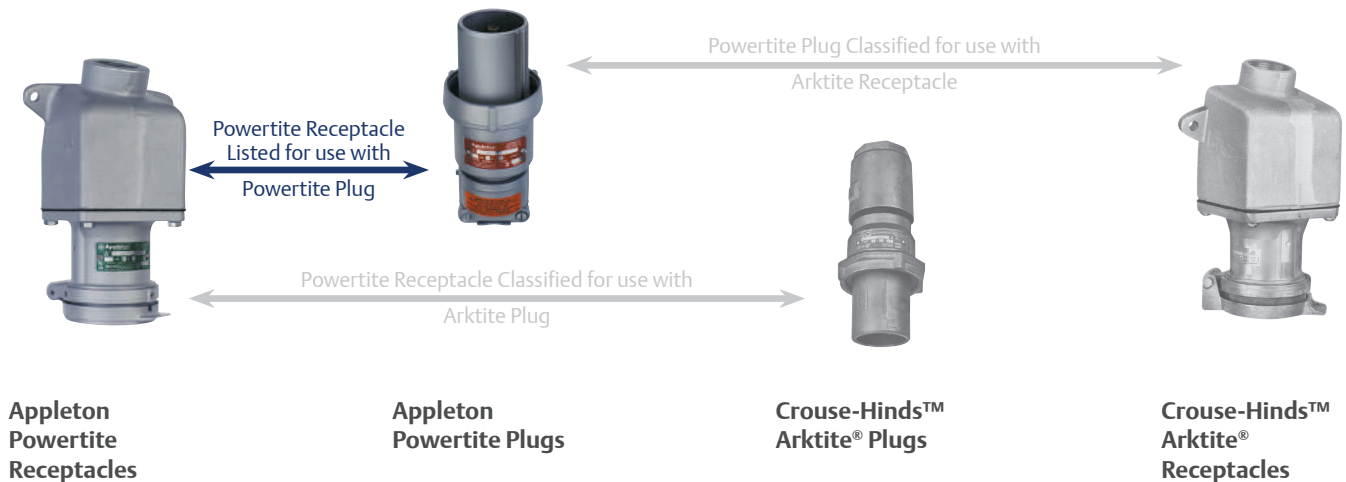
Advantages:

- Spring-loaded and screw cover provided at no extra charge (30 through 150 Amp only)
- Plug cable clamps and bushings permit a wider cable range for increased flexibility (400 Amp not included)
- NEMA 4X (30, 60, 100, 150 and 200 Amp) [1]
- Epoxy powder coat finish as standard

Appleton Plugs/Appleton Receptacles
- UL Listed
- UL File: E145916 and E145917

**Appleton Receptacles/
Crouse-Hinds™ Plugs**
- UL Classified for use with Listed
  Crouse-Hinds™ Arktite® Series Plugs
- UL File: E145962

**Appleton Plugs/
Crouse-Hinds™ Receptacles**
- UL Classified for use with
  Listed Crouse-Hinds™
  Arktite® Receptacles
- UL File: E145962

[1] *NEMA ratings depend on amperage, whether the plug is mated or unmated, the cover design chosen, and how it is fastened when in use. Please reference product catalog pages for details.*

U-Line Plugs and Receptacles

Interchangeability

Appleton U-Line EFS and Contender ENR receptacles are interchangeable with Crouse-Hinds™ ENP plugs of like NEMA blade configurations. Appleton U-Line Contender ENR receptacle covers are UL Classified to mount on Crouse-Hinds™ Ark • Gard® Series EDS mounting boxes. Appleton U-Line ECP and NCP plugs are UL Classified for use with Crouse-Hinds™ Ark • Gard® ENR receptacles and PowerGard® CFS Series receptacles.

Full-Line Choice

Appleton U-Line receptacles are available in 20 Amps, 125 Vac or 250 Vac. They come standard with an aluminum cover and malleable iron mounting box. Aluminum mounting boxes are also available. Standard mounting box selections include either one or two-gang, dead-end or feed-thru hub configurations, and 1/2", 3/4", or 1" hub sizes. For installed mounting boxes, replacement receptacle cover assemblies are available.

Appleton U-Line Interchanger ECP and NCP plugs come standard in 15 or 20 Amps with the choice of aluminum (ECP) or polyester (NCP) body material, and 125 Vac or 250 Vac (20 Amp only).

Safety:
- ❶ Notch rejects plugs with unclassified NEMA blade configurations which could cause arcing in classified locations
- ❷ Twist-lock secures plug in place so it cannot be withdrawn under load

Durability:
- ❸ Spring-loaded cover keeps dust and water out when plug is not in use
- ❹ Gasket seals around plug during use and cover when not in use for maximum ingress protection
- ❺ Stainless steel hardware for increased longevity and ease of maintenance
- ❻ Internal gasket in U-Line plug provides NEMA Type 4 protection

Easy to Wire:
- ❼ Larger terminals provide easier access for faster wiring
- ❽ Standard size screws eliminate need for special tools

ECP and NCP Plug Classified for use with
Ark • Gard ENR Receptacle

U-Line ENR Receptacle
Listed for use with
ECP and NCP Plug

U-Line ENR Receptacle Classified for use with
ENP Plugs

**Appleton U-Line
ENR Receptacles**

**Appleton ECP
and NCP Plugs**

**Crouse-Hinds™
ENP Plugs**

**Crouse-Hinds™
Ark • Gard® ENR
Receptacles**

PowerGard CFS Receptacle Classified for use with
ECP Plug

U-Line EFS Receptacle
Listed for use with
ECP and NCP Plug

U-Line EFS Receptacle Classified for use with
ENP Plugs

**Appleton U-Line
EFS Receptacles**

**Appleton ECP
and NCP Plugs**

**Crouse-Hinds™
ENP Plugs**

**Crouse-Hinds™
PowerGard® CFS
Receptacles**

ENR Receptacle Cover Classified for use with
EDS Mounting Boxes

EDS Mounting Box
Listed for use with
ENR Cover

**Appleton
Contender EDS
Mounting Boxes**

**Appleton ENR
Receptacle
Covers**

**Crouse-Hinds™
ENR Receptacle
Cover**

**Crouse-Hinds™
EDS Mounting
Boxes**

Advantages:
- Exclusive NCP polyester version plug
- EFSB models have separate factory sealed chamber eliminating the need for external seals in Group B applications
- ECP and NCP plugs are NEMA Type 4 rated when unmated
- Lubricant provided with cover assemblies for NEMA 3 protection
- Triple coat finish on all iron products and epoxy powder coat on all aluminum products as standard

Appleton Plugs/ Appleton Receptacles	**Appleton Receptacles/ Crouse-Hinds™ Plugs**	**Appleton ECP Plugs/ Crouse-Hinds™ Receptacles**	**Appleton ENR Receptacle Covers/Crouse-Hinds™ Mounting Boxes**
• UL Listed • UL File: E10784	• UL Classified for use with Listed Crouse-Hinds™ Plugs • UL File: E10784	• UL Classified for use with Listed Crouse-Hinds™ Receptacles • UL File: E10589, E10289 [1]	• UL Listed • UL File: E157407

[1] *Crouse-Hinds UL file E10289: Crouse-Hinds PowerGard CFS receptacles Classified for use with Appleton ECP Series Plugs.*

EBR and JBR Interlocked Receptacles

Interchangeability
Appleton EBR and JBR Series receptacles use standard Appleton Powertite plugs for wide acceptability. UL Classified for use with Crouse-Hinds™ Arktite® plugs.

Full-Line Choice
Unlike other manufacturers, Emerson offers both an interlocked circuit breaker and non-fused disconnect switch mechanism on the Appleton EBR Series. The EBRH disconnect switch version is available in 30, 60 or 100 Amps, and the EBR circuit breaker version up to 150 Amps. The EBR Series is available with Cutler-Hammer™ EHD (480 Vac), FDB (600 Vac), and FD (600 Vac) breakers or equivalent GE breakers. The Appleton JBR Series is available with a non-fused disconnect switch in 30 or 60 Amps. Both the EBR and JBR Series utilize Style 2 (2-wire, 3-pole or 3-wire, 4-pole) grounding styles.
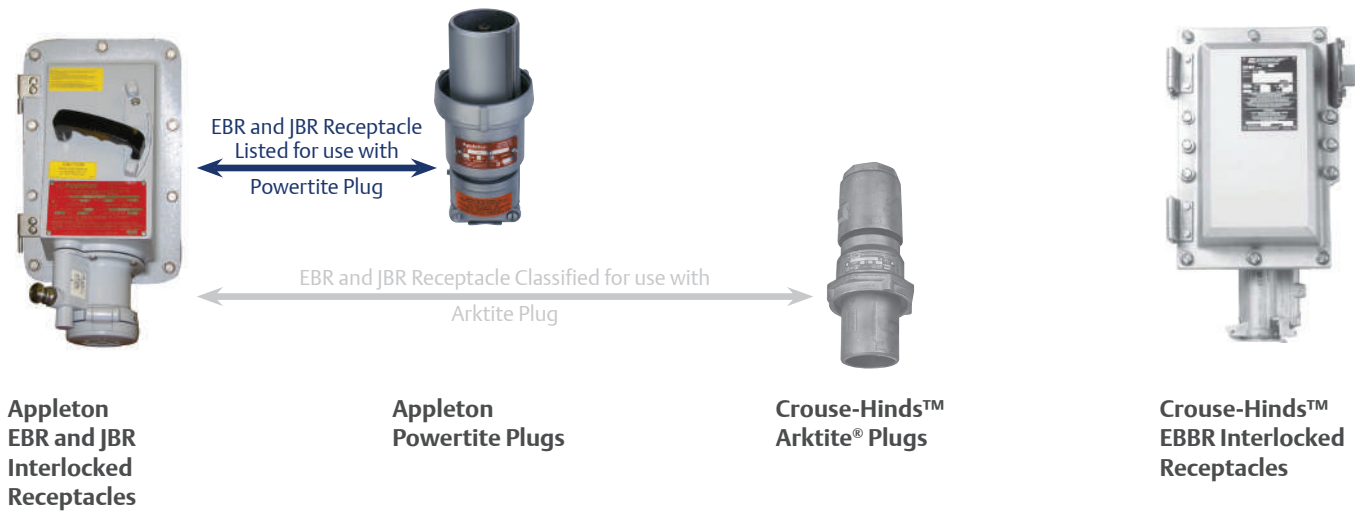
Safety:
1. Knob mechanism prevents plug removal unless handle position is OFF and the knob is actuated
2. Style 2 (shell and extra pole) grounding
3. Plug must be inserted into receptacle before the switch can be energized
4. EBR breakers are trip-free and will open under short circuit and overload scenarios

Ease of Use:
5. Solderless lugs are provided for line connections
6. Receptacle is prewired to the load side of breaker or switch
7. Cover-mounted components make pulling of line conductors and wiring easier
8. 1-1/2" NPT feed-thru conduit openings; JBR has one top and bottom and the EBR one top and two bottom
9. Stainless steel hinges and mounting feet are robust and make mounting easy
10. Additional 3/4" threaded openings at top and bottom for optional drain and breather; reducers furnished

EBR and JBR Interlocked Receptacles (continued)

EBR and JBR Receptacle
Listed for use with
Powertite Plug

EBR and JBR Receptacle Classified for use with
Arktite Plug

**Appleton
EBR and JBR
Interlocked
Receptacles**

**Appleton
Powertite Plugs**

**Crouse-Hinds™
Arktite® Plugs**

**Crouse-Hinds™
EBBR Interlocked
Receptacles**

Advantages:

- Choice of interlocked circuit breaker or disconnect switch
- Screw cover supplied at no additional charge for NEMA 4 protection
- Epoxy powder coat finish as standard

Appleton Plugs/Appleton Receptacles
- UL Listed
- UL File: E10784

Appleton Receptacles/Crouse-Hinds™ Plugs
- UL Classified for use with Listed Crouse-Hinds™ Arktite®
  Plugs
- UL File: E10784

WSR and WSRD Interlocked Receptacles

Interchangeability

Appleton WSR and WSRD Series receptacles use standard Appleton Powertite plugs for wide acceptability. UL Classified for use with Crouse-Hinds™ Arktite® plugs.

Full-Line Choice

The Appleton WSR and WSRD Series is available in 30, 60 or 100 Amps in both fused and non-fused versions. For quick visible fuse indication the WSRD Series has window versions available. The WSR Series enclosure material is cast aluminum (NEMA 4X), and the WSRD Series in both sheet metal (NEMA 3 and 12) or stainless steel (NEMA 4X and 12). Receptacle assemblies on all models come standard with a NEMA 3 spring-loaded cover and NEMA 4X screw cover (provided at no additional cost) to permit flexibility to meet NEMA 3 or 4 applications.
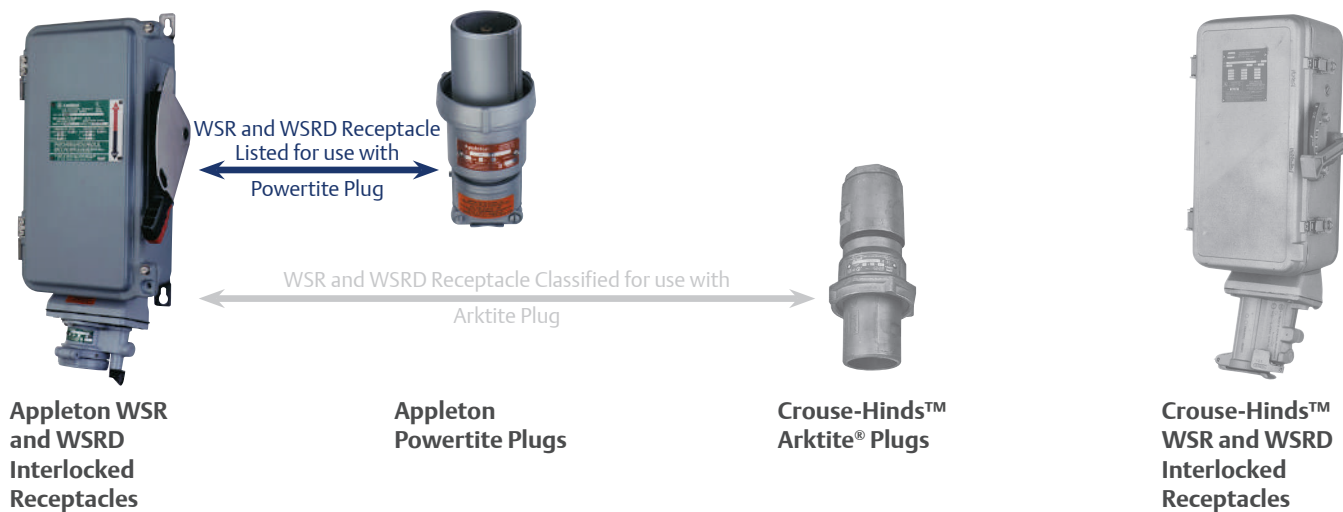
Safety:

❶ Interlock mechanism prevents plug removal unless handle position is OFF and the lever is actuated

❷ Style 2 (shell and extra pole) grounding

❸ Plug must be inserted into receptacle before the switch can be energized

❹ Lockable "OFF" position safeguards maintenance performed down line

❺ Dual-color handle indicates when the switch is energized as reflected by cover markings

❻ Lockable cover prevents unauthorized access

❼ Cover cannot be opened in the ON position and prevents energizing when open

Ease of Use:

❽ Stainless steel hinges and mounting feet are robust and make mounting easy

❾ Removable hinged cover allows for ease of installation and maintenance

WSR and WSRD Interlocked Receptacles *(continued)*

WSR and WSRD Receptacle
Listed for use with
Powertite Plug

WSR and WSRD Receptacle Classified for use with
Arktite Plug

**Appleton WSR
and WSRD
Interlocked
Receptacles**

**Appleton
Powertite Plugs**

**Crouse-Hinds™
Arktite® Plugs**

**Crouse-Hinds™
WSR and WSRD
Interlocked
Receptacles**

Advantages:
- WSR cast aluminum enclosure NEMA 4X
- Screw cover supplied at no additional charge for NEMA 4 protection
- WSR and receptacle assembly come with epoxy powder coat finish as standard

Appleton ACP Plugs/Appleton Receptacles
- UL Listed
- UL File: E145916 and E145917

Appleton Receptacles/Crouse-Hinds™ Plugs
- UL Classified for use with Listed Crouse-Hinds™ Plugs
- UL File: E145962

FSQC Interlocked Receptacles

Interchangeability
Appleton FSQC Series receptacles use standard Appleton Powertite plugs for wide acceptability. UL Classified for use with Crouse-Hinds™ Arktite® plugs.
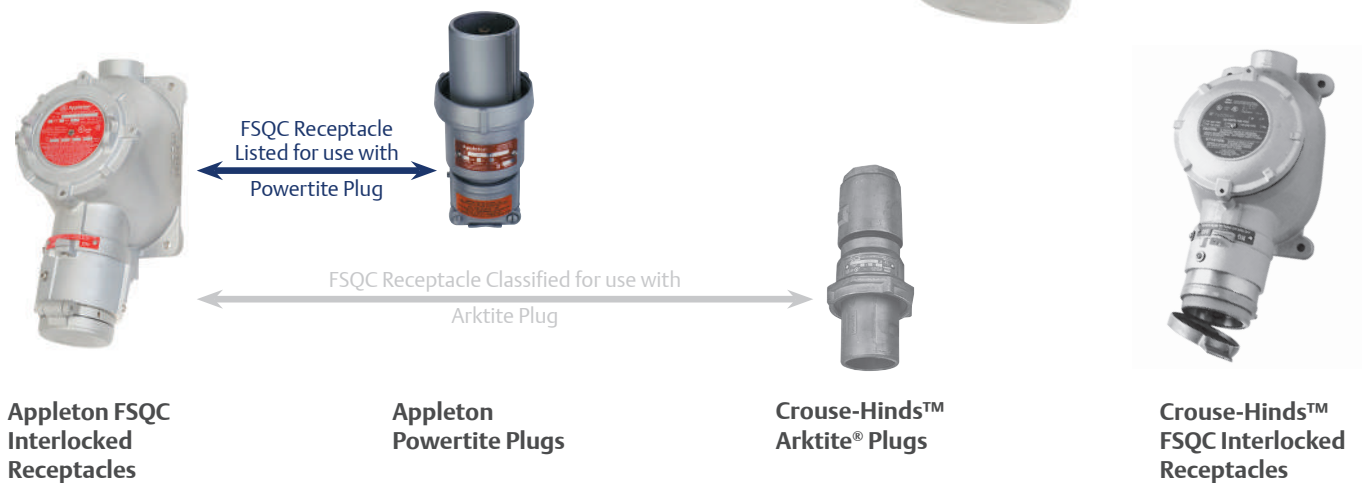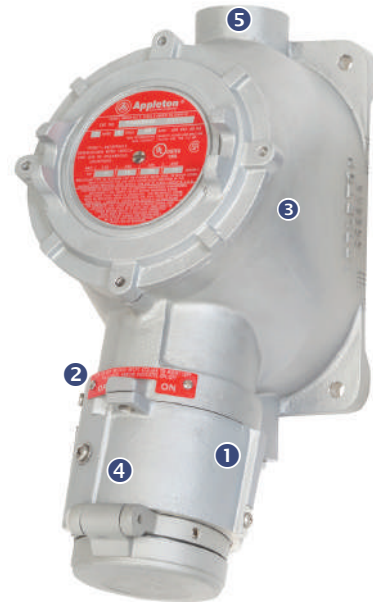
Full-Line Choice
The Appleton FSQC Series is available in 30, 60, and 100 Amps. When certain applications require additional safety for receptacle differentiation, contact rotation (-P4) is available. Get more capabilities, such as auxiliary contacts (-AUX) for signaling your process control system when a plug is energized or de-energized.

Safety:
- ● Interlocked disconnect switch ensures that the plug cannot be removed, or the access cover opened, while under load
- ❶ Style 2 (shell and extra pole) grounding
- ❷ Receptacle collar plate indicates whether the device is engerized or de-energized

Ease of Use:
- ❸ Large housing provides ample wiring room
- ❹ To operate, insert plug and turn receptacle collar to "ON" position. To remove plug, turn collar to OFF position and pull plug out
- ❺ Tapped NPT conduit openings at top and bottom

FSQC Receptacle
Listed for use with
Powertite Plug

FSQC Receptacle Classified for use with
Arktite Plug

Appleton FSQC Interlocked Receptacles

Appleton Powertite Plugs

Crouse-Hinds™ Arktite® Plugs

Crouse-Hinds™ FSQC Interlocked Receptacles

Advantages:
- Auxiliary contacts (1NO + 1NC) option available
- Screw cover supplied at no additional charge for NEMA 4 protection
- Epoxy powder coat finish as standard

Appleton Plugs/Appleton Receptacles
- UL Listed
- UL File: E10784

Appleton Receptacles/Crouse-Hinds™ Plugs
- UL Classified for use with Listed Crouse-Hinds™ Arktite® Plugs
- UL File: E10784

Contender CPS Receptacles and CPP Plug

Interchangeable
Appleton Contender CPS Series receptacles are UL Classified for use with Crouse-Hinds™ CPP516 plug.
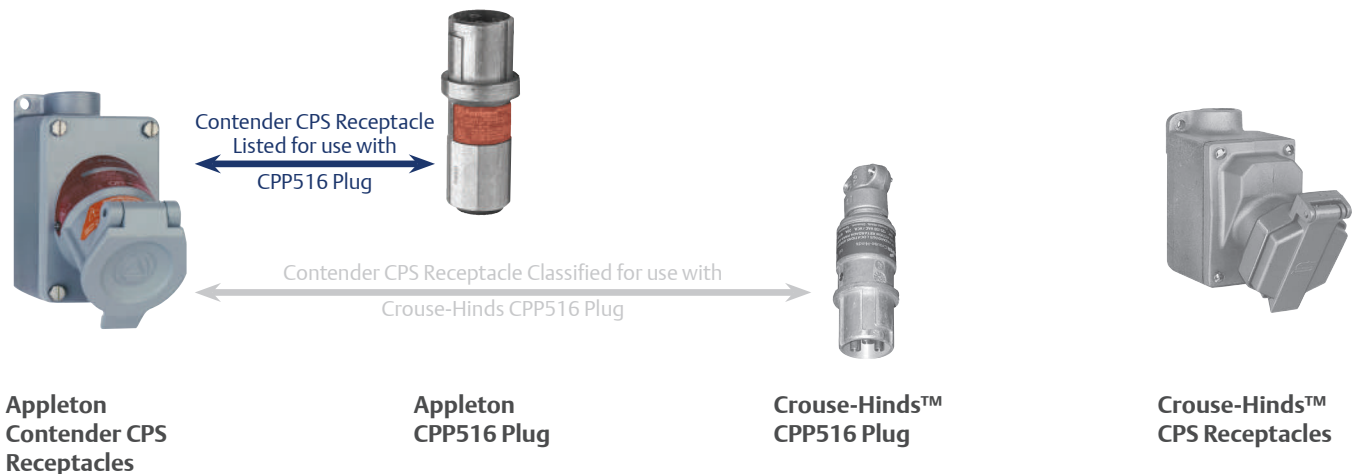
Full-Line Choice
U-Line Contender CPS Series 125-250 Vac receptacles come standard with an aluminum cover and malleable iron mounting box. Aluminum mounting boxes are also available. Standard mounting box selections include either one or two-gang, dead-end or feed-thru hub configurations, and 1/2", 3/4", or 1" hub sizes. Receptacle and GFI combinations are available when portable electrical equipment requires ground fault protection.

Safety:
❶ Dead-front delayed action design provides users added safety when connecting and disconnecting
❷ Deeply recessed contacts minimize possibility of accidental touching and exposed arcs

Ease of Use:
❸ Receptacles are factory sealed so no external seals are required, making wiring and installation faster
❹ Slotted hex-head stainless steel hardware for increased longevity and ease of maintenance

Contender CPS Receptacle Listed for use with
CPP516 Plug

Contender CPS Receptacle Classified for use with
Crouse-Hinds CPP516 Plug

Appleton Contender CPS Receptacles

Appleton CPP516 Plug

Crouse-Hinds™ CPP516 Plug

Crouse-Hinds™ CPS Receptacles

Advantages:
• Triple coat finish on all iron products and epoxy powder coat on all aluminum products as standard

Appleton Plugs/Appleton Receptacles
• UL Listed
• UL File: E10784

Appleton Receptacles/Crouse-Hinds™ Plugs
• UL Classified for use with Listed Crouse-Hinds™ Plug
• UL File: E10784

Contender Series Explosionproof Controls

Interchangeability

Appleton Contender control station, tumbler switch, and manual motor starter device covers are UL Listed when used on Appleton Contender EDS mounting boxes and UL Classified for use with Crouse-Hinds™ EDS mounting boxes.

Full-Line Choice

The Appleton Contender Series comes standard with an iron mounting box and device cover; aluminum options are available. Standard mounting boxes include either one-gang, two-gang, tandem or three device selections with dead-end or feed-thru hub configurations, and 1/2", 3/4", or 1" hub sizes. For installed mounting boxes, replacement control device cover assemblies are available.

Hundreds of possible device operator combinations exist with our control station offering, such as push buttons, pilot lights, and selector switches. Tumbler switches and manual motor starters are also available.

Safety:
1. All momentary push buttons are supplied with lockout type guards as standard
2. Smooth, rounded integral bushing in each hub protects conductor insulation
3. Backbox provided with internal ground screw for ground continuity

Ease of Use:
4. Captive stainless steel cover screws for increased longevity and ease of maintenance
5. Factory sealed devices eliminate the need for installing sealing fittings at each conduit entrance
6. Large backbox for ample wiring room
7. Clearly marked terminals with brass screws assure quick, easy wiring

Durability:
8. Weather boot shrouds around push buttons, protecting the operating cam shaft from debris
9. Sealed switch contacts and stainless steel shaft with bushing assures positive contact and long, trouble free operation

Contender Series Explosionproof Controls

EDKB Division 1 Cover Classified for use with
Crouse-Hinds™ EDS Mounting Box

EDS Mounting
Box
Listed for use
with
EDKB
Cover

**Appleton
Contender EDS
Mounting Boxes**

**Appleton
Contender EDKB
Control Covers**

**Crouse-Hinds™
DSD Control Covers**

**Crouse-Hinds
EDS Mounting
Boxes**

EDSF Division 1 Cover Classified for use with
Crouse-Hinds EDS Mounting Box

EDS Mounting
Box
Listed for use
with
EDSF
Cover

**Appleton
Contender EDS
Mounting Boxes**

**Appleton Contender
EDSF Tumbler
Switch Covers**

**Crouse-Hinds
DS/DSD Tumbler
Switch Covers**

**Crouse-Hinds
EDS Mounting
Boxes**

EDSK Division 1 Cover Classified for use with
Crouse-Hinds EDS Mounting Box

EDS Mounting
Box
Listed for use
with
EDSF
Cover

**Appleton
Contender EDS
Mounting Boxes**

**Appleton Contender
EDSK Manual Motor
Starter Covers**

**Crouse-Hinds DS/
DSD Manual Motor
Starter Covers**

**Crouse-Hinds
EDS Mounting
Boxes**

Advantages:
- Cover assemblies are factory sealed eliminating the need to purchase separate components or install seal fittings
- Momentary push button operators come standard with weather boots for added environmental protection and lockout guards for added safety
- Triple coat finish on all iron products and epoxy powder coat on all aluminum products as standard

**Appleton Contender Control Station Covers/
Appleton Mounting Boxes**
- UL Listed
- UL File: E81751

**Appleton Contender Control Station Covers/
Crouse-Hinds™ Mounting Boxes**
- UL Classified for use with Crouse-Hinds™ EDS Mounting Boxes
- UL File: E157407

Contender 4/4X Series Control Stations

Interchangeability
Appleton Contender 4/4X control station and tumbler switch device covers are UL Listed when used on Appleton Contender EDS mounting boxes and UL Classified for use with Crouse-Hinds™ EDS mounting boxes.

Full-Line Choice
The Appleton Contender 4/4X Series control stations have a malleable iron mounting box and aluminum device cover as standard. Optional aluminum mounting box is available for Type 4X protection. Standard mounting boxes include either one-gang, two-gang, and tandem selections with dead-end or feed-thru hub configurations, and 1/2", 3/4", or 1" hub sizes. For installed mounting boxes, replacement control device cover assemblies are available.

Hundreds of possible device operator combinations exist with our control station offering, such as push buttons, pilot lights, and selector switches. Tumbler switches are also available

Safety:
- ❶ Guards accept 1/4" locks to prevent unauthorized startup or turn off
- ❷ Smooth, rounded integral bushing in each hub protects conductor insulation
- ❸ Backbox provided with internal ground screw for ground continuity
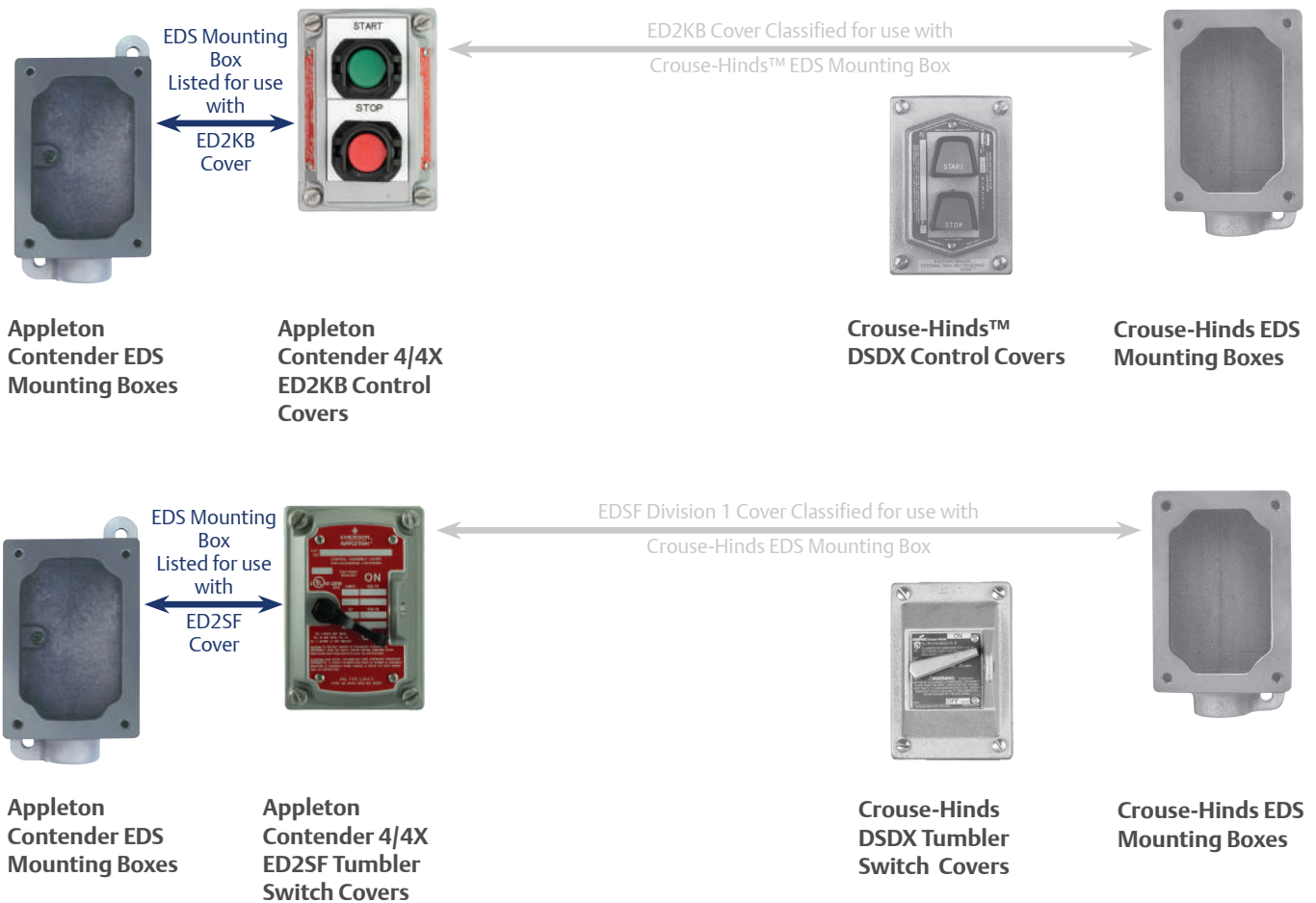
Ease of Use:
- ❹ Captive stainless steel cover screws for increased longevity and ease of maintenance
- ❺ Factory sealed devices eliminate the need for installing sealing fittings at each conduit entrance
- ❻ Large backbox for ample wiring room
- ❼ Marked terminals with screw clamp terminals

Durability:
- ❽ Gasketed cover and devices plus O-Rings on screws provide Type 4, 12, and IP66 ingress protection to reduce replacements

Contender 4/4X Series Factory Sealed Controls

EDS Mounting Box Listed for use with
ED2KB Cover

ED2KB Cover Classified for use with Crouse-Hinds™ EDS Mounting Box

Appleton Contender EDS Mounting Boxes

Appleton Contender 4/4X ED2KB Control Covers

Crouse-Hinds™ DSDX Control Covers

Crouse-Hinds EDS Mounting Boxes

EDS Mounting Box Listed for use with
ED2SF Cover

EDSF Division 1 Cover Classified for use with Crouse-Hinds EDS Mounting Box

Appleton Contender EDS Mounting Boxes

Appleton Contender 4/4X ED2SF Tumbler Switch Covers

Crouse-Hinds DSDX Tumbler Switch Covers

Crouse-Hinds EDS Mounting Boxes

Advantages:
- Cover assemblies are factory sealed eliminating the need to purchase separate components or install seal fittings
- Silicone gasket used on cover and operators ensure Type 4, 12, and IP66 ingress protection
- Labyrinth switch used in push buttons and selector switches is rated A600 heavy pilot duty and P150
- Triple coat finish on all iron products and epoxy powder coat on all aluminum products as standard

Appleton Contender 4/4X Series Covers/Appleton Mounting Boxes
- UL Listed
- UL File: E81751

Appleton Contender 4/4X Series Covers/ Crouse-Hinds Mounting Boxes
- UL Classified for use with Crouse-Hinds™ EDS Mounting Boxes
- UL File: E157407

Our products provide ultimate flexibility in retrofit and maintenance applications.

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