**U-Line™ ECS Factory Sealed 15 and 20 Amp Plugs and Receptacles**

Explosionproof, Dust-Ignitionproof

Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

**Applications**

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations with damp or corrosive conditions.
- Class I: classified locations where ignitable vapors or gases are present such as:
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
- Class II: classified locations such as:
  - Process industries where there are dust hazards from handling such products as flour, grain and starch or any location where ignitable amounts of dust are present or amounts which would adversely affect performance.

**Features**

- Intermateable with competitor’s plugs of like configurations.
- Factory sealed, external seals not required. Arcing is safely confined to receptacle interior.
- Energized receptacle contacts deeply recessed to reduce danger of accidental touching.
- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- ECP plug fits any standard non-explosionproof receptacle (NEMA 5-15R, 5-20R, or 6-20R) as well as U-Line™ explosionproof receptacles.

**Standard Materials**

- Receptacle, cover and mounting box: copperfree (4/10 of 1% max.) aluminum
- ECP plugs: copperfree (4/10 of 1% max.) aluminum housings
- Insulating blocks: glass-filled reinforced polyester

**Standard Finishes**

- Receptacles: epoxy powder coat
- Cord connector housings and caps: epoxy powder coat

**CEC Certifications and Compliances**

- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No 42, C22.2 No.159
- CSA Certified: 038644

**Illustrated Features**

- Mounting lugs.
- Receptacle housing and cover.
- Mounting box.
- Stainless steel slotted hex head mounting screws.
- Spring-loaded cover seats against neoprene gasket.

CSA Approved when used with Killark® “UGR” Series and Crouse-Hinds® “ENR” Series receptacles. Crouse-Hinds and ENP are registered trademarks of Cooper Crouse-Hinds. Killark and UGR are registered trademarks of Hubbell Incorporated.
# U-Line™ ECS Factory Sealed 15 and 20 Amp Plugs and Receptacles

**Explosionproof, Dust-Ignitionproof**

Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

**CEC:**
- Class I, Division 1 and 2 Groups B, C, D
- Class II, Division 1 and 2 Group G — Coal Dust
- Class III
- CSA Type 7BCD, 9G

## Illustrated Features

<table>
<thead>
<tr>
<th>Spring door cover keeps dust out of receptacle when plug is not in use, which may be rotated 180° or completely removed. Stainless steel cover spring-completely enclosed for protection from corrosive environments. Cover may be used with hinge at top (standard) or rotated 180° to put hinge at bottom.</th>
<th>With plug in use, neoprene gasket in throat of receptacle &quot;seals&quot; around plug keeping out dirt, water, dust and other foreign matter.</th>
<th>With plug not in use, spring-loaded door seats against neoprene gasket to seal receptacle from corrosive atmospheres.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Factory sealed receptacle/switch interior.</strong> Switch is an integral part of receptacle interior, contained in an aluminum sleeve. Protective xylan coating on inside of sleeve provides smooth &quot;rotating&quot; action of internal switch, which is activated by rotating plug in receptacle. Entire aluminum sleeve is sealed at both ends with neoprene O-rings to protect receptacle/switch interior against moisture.</td>
<td><strong>For safety... Ordinary location plug will NOT activate explosionproof U-Line™ receptacle.</strong></td>
<td><strong>Plug mechanical cable clamps</strong> on the plug prevent strain on cables and meet or exceed UL 150 lb. strain relief pull-out test for classified locations.</td>
</tr>
<tr>
<td><strong>Longer plug housing</strong> for better gripping and easier plug insertion and withdrawal.</td>
<td><strong>Knock-out in plug</strong> insulator permits &quot;potting&quot; of terminations for positive protection in severe environments.</td>
<td><strong>A twist of the plug</strong> produces audible &quot;click&quot; to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place—cannot be accidentally pulled out.</td>
</tr>
</tbody>
</table>

Visit our website at [www.emerson.com](http://www.emerson.com) or contact us at (800) 621-1506.

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U–Line™ ECS Factory Sealed 15 and 20 Amp Plugs and Receptacles

Explosionproof, Dust-Ignitionproof
Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

CEC:
Class I, Division 1 and 2 Groups B, C, D
Class II, Division 1 and 2 Group G — Coal Dust
Class III
CSA Type 7BCD, 9G

Receptacle and Cover Assembly

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 Amp</td>
<td>ECSK-2023</td>
</tr>
</tbody>
</table>

Mounting Box — Complete with 1 Close-Up Plug

<table>
<thead>
<tr>
<th>Hub Size</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>ECS175</td>
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<tr>
<td>1&quot;</td>
<td>ECS110</td>
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<table>
<thead>
<tr>
<th>Hub Size</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>3/4&quot;</td>
<td>ECS275</td>
</tr>
<tr>
<td>1&quot;</td>
<td>ECS210</td>
</tr>
</tbody>
</table>

Dimensions in Millimeters (Inches)

Cover

Mounting Box

Visit our website at www.emerson.com or contact us at (800) 621-1506.
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U-Line™ Interchanger 15 and 20 Amp Plugs
For U-Line™ 15 and 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof

These watertight plugs also fit NEMA 5-15R, 5-20R or 6-20R receptacles in nonclassified areas. Choice of Aluminum or Thermoplastic Polyester Plug.

NEC/CEC:
Class I, Division 1 and 2 Groups B, C, D
Class II, Division 1 and 2 Groups F, G
Class III
NEMA 3, 3R, Type 4

Applications
- U-Line™ Interchanger ECP plug: suitable for use in such areas as refineries, petrochemical plants, and other areas subject to where ignitable gases are present.
- NCP Plug: ideal where moisture or corrosion is a constant problem, such as production facilities on marine platforms, and pipeline transportation facilities.

Features
- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Longer plug housing for better gripping and easier plug insertion and withdrawal.
- Plugs fits any standard non-explosionproof receptacle (NEMA 5-15R, 5-20R, or 6-20R) as well as U-Line™ explosionproof receptacles.
- 15 Amp ECP1523 125 Vac and 20 Amp ECP2023 125 Vac U-Line™ plugs are for use in the T-slot configured 20 Amp U-Line™ receptacle. ie ECSK-2023.
- ECP plug: a twist of the plug produces audible "click" to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place and cannot be accidentally pulled out.
- NCP plug: special neoprene watertight plug bushing accommodates flexible cord ranging from .538" to .639" diameter.

Standard Materials
- ECP plug: copperfree (less than 4/10ths of 1%) aluminum
- NCP plug: 30% glass-reinforced thermoplastic polyester

<table>
<thead>
<tr>
<th>Amp</th>
<th>Diagram</th>
<th>Wire/ Pole</th>
<th>Cable Dia., (Inches)</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>15</td>
<td><img src="image1.png" alt="Diagram" /></td>
<td>2W, 3P</td>
<td>0.538 to 0.639</td>
<td>ECP-1523</td>
</tr>
<tr>
<td>20</td>
<td><img src="image2.png" alt="Diagram" /></td>
<td>2W, 3P</td>
<td>0.538 to 0.639</td>
<td>ECP-2023</td>
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<tr>
<td>20</td>
<td><img src="image3.png" alt="Diagram" /></td>
<td>2W, 3P</td>
<td>0.538 to 0.639</td>
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</table>

<table>
<thead>
<tr>
<th>Amp</th>
<th>Diagram</th>
<th>Wire/ Pole</th>
<th>Cable Dia., (Inches)</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>15</td>
<td><img src="image4.png" alt="Diagram" /></td>
<td>2W, 3P</td>
<td>0.538 to 0.639</td>
<td>NCP-1523</td>
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<tr>
<td>20</td>
<td><img src="image5.png" alt="Diagram" /></td>
<td>2W, 3P</td>
<td>0.538 to 0.639</td>
<td>NCP-2023</td>
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<tr>
<td>20</td>
<td><img src="image6.png" alt="Diagram" /></td>
<td>2W, 3P</td>
<td>0.538 to 0.639</td>
<td>NCP-20232</td>
</tr>
</tbody>
</table>

Dimensions in Millimeters (Inches)

Watertight when unmated.
U-Line™ ECSK-GFI Ground Fault Circuit Interrupter

Explosionproof, Dust-Ignitionproof
For U-Line™ 20 Amp Receptacles. Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

Applications
- Provides required ground fault protection for portable electrically-operated devices. Meets all CSA requirements for ground fault protection in hazardous locations.
- Well suited for use in highly corrosive atmospheres and wet locations.
- Can be used in conjunction with U-Line™ factory sealed receptacle on 20 Amp, 125 Vac branch circuits.

Features
- Rated 20 Amp, 125 Vac, 5 mA trip setting. 0.075 second trip time.
- Smooth-operating test and reset buttons.
- Can be installed in standard ECS Series mounting boxes.

Standard Materials
- Cover: cast copperfree (less than 4/10ths of 1%) aluminum
- Push Buttons: Aluminum Upper Barrel and phenolic lower barrel (Dust cap models have neoprene buttons)

Standard Finish
- Cover: baked gray epoxy clad finish

Options
- Securing rod for push button factory sealed units. Add suffix –S153.
- CSA Type 4X enclosure and cover. Add suffix –4X.
- Flush mounted single LED trip indicator light. Add suffix –LED.

CEC Certifications and Compliances
- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No.42, C22.2 No. 159
- CSA Certified: 038644
U–Line™ ECSK–GFI Ground Fault Circuit Interrupter

Explosionproof, Dust-Ignitionproof

For U–Line™ 20 Amp Receptacles. Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

CEC:
- Class I, Division 1 and 2, Groups B, C, D
- Class I Zone 1 and 2, IIB + H2 T6
- Class II, Division 1 and 2, Groups E, F, G
- Class III, Encl. 3R, raintight
- CSA Type 3R, 7BCD, 9EF

CEC:
- CSA Approved
- Class I, Division 1 and 2 Groups B, C, D
- Class II, Division 1 and 2 Group G — Coal Dust
- Class III
- CSA Type 7BCD, 9G

<table>
<thead>
<tr>
<th>Hub Size (Inches)</th>
<th>Electrical Rating</th>
<th>Catalog Number</th>
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</thead>
<tbody>
<tr>
<td>1/2 – 3/4</td>
<td>20 Amp 120 Vac, 5 mA Trip 0.075 Sec. Trip Time</td>
<td>ECS2GFI</td>
</tr>
<tr>
<td>1</td>
<td>20 Amp 120 Vac, 5 mA Trip 0.075 Sec. Trip Time</td>
<td>ECS4GFI</td>
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</table>

<table>
<thead>
<tr>
<th>Hub Size (Inches)</th>
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<th>Catalog Number</th>
</tr>
</thead>
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<td>1/2 – 3/4</td>
<td>20 Amp 125 Vac, 1 HP</td>
<td>ECS32023</td>
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<tr>
<td>1</td>
<td>20 Amp 125 Vac, 1 HP</td>
<td>ECS52023</td>
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<tr>
<td>1/2 – 3/4</td>
<td>20 Amp 250 Vac, 2 HP</td>
<td>ECS320232</td>
</tr>
<tr>
<td>1</td>
<td>20 Amp 250 Vac, 2 HP</td>
<td>ECS520232</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Hub Size (Inches)</th>
<th>Electrical Rating</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 – 3/4</td>
<td>15/20 Amp 125 Vac, 1 HP</td>
<td>ECS72023</td>
</tr>
<tr>
<td>1</td>
<td>15/20 Amp 125 Vac, 1 HP</td>
<td>ECS92023</td>
</tr>
<tr>
<td>1/2 – 3/4</td>
<td>15/20 Amp 250 Vac, 2 HP</td>
<td>ECS720232</td>
</tr>
<tr>
<td>1</td>
<td>15/20 Amp 250 Vac, 2 HP</td>
<td>ECS920232</td>
</tr>
</tbody>
</table>

U-Line™ Plugs and Receptacles with Ground Fault Protection — 2-Gang — Non-Factory Sealed Devices

<table>
<thead>
<tr>
<th>Hub Size (Inches)</th>
<th>Electrical Rating</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 – 3/4</td>
<td>20 Amp 125 Vac, 1 HP</td>
<td>ECS6GFI2023</td>
</tr>
<tr>
<td>1</td>
<td>20 Amp 125 Vac, 1 HP</td>
<td>ECS8GFI2023</td>
</tr>
</tbody>
</table>

Cover Assemblies

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Fault Circuit Interrupter (Cover Assembly)</td>
<td>ECSK-GFI</td>
</tr>
<tr>
<td>Receptacle and Cover Assembly</td>
<td>ECSK-2023</td>
</tr>
</tbody>
</table>

© Approved for Group F with non-electrically conductive dusts.