

# U-Line™ Interchanger 15 and 20 Amp Plugs

## For U-Line™ 15 and 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof

These raintight ① 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, 7BCD, 9FG

### 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

Appleton

PLUGS AND RECEPTACLES: NEC/CEC HAZARDOUS LOCATION

| Amp | Diagram | Wire/<br>Pole | Cable Dia.,<br>(Inches) | Catalog Number   |  |
|-----|---------|---------------|-------------------------|--|--|
|     |         |               |                         | 125 Vac<br> | 250 Vac<br> |

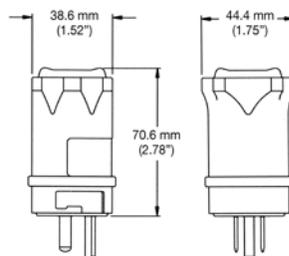
#### U-Line™ Interchanger ECP Standard Plug

|   |    |   |        |                |                 |                  |
|---|----|---|--------|----------------|-----------------|------------------|
|  | 15 |  | 2W, 3P | 0.538 to 0.639 | <b>ECP-1523</b> | —                |
|   | 20 |  | 2W, 3P | 0.538 to 0.639 | <b>ECP-2023</b> | —                |
|   | 20 |  | 2W, 3P | 0.538 to 0.639 | —               | <b>ECP-20232</b> |

#### NCP Plug

|   |    |   |        |                |                 |                  |
|---|----|---|--------|----------------|-----------------|------------------|
|  | 15 |  | 2W, 3P | 0.538 to 0.639 | <b>NCP-1523</b> | —                |
|   | 20 |  | 2W, 3P | 0.538 to 0.639 | <b>NCP-2023</b> | —                |
|   | 20 |  | 2W, 3P | 0.538 to 0.639 | —               | <b>NCP-20232</b> |

#### Dimensions in Millimeters (Inches)



① Raintight when mated with receptacle.

# U-Line™ ECK-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 + H<sub>2</sub> T6  
Class II, Division 1 and 2, Groups E, F, G  
Class III, Encl. 3R, raintight  
CSA Type 3R, 7BCD, 9EFG

### 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

### 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 phelonic 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



Ground Fault Circuit Interrupter Cover Assembly



2-Gang — GFCI and Receptacle

Appleton®

PLUGS AND RECEPTACLES: NEC/CEC HAZARDOUS LOCATION

# U-Line™ ECK-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 + H<sub>2</sub> T6  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III, Encl. 3R, raintight  
 CSA Type 3R, 7BCD, 9EFG

**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

|   | Hub Size (Inches) | Electrical Rating                              | Catalog Number |
|---|-------------------|--|----------------|
| <b>Ground Fault Circuit Interrupter – 1-Gang – Non-Factory Sealed Devices</b>     |                   |  |                |
|  | 1/2 – 3/4         | 20 Amp 120 Vac, 5 mA Trip 0.075 Sec. Trip Time | <b>ECS2GFI</b> |
|   | 1                 | 20 Amp 120 Vac, 5 mA Trip 0.075 Sec. Trip Time | <b>ECS4GFI</b> |

### U-Line™ Receptacles – Factory Sealed Device. Not approved for Group E ①

|  | Hub Size (Inches) | Electrical Rating       | Catalog Number   |
|--|-------------------|-------------------------|------------------|
| <b>1-Gang</b>  |                   |                         |                  |
|   | 1/2 – 3/4         | 20 Amp 125 Vac, 1 HP    | <b>ECS32023</b>  |
|  | 1                 | 20 Amp 125 Vac, 1 HP    | <b>ECS52023</b>  |
|  | 1/2 – 3/4         | 20 Amp 250 Vac, 2 HP    | <b>ECS320232</b> |
|  | 1                 | 20 Amp 250 Vac, 2 HP    | <b>ECS520232</b> |
| <b>2-Gang with two, single receptacle covers</b>                                   |                   |                         |                  |
|  | 1/2 – 3/4         | 15/20 Amp 125 Vac, 1 HP | <b>ECS72023</b>  |
|  | 1                 | 15/20 Amp 125 Vac, 1 HP | <b>ECS92023</b>  |
|  | 1/2 – 3/4         | 15/20 Amp 250 Vac, 2 HP | <b>ECS720232</b> |
|  | 1                 | 15/20 Amp 250 Vac, 2 HP | <b>ECS920232</b> |

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

|   | Hub Size (Inches) | Electrical Rating    | Catalog Number     |
|---|-------------------|----------------------|--------------------|
|  | 1/2 – 3/4         | 20 Amp 125 Vac, 1 HP | <b>ECS6GFI2023</b> |
|   | 1                 | 20 Amp 125 Vac, 1 HP | <b>ECS8GFI2023</b> |

### Cover Assemblies

|   | Description                                       | Catalog Number<br>Single Gang |
|---|---|-------------------------------|
|  | Ground Fault Circuit Interrupter (Cover Assembly) | <b>ECSK-GFI</b>               |
|  | Receptacle and Cover Assembly                     | <b>ECSK-2023</b>              |

① Approved for Group F with non-electrically conductive dusts.

# U-Line™ Contender™ Factory Sealed 20 Amp Plugs and Receptacles

## Explosionproof, Dust-Ignitionproof

**NEC:**  
 Class I, Groups C, D  
 Class I, Division 2, Group B  
 Class I, Zone 1, Group IIB  
 Class I, Zone 2, Group IIB + H<sub>2</sub>  
 Class II, Groups F, G

**NEC:**  
 Class III  
 NEMA 3R\*

### 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 where damp or corrosive conditions exist.

### Features

- Covers are UL Listed when used with Contender™ Series back boxes.
- ECP plug fits any standard non-explosionproof receptacle (NEMA 5-20R, or 6-20R) as well as U-Line™ explosionproof receptacles.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Dead front design: receptacle is not energized until plug is fully inserted and switch is engaged.

### Standard Materials

- Cover: copperfree (4/10 of 1% max.) aluminum
- Back box: malleable iron
- Insulating blocks: fiberglass reinforced thermoset polyester

### Standard Finishes

- Malleable iron mounting boxes: triple-coat– (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Covers and aluminum back boxes: epoxy powder coat

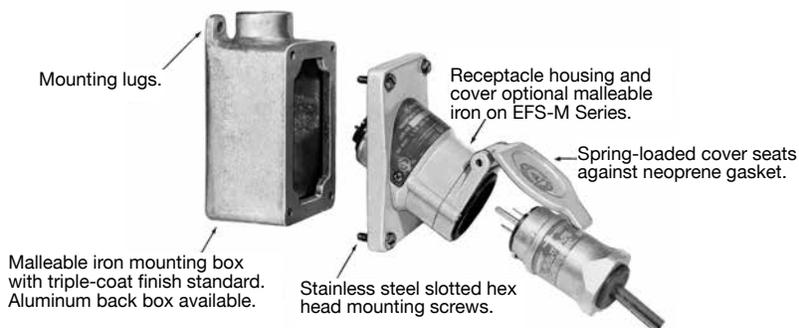
### Options

- Copperfree (4/10 of 1% max.) aluminum receptacle cover and box. Add suffix **-SA**.

### NEC Certifications and Compliances

- UL Listed: E10784
- UL Standard: UL 1203, UL 1010, UL 894

### Illustrated Features



### Related Products

- U-Line™ Contender™ receptacles only available for use in combination with 1- and 2-gang EDS boxes incorporating such devices as pilot lights, switches and push buttons. See *Controls Section*.

U-Line NEMA 4X corrosion resistance screw cover kit available: **ULINEREC4XKIT**.



• NEMA Type 4X when the screw cover kit is installed and the cover is fully engaged.  
 Covers are UL Classified to mount on Crouse-Hinds® EDS back boxes. Appleton "ENR" Series receptacles are UL Classified for use with Crouse-Hinds® ENP Series plugs. Crouse-Hinds, EDS and ENP are registered trademarks of Cooper Crouse-Hinds.