

# U-Line™ N1 and N2 Series 20 Amp Receptacles

## With Explosionproof Nonmetallic Intraground™ Enclosure

125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

**NEC — N1 Series (Non-Factory Sealed):**  
Class I, Division 1, Groups C, D  
Class I, Division 2, Groups B, C, D  
NEMA 3, 3R, 3RX, 4X, 7CD

**NEC — N2 Series (Factory Sealed):**  
Class I, Division 2, Groups B, C, D  
Class II, Division 1 and 2, Groups F, G  
NEMA 3, 3R, 3RX, 4X, 7BCD, 9FG

### 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

- Nonmetallic construction with metal imbedded grounding grid eliminates need for extra grounding components.
- Feed-thru or dead-end grounded 1/2" or 3/4" conduit openings for threaded conduit via provided 1/2" or 3/4" reducers.
- Special grounding wire provides safe grounding when cover is removed.
- Excellent resistance to ultraviolet light, water, fungi and mold.
- Excellent conduit connection strength.
- Superior flammability resistance.
- Enclosure walls are 5/16" thick.
- Silicone gasket, specially designed for the labyrinth-path joint, prevents entrance of moisture without interfering with the venting of cooled hazardous gases and vapors.
- Explosionproof when sealing fittings (sold separately) are installed at each conduit entrance of the N1 enclosure.

### Materials

- N1 enclosure: natural color, high strength 30% glass-reinforced thermoplastic polyetherimide
- N2 enclosure: blue color, high strength 30% glass-reinforced thermoplastic polyetherimide
- Gasket: silicone

### NEC Certifications and Compliances

- UL Standard: UL 1010 (UL 1203)
- UL Listed: E10784

### Related Products

- Sealing fitting must be installed at each conduit entrance of the N1 enclosure to be explosionproof. See *Hazardous Fittings Section*.



### Illustrated Features

Unique labyrinth-path construction assures flame-tight joint between body and cover.



Aluminium grounding grid, imbedded into the nonmetallic enclosure during molding, provides complete grounding system. No field work. No extra grounding wires or parts required.



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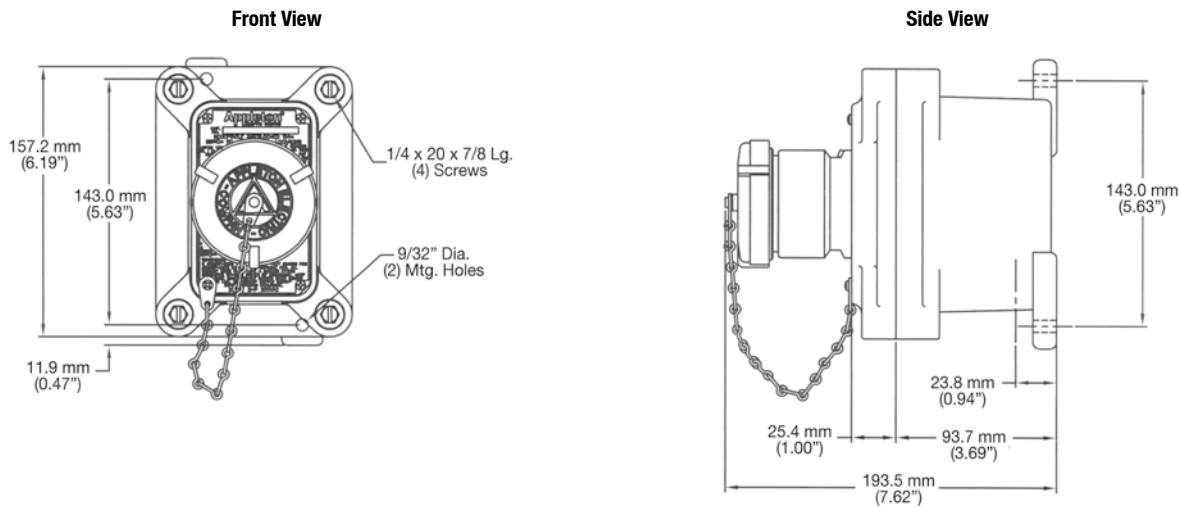
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 Class II, Division 1 and 2, Groups F, G  
 NEMA 3, 3R, 3RX, 4X, 7BCD, 9FG

### Aluminum Epoxy Coated Receptacle with Nonmetallic Enclosure

					Catalog Number	
		Hub Size (Inches) ①	Wire/Pole	Volts	N1 Series ②	N2 Series
	Dead-End	1/2 or 3/4	2W, 3P	125 	<b>N1D75-2023</b>	<b>N2D75-2023</b>
		1/2 or 3/4	2W, 3P	250 	<b>N1D75-20232</b>	<b>N2D75-20232</b>
	Feed-Thru	1/2 or 3/4	2W, 3P	125 	<b>N1DC75-2023</b>	<b>N2DC75-2023</b>
		1/2 or 3/4	2W, 3P	250 	<b>N1DC75-20232</b>	<b>N2DC75-20232</b>

### Dimensions in Millimeters (Inches)



① Furnished with a 1/2" to 3/4" reducer for each hub.

② Sealing fittings must be field installed adjacent to N1 receptacle enclosure on all conduit runs.

# U-Line™ Interchanger 20 Amp Plugs

## For U-Line™ Intraground™ N1 and N2 Series 20 Amp Receptacles.

These watertight ① plugs also fit NEMA 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 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.

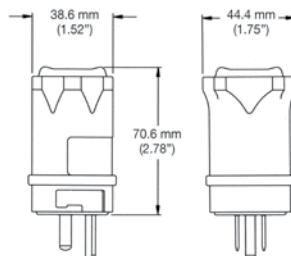
- Plugs fits any standard non-explosionproof receptacle (NEMA 5-20R, or 6-20R) as well as U-Line™ explosionproof receptacles.
- ECP plug: a twist of the plug produces audible "click" to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place and cannot be accidentally 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

	Amp	Diagram	Wire/ Pole	Cable Dia., (Inches)	Catalog Number	
					125 Vac 	250 Vac 
<b>U-Line™ Interchanger ECP Standard Plug</b>						
	20		2W, 3P	.538 to .639	<b>ECP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>ECP-20232</b>
<b>NCP Plug</b>						
	20		2W, 3P	.538 to .639	<b>NCP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>NCP-20232</b>

**Dimensions in Millimeters (Inches)**



① Watertight when unmated.