L-14



Applications

N1 Series (Non-Factory Sealed)*

- Listed for use in Class I, Group C and D, Division 1 and 2 atmospheres such as diethyl ether, methyl ethyl keytone, acetone, toluene, No. 3 fuel oil, ammonium hydroxide (20%), benzene, regular unleaded gas, ethyl acetate, hexane and methanol. Not suitable for ethylene dichloride and partially halogenated hydrocarbons. Sealing fittings must be field installed adjacent to enclosure on a conduit runs.†
- Explosionproof. With sealing fittings installed at each conduit entrance, the N1 Series enclosures withstood a hydrostatic test of four times the maximum internal explosion pressure that could be developed from a gas explosion.

N2 Series (Factory Sealed)

- Listed for use in Class I, Group C and D, Division 2 atmospheres such as diethyl ether, methyl ethyl keytone, acetone, toluene, No. 3 fuel oil, ammonium hydroxide (20%), benzene, regular unleaded gas, ethyl acetate, hexane and methanol. Factory sealed no external seals required.
- Dust-tight. After 32-hour UL test, no magnesium dust entered the enclosure.

Features-N1 and N2 Series

- Non-metallic construction with metal imbedded grounding grid. No need to install special wires and parts for grounding. Feed-thru or dead end grounded 1/2" or 3/4" conduit openings for threaded conduit.
- Special grounding wire finished with each box provides safe grounding when cover is removed.
- Excellent resistance to ultraviolet light and water.
- Excellent conduit connection strength. UL pull-out and bending resistance tests resulted in no effect on connections.
- Superior flammability resistance. After five UL gas burner tests, where flame was applied directly to the box, enclosure retained its integrity.

Intraground® N1 and N2 Series 20 Amp U-Line® Receptacles with Non-Metallic Mounting Box

Dead-Front Safety Construction—Grounding thru Extra Pole and Shell. N1 Series—Neutral Color; N2 Series—Blue Color.



Features - N1 Series

- First UL listed non-metallic control stations available for Class I, Div. 1.
- Unique labyrinth-path construction assures flame-tight joint between body and cover.
- Silicone gasket, specially designed for the labyrinth-path joint, prevents entrance of moisture without interfering with the venting of cooled hazardous gases and vapors.
- High strength thermoplastic polyetherimide, together with thick wall (5/16") and sound structural design (rounded corners) provides superior resistance to impact and crushing.
- Typical mechanical properties of 24,500 psi tensile strengths, 3% elongation at break, 33,000 psi flexural strength, and 1,200,000 psi flexural modulus.
- Electrical properties: dielectric strength (in air) of 769 V/mil at 1/16".
- Excellent resistance to fungi, mold.
- Excellent Heat Deflection Temperature. At 264 psi, in accordance with ASTM D648 testing procedure, sample specimens rated at 410°F the temperature required to deflect material .01").
- UL Temperature Index (continuous use): 338°F electrical properties, 338°F mechanical properties with impact.

Features - N2 Series

- Molded of high-tensile 30% glass-reinforced thermoplastic polyester. Enclosure walls are 5/16" thick.
- Silicone gasket, specially designed for the labyrinth-path point between cover and body, prevents entrance of moisture and dust.
- Typical mechanical properties of 17,000 psi tensile strength, 3% elongation at break, 27,000 psi flexural strength, and 1,100,000 psi flexural modulus (UL tests: 18,918 psi tensile strength and 30,675 psi flexural strength).
- Electrical properties of sample specimens: dielectric strength of 490 at 1/8" and a comparative track index of 185V/.058".
- † Sealing fittings not furnished. Order from Cat. Sec.I.



N2DC75-20232

N1 Series (Non-Factory Sealed)† Class I, Div. 1 and 2 Groups C,D NEMA 3,3R,4X,7CD,12

N2 Series (Factory Sealed)
Class I, Div. 2
Groups B,C,D
Class II, Div. 1 and 2
Groups F*,G
Class III
NEMA 3,3RX,4X*, 9F*G,12

U.S. Pat. 4,260,863 Patented Canada 1980

Intraground® N1 and N2 Series 20 Amp U-Line® Receptacles with Nonmetallic Mounting Box

Dead-Front Safety Construction—Grounding thru Extra Pole and Shell. N1 Series-Neutral Color; N2 Series-Blue Color. Choice of Aluminum or Thermoplastic Polyester Plug.

U.S. Pat. 4,391,480 Patented Canada 1980	

U.S. Pat. 3,346,709 Patented Canada 1968	Hub Size, Inches**	Wire/Pole	Volts	Catalog Number (Non-Factory Sealed) N1 Series†	(Factory Sealed) N2 Series			
1	20 Amp Aluminum Epoxy Coated Receptacles with Nonmetallic Mounting Box 125VAC, 20A, 1HP; 250VAC, 20A, 2HP.							
	Dead-End 1/2 or 3/4	2W,3P	125 🕦	N1D75-2023	N2D75-2023			
	1/2 or 3/4	2W,3P	250 🗐	N1D75-20232	N2D75-20232			
	Feed-Thru 1/2 or 3/4	2W,3P	125 🕦	N1DC75-2023	N2DC75-2023			

N1DC75-20232

Plugs for above Receptacles

1/2 or 3/4

These watertight plugs also fit NEMA 5-15R, 5-20R or 6-20R receptacles in nonclassified areas.

2W,3P

Interchanger™ ECP PLUG (Aluminum). Standard plug suitable for use in such areas as refineries, petrochemical plants, and other areas subject to corrosion by ignitible gases and moisture.

250 (1)



ECP Plug

NCP Plug

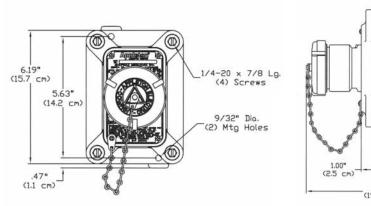
NCP PLUG (Filled Polyester). Ideal where moisture or corrosion is a constant problem, such as production facilities on marine platforms, and pipeline transportation facilities.

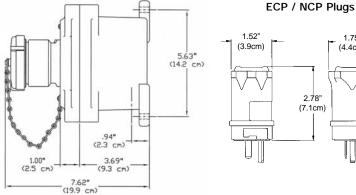
	Amps Diagram Wire/		Cable Dia., Inches	Cat. No. ECP Plug (Model D)		Cat. No. NCP Plug	
Amps				125V	250V	125V	250V
15	<u> </u>	2W,3P	.538 to .639	ECP-1523		NCP-1523	
20	<u> </u>	2W,3P	.538 to .639	ECP-2023		NCP-2023	
20	(£)	2W,3P	.538 to .639		ECP-20232		NCP-20232

†Sealing fittings must be field installed adjacent to enclosure on all conduit runs. *Do not use in atmospheres containing electrically conductive dusts (most coal dusts are not electrically conductive).

**Furnished with a 3/4" to 1/2" reducer.

• NEMA Type 4X rated when screw cover fully engaged or when plug is inserted.







1.75"

(4.4cm)