

L-14

**NEW NEMA 4X
Screw Cover
Kit Supplied
as Standard!**

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 ketone, 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 ketone, 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.

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

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. 4,260,863
 Patented Canada 1980

U.S. Pat. 3,346,709
 Patented Canada 1968

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

Hub Size, Inches**	Wire/Pole	Volts	Catalog Number	
			(Non-Factory Sealed) N1 Series†	(Factory Sealed) N2 Series

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
	2W,3P	250		N1D75-20232	N2D75-20232
Feed-Thru 1/2 or 3/4	2W,3P	125		N1DC75-2023	N2DC75-2023
	2W,3P	250		N1DC75-20232	N2DC75-20232

Plugs for above Receptacles

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



ECP Plug

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



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/Pole	Cable Dia., Inches	Cat. No. ECP Plug (Model D)		Cat. No. NCP Plug	
				125V	250V	125V	250V
15		2W,3P	.538 to .639	ECP-1523	---	NCP-1523	---
20		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.

