# Amphenol Alden

# PL-900SM-N SERIES 14 Pole capacity miniature power connector for overmolding



The PL-900SM-N is available in several power circuit configurations for industrial and medical electronic applications. This connector series is ideal for applications where safety, ease of use, and exposure to hostile environments are prevalent.

Environmental

\* post conditioning

- Packaging (intuitive, compact, configurable)
- Pulse-Lok® auto-latch / quick-release mechanism confirms continuity
- · Concealed contacts meet IEC and UL safety specifications
- Available as a rugged overmolded cable assembly
- · Polarized housing eliminates missmating
- · 14 proprietary color combinations for coding
- Performance (for harsh environments)
- Water proof (IP-67 rated)

• Operating Temp: -20C to +105C\*\*

Moisture Resistance: to IP-67 (IEC)

Sterilizable: gamma, EtO & Autoclave

\*\*Dependent on overmold material

**STANDARD CONTACT CONFIGURATIONS & SPECFICATIONS** 

• Flammability Rating: UL94 V-0 (PL900SM-V only)

Chem. Resistance: common OR cleaning solvents

- Sterilizable
- Chemical resistant housing
- Up to 5,000 mating cycles (with std.Contacts) • Factory terminated, overmolded cable
- assemblies for enhanced flex and stain relief

SPECIFICATIONS

#### Electrical (see below)

Mating Life: 5,000 cycles min. High Current Ratings per UL/ANSI/EIA Dielectric withstand Voltage: 2200V RMS (Contact to Contact, Contact to Outer Housiina)

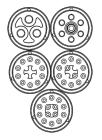
Insulation Resistance: Per ANSI/EIA-364-14

#### **Material**

Connector Housing: Nylon Flex Reliefs: Thermoplastic Rubber Contacts/Sockets: Brass / BeCu, Gold Plate per MIL-G-45204C

### **Up to 14 Contact**

#### **Positions**

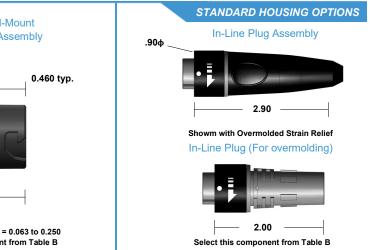


Number of Poles	Contact Size Pin φ (mm)	Max Wire Gauge	Operating Voltage Max	Operating Current Max (A)	Contact Resistance (ohms)
14	0.7	22	600V AC/DC	5.0	<10m
12	0.7	22	600V AC/DC	5.0	<10m
10	0.7	22	600V AC/DC	5.0	<10m
7	1.5	16	600V AC/DC	15.0	<10m
3	2.4	12	600V AC/DC	30.0	<10m

## **Rear Panel-Mount** In- Line Receptacle Assembly **Receptacle Assembly** .<mark>90</mark>ф 0.460 typ. 3.19 Shown with optional backshell (See Table C) In-Line Receptacle (for overmolding) 1.00¢ 1.00

Panel Thickness Range = 0.063 to 0.250 Select this component from Table B

#### Custom contact inserts are available. Consult factory.



Connector housings are illustrated in gray with black couplers and backshells. www.amphenolalden.com/configurator

2.31

Select this component from Table B

Standard color is black on black. See our online configurator for color options at : \*All dimensions shown in inches except where indicated

## TABLE A:

Mating Cycles: 5K cycles max

• Mated Connectors: 50 lbs. Minimum

Cable to Connector: 50 lbs. Typical

• Contact Barrel Wire Size: #12 to #22

Contact Isolation: Probe @ 7lbs. Per IEC

Mechanical

60601-1

Retention Force:

## **PL-900SM-N SERIES**

**Options Include:** 

(Nylon Tether locks into panel washer)

P/N 110401-01

Panel-Mount Receptacle Dust Cover:

The PL-900 Series receptacle dust

system from dust, moisture, and

dust cover will provide an IP-67

environmental seal. The cover is

equipped with a tether for security.

cover protects the receptacles contact

mechanical stress when the connector pair is disengaged. When secured the

Plastic Shell Auto-Coupling Connectors 14 pole capacity for High Power Applications

**TABLE B**:

#### STANDARD PART NUMBERS

Number of Poles	In-Line Receptacle Rear Panel-Mount Receptacle		In-Line Plug	
	Solder Cup	Solder Cup	PCB	Solder Cup
14	340196	340518	340525	340112
12	340182	340490	340497	340084
10	340168	340462	340469	340056
7	340154	340448		340028
3	340140	340434		340000

Indicator Color Options Black (std.), Gray, White, Blue, Red, Green, Yellow Mating Key Options 2 Standard Keys, Proprietary Keys Available Panel-Mount Thickness Options .187 (std.), .063, .187,.250 **Contact Termination** Standard contact is equipped with a MIL crimp barrel suitable for soldering Press & Seal<sup>™</sup> Contact System Rear Panel-Mount Receptacle, Cut-Out Template PCB (Panel-Mount Receptacles only) **.880**φ · Contacts provide IP-67 watertight seal when 1.05 φ mounting Flange Footprint inserted into insulator · Easy crimp & poke installation • Excellent contact retention · Contacts may be crimped or soldered • Available on 3 to 14-Pole Configurations Request Sales Drawing for PCB .775 • Accepts multiple wire gauges 12, 16, 22 AWG mounting template ACCESSORIES Protective Connective Caps (IP-67 Seal Rating) Plug Soaking Cap In-Line Receptacle Dust Cover Panel-Mount Receptacle Dust Cover

Note: Part numbers cover black housings in Key 1 configuration. For other color and housing options utilize the Amphenol Alden connector configurator located at www.amphenolalden.com/configurator

(Wire Tether with cable loop)

P/N 111179-01

#### **Plug Soaking Cap** (Without Wire Tether)



P/N 107521-01

Note: Black (std.) Gray (opt.)

Plugs:

P/N 111026-01

(Wire Tether with cable loop)

#### Plug Soaking Cap:

The PL-900 Series Plug Soaking Cap is designed to protect the plug's contact system when a cable assembly is being cleaned or not in use. The soaking cap locks onto the plug providing an IP-67 seal that is ideal for soaking lin liquid disinfectants. The soaking cap can be permanently attached to a a cable assembly by means of a light weight tether.

ASSEMBLY INSTRUCTIONS

Receptacles:

AI-PL900SMN-ILR01 (3Pole, 12AWG)

AI-PL900SMN-ILR02 (7Pole, 16AWG)

AI-PL900SMN-ILR03 (10-14Pole, 22AWG)

AI-PL900SMN-RPM01 (3Pole, 12AWG)

AI-PL900SMN-RPM02 (7Pole, 16AWG)

AI-PL900SMN-RPM03 (10-14Pole, 22AWG)

AI-PL900SMN-P01 (3Pole, 12AWG) AI-PL900SMN-P02 (7Pole, 16AWG) AI-PL900SMN-P03 (10-14Pole, 22AWG)

**Receptacle Dust Cover** 

(Without Wire Tether)

P/N 107522-01

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