# Amphenol Alden

# PL-900SM-N SERIES Plastic Shell Auto-Coupling Connectors

14 pole capacity miniature power connector for overmolding

# · Available as a rugged overmolded

PL-900SM-N FEATURES

cable assembly · Polarized Housing eliminates

#### missmating

- · Up to 14 standard color
- combinations for coding

#### Performance (for harsh environments)

- · Water Proof, seals to cable
- Impact Resistant plastic housing
- Chemical Resistant
- Shock Proof housing design
  - High Performance flex relief extends cable life and strain 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 Housing) Insulation Resistance: Per ANSI/EIA-364-14

#### Material

Connector Housing: PL 900SM-N = Nylon

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 of primary consideration.

The compact PL-900 is available in

- Packaging (intuitive, compact, configurable) Pulse-Lok auto-latch/quick-release
- mechanism confirms continuity
- Concealed Contacts meet IEC and UL safety specifications
- Press & Seal contact system

#### Flex Reliefs: TPR

Contacts: Pins = Brass, Sockets = Bronze Alloy Contact Plating: Gold per MIL-G-45204C

#### Mechanical

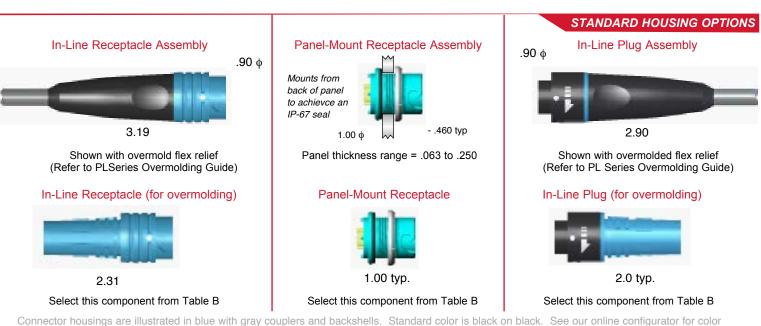
Mating Cycles: 20K cycles max Retention Force:

- Mated Connectors: 50 lbs. Minimum · Cable to Connector: to 50 lbs. typical
- Contact Barrel Wire Size: #12 to #22
- Contact Isolation: Probe @ 7lb. Per IEC 60601-1

### Environmental Operating Temp: -20C to +105C

- Moisture Resistance: IP-67 (IEC)
- · Flammability Rating: UL94 V-0 (PL-900SM-V onlysee
- Table B)
- · Chemical Resistance: Common industrial sol-
- vents
- (consult factory)

#### TABLE A: STANDARD CONTACT CONFIGURATIONS & SPECIFICATIONS **Contact Size** Contact Number of Poles Max Wire Gauge Rated Current Rated Voltage $Pin \phi (mm)$ Resistance Up to 14 14 0.7 22 5 600V AC/DC < 10m ohms contact positions 12 0.7 22 5 600V AC/DC < 10m ohms 22 5 600V AC/DC 10 0.7 < 10m ohms 7 1.5 16 15 600V AC/DC < 10m ohms 3 2.4 12 30 600V AC/DC < 10m ohms



options at: www.aldenproducts.com/configurator

contact an Amphenol Alden specialist today.

Phone: 508-427-7000 For additional information about this, or any other Alden product, please Fax: 508-583-0164 www.aldenproducts.com

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All dimensions shown in inches.

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## PL-900SM-N SERIES

Plastic Shell Auto-Coupling Connectors

14 Pole Capacity for High Power Applications

		STAI	STANDARD PART NUMBERS	
Number of Poles	In-Line Receptacle	RPM Receptacle - PCB	RPM Receptacle - SC	In-Line Plug
14	340196	340525	340518	340112
12	340182	340497	340490	340084
10	340168	340469	340462	340056
7	340154	n/a	340448	340028
3	340140	n/a	340434	340000

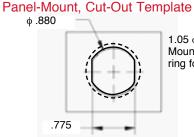
Note: Part numbers cover black housings in Key 1 configuration. For other color and housing options utilize the Alden connector configurator located @ www.aldenproducts.com/configurator

## Options Include: Housing Color Options

Mating Key Options Standard Panel-Mount Thickness Contact Termination Black, Gray, White, Blue, Red, Green, Yellow 2 Standard Keys, Proprietary Keys Available .187" Standard contact is equipped with a MIL crimp barrel suitable for soldering

CONNECTOD ACCEMPINT TOOLC

Assembly Instructions AI-PL900-03 In-Line Plug for overmolding AI-PL900-02 Panel-Mount Receptacle Available at: www.aldenproducts.com



1.05  $\phi$ Mounting ring footprint

		CONNECTOR ASSEMBLY TOOLS					
		In-Line Plug					
		Item	Alden P/N	Description	Application		
		1	390057	22AWG Insertion Tool	Pin to Plug Core		
	In-Line Plug 2	2	T-831	16AWG Insertion Tool	Pin to Plug Core		
	1	3	390020	12AWG Insertion Tool	Pin to Plug Core		
	and the second		T-706	Loading Nest	Plug Core Support Base		
	- CAL	4 5	390040	Pneumatic Crimper	Contact Termination Tool		
		6	390041	Stand for Pneumatic	Contact Termination Tool		
		-		Crimper			
	1 Plug Core	7	390035	Hand Crimper	Contact Termination Tool		
	2 Plug Housing Assembly	8	390032	Size - #12 Crimp Die	Contact Termination Tool		
		9	390031	Size - #16 Crimp Die	Contact Termination Tool		
		10	390030	Size - #22 Crimp Die	Contact Termination Tool		
		Decent					
		Recept		Description	Application		
		Item	Alden P/N	Description	Application		
	Dianaaphia Dagantaala	1	390056	22AWG Insertion Tool	Socket to Receptacle Core		
(	Disposable Receptacle	2 3	T-831	16AWG Insertion Tool	Socket to Receptacle Core		
	2		390020	12AWG Insertion Tool	Socket to Receptacle Core		
		4	T-705	Loading Nest	Receptacle Core Support Base		
		5	T-701	Insertion Tool	Receptacle Core to Housing		
		6	390040	Pneumatic Crimper	Contact Termination Tool		
	1 Receptacle Housing	7	390041	Stand for Pneumatic	Contact Termination Tool		
	2 Pin Insert			Crimper			
		8	390035	Hand Crimper	Contact Termination Tool		
		9	390032	Size - #12 Crimp Die	Contact Termination Tool		
		10	390031	Size - #16 Crimp Die	Contact Termination Tool		
		11	390030	Size - #22 Crimp Die	Contact Termination Tool		
For additional information about this or any other Alden product places.   Phone: 508-427-7000							

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#### PL-900SM-N SERIES Plastic Shell Auto-Coupling Connectors 14 Pole Capacity for High Power Applications ORIES ACCESSORIES Protective Connective Caps (IP-67 Seal Rating) Panel 1 Panel-Mount Receptacle In-Line Receptacle In-Line Plug Wire tether with cable loop Wire tether with cable loop Nylon tether locks into panel washer 107522-88 107523-88 107521-88 Part numbers cover black cap moldings - gray optional. Panel-Mount Receptacle Dust Cover -Panel-Mount Receptacle Dust Cover The PL-900 Series receptacle dust cover protects the receptacles contact system from dust, moisture, and mechanical stress when the connector pair is disengaged. When secured the dust cover will provide an IP-67 environmental seal. The cover is equipped with

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 in liquid disinfectants. The soaking cap can be

permanently attached to a cable assembly by

means of a light weight tether.

a tether for security.

Plug Soaking Cap -

Alden P/N 107522-01

Alden P/N 107521-01

Standard color is black. Gray optional

Standard color is black. Gray optional

Plug Soaking Cap

For additional information about this, or any other Alden product, please contact an Amphenol Alden specialist today.



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