

### PL-900RG-S FEATURES



Amphenol Alden's **Pulse-Lok®** 900RG-S Series plated plastic housing fulfills the requirement of EMI & RFI shielding.

#### Overview (intuitive, compact, configurable)

- **Pulse-Lok®** auto-latch / mating confirmation
- 6 color options in a variety of combinations
- Multiple standard and proprietary keying options
- Up to 52 contact positions
- 100% EMI/RFI shielding capability

#### Order as a full cable assembly (Consult Factory)

- Single or double ended
- Customize your cable bundle
- Overmolded strain relief
- Add components to fulfill design requirements

### SPECIFICATIONS

#### Material

Connector Housing: Polycarbonate  
Molded Core Insulator: Polyamide 46  
Contacts: Brass / Phosphor Bronze

- 30μ" Gold over 50μ" Nickel

Flammability Rating

- Housing & Coupler: UL94 V-0
- Molded Contact Insulator (core): UL94 V-0

#### Mechanical

Mating Cycles: 5,000  
Mating Force:

- Mate: 13.5 lbs. Max
- Un-mate: 3.0 lbs. Max
- Unintended extraction: 70 lbs. Min.
- Backshell Withdrawal: 9.5lbs. Min.\*\*\*

#### Environmental

- Operating Temp: -20C to +85C\*\*
- Moisture Resistance: to IP-67 (mated)
- Sterilizable: gamma & EtO
- Chem. Resistance: common OR cleaning solvents

\*\*Dependent on overmold material

\*\*\*Backshell sold separately

TABLE A:

STANDARD CONTACT CONFIGURATIONS & SPECIFICATIONS

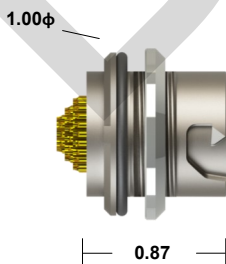
Number of Poles	Contact Size Pin $\phi$ (mm)	Max Wire Gauge	Operating Voltage Max	Operating Current Max (A)*	Mated Contact Resistance (m $\Omega$ )
52	0.5	26	300 V RMS	1.5	<50
41	0.5	22	300 V RMS	2.0	<50
35	0.5	26	300 V RMS	1.5	<50
28	0.5	26	300 V RMS	1.5	<50
24	0.5	26	300 V RMS	1.5	<50
24	0.7	22	300 V RMS	2.0	<50
17	0.5	26	300 V RMS	1.5	<50
15	0.7	22	300 V RMS	2.0	<50
11	0.5	26	300 V RMS	1.5	<50
9	0.7	22	300 V RMS	2.0	<50

\*30C Heat Rise Limit

Custom contact inserts are available. Consult factory.

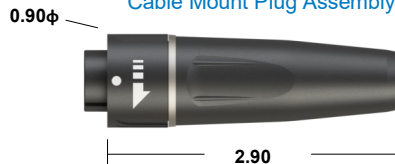
### STANDARD HOUSING OPTIONS

Rear Panel-Mount  
Receptacle Assembly



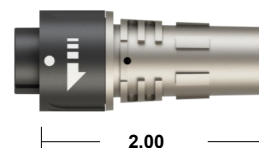
Panel Thickness Range = 0.063 to 0.250  
Select this component from Table B

Cable Mount Plug Assembly



Shown with optional backshell

Cable Mount Plug Kit



Select this component from Table B

Note: Standard color configuration is black. See our online configurator for more color options at: [www.amphenolalden.com/configurator](http://www.amphenolalden.com/configurator) \*All dimensions shown in inches except where indicated

For additional information about this, or any other Amphenol Alden product, please contact an Amphenol Alden specialist today, [www.AmphenolAlden.com](http://www.AmphenolAlden.com)

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# PL-900RG-S SERIES

Plated Plastic Shell Auto-Coupling Connectors *52 pole capacity disposable receptacle and support interconnects*

TABLE B:

STANDARD PART NUMBERS

Number of Poles	Rear Panel-Mount Receptacle		Cable Mount Plug
	Solder Cup	PCB	Solder Cup
52	343765	343769	343823
41	343757	343761	343819
35	343749	343753	343815
28	343741	343745	343811
24 (26AWG)	343773	343777	343807
24 (22AWG)	343733	343737	343803
17	343725	343729	343799
15	343717	343721	343795
11	343709	343713	373791
9	343701	343705	343787

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

**Options Include:**

Indicator Color Options

Mating Key Options

Panel-Mount Thickness Options

White (std.) & Red

2 Standard Keys, Proprietary Keys Available

.125 (std.), .063, .187, .250

## CONTACT TERMINATION OPTIONS

### PCB (Panel-Mount Receptacles only)



Request Sales Drawing for PCB mounting template

#### Features & Benefits

- Available in most pole counts from 9 to 52 Poles
- PCB stand-offs ensure proper positioning
- Convenient packaging high temperature contact cures may be soldered to PCB and snapped into panel-mounted receptacle housing later



#### Features & Benefits

Tiered solder cups provide easy access to center positions. Canted cups facilitate quick and easy wire positioning. Standard on 9-52 pole configurations

### Panel-Mount, Cut-Out Template

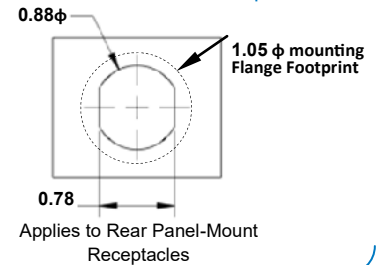
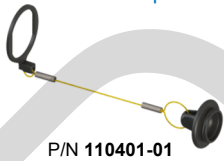


TABLE C:

## ACCESSORIES

### Panel-Mount Receptacle Dust Cover (Nylon Tether locks into panel washer)



P/N 110401-01

### Cable Mount Receptacle Dust Cover (Wire Tether with cable loop)



P/N 111026-01

#### 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 a tether for security.

### Disposable Receptacle Backshell



(Wire exit i.d.)

Dimension A	Part Number
0.140	107307-01
0.166	107307-08
0.180	107307-15
0.210	107307-22
0.260	107307-29

### Plug Backshell



(Wire exit i.d.)

Dimension A	Part Number
0.354	109353-01
0.420	109353

### Plug Soaking Cap (Wire Tether with cable loop)



P/N 111179-01

#### 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 in liquid disinfectants. The soaking cap can be permanently attached to a cable assembly by means of a light weight tether.

Note: Black (std.) Gray (optional) & accessories sold separately

## Assembly Instructions:

AI-PL900RGS-01 (9-52, 22&26AWG)

## ASSEMBLY INSTRUCTIONS

Note: recommended tooling included in assembly instructions

For additional information about this, or any other Amphenol Alden product, please contact an Amphenol Alden specialist today, [www.AmphenolAlden.com](http://www.AmphenolAlden.com)

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