

# PL-1200RG-N Series

**Plastic Shell** Auto-Coupling Connectors

**78 pole** capacity interconnect system



## Features

Specifically designed for electro-surgical catheter applications, the robust and cost-effective PL-1200RG-N Series offers more features, contacts, and termination options than the competition.

### Overview (intuitive, compact, configurable)

- Pulse-Lok® auto-latch / quick release mechanism confirms continuity in critical surgical applications
- 6 color options in a variety of combinations
- Multiple standard and proprietary keying options
- Up to 78 contact positions

### 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 (for reference only)

### Material

- Connector Housing: Polyamide 12 (LV3H)
- Molded Core Insulator: Polyamide 46
- Contacts: Brass / PhosphorBronze
  - 30μ" Gold over 50μ" Nickel Flammability Rating
- Housing & Coupler: UL94 HB
- Molded Contact Insulator (core): UL94 V-0

### Mechanical

- Mating Cycles: 5,000
- Mating Force:
  - Mate: 16.5 lbs.Max
  - Un-mate: 5 lbs.Max
  - Unintended extraction: 40 lbs.Min.
  - Backshell Withdrawal: 18.5 lbs.Min.\*\*\*

### Environmental

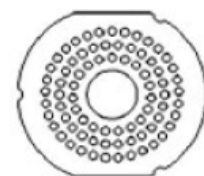
- Operating Temp: -20C to+105C
- Moisture Resistance to IP-67 (mated)
- Sterilizable: EtO - Consult factory
- Chem. Resistance: common operating room cleaning solvents

\*\*\*Backshell sold separately

**Table A: Standard Contact Configurations & Specifications**

| Number of Poles | Contact Size (Pin Diameter - mm) | Max Wire Gauge | Operating Voltage Max (V RMS) | Operating Current Max (A)* | Mated Contact Resistance (mΩ) |
|-----------------|----------------------------------|----------------|-------------------------------|----------------------------|-------------------------------|
| 78              | 0.5                              | 26             | 300                           | 1.5                        | <50                           |
| 59              | 0.5                              | 26             | 300                           | 1.5                        | <50                           |
| 52              | 0.5                              | 26             | 300                           | 1.5                        | <50                           |
| 45              | 0.5                              | 26             | 300                           | 1.5                        | <50                           |
| 26              | 0.5                              | 26             | 300                           | 1.5                        | <50                           |
| 19              | 0.5                              | 26             | 300                           | 1.5                        | <50                           |

**Up to 78 Contact Positions**

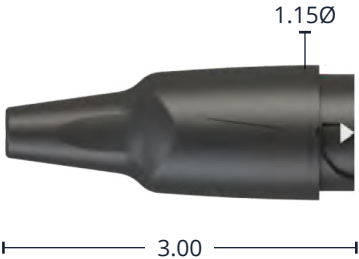


\*30° C Heat Rise Limit  
Custom contact inserts are available. Consult factory.

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

Standard Housing Options - dimensions in inches

**In-Line Receptacle Assembly**



1.15Ø

3.00

Shown with optional backshell  
(See Table C)

**In-Line Receptacle**



1.00

Select this component from Table B

**Rear Panel-Mount Receptacle**



1.25Ø

0.88

Mounts from back of panel to achieve an IP-67 Seal

Select this component from Table B

**Cable Mount Plug Assembly**



1.15Ø

3.30

Shown with optional backshell  
(See Table C)

**Cable Mount Plug Kit**



2.00

Select this component from Table B

Connector housings are illustrated in teal with grey couplers and backshells.  
Standard color is black on black. See our online configurator for color options at : [www.amphenolalden.com/configurator](http://www.amphenolalden.com/configurator)  
\*All dimensions shown in inches except where indicated

Table B: Standard Part Numbers

| Number of Poles | In-Line Receptacle | Rear Panel-Mount Receptacle |        | Cable Mount Plug |
|-----------------|--------------------|-----------------------------|--------|------------------|
|                 | Solder Cup         | Solder Cup                  | PCB    | Solder Cup       |
| 78              | 380588             | 380700                      | 380707 | 380000           |
| 59              | 380532             | 380728                      | 380735 | 380056           |
| 52              | 380504             | 380756                      | 380763 | 380112           |
| 45              | 380476             | 380784                      | 380791 | 380168           |
| 26              | 380448             | 380812                      | 380819 | 380224           |
| 19              | 380420             | 380840                      | 380847 | 380280           |

**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](http://www.amphenolalden.com/configurator)

- Options Include:**
- Housing Color Options: Black (std.), Gray, White, Blue, Red, Green, Yellow
  - Mating Key Options: 2 Standard Keys, Proprietary KeysAvailable
  - Panel-Mount Thickness Options: .125 (std.), .063,.187,.250

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## Contact Termination Options

### PCB (Panel-Mount Receptacles only)



Request Sales  
Drawing for PCB  
mounting template

#### Features & Benefits

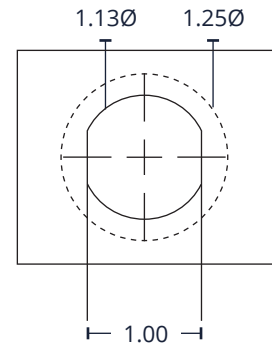
- Available in most pole counts from 19 to 78 Poles
- PCB stand-offs ensure proper positioning
- Convenient packaging high temperature contact cures may be soldered to PCB and snapped into panel-mounted receptacle housing later



#### Features & Benefits

Tiered solder cups provide easy access to center positions. Canted cups facilitate quick and easy wire positioning. Standard on 19-78pole configurations

### Panel-Mount, Cut-Out Template



1.25Ø Mounting Flange Footprint

Applies to Rear  
Panel-Mount Receptacles

## Accessories - dimensions in inches

### PCB (Panel-Mount Receptacles only)



P/N107802-01

#### Inline Receptacle Backshell:

In applications where the disposable receptacle is attached directly to a cable or catheter this one piece backshell is available to protect light gauge wire terminations and provide an anchor point for the catheter jacket. These backshells snap into place and may be capsulated



2.65

### Panel-Mount Receptacle Dust Cover



P/N109767-01

#### Panel-Mount Receptacle Dust Cover:

The PL1200 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.

### Plug Soaking Cap



P/N109766-01

#### Plug Soaking Cap:

The PL1200 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.

## Assembly Instructions

AI-PL1200RGN-01

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