

### PL-1200RG-N FEATURES

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

#### Packaging (intuitive, compact, configurable)

- Pulse-Lok® auto-latch / quick release mechanism confirms continuity in critical surgical applications
- 14 standard color combinations
- Proprietary keying protects your single-use from being copied, or mated with the wrong connector

- Custom configurations available including passive and active devices for coding or limiting catheter usage

#### Performance (for harsh environments)

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

### SPECIFICATIONS

#### Electrical (See Table A)

Mating Life: 5,000 cycles min.  
Contact Resistance: < 10 milliohms\*

#### Material

Connector Housing: Thermoplastic  
Flex Reliefs: Thermoplastic Rubber  
Contacts: Pins = Brass, Sockets = Bronze Alloy  
Gold Plate per MIL-G-45204C  
Reusable Socket = 30 - 45µ" Gold over 50 - 200µ" Nickel strike  
Disposable Pin = 10 - 30µ" Gold over 50 - 200µ" Nickel strike

#### Mechanical

Mating Cycles: 20K cycles max  
Retention Force (axial):  
• Mated Connectors: 50 lbs. Minimum  
• Cable to Connector: to 50 lbs. typical  
• Backshell to Connector: 50 lbs. Minimum

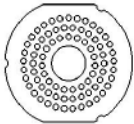
#### Environmental

- Operating Temp: -20C to +105C
- Moisture Resistance: to IP-67
- Sterilizable: steam, gamma & EtO
- Chem. Resistance: common OR cleaning solvents

\* post conditioning

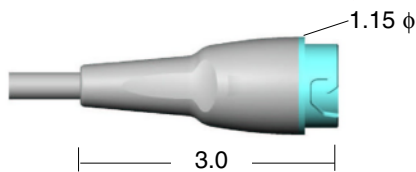
TABLE A: AVAILABLE CONTACT CONFIGURATIONS & SPECIFICATIONS

Up to 78  
contact positions



Number of Poles	Contact Size Pin $\phi$ (mm)	Max Wire Gauge	Operating Voltage max	Operating Current Max	Contact Resistance
78	0.5	26	300 V RMS	1.0 A	< 10m ohms
59	0.5	26	300 V RMS	1.0 A	< 10m ohms
52	0.5	26	300 V RMS	1.0 A	< 10m ohms
45	0.5	26	300 V RMS	1.0 A	< 10m ohms
26	0.5	26	300 V RMS	1.0 A	< 10m ohms
19	0.5	26	300 V RMS	1.0 A	< 10m ohms

#### Disposable Receptacle Assembly



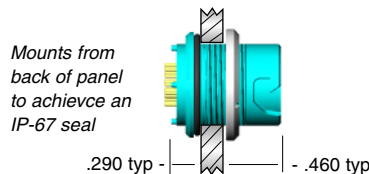
Shown with optional backshell (See Table C)

#### Disposable Receptacle



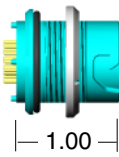
Select this component from Table B

#### Panel-Mount Receptacle Assembly



Panel thickness range = .063 to .250

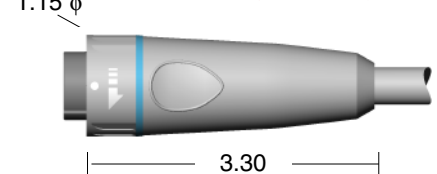
#### Panel-Mount Receptacle



Select this component from Table B

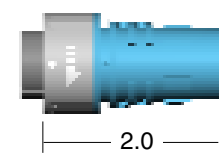
### STANDARD HOUSING OPTIONS

#### In-Line Plug Assembly



Shown with Overmolded Strain Relief (Refer to PL Series Overmolding Guide)

#### In-Line Plug (for overmolding)



Select this component from Table B

Connector housings are illustrated in blue with gray couplers and backshells. Standard color is black on black. See our online configurator for color options at: [www.aldenproducts.com/configurator](http://www.aldenproducts.com/configurator)

\* All dimensions shown in inches.

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

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# PL-1200RG-N SERIES

Plastic Shell Auto-Coupling Connectors 78 Pole Capacity Interconnect System

**TABLE B:**

**STANDARD PART NUMBERS**

Number of Poles	Disposable Receptacle	Panel-Mount Receptacle		In-Line Plug
		Solder Cup See Panel 3	PCB See Panel 2	
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 Alden connector configurator located @ [www.aldenproducts.com/configurator](http://www.aldenproducts.com/configurator)

**Options Include:**

Housing Color Options

Mating Key Options

Panel-Mount Thickness Options

Black, Gray, White, Blue, Red, Green, Yellow

2 Standard Keys, Proprietary Keys Available

Up to .187 Standard

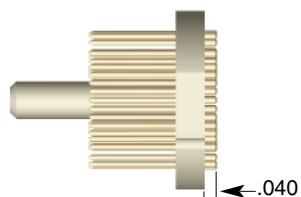
**CONTACT TERMINATION OPTIONS**

**PCB Terminations**

**Disposable Receptacle & In-Line Plug**

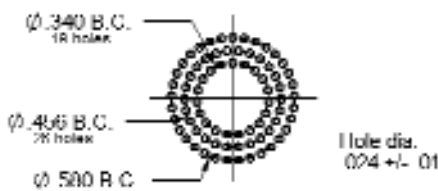
**Panel 1**

**Pin Length & Application**



Intended for termination to flex circuit

**Flex Circuit Mounting Template**



**Flex Circuit Benefits**

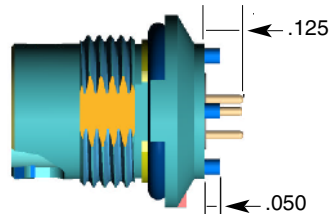
- Facilitates the automated internal application of passive and active electronic components.
- Facilitates the introduction of automated mass termination techniques. These termination methods are extremely cost effective when terminating 78 pole connectors.

**PCB Terminations**

**Panel-Mount Receptacle**

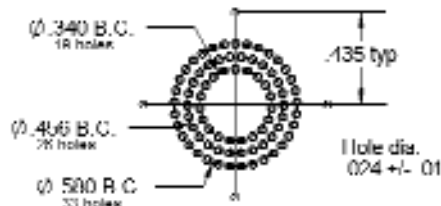
**Panel 2**

**Pin Length & Application**

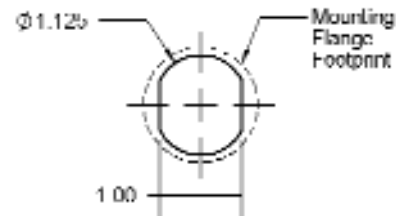


Intended for mounting on rigid PC Board

**Printed Circuit Board Mounting Template**



**Panel-Mount, Cut-Out Template**



**Solder Terminations**

**Disposable Receptacle, PanelMount Receptacle, & In-Line Plug**

**Panel 3**

**Solder Cup**



For wires up to 26 AWG

Tiered solder cups provide easy access to center positions

Canted cups facilitate quick and easy wire positioning

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

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# PL-1200RG-N SERIES

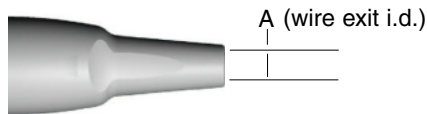
Plastic Shell Auto-Coupling Connectors 78 Pole Capacity Interconnect System

# ACCESSORIES

TABLE C:

## DISPOSABLE RECEPTACLE BACKSHELLS

### Disposable Receptacle Backshell



Dimension A	Color	Alden P/N
0.260"	Black	107802-01
0.260"	Gray	107802-02

### Disposable 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 encapsulated.

Standard color is black. Gray is optional.

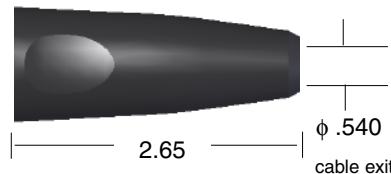
### Disposable Receptacle Accessories



Description	Part Number
Bulkhead Seal	107912
Hex Mounting Nut	107911

### Disposable Receptacle Mounting Accessories -

For applications where the disposable receptacle housing is mounted directly onto an enclosure or hand piece an o-ring seal is available to environmentally secure this interface. A light weight hex nut is also available for mounting this housing to a panel.



Alden P/N 108552-01  
Standard material is black PVC

Completes PL-1200 Plug Assembly

### Panel-Mount Receptacle Dust Cover



Alden P/N 109767-01 (Consult Factory)  
Standard color is black. Gray optional

### Panel-Mount Receptacle Dust Cover -

The PL-1200 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



Alden P/N 109766-01 (Consult Factory)  
Standard color is black. Gray optional

### Plug Soaking Cap -

The PL-1200 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.

# CONNECTOR ASSEMBLY TOOLS

### Disposable Receptacle



1 Receptacle Housing  
2 Pin Insert

### In-Line Plug



1 Plug Core  
2 Plug Housing Assembly

Assembly instructions available at: [www.aldenproducts.com](http://www.aldenproducts.com)

### Receptacles

Item	Alden P/N	Description	Application
1	T-881	Installation Tool, Hand	Pin Insulator to Housing
2	T-904	Installation Tool, Arbor	Pin Insulator to Housing
3	T-882	Installation Tool, Arbor	Backshell to Housing
4	T-924	Soldering Fixture/Template	Pin Identification and Termination
5	390049	Solder Fixture	Fastening Panel-Mount Spanner Ring

### In-Line Plug

Item	Alden P/N	Description	Application
1	T-883	Installation Tool, Arbor	Contact Insulator to Housing
2	T-923	Soldering Fixture/Template	Contact Identification and Termination
2	T-915	Installation Tool, Arbor	Backshell to Housing

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