

### PL-700RG-N FEATURES



Specifically designed for electro-surgical catheter applications, the **Pulse-Lok®** 700RG-N Series 0.700" inch footprint and reverse gender configuration offers a cost effective solution.

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

- **Pulse-Lok®** auto-latch / mating confirmation mechanism
- Up to 27 contact positions
- Multiple standard and proprietary keying options
- 6 color options in a variety of combinations

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

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

### SPECIFICATIONS

#### Material

- Connector Housing: Polyamide
- Molded Core Insulator: LCP
- Contacts: Brass/Phosphor Bronze
- 30µ" Gold over 50µ" Nickel
- Flammability Rating
- Housing/Coupler Assembly: 94HB
- 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: 30 lbs. Min.
- Backshell Withdrawal: 5.0lbs. 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

#### Up to 27 Contact Positions



Number of Poles	Contact Size Pin $\phi$ (mm)	Max Wire Gauge	Operating Voltage Max	Operating Current Max (A)*	Mated Contact Resistance (m $\Omega$ )
27	0.5	26	300 V RMS	2.0	<50
24	0.5	26	300 V RMS	2.0	<50
14	0.7	22	300 V RMS	3.0	<50

\*30C Heat Rise Limit

Custom contact inserts are available. Consult factory.

### STANDARD HOUSING OPTIONS

#### Disposable Receptacle



Select this component from Table B

#### Front Panel-Mount Receptacle Assembly



Panel Thickness Range = 0.063 to 0.250

Note: The disposable receptacle housing is threaded and may be panel-mounted on a disposable hand piece or electronic accessory. A panel-mount receptacle from Amphenol Alden's PL-700SM-N Series may be preferable for reusable applications.

#### Cable Mount Plug Assembly



#### Cable Mount Plug Kit



Select this component from Table B

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

# PL-700RG-N SERIES

Plastic Shell Auto-Coupling Connectors **27 pole capacity disposable receptacle and support interconnects**

**TABLE B:**

## STANDARD PART NUMBERS

Number of Poles	Disposable Receptacle		Front Panel-Mount Receptacle		Cable Mount Plug
	Solder Cup	PCB	Solder Cup	PCB	Solder Cup
27	107264-01	107376-01	<b>Contact Factory</b>		315252
24	316454	316452			315224
14	107265-01	107377-01			315140

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  
Mating Key Options  
Panel-Mount Thickness Options

Black (std.), Gray, White, Blue, Red, Green, Yellow  
2 Standard Keys, Proprietary Keys Available  
Up to 0.187(std.)

### CONTACT TERMINATION OPTIONS

**PCB (Disposable Receptacle)**



Request Sales Drawing for PCB mounting template

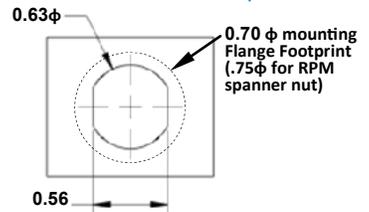
**Solder Cup (Available for All)**



**Features & Benefits**

Tiered solder cups provide easy access to center positions. Canted cups facilitate quick and easy wire positioning. Standard on 14-27 pole configurations

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



Applies to Disposable Receptacle

**TABLE C:**

### ACCESSORIES

**Front Panel-Mount Receptacle Dust Cover**



P/N 300390

**Backshell**



The PL-700 plug housing is designed to accept Amphenol Alden's one piece, Press & Seal PVC Backshell. This unique backshell simply snaps into place providing an IP-67 rated seal to the plug housing and cable exit without hardware resulting in a clean overmolded look. For optimum sealing we suggest selecting a wire exit i.d. that is at least .005" smaller than your nominal cable diameter .

**Plug Soaking Cap**



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Dimension A (Inches)	Part #	
	(Black)	(Gray)
0.053	300350	300351
0.064	300352	300353
0.075	300354	300355
0.086	300356	300357
0.096	300358	300359
0.104	300360	300361
0.120	300362	300363
0.129	300364	300365
0.142	300366	300367
0.153	300368	300369
0.162	300370	300371
0.170	300372	300373
0.186	300374	300375
0.204	300376	300377
0.215	300378	300379
0.225	300380	300381
0.235	300382	300383
0.249	300384	300385
0.264	300386	300387
0.300	300388	300389

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

**Receptacle Instructions:**

- AI-PL700RGN-R01 (14Pole, 22AWG)
- AI-PL700RGN-R02 (24-27Pole, 26AWG)

**Cable Mount Plug Instructions**

- AI-PL700RGN-P01 (14Pole, 22AWG)
- AI-PL700RGN-P02 (24-27Pole, 26AWG)

### ASSEMBLY INSTRUCTIONS

Note: accessories sold separately

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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