Amphenol Alden

PL-900RG-N SERIES, A. Plastic Shell Auto-Coupling Connectors 52 pole capacity disposable receptacle and

support interconnects

PL-900RG-N FEATURES



Specifically designed for electro-surgical catheter applications, the compact and cost effective PL-900 Series offers more features, contacts, and termination options than the competition.

Packaging (intuitive, compact, configurable)

- Pulse-Lok® auto-latch / mating confirmation 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 including passive and active devices for coding or limiting catheter usage

Performance (for harsh environments)

- Water proof (IP-67 rated)
- Sterilizable
- Chemical resistant housing
- Up to 5,000 mating cycles (with std.Contacts)
- · Factory terminated, overmolded cable assemblies for enhanced flex and stain relief

SPECIFICATIONS

Electrical (see below)

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

Material

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

Mechanical

Mating Cycles: 5K cycles max Retention Force: • Mated Connectors: 50 lbs. Minimum

TABLE A:

- Cable to Connector: 50 lbs. Typical Backshell to Connector: 50 lbs. Minimum

Environmental

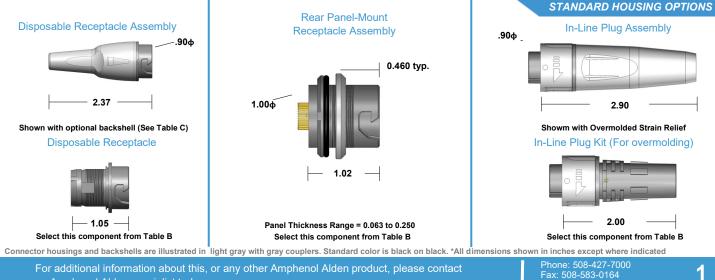
- Operating Temp: -20C to +85C**
- Moisture Resistance: to IP-67 (encapsulated)
- Sterilizable: gamma, EtO & Autoclave
- Chem. Resistance: common OR cleaning solvents
- Shelf Life: 3 years (min) Disposable Connectors
- * post conditioning
- ** Dependent on overmold material

STANDARD CONTACT CONFIGURATIONS & SPECFICATIONS

Up to 52 Co Positior

52 0.5 26 300 V RMS 2.0 <10m	ntact istance hms)
41 0.5 22 300 V RMS 2.0 <10m 35 0.5 26 300 V RMS 2.0 <10m	10m
28 0.5 26 300 V RMS 2.0 <10m 24 0.5 26 300 V RMS 2.0 <10m	10m
24 0.5 26 300 V RMS 2.0 <10m 24 0.7 22 300 V RMS 5.0 <10m	10m
24 0.5 26 300 V RMS 2.0 <10m 24 0.7 22 300 V RMS 5.0 <10m	10m
24 0.7 22 300 V RMS 5.0 <10m 17 0.5 26 300 V RMS 2.0 <10m	10m
17 0.5 26 300 V RMS 2.0 <10m	10m
	10m
15 0.7 22 300 V RMS 5.0 <10m	10m
11 0.5 26 300 V RMS 2.0 <10m	10m
9 0.7 22 300 V RMS 5.0 <10m	10m





PL-900RG-N SERIES

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

TABLE B: STANDARD PART NUM					
Number of Poles	Disposable Receptacle		Rear Panel Recepta		In-Line Plug
	Solder Cup	PCB	Solder Cup	PCB	Solder Cup
52	341406	342946	342512	342519	341252
41	341392	342932	342484	342491	341224
35	341378	342918	342456	342463	341196
28	341364	342904	342428	342435	341168
24 (26AWG)	341350	342890	342541	342407	341140
24 (22AWG)	341336	342876	342372	342379	341112
17	341322	342862	342344	342351	341084
15	341308	342848	342316	342323	341056
11	341294	342834	342288	342295	341028
9	341280	342820	342260	342267	341000

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

Options Include: Indicator Color Options Mating Key Options

0.040

Termination Styles

Pin Length & Application

Intended for termination to flex circuit

PCB (Panel-Mount Receptacles only)

Request Sales Drawing for PCB

mounting template

Black (std.), Gray, White, Blue, Red, Green, Yellow 2 Standard Keys, Proprietary Keys Available .125 (std.), .063, .187,.250

CONTACT TERMINATION OPTIONS



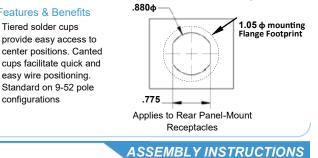
Flex Circuits Benefits

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 52 pole connectors

Panel 2

Panel-Mount, Cut-Out Template



Receptacles:

AI-PL900RGN-ILR01 (3Pole, 12AWG) AI-PL900RGN-ILR02 (7Pole, 16AWG) AI-PL900RGN-ILR03 (10-14Pole, 22AWG) AI-PL900RGN-RPM01 (3Pole, 12AWG) AI-PL900RGN-RPM02 (7Pole, 16AWG) AI-PL900RGN-RPM03 (10-14Pole, 22AWG) Plugs: AI-PL900RGN-P01 (3Pole, 12AWG) AI-PL900RGN-P02 (7Pole, 16AWG)

.050

Features & Benefits

provide easy access to

easy wire positioning.

Standard on 9-52 pole

configurations

Tiered solder cups

AI-PL900RGN-P03 (10-14Pole, 22AWG)



Intended for mounting on rigid PC Board

Features & Benefits

· Available in most pole counts

PCB stand-offs ensure proper

Convenient packaging high

temperature contect cures may

into panel-mounted receptacle

be soldered to PCB and snapped

from 9 to 52 Poles

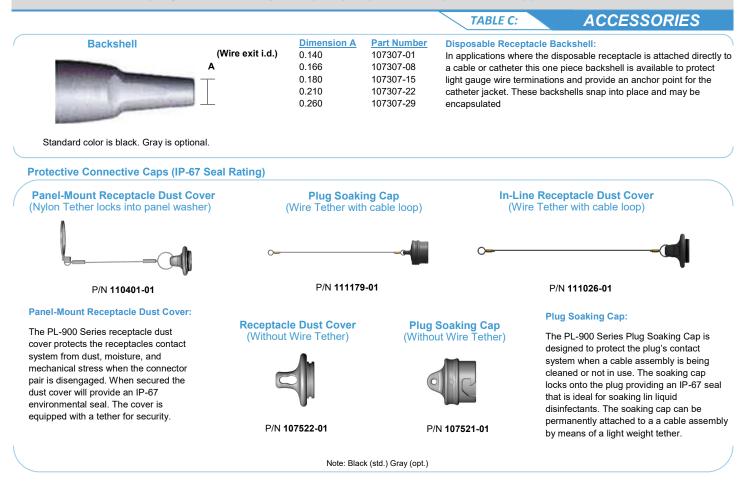
positioning

housing later

For additional information about this, or any other Amphenol Alden product, please contact

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

341252342512107521-01341406341392341378341364341350341336342932342918342904342890342876342484342456342428342372342344342519342491342463342435342407342379342351341224341196341168341140341112341084107307-22107307-29111026-06110401-01110401-09111026-04111026-05110401-02111026-02342541111026-03111026-07111026-01110401-08