

### PL-500SM-N FEATURES



Ideal for panel-mount instrumentation and hand-held equipment, the compact and cost effective **Pulse-Lok®** 500SM-N Series is designed to meet the efficient packaging demands of portable electronic devices.

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

- **Pulse-Lok®** auto-latch / mating confirmation
- Miniature 0.520" diameter circular shell
- Up to 14 contact positions
- Multiple standard and proprietary keying options available
- 6 various color options

#### 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: Polyamide 12 (LV3H)
- Molded Contact Insulator (core): LCP
- Contacts: Brass/Phosphor Bronze
- 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: 5 lbs. Max
  - Un-mate: 1.5 lbs. Max
  - Unintended Extraction: 35 lbs. Min.
  - Backshell withdrawal: 5 lbs. Min.\*\*\*

#### Environmental

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

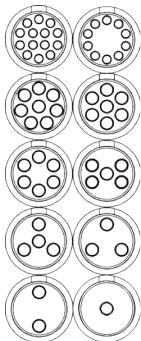
\*\*Dependent on overmold material. Consult factory

\*\*\*Backshell sold separately

TABLE A:

STANDARD CONTACT CONFIGURATIONS & SPECIFICATIONS

#### Up to 14 Contact Positions



Number of Poles	Contact Size Pin $\phi$ (mm)	Max Wire Gauge	Operating Voltage Max	Operating Current Max (A)*	Mated Contact Resistance (m $\Omega$ )
14	0.5	26	300 V RMS	2.5	<50
10	0.5	26	300 V RMS	2.5	<50
8	0.7	22	300 V RMS	3.5	<50
7	0.7	22	300 V RMS	3.5	<50
6	0.7	22	300 V RMS	3.5	<50
5	0.7	22	300 V RMS	3.5	<50
4	0.7	22	300 V RMS	3.5	<50
3	0.7	22	300 V RMS	3.5	<50
2	0.7	22	300 V RMS	3.5	<50
1	0.7	22	300 V RMS	3.5	<50
1	1.5	16	300 V RMS	5.0	<50

\*30C Heat Rise Limit

Custom contact inserts are available. Consult factory.

### STANDARD HOUSING OPTIONS

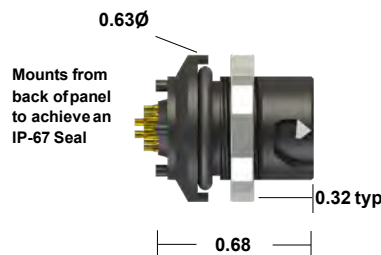
#### Cable Mount Receptacle Assembly



#### Cable Mount Receptacle Kit



#### Rear Panel-Mount Receptacle Assembly

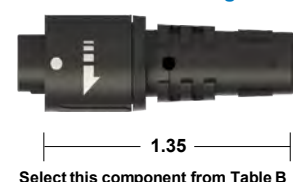


Panel thickness range = 0.063 to 0.125  
Select this component from Table B

#### Cable Mount Plug Assembly



#### Cable Mount Plug Kit



\*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)

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-500SM-N SERIES

Plastic Shell Auto-Coupling Connectors **14 pole capacity miniature circular connector**

TABLE:

## STANDARD PART NUMBERS

Number of Poles	Cable Mount Receptacle	Rear Panel-Mount Receptacle		Cable Mount Plug
	Solder Cup	Solder Cup	PCB	Solder Cup
14	320679	320483	320875	320182
10	320651	320455	320847	320126
8	320637	320441	320833	320098
7	320630	320434	320826	320084
6	320623	320427	320819	320070
5	320616	320420	320812	320056
4	320609	320413	320805	320042
3	320602	320406	320798	320028
2	320595	320399	320791	320014
1 (22 AWG)	320588	320392	320784	320000
1 (16 AWG)	321022	321008		320980

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 .125 Standard

### Receptacles & Cable Mount Plug

### CONTACT TERMINATION OPTIONS

#### PCB (Panel-Mount Receptacles only)



Stand off height 0.05"  
Pin length 0.125"

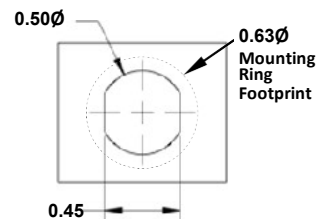
Request sales drawing for PCB Mounting Templates

#### Solder Cup (Available for All)



Tiered contact solder cups provide easy access to center positions. Canted cups facilitate quick and easy wire positioning. Standard on 2-14 pole configurations

#### Panel-Mount, Cut-Out Template



### ACCESSORIES

#### Receptacle Dust Cover



P/N 107976

#### Backshell



P/N 108194-02  
(For 0.20" Cable Diameter)

#### Plug Soaking Cap



P/N 112058-01

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

### ASSEMBLY INSTRUCTIONS

#### Cable Mount Receptacle Instructions:

AI-PL500SMN-IR01 (1Pole, 16AWG)

AI-PL500SMN-IR02 (1-14 Pole, 22/26AWG)

#### Panel-Mount Receptacle Instructions:

AI-PL500SMN-PMR01 (1Pole, 16AWG)

AI-PL500SMN-PMR02 (1-14 Pole, 22/26AWG)

#### Cable Mount Plug Instructions:

AI-PL500SMN-P01 (1Pole, 16AWG)

AI-PL500SMN-P02 (1-14 Pole, 22/26AWG)

Note: Assembly may be required, 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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