

PL-500SM-Z FEATURES



Compact and secure, the **Pulse-Lok®** 500SM-Z Series connectors are Amphenol Alden's ideal solution for hand-held equipment and harsh environmental situations. The **Pulse-Lok®** 500SM-Z durable metal shell will support your harshest of interconnector requirements.

Overview (intuitive, compact, configurable)

- **Pulse-Lok®** auto-latch / mating confirmation
- Miniature 0.520" diameter metal circular shell
- Up to 14 contact positions
- Multiple and proprietary keying options available
- 3 various pad print 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: Zinc Alloy, Nickel Plated
Molded Core Insulator: LCP
Contacts: Brass/Phosphor Bronze
• 30µ" Gold over 50µ" Nickel
Flammability Rating
• 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: 4 lbs. Min.***

Environmental

- Operating Temp: -20C to +105C**
- Moisture Resistance: to IP-67 (mated)
- Sterilizable: gamma & EtO**
- Chem. Resistance: common OR cleaning solvents

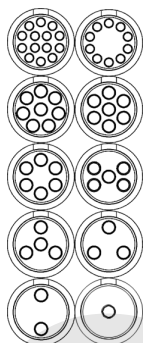
**Dependent on overmold material

***Backshell sold separately

TABLE A:

STANDARD CONTACT CONFIGURATIONS & SPECIFICATIONS

Up to 14 Contact Positions



| Number of Poles | Contact Size Pin Ø (mm) | Max Wire Gauge | Operating Voltage Max | Operating Current Max (A)* | Mated Contact Resistance (mΩ) |
|-----------------|----------------------------|----------------|--------------------------|-------------------------------|-------------------------------------|
| 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

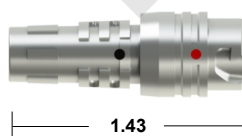
Custom contact inserts are available. Consult factory.

STANDARD HOUSING OPTIONS

Cable Mount Receptacle Assembly

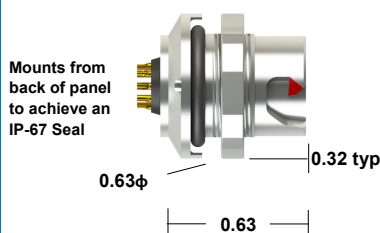


Cable Mount Receptacle Kit



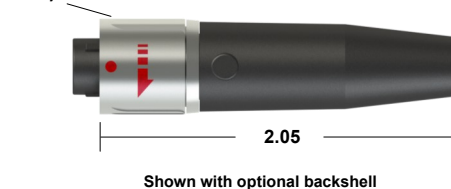
Select this component from Table B

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



Select this component from Table B

*All dimensions shown in inches except where indicated

Standard color is a red pad print. See our online configurator for color options at : 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.

Phone: 1(508)427-7000
E-mail: Info@AmphenolAlden.com
www.AmphenolAlden.com

PL-500SM-Z SERIES

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

TABLE B:

STANDARD PART NUMBERS

| Number of Poles | Cable Mount Receptacle | Rear Panel-Mount Receptacle | | Cable Mount Plug |
|-----------------|------------------------|-----------------------------|--------|------------------|
| | Solder Cup | Solder Cup | PCB | Solder Cup |
| 14 | 326087 | 326027 | 326147 | 325027 |
| 10 | 326084 | 326024 | 326144 | 325024 |
| 8 | 326081 | 326021 | 326141 | 325021 |
| 7 | 326078 | 326018 | 326138 | 325018 |
| 6 | 326075 | 326015 | 326135 | 325015 |
| 5 | 326072 | 326012 | 326132 | 325012 |
| 4 | 326069 | 326009 | 326129 | 325009 |
| 3 | 326066 | 326006 | 326126 | 325006 |
| 2 | 326063 | 326003 | 326123 | 325003 |
| 1 (22 AWG) | 326060 | 326000 | 326120 | 325060 |
| 1 (16 AWG) | 326187 | 326181 | | 325000 |

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

Panel-Mount Thickness Options

Red (Std.), White, Black

2 Standard Keys, Proprietary Keys Available

Up to .125 Standard

Receptacles & Cable Mount Plug

CONTACT TERMINATION OPTIONS

PCB (Panel-Mount Receptacles only)



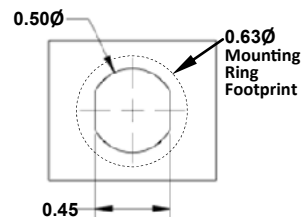
Request sales drawing for PCB Mounting Templates

Solder Cup (Available for All)



Tiered 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-PL500SMZ-IR01 (1Pole, 16AWG)

AI-PL500SMZ-IR02 (1-14 Pole, 22/26AWG)

Panel-Mount Receptacle Instructions:

AI-PL500SMZ-PMR01 (1Pole, 16AWG)

AI-PL500SMZ-PMR02 (1-14 Pole, 22/26AWG)

Cable Mount Plug Instructions:

AI-PL500SMZ-P01 (1Pole, 16AWG)

AI-PL500SMZ-P02 (1-14 Pole, 22/26AWG)

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.

Phone: 1(508)427-7000
E-mail: Info@AmphenolAlden.com
www.AmphenolAlden.com