

PL-500FI FEATURES



Compact and low cost, the **Pulse-Lok® 500FI Series** connectors are Amphenol Alden's ideal solution for hand-held equipment and confined locations. The **Pulse-Lok® 500FI** low cost allows for a reliable and cost effective solution for your interconnect requirements.

Overview (intuitive, compact, configurable)

- **Pulse-Lok®** auto-latch / mating confirmation
- Miniature .520" diameter metal circular shell
- Up to 14 contact positions
- Multiple and proprietary keying 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
- 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: 5 lbs. Max
 - Un-mate: 1.5 lbs. Max
 - Unintended Extraction: 35 lbs. Min.
 - Backshell withdrawal: 5 lbs. Min.***

Environmental

- Operating Temp: -40C to +105C**
- Moisture Resistance: to IP-67 (mated)
- Sterilizable: gamma & EtO**
- Chem. Resistance: common OR cleaning solvents

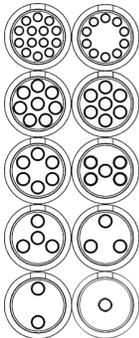
**Dependent on overmold material

***Backshell sold separately

TABLE A:

STANDARD CONTACT CONFIGURATIONS & SPECIFICATIONS

Up to 14 Contact Positions



Number of Poles	Contact Size Pin ϕ (mm)	Max Wire Gauge	Operating Voltage Max	Operating Current Max (A)*	Mated Contact Resistance (m Ω)
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.

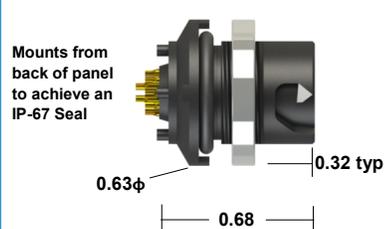
STANDARD HOUSING OPTIONS

Cable Mount Receptacle Kit



Select this component from Table B

Rear Panel-Mount Receptacle Assembly



Panel thickness range = .063 to .125
Select this component from Table B

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

PL-500FI SERIES
 Plastic 14 pole capacity miniature circular field installable 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	327104	327212	327204	327004
10	324100	327208	327200	327000
8	324140	327276	327280	327040
7	327136	327268	327272	327036
6	327132	327220	327264	327032
5	327110	327228	327218	327010
4	327112	327236	327224	327012
3	327116	327236	327232	327016
2	327120	327244	327240	327020
1 (22 AWG)	327124	327252	327248	327024
1 (16 AWG)	327128	327260	327256	327028

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:

- | | |
|-------------------------------|---|
| Housing Color Options | Black (std.) Gray |
| Mating Key Options | 2 Standard Keys, Proprietary Keys Available |
| Panel-Mount Thickness Options | Up to .125 Standard |

CONTACT TERMINATION OPTIONS

Receptacles & Cable Mount Plug

PCB (Panel-Mount Receptacles only)



Stand off height 0.05"
 Pin length 0.125"

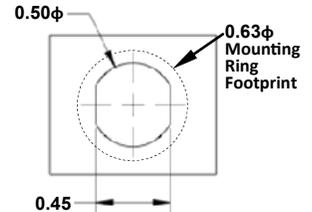
Request sales drawing for PCB
 Mounting Templates

Solder Cup (Available for All)



Tiered 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

Receptacle Instructions:

- AI-PL500FI-R01 (1Pole, 16AWG)
- AI-PL500FI-R02 (1-14 Pole, 22/26AWG)

Cable Mount Plug Instructions:

- AI-PL500FI-P01 (1Pole, 16AWG)
- AI-PL500FI-P02 (1-14 Pole, 22/26AWG)

Note: recommended tooling included in assembly instructions