Amphenol Alden

PL-500FI SERIES

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

PL-500FI FEATURES

SPECIFICATIONS

Ideal for front-panel instrumentation and hand-held equipment, the compact and cost effective PL-500FI Series is designed to meet the efficient packaging demands of portable electronic devices

- Packaging (intuitive, compact, configurable)
- Pulse-Lok® auto-latch / mating confirmation · Miniature .520" diameter circular shell
- · Up to 14 contact positions
- · Assemble without special tools
- · Multiple and proprietary keying options
- · Available as an overmolded cable assembly
- · Custom configurations available

Performance (for harsh environments)

- Water proof (IP-67 rated)
- Steam, EtO, & Gamma sterilizable
- · Chemical resistant housing
- Up to 5,000 mating cycles (with std. Contacts)
- Factory overmolded endure elevated strain and flex conditions

Electrical (see below)

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

Material

Connector Housing: Nylon 12 Flex Reliefs: Thermoplastic Rubber Contacts: Brass / BeCu, Plating: Gold over Nickel

Mechanical

Mating Cycles: 20K cycles max Retention Force:

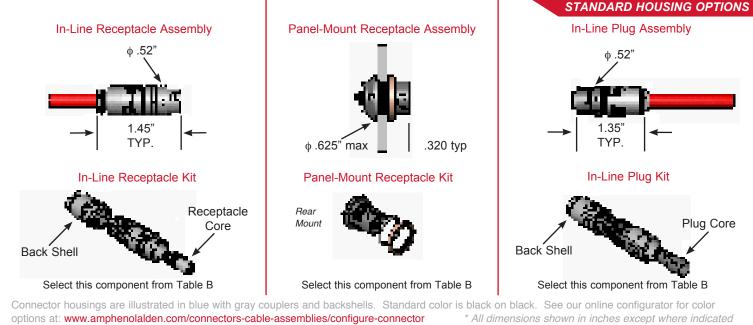
- Mated Connectors: 25 lbs. min.
- · Cable to Connector: to 30 lbs. typical
- Backshell to Connector: 50 lbs. min.
- Cable Diameter Range = .115 to .250

Environmental

- Operating Temp: -40C to +105C
- · Moisture Resistance: to IP-67 (encapsulated)
- · Sterilizable: gamma, EtO & Autoclave
- · Chem. Resistance: common operating room
- cleaning solvents
- * post conditioning

	TABLE A: STANDARD CONTACT CONFIGURATIONS & SPECIFICATIONS						
	Number of Poles	Contact Size Pin ϕ (mm)	Max Wire Gauge	Operating Voltage max	Operating Current Max	Contact Resistance	
	14	0.5	28	300 V RMS	.9 A	< 14m ohms	
Up to 14	10	0.5	28	300 V RMS	1.2 A	< 14m ohms	
contact positions	8	0.7	22	300 V RMS	1.8 A	< 6m ohms	
•	7	0.7	22	300 V RMS	2.1 A	< 6m ohms	
417	6	0.7	22	300 V RMS	2.1 A	< 6m ohms	
CATER.	5	0.7	22	300 V RMS	2.4 A	< 6m ohms	
(+ ++ +))	4	0.7	22	300 V RMS	2.4 A	< 6m ohms	
	3	0.7	22	300 V RMS	3.0 A	< 6m ohms	
	2	0.7	22	300 V RMS	3.0 A	< 6m ohms	
	1	0.7	22	300 V RMS	3.0 A	< 6m ohms	
	1	1.5	16	300 V RMS	7.0 A	< 2m ohms	

Custom contact inserts are available. Consult factory.



For additional information about this, or any other Alden product, please contact an Amphenol Alden Products specialist today.

Phone: 508-427-7000 Fax: 508-583-0164 www.amphenolalden.com

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14 Pole Capacity Miniature Circular Field Installable Connectors

			STANDARD PART NUMBER			
Number of Poles		In-Line Receptacle	Panel-Moun	In-Line Plug		
		Solder Cup	Solder Cup	PCB	Solder Cup	
	14	327104	327212	327204	327004	
	10	327100	327208	327200	327000	
	8	327140	327284	327280	327040	
	7	327136	327276	327272	327036	
	6	327132	327268	327264	327032	
	5	327110	327220	327218	327010	
	4	327112	327228	327224	327012	
	3	327116	327236	327232	327016	
	2	327120	327244	327240	327020	
	1 (.7mm Pin)	327124	327252	327248	327024	
	1 (1.5mm Pin)	327128	327260	327256	327028	

Note: Part numbers cover black housings in Key 1 configuration. For other color and housing options utilize the Alden connector configurator located @ www.aldenproducts.com/configurator

Options Include:

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



SALES DRAWINGS

Drawing # Connector Type

3272XXA Panel-Mount Receptacle, 10 Pole, PCB
3272XXB Panel-Mount Receptacle, 14 Pole, PCB
3272XXC Panel-Mount Receptacle, 10 Pole, Solder Cup
3272XXD Panel-Mount Receptacle, 14 Pole, Solder Cup
3271XXA Inline Receptacle, 10 Pole, Solder Cup
3271XXB Inline Receptacle, 14 Pole, Solder Cup
3270XXA Inline Plug, 10 Pole, Solder Cup
3270XXB Inline Plug, 14 Pole, Solder Cup

CONNECTOR ASSEMBLY INSTRUCTIONS

Al-PL500FI-01 Panel-Mount Receptacle Al-PL500FI-02 Inline Receptacle Al-PL500FI-03 Inline Plug

Available at:

www.amphenolalden.com/connectors-cable-assemblies/configure-connector

For additional information about this, or any other Alden product, please contact an Amphenol Alden Products specialist today.

Phone: 508-427-7000 Fax: 508-583-0164 www.amphenolalden.com

ACCESSORIES

PLUG SOAKING CAP #112058-02



RECEPTACLE DUST COVER #107976



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