

PL-700SM-N Series

Plastic Shell Auto-Coupling Connectors
27 pole capacity circular shell connectors



Features

Compact and configurable, the **Pulse-Lok® 700SM-N Series** connectors are Amphenol Alden's most versatile offering in a package diameter less than three quarters of an inch. From our highest density 27 pole, to our popular power and signal 2+2 option, the Pulse-Lok® 700SM-N series can support your diverse interconnect requirements.

Overview (intuitive, compact, configurable)

- Pulse-Lok® auto-latch / mating confirmation
- Miniature 0.700" diameter circular shell
- Up to 27 contact positions
- 6 color options in a variety of combinations
- Multiple standard 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 (for reference only)

Material

- Connector Housing:
 - Polyamide 12 (LV3H)
 - Molded Contact Insulator (core): Polyamide 12 (LV3H) (1P-7P) LCP(10P-27P)
 - Contacts: Brass / Phosphor Bronze
- 30µ" Gold over 50µ" Nickel
Flammability Rating
- Housing & Coupler: UL94 HB
- Molded Contact Insulator (core): UL94 V-0 or UL94 HB

Mechanical

- Mating Cycles: 5,000
- Mating Force:
- Mate: 13.5 lbs. Max
- Un-mate: 3.0 lbs. Max
- Unintended extraction: 30 lbs. Min.
- Backshell Withdrawal: 5.0lbs. Min.***

Environmental

- Operating Temp: -20C to +105C
- Moisture Resistance: to IP-67 (mated)
- Sterilizable: EtO, Autoclave, STERRAD® - Consult factory
- Chem. Resistance: common operating room cleaning solvents

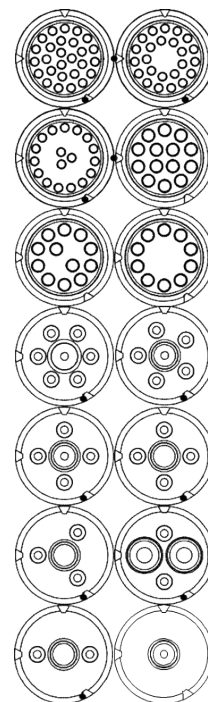
***Backshell sold separately

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

Table A: Standard Contact Configurations & Specifications

Number of Poles	Contact Size (Pin Diameter - mm)	Max Wire Gauge	Operating Voltage Max (V RMS)	Operating Current Max (A)*	Mated Contact Resistance (mΩ)
27	0.5	26	300	2.0	<50
24	0.5	26	300	2.0	<50
18	0.5	26	300	2.0	<50
14	0.7	22	300	3.0	<50
12	0.7	22	300	3.0	<50
10	0.7	22	300	3.0	<50
7	0.7	22	300	3.0	<50
6	0.7	22	300	3.0	<50
5	0.7	22	300	3.0	<50
4	0.7	22	300	3.0	<50
2+2	2(1.5)-2(0.7)	2(16)-2(22)	300	8.0/3.0	<50
3	0.7	22	300	3.0	<50
2	0.7	22	300	3.0	<50
2	1.5	16	300	8.0	<50
1	0.7	22	300	3.0	<50
1	2.3	12	300	16.0	<50

Up to 27 Contact Positions



Standard Housing Options - dimensions in inches

Cable Mount Receptacles

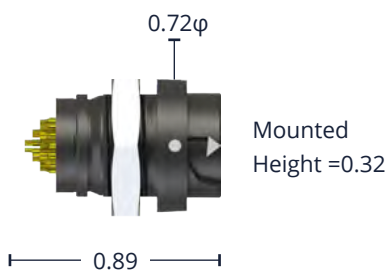
Cable Mount Receptacle Kit



Select this component from Table B

Panel-Mount Receptacles

Front Panel-Mount Receptacle Assembly



Panel thickness range to 0.187
Select this component from Table B

Cable Mount Plugs

Cable Mount Plug Kit



Select this component from Table B

Cable Mount Receptacles

Cable Mount Receptacle Assembly (w/ optional Press & Seal™ Backshell)



2.20

Select Press & Seal™ Backshell from Table C

Panel-Mount Receptacles

Rear Panel-Mount Receptacle



0.89

Select this component from Table B

Cable Mount Plugs

Cable Mount Plug Assembly (w/ optional Press & Seal™ Backshell)



1.60

Select this component from Table B

Note: Standard color configuration is black on black. See our online configurator for more color options at amphenolalden.com/configurator

Table B: Standard Part Numbers

*Press & Seal™ contacts, crimp or solder termination

Number of Poles	Cable Mount Receptacle	Front Panel-Mount Receptacle		FPM Receptacle (w/ Dust Cap)	Rear Panel-Mount Receptacle		Cable Mount Plug
	Solder Cup	Solder Cup	PCB	Solder Cup	Solder Cup	PCB	Solder Cup
27	300322	300196	330196	301589	301365	331196	300112
24	301270	301004	330336	301575	301351	331336	300850
18	301242	300990	330322	301561	301337	331322	300822
14	300294	300182	330182	301547	301323	331182	300084
12	301214	300976	330308	301533	301309	331308	300794
10	301186	300962	330294	301519	300697	331294	300766
7	300266	300168*	330168*	301505*	300683*	331168*	300056*
6	301158*	300948*	330280*	301471*	300669*	331280*	300738*
5	301130*	300934*	330266*	301477*	300655*	331266*	300710*
4	301102*	300920*	330252*	301449*	300627*	331252*	300482*
2 (16)+2(22)	300238*	300154*		301463*	300641*		300028*
3	300543*	300529*	330238*	301603*	301379*	331238*	300501*
2 (22)	301046*	300892*	330224*	301421*	300599*	331224*	300428*
2 (16)	301074*	300906*		301435*	300613*		300500*
1 (22)	301018*	300878*	330210*	301497*	300585*	331210*	300400*
1 (12)	300210*	300140*		301393*	300571*		300000*

Options Include: Housing Color Options: Black (std.), Gray, White, Blue, Red, Green, Yellow. Mating Key Options: 2 Standard Keys, Proprietary Keys Available. Panel-Mount Thickness Options: Up to .125" Standard

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