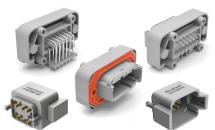
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Available in AT, ATM and ATP Versions

Amphenol Sine Systems' **BoardLock™ Family** combines flanged or flangeless, 180° straight or 90° right angle pinoriented, wire-to-board versatility with the proven reliability of the A Series™ environmentally-sealed thermoplastic connection system with a maximum current rating up to 25A. Featuring a compact, durable, low-profile and lightweight design, perfect for power or data signal applications. All **BoardLock™** product lines accept A Series™ components and are compatible with other industry standard mating connectors.

Potential Applications

Power & Signal Connectivity, Data Acquisition, HVAC Systems, Farming Implementation, Boating, Sealed Environments, Heavy Equipment, Transportation, Industrial, Off-Road and Harsh Environments

Features

- Flanged or Flangeless
- 180° Straight or 90° Right Angle Pin Orientation •
- Snap-Lock or Screw-Lock Mounting
- Potted or Unpotted



BoardLock™ Family Specifications Overview

Positions	2, 3, 4, 6, 8, 12, and 13 (See individual series)	Mating Cycles	100 Cycles
Current Rating	7.5A to 25A (See individual series)	Operating Voltage	250 VDC
Pin Orientation	180° Straight or 90° Right Angle	Seal Material	Silicone Rubber (See individual series)
Mounting Type	Snap-Lock or Screw-Lock (See individual series)	Temperature Range	-55°C to +125°C at rated current
Flange	Flange or Flangeless (See individual series)	Shock	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
Contact Material/Plating	Copper Alloy/Gold, Nickel or Tin Plating		
Contact Milivolt Drop	See individual series		
Contact Termination	Direct Solder	Thermal Shock	Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector
Contact Types	Machined, PC Tail		
Dielectric Value	Meets or exceeds 1500 volts minimum		
Housing Material	Thermoplastic		
Insulation Resistance	1000 megohms minimum at 25°C	Vibration	Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)
IP Rating	IP67 mated condition		
Keying Options	See individual series		





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BoardLock™ Family Comparison Chart

Series	(BL) BoardLock*AT	BL BoardLock ATF13	BL BoardLock*AT13/15
lmage			
Positions	2, 3, 4, 6, 8 and 12	2, 3, 4, 6, 8 and 12 13 (Mixed Power and Signal)	2, 4, 6, 8 and 12
Current Rating	2, 3, 4, 6, 8. 12 pos: Size 16, 13A	2, 3, 4, 6, 8. 12 pos: Size 16, 13A 13 pos: Size 16, 13A; Size 12, 25A	13A
Pin Orientation	180° Straight	90° Right Angle	AT13: 90° Right Angle AT15: 180° Straight
Mounting Type	Snap-Lock	Snap-Lock or Screw-Lock	Screw-Lock
Flange	Flangeless	Flangeless	Flanged
Contact Material/Plating	Copper Alloy/Gold, Nickel Plating	Copper Alloy/Gold, Tin Plating	Copper Alloy/Gold, Tin Plating
Contact Milivolt Drop	100 mV drop max at 13A test current	100 mV drop max at 13A test current	100 mV drop max at 13A test current
Contact Termination	Direct Solder	Direct Solder	Direct Solder
Contact Types	Machined, PC Tail	Machined, PC Tail	Machined, PC Tail
Dielectric Value	Less than 2 milliamps current leakage @ 1500 volts AC	Less than 2 milliamps current leakage @ 1500 volts AC	Less than 2 milliamps current leakage @ 1500 volts AC
Housing Material	Thermoplastic	Thermoplastic	Thermoplastic
Insulation Resistance	1000 megohms minimum at 25°C	1000 megohms minimum at 25°C	1000 megohms minimum at 25°C
IP Rating	IP67 mated condition	IP67 mated condition	IP67 mated condition
Keying Options	Available in 8, 12 pos only	Available in 6, 8, 12 pos only	Available in 6, 8, 12 pos only
Mating Cycles	100 Cycles	100 Cycles	100 Cycles
Operating Voltage	250 VDC	250 VDC	250 VDC
Seal Material	n/a	n/a	Silicone Rubber
Temperature Range	-55°C to +125°C at rated current	-55°C to +125°C at rated current	-55°C to +125°C at rated current
Shock	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
Thermal Shock	Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector	Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector	Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector
Vibration	Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)	Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)	Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)



BoardLock™ Family Comparison Chart

Series	BL BoardLock ATM13/15	BL BoardLock ATP13/15
lmage		
Positions	2, 3, 4, 6, 8, and 12	2 and 4
Current Rating	7.5A	25A
Pin Orientation	ATM13: 90° Right Angle ATM15: 180° Straight	ATP13: 90° Right Angle ATP15: 180° Straight
Mounting Type	Screw-Lock	Screw-Lock
Flange	Flanged	Flanged
Contact Material/Plating	Copper Alloy/Gold, Tin Plating	Copper Alloy/Gold, Tin Plating
Contact Milivolt Drop	100 mV drop max at 7.5A test current	100 mV drop max at 25A test current
Contact Termination	Direct Solder	Direct Solder
Contact Types	Machined, PC Tail	Machined, PC Tail
Dielectric Value	Less than 2 milliamps current leakage @ 1500 volts AC	Less than 2 milliamps current leakage @ 1500 volts AC
Housing Material	Thermoplastic	Thermoplastic
Insulation Resistance	1000 megohms minimum at 25°C	1000 megohms minimum at 25°C
IP Rating	IP67 mated condition	IP67 mated condition
Keying Options	Available in 8, 12 pos only	Not Applicable
Mating Cycles	100 Cycles	100 Cycles
Operating Voltage	250 VDC	250 VDC
Seal Material	Silicone Rubber	Silicone Rubber
Temperature Range	-55°C to +125°C at rated current	-55°C to +125°C at rated current
Shock	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis $\{X,Y\&Z\}$	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
Thermal Shock	Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector	Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector
Vibration	Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)	Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)

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