

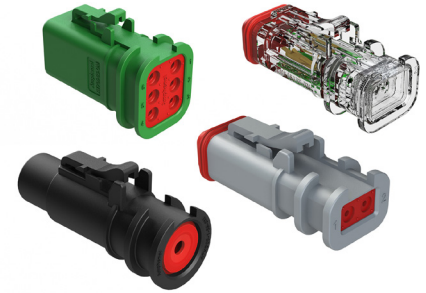


SP Structure+™ Family

Overmold Compatible Connectors

Available in 1, 2, 3, 4, 6, 8 and 12 position

Amphenol Sine Systems' **StructurePlus™ Family** of overmold compatible connectors are engineered, one-piece, solid body construction and are specifically designed for cable assembly operations requiring custom molding or shrink tube requirements. The added connector structure results in enhanced connection integrity that is an essential component for connecting cable in harsh environments. The **StructurePlus™ Family** of connectors consist of **AT, AT LED, ATP** and **ATHD Series™** connectors and offer complete environmental sealing ranging from IP67/68/69K.



Key Features

- Available in 1 pos. (**StructurePlus™ ATHD**); 2, 3, 4, 6, 8, 12 pos. (**StructurePlus™ AT**); 2 pos. (**StructurePlus™ AT LED**); 6 position (**StructurePlus™ ATP**)
- 13A (**StructurePlus™ AT/LED**); 25A (**StructurePlus™ ATP**); 25-60A (**StructurePlus™ ATHD**)
- Intermatable with industry standard connectors
- Engineered one-piece solid body construction, eliminates previously required snap-on-back shell
- Improved longevity and reliability



Potential Applications: Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy, Agricultural as well as other demanding interconnect applications.

Technical Specifications

Operating Temperature	-55°C to +125°C
Max Current	13A (StructurePlus™ AT/LED) 25A (StructurePlus™ ATP) 25-60A (StructurePlus™ ATHD)
Housing/Wedge Body	Thermoplastic
Seals	Silicone Elastomer
Wire Range (AWG)	14-20AWG (StructurePlus™ AT/LED) 10-14AWG (StructurePlus™ ATP) 6AWG (StructurePlus™ ATHD)
Contacts	Copper Alloy, Nickel-Plated
IP Rating	IP67 mated condition (StructurePlus™ AT/LED) IP68 1M of water for 24 hours (StructurePlus™ ATP) IP69K mated condition (StructurePlus™ ATHD)
Vibration	Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)

Dielectric Value	Less than 2 milliamps current leakage at 1500V AC
Corrosion Resistance	No evidence of corrosion after 48 hours of salt spray per MIL-STD1344, method 1001.
Fluid Resistance	Connectors show no damage when exposed to most fluids used in industrial application.
Insulation Resistance	1000 megohms minimum 25°C
Thermal Cycle	No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.
Physical Shock	No unlocking, unmating or other unsatisfactory results during or after 50 G's in each of three usually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202. Method 213, Condition "C".
Vibration	Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.
Mating Cycles	>100


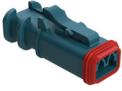

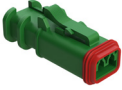


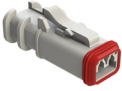
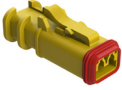








A Series™ Family

















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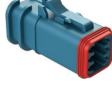


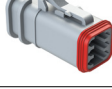
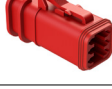

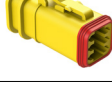



StructurePlus™ Family (AT, AT LED, ATHD and ATP) Connectors and Wedgelocks

Image	Part Number	Description	Contact Size	Amperage
	AT06-2S-OMBLK	2 Position, StructurePlus™ AT, Plug, Socket, Black	16	13
	AT06-2S-OMBLU	2 Position, StructurePlus™ AT, Plug, Socket, Blue	16	13
	AT06-2S-OMBRN	2 Position, StructurePlus™ AT, Plug, Socket, Brown	16	13
	AT06-2S-OMGRN	2 Position, StructurePlus™ AT, Plug, Socket, Green	16	13
	AT06-2S-OMGRY	2 Position, StructurePlus™ AT, Plug, Socket, Gray	16	13
	AT06-2S-OMRED	2 Position, StructurePlus™ AT, Plug, Socket, Red	16	13
	AT06-2S-OMWHT	2 Position, StructurePlus™ AT, Plug, Socket, White	16	13
	AT06-2S-OMYEL	2 Position, StructurePlus™ AT, Plug, Socket, Yellow	16	13
	AW2S	2 Position, StructurePlus™ AT, Plug Wedgelock, Green	n/a	n/a
	AW2S-A	2 Position, StructurePlus™ AT, Plug Wedgelock, Keyed A, Grey	n/a	n/a
	AW2S-B	2 Position, StructurePlus™ AT, Plug Wedgelock, Keyed B, Black	n/a	n/a
	AW2S-C	2 Position, StructurePlus™ AT, Plug Wedgelock, Keyed C, Green	n/a	n/a
	AW2S-D	2 Position, StructurePlus™ AT, Plug Wedgelock, Keyed D, Brown	n/a	n/a
	AT06-3S-OMBLK	3 Position, StructurePlus™ AT, Plug, Socket, Black	16	13














StructurePlus™ Family (AT, AT LED, ATHD and ATP) Connectors and Wedgelocks

Image	Part Number	Description	Contact Size	Amperage
	AT06-3S-OMBLU	3 Position, StructurePlus™ AT, Plug, Socket, Blue	16	13
	AT06-3S-OMBRN	3 Position, StructurePlus™ AT, Plug, Socket, Brown	16	13
	AT06-3S-OMGRN	3 Position, StructurePlus™ AT, Plug, Socket, Green	16	13
	AT06-3S-OMGRY	3 Position, StructurePlus™ AT, Plug, Socket, Grey	16	13
	AT06-3S-OMRED	3 Position, StructurePlus™ AT, Plug, Socket, Red	16	13
	AT06-3S-OMWHT	3 Position, StructurePlus™ AT, Plug, Socket, White	16	13
	AT06-3S-OMYEL	3 Position, StructurePlus™ AT, Plug, Socket, Yellow	16	13
	AW3S	3 Position, StructurePlus™ AT, Plug Wedgelock, Green	n/a	n/a
	AT06-4S-OMBLK	4 Position, StructurePlus™ AT, Plug, Socket, Black	16	13
	AT06-4S-OMBLU	4 Position, StructurePlus™ AT, Plug, Socket, Blue	16	13
	AT06-4S-OMBRN	4 Position, StructurePlus™ AT, Plug, Socket, Brown	16	13
	AT06-4S-OMGRN	4 Position, StructurePlus™ AT, Plug, Socket, Green	16	13
	AT06-4S-OMGRY	4 Position, StructurePlus™ AT, Plug, Socket, Grey	16	13
	AT06-4S-OMRED	4 Position, StructurePlus™ AT, Plug, Socket, Red	16	13

StructurePlus™ Family (AT, AT LED, ATHD and ATP) Connectors and Wedgelocks

Image	Part Number	Description	Contact Size	Amperage
	AT06-4S-OMWHT	4 Position, StructurePlus™ AT, Plug, Socket, White	16	13
	AT06-4S-OMYEL	4 Position, StructurePlus™ AT, Plug, Socket, Yellow	16	13
	AW4S	4 Position, StructurePlus™ AT, Plug Wedgelock, Green	n/a	n/a
	AT06-6S-OMBLK	6 Position, StructurePlus™ AT, Plug, Socket, Black	16	13
	AT06-6S-OMBLU	6 Position, StructurePlus™ AT, Plug, Socket, Blue	16	13
	AT06-6S-OMBRN	6 Position, StructurePlus™ AT, Plug, Socket, Brown	16	13
	AT06-6S-OMGRN	6 Position, StructurePlus™ AT, Plug, Socket, Green	16	13
	AT06-6S-OMGRY	6 Position, StructurePlus™ AT, Plug, Socket, Grey	16	13
	AT06-6S-OMRED	6 Position, StructurePlus™ AT, Plug, Socket, Red	16	13
	AT06-6S-OMWHT	6 Position, StructurePlus™ AT, Plug, Socket, White	16	13
	AT06-6S-OMYEL	6 Position, StructurePlus™ AT, Plug, Socket, Yellow	16	13
	AW6S	6 Position, StructurePlus™ AT, Plug Wedgelock, Green	n/a	n/a
	AW6S-2BLU	6 Position, StructurePlus™ AT, Plug Wedgelock, Keyed 2, Blue	n/a	n/a
	AT06-08SA-OMGRY	8 Position, StructurePlus™ AT, Plug, Socket, Grey	16	13






StructurePlus™ Family (AT, AT LED, ATHD and ATP) Connectors and Wedgelocks

Image	Part Number	Description	Contact Size	Amperage
	AT06-08SB-OMBLK	8 Position, StructurePlus™ AT, Plug, Socket, Black	16	13
	AT06-08SC-OMGRN	8 Position, StructurePlus™ AT, Plug, Socket, Green	16	13
	AT06-08SD-OMBRN	8 Position, StructurePlus™ AT, Plug, Socket, Brown	16	13
	AW8S	8 Position, StructurePlus™ AT, Plug Wedgelock, Green	n/a	n/a
	AT06-12SA-OMGRY	12 Position, StructurePlus™ AT, Plug, Socket, Grey	16	13
	AT06-12SB-OMBLK	12 Position, StructurePlus™ AT, Plug, Socket, Black	16	13
	AT06-12SC-OMGRN	12 Position, StructurePlus™ AT, Plug, Socket, Green	16	13
	AT06-12SD-OMBRN	12 Position, StructurePlus™ AT, Plug, Socket, Brown	16	13
	AW12S	12 Position, StructurePlus™ AT, Plug Wedgelock, Green	n/a	n/a
	AT06-2S-LED1224V-OM	2 Position, StructurePlus™ AT LED, Plug, Socket, 12V/24V, RVP Circuit	16	13
	AT06-2S-LED1224VR-OM	2 Position, StructurePlus™ AT LED, Plug, Socket, 12V/24V, RVP Circuit, Red. Diam. Seal	16	13
	ATHD06-1-12S-OM	1 Position, StructurePlus™ ATHD, Plug, Socket	12	25
	ATHD06-1-8S-OM	1 Position, StructurePlus™ ATHD, Plug, Socket	8	60

StructurePlus™ Family (AT, AT LED, ATHD and ATP) Connectors and Wedgelocks

Image	Part Number	Description	Contact Size	Amperage
	ATP06-6S-OMBLK	6 Position, StructurePlus™ ATP, Plug, Socket, Black	12	25
	ATP06-6S-OMBLU	6 Position, StructurePlus™ ATP, Plug, Socket, Blue	12	25
	ATP06-6S-OMBRN	6 Position, StructurePlus™ ATP, Plug, Socket, Brown	12	25
	ATP06-6S-OMGRN	6 Position, StructurePlus™ ATP, Plug, Socket, Green	12	25
	ATP06-6S-OMGRY	6 Position, StructurePlus™ ATP, Plug, Socket, Grey	12	25
	ATP06-6S-OMRED	6 Position, StructurePlus™ ATP, Plug, Socket, Red	12	25
	ATP06-6S-OMWHT	6 Position, StructurePlus™ ATP, Plug, Socket, White	12	25
	ATP06-6S-OMYEL	6 Position, StructurePlus™ ATP, Plug, Socket, Yellow	12	25
	ATP06-6S-OMRDBLK	6 Position, StructurePlus™ ATP, Plug, Socket, Reduced Diameter Seal, Black	12	25
	ATP06-6S-OMRDBLU	6 Position, StructurePlus™ ATP, Plug, Socket, Reduced Diameter Seal, Blue	12	25
	ATP06-6S-OMRDBRN	6 Position, StructurePlus™ ATP, Plug, Socket, Reduced Diameter Seal, Brown	12	25
	ATP06-6S-OMRDGRN	6 Position, StructurePlus™ ATP, Plug, Socket, Reduced Diameter Seal, Green	12	25
	ATP06-6S-OMRDGRY	6 Position, StructurePlus™ ATP, Plug, Socket, Reduced Diameter Seal, Grey	12	25
	ATP06-6S-OMRDRED	6 Position, StructurePlus™ ATP, Plug, Socket, Reduced Diameter Seal, Red	12	25

StructurePlus™ Family (AT, AT LED, ATHD and ATP) Connectors and Wedgelocks

Image	Part Number	Description	Contact Size	Amperage
	ATP06-6S-OMRDWHT	6 Position, StructurePlus™ ATP, Plug, Socket, Reduced Diameter Seal, White	12	25
	ATP06-6S-OMRDYEL	6 Position, StructurePlus™ ATP, Plug, Socket, Reduced Diameter Seal, Yellow	12	25
	AWP-6S	6 Position, StructurePlus™ ATP, Plug Wedgelock, Orange	n/a	n/a
	AWP-6SA	6 Position, StructurePlus™ ATP, Plug Wedgelock, Keyed A, Orange	n/a	n/a
	AWP-6SB	6 Position, StructurePlus™ ATP, Plug Wedgelock, Keyed B, Black	n/a	n/a

For more information, contact: Customer Service, +1 800 394 7732, csr@amphenol-sine.com

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