



# **A** A Series™ Contacts

## Machined and Stamped & Formed Contacts for use with A Series™ Products

Amphenol Sine Systems is your trusted component source for precision connector contacts designed for increased reliability and reduced cost. Our A Series™ contacts are readily available in a wide variety of materials and plating combinations and can be supplied with a number of different contact types.

### Machined Contacts

Designed for heavy duty applications, these solid contacts will accommodate greater wire sizes

- Wire Size Range: 4AWG to 24AWG (25 - 0.25mm<sup>2</sup>)
- Available in Size 4, 8, 12, 16 and 20, in both Pin and Socket
- Current Ratings up to 100A
- Copper Alloy, Nickel-Plated
- Gold plating options available



### Stamped & Formed Contacts

Precision engineered stamped & formed design provides cost effective wire processing, while ensuring high reliability conductor termination and performance

- Wire Size Range: 10AWG to 22AWG (6.0 - 0.35mm<sup>2</sup>)
- Available in Size 12, 16 and 20, in both Pin and Socket
- Current Ratings up to 25A
- Copper Alloy, Nickel-Plated
- Gold and Tin plating options available
- Available in Loose Piece (-LP) Packaging



## **A** A Series™ Family



### Heavy Duty, Multi-Pin Plastic and Metal Connectors

Amphenol Sine Systems' A Series™ Family of sealed, heavy-duty, multi-pin plastic and metal connectors is made up of 20+ core product lines serving many industries and bridges the gap between controlled and harsh environmental conditions to keep you connected. The connectors were developed as a high-performance, cost-effective solution for use with Heavy Equipment, Agricultural, Automotive, Military, Alternate Energy, and other demanding interconnect architectures.

We can custom design, engineer and manufacture cable assemblies to your exact customer specifications and produce large or small quantities, all to the highest standards, delivered on-time and in-specification, all with a significant cost-savings over the competition.



Standard products. Custom solutions  
Customer Service +1 800 394 7732

A Series™ Contacts - Machined

Part Number	Works with the following Series™	Type	Style	Size	Amp	AWG Range	Insul OD	Plating
AT60-203-04141-4	DuraMate	Pin	Machined	4	100A	4AWG	n/a	Nickel
AT60-203-0431-4	AT	Pin	Machined	4	100A	4AWG	n/a	Gold
AT60-204-0490	ATHD, DuraMate	Pin	Machined	4	100A	6AWG	n/a	Nickel
AT60-204-08141-16	DuraMate	Pin	Machined	8	60A	6AWG	n/a	Nickel
AT60-204-08141	ATHD, DuraMate	Pin	Machined	8	60A	8-10AWG	n/a	Nickel
65-54749	ATP, AHD-9	Pin	Machined	12	25A	18-20AWG	n/a	Gold
AT60-204-12141	ATHD, ATP, AHD-6, DuraMate, PanelMate	Pin	Machined	12	25A	12-14AWG	n/a	Nickel
AT60-220-1231	ATHD, ATP, AHD-6, DuraMate, PanelMate	Pin	Machined	12	25A	12-14AWG	n/a	Gold
AT60-204-12NKIT	ATP	Pin	Machined	12	25A	12-14AWG	n/a	Nickel
AT60-204-12141-10	ATP	Pin	Machined	12	25A	10-12AWG	n/a	Nickel
65-54756	AT, AHD-9	Pin	Machined	16	13A	14-20AWG	n/a	Gold
AT60-202-16NKIT	AT, AHD-9, DuraMate, ARC Series	Pin	Machined	16	13A	16-20AWG	n/a	Nickel
AT60-202-16141	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Machined	16	13A	16-20AWG	n/a	Nickel
AT60-202-1631	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Machined	16	13A	16-20AWG	n/a	Gold
AT60-215-16141	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Machined	16	13A	14AWG	n/a	Nickel
AT60-215-1631	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Machined	16	13A	14AWG	n/a	Gold
AT60-202-16141-22	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Machined	16	13A	22-24AWG	n/a	Nickel
AT60-202-1631-22	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Machined	16	13A	22-24AWG	n/a	Gold
AT60-202-20NKIT	ATM, DuraMate	Pin	Machined	20	7.5A	18-22AWG	n/a	Nickel
AT60-202-20141	ATM, DuraMate, PanelMate	Pin	Machined	20	7.5A	20-22AWG	n/a	Nickel
AT60-202-2031	ATM, DuraMate, PanelMate	Pin	Machined	20	7.5A	20-22AWG	n/a	Gold
AT60-010-20141	ATM, DuraMate, PanelMate	Pin	Machined	20	7.5A	16-18AWG	n/a	Nickel
AT60-010-2031	ATM, DuraMate, PanelMate	Pin	Machined	20	7.5A	16-18AWG	n/a	Gold

AT62-203-04141-4	DuraMate	Socket	Machined	4	100A	4AWG	n/a	Nickel
AT62-203-0431-4	AT	Socket	Machined	4	100A	4AWG	n/a	Gold
AT62-203-04141	ATHD, DuraMate	Socket	Machined	4	100A	6AWG	n/a	Nickel
AT62-203-08141-16	DuraMate	Socket	Machined	8	60A	6AWG	n/a	Nickel
AT62-203-08141	ATHD, DuraMate	Socket	Machined	8	60A	8-10AWG	n/a	Nickel
AT62-203-12141	ATHD, ATP, AHD-6, DuraMate, PanelMate	Socket	Machined	12	25A	12-14AWG	n/a	Nickel
AT62-210-1231	ATHD, ATP, AHD-6, DuraMate, PanelMate	Socket	Machined	12	25A	12-14AWG	n/a	Gold
AT62-203-12NKIT	ATP	Socket	Machined	12	25A	12-14AWG	n/a	Nickel
AT62-210-1231-1820	ATP, AHD-6	Socket	Machined	12	25A	12-14AWG	n/a	Gold
AT62-203-12141-10	ATP	Socket	Machined	12	25A	10-12AWG	n/a	Nickel
AT62-201-16NKIT	AT, AHD-9, DuraMate, ARC Series	Socket	Machined	16	13A	16-20AWG	n/a	Nickel
M39029/5-117	AT	Socket	Machined	16	13A	20AWG	n/a	Gold
AT62-201-16141	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Machined	16	13A	16-20AWG	n/a	Nickel
AT62-201-1631	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Machined	16	13A	16-20AWG	n/a	Gold
AT62-209-16141	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Machined	16	13A	14AWG	n/a	Nickel
AT62-209-1631	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Machined	16	13A	14AWG	n/a	Gold
AT62-201-16141-22	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Machined	16	13A	22-24AWG	n/a	Nickel
AT62-201-1631-22	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Machined	16	13A	22-24AWG	n/a	Gold
AT62-20-0422	ATM, DuraMate	Socket	Machined	20	7.5A	20-22AWG	n/a	Nickel
AT62-20-0444	ATM, DuraMate	Socket	Machined	20	7.5A	20-22AWG	n/a	Gold
AT62-201-20NKIT	ATM, DuraMate	Socket	Machined	20	7.5A	20-22AWG	n/a	Nickel
AT62-201-20141	ATM, DuraMate, PanelMate	Socket	Machined	20	7.5A	20AWG	n/a	Nickel
AT62-201-2031	ATM, DuraMate, PanelMate	Socket	Machined	20	7.5A	20AWG	n/a	Gold
AT62-005-20141	ATM, DuraMate, PanelMate	Socket	Machined	20	7.5A	16-18AWG	n/a	Nickel
AT62-005-2031	ATM, DuraMate, PanelMate	Socket	Machined	20	7.5A	16-18AWG	n/a	Gold

A Series™ Contacts - Stamped & Formed (-LP indicates available in Loose Piece Packaging)

Part Number	Works with the following Series™	Type	Style	Size	Amp	AWG Range	Insul OD	Plating
AT60-12-0144	ATP, AHD-6, DuraMate, PanelMate	Pin	Stamped & Formed	12	25A	12-14AWG	2.87 - 4.47mm	Gold
AT60-12-0166	ATP, AHD-6, DuraMate, PanelMate	Pin	Stamped & Formed	12	25A	12-14AWG	2.87 - 4.47mm	Nickel
AT60-12-0166-LP	ATP, AHD-6, DuraMate, PanelMate	Pin	Stamped & Formed	12	25A	12-14AWG	2.87 - 4.47mm	Nickel
AT60-12-0177	ATP, AHD-6, DuraMate	Pin	Stamped & Formed	12	25A	12-14AWG	2.87 - 4.47mm	Tin
AT60-12-0222	ATP, DuraMate, PanelMate	Pin	Stamped & Formed	12	25A	10-12AWG	3.56 - 5.18mm	Nickel
AT60-12-0222-LP	ATP, DuraMate, PanelMate	Pin	Stamped & Formed	12	25A	10-12AWG	3.56 - 5.18mm	Nickel
AT60-12-0244	ATP, DuraMate, PanelMate	Pin	Stamped & Formed	12	25A	10-12AWG	3.56 - 5.18mm	Gold
AT60-12-0277	AT, DuraMate	Pin	Stamped & Formed	12	25A	10-12AWG	3.56 - 5.18mm	Tin
AT60-14-0122	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	14-18AWG	2.40 - 3.81mm	Nickel
AT60-14-0122-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	14-18AWG	2.40 - 3.81mm	Nickel
AT60-14-0144	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	14-18AWG	2.40 - 3.81mm	Gold
AT60-14-0177	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	14-18AWG	2.40 - 3.81mm	Tin
AT60-16-0122	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Nickel
AT60-16-0122-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Nickel
AT60-16-0144	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Gold
AT60-16-0144-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Gold
AT60-16-0177	AT, AHD-9, DuraMate	Pin	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Tin
AT60-16-0322	AT, AHD-9, DuraMate	Pin	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Nickel
AT60-16-0344	AT, AHD-9, DuraMate	Pin	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Gold
AT60-16-0377	AT, AHD-9, DuraMate	Pin	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Tin
AT60-16-0622	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	16-20AWG	1.40 - 2.54mm	Nickel
AT60-16-0622-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	16-20AWG	1.40 - 2.54mm	Nickel
AT60-16-0644	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	16-20AWG	1.40 - 2.54mm	Gold
AT60-16-0644-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	16-20AWG	1.40 - 2.54mm	Gold
AT60-16-0677	AT, AHD-9, DuraMate	Pin	Stamped & Formed	16	13A	16-20AWG	1.40 - 2.54mm	Tin
AT60-16-0822	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Nickel
AT60-16-0844	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Pin	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Gold
AT60-16-0877	AT, AHD-9, DuraMate	Pin	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Tin
AT60-20-0122	ATM, DuraMate, PanelMate	Pin	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Nickel
AT60-20-0122-LP	ATM, DuraMate, PanelMate	Pin	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Nickel
AT60-20-0144	ATM, DuraMate, PanelMate	Pin	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Gold
AT60-20-0144-LP	ATM, DuraMate, PanelMate	Pin	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Gold
AT60-20-0177	ATM, DuraMate	Pin	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Tin
AT60-20-0222	ATM, DuraMate, PanelMate	Pin	Stamped & Formed	20	7.5A	16-22AWG	1.30 - 2.16mm	Nickel
AT60-20-0244	ATM, DuraMate, PanelMate	Pin	Stamped & Formed	20	7.5A	16-22AWG	1.30 - 2.16mm	Gold
AT60-20-0277	ATM, DuraMate, PanelMate	Pin	Stamped & Formed	20	7.5A	16-22AWG	1.30 - 2.16mm	Tin
AT60-20-0422	ATM, DuraMate	Pin	Stamped & Formed	20	7.5A	20-22AWG	1.25 - 1.8mm	Nickel
AT60-20-0444	ATM, DuraMate	Pin	Stamped & Formed	20	7.5A	20-22AWG	1.25 - 1.8mm	Gold
AT60-20-0477	ATM, DuraMate	Pin	Stamped & Formed	20	7.5A	20-22AWG	1.25 - 1.8mm	Tin

AT62-12-0144	ATP, AHD-6, DuraMate, PanelMate	Socket	Stamped & Formed	12	25A	12-14AWG	2.87 - 4.47mm	Gold
AT62-12-0166	ATP, AHD-6, DuraMate, PanelMate	Socket	Stamped & Formed	12	25A	12-14AWG	2.87 - 4.47mm	Nickel
AT62-12-0166-LP	ATP, AHD-6, DuraMate, PanelMate	Socket	Stamped & Formed	12	25A	12-14AWG	2.87 - 4.47mm	Nickel
AT62-12-0177	ATP, AHD-6, DuraMate	Socket	Stamped & Formed	12	25A	12-14AWG	2.87 - 4.47mm	Tin
AT62-12-0222	ATP, DuraMate, PanelMate	Socket	Stamped & Formed	12	25A	10-12AWG	3.56 - 5.18mm	Nickel
AT62-12-0222-LP	ATP, DuraMate, PanelMate	Socket	Stamped & Formed	12	25A	10-12AWG	3.56 - 5.18mm	Nickel
AT62-12-0244	ATP, DuraMate, PanelMate	Socket	Stamped & Formed	12	25A	10-12AWG	3.56 - 5.18mm	Gold
AT62-12-0277	AT, DuraMate	Socket	Stamped & Formed	12	25A	10-12AWG	3.56 - 5.18mm	Tin
AT62-14-0122	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	14-18AWG	2.40 - 3.81mm	Nickel

Part Number	Works with the following Series™	Type	Style	Size	Amp	AWG Range	Insul OD	Plating
AT62-14-0122-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	14-18AWG	2.40 - 3.81mm	Nickel
AT62-14-0144	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	14-18AWG	2.40 - 3.81mm	Gold
AT62-14-0177	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	14-18AWG	2.40 - 3.81mm	Tin
AT62-16-0122	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Nickel
AT62-16-0122-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Nickel
AT62-16-0144	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Gold
AT62-16-0144-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Gold
AT62-16-0177	AT, AHD-9, DuraMate	Socket	Stamped & Formed	16	13A	16-18AWG	1.91 - 3.55mm	Tin
AT62-16-0622	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	16-20AWG	1.40 - 2.54mm	Nickel
AT62-16-0622-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	16-20AWG	1.40 - 2.54mm	Nickel
AT62-16-0644	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	18-20AWG	1.40 - 2.54mm	Gold
AT62-16-0644-LP	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	18-20AWG	1.40 - 2.54mm	Gold
AT62-16-0677	AT, AHD-9, DuraMate	Socket	Stamped & Formed	16	13A	16-20AWG	1.40 - 2.54mm	Tin
AT62-16-0822	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Nickel
AT62-16-0844	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Gold
AT62-16-0877	AT, ATV, AHD-9, ARC, DuraMate, PanelMate	Socket	Stamped & Formed	16	13A	20-22AWG	1.31 - 1.50mm	Tin
AT62-20-0122	ATM, DuraMate, PanelMate	Socket	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Nickel
AT62-20-0122-LP	ATM, DuraMate, PanelMate	Socket	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Nickel
AT62-20-0144	ATM, DuraMate, PanelMate	Socket	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Gold
AT62-20-0144-LP	ATM, DuraMate, PanelMate	Socket	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Gold
AT62-20-0177	ATM, DuraMate	Socket	Stamped & Formed	20	7.5A	16-22AWG	1.91 - 3.15mm	Tin
AT62-20-0222	ATM, DuraMate, PanelMate	Socket	Stamped & Formed	20	7.5A	16-22AWG	1.30 - 2.16mm	Nickel
AT62-20-0244	ATM, DuraMate, PanelMate	Socket	Stamped & Formed	20	7.5A	16-22AWG	1.30 - 2.16mm	Gold
AT62-20-0277	ATM, DuraMate, PanelMate	Socket	Stamped & Formed	20	7.5A	16-22AWG	1.30 - 2.16mm	Tin

A Series™ Contacts - Keying Pins

Part Number	Description	Type	Size	Amp	AWG Range	Color	Material
AT13-215-1605	Keying Pin, Size 16, White, AT Series™, For use in empty socket-side cavities Works with AT, AHD, and DuraMate™ Series	Pin	16	-	-	White	Thermoplastic
AT13-216-2005	Keying Pin, Size 20, Red, AT Series™, For use in empty socket-side cavities Works with ATM, DuraMate™ Series	Pin	20	-	-	Red	Thermoplastic