



## AMPHENOL AT SERIES™ SPECIFICATIONS

The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. Connector housings are manufactured with a thermoplastic material that is not only durable, but has excellent UV resistance, dielectric/mechanical properties and is environmentally RoHS compliant. The sealing system is comprised of a front and rear silicone, multi-sealing, perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection. These are suited for applications demanding higher levels of performance.

### Performance Criteria

<b>CURRENT CAPACITY</b>	No. 16, 13 amps (max)
<b>WIRE RANGE</b>	No. 16, contacts will accept wire ranges of 0.5mm <sup>2</sup> to 2.0mm <sup>2</sup> (14-20AWG)
<b>TEMPERATURE</b>	Operating temperature range: -55°C to +125°C at rated current
<b>DIELECTRIC VALUE</b>	Meets or exceeds 1500 volts minimum
<b>FLAME RESISTANCE</b>	All dielectric materials have a flammability rating of UL94 HB or better
<b>DROP TEST</b>	Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times
<b>SHOCK</b>	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
<b>VIBRATION</b>	Continued continuity without degradation to mechanical or physical attributes following vibration (max acceleration 20 g's at Sine sweep of 10–2000Hz)
<b>CONNECTOR TERMINAL RETENTION</b>	When subjected to a direct pull, 0.5mm <sup>2</sup> to 2.0mm <sup>2</sup> achieves minimum pull-out force of 110 newtons
<b>CONNECTOR RETENTION</b>	A mated connector subjected to a pulling force by the exiting wire bundle at 111 newtons times the number of contacts to a maximum of 444 newtons applying load for 30 seconds
<b>THERMAL SHOCK</b>	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
<b>INSULATION RESISTANCE</b>	Insulation resistance at 25°C shall be greater than 20 megohms when 1000 VDC are applied
<b>MATING CYCLE DURABILITY</b>	Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident
<b>CONTACT MILLIVOLT DROP</b>	No. 16 contacts with 16 awg conductor – *100 millivolt drop max at 13 amps test current
<b>ULTRAVIOLET EFFECTS</b>	Test the mated connectors for 1000 hours per ASTM G 154 or ASTM G 153 with 20 hours UV and 4 hours of condensation for each cycle
<b>WATER IMMERSION</b>	A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then placed immediately in a depth of water of 1 meter for 4 hours without loss of electronic performance (IP67 RATED)

### Product Material

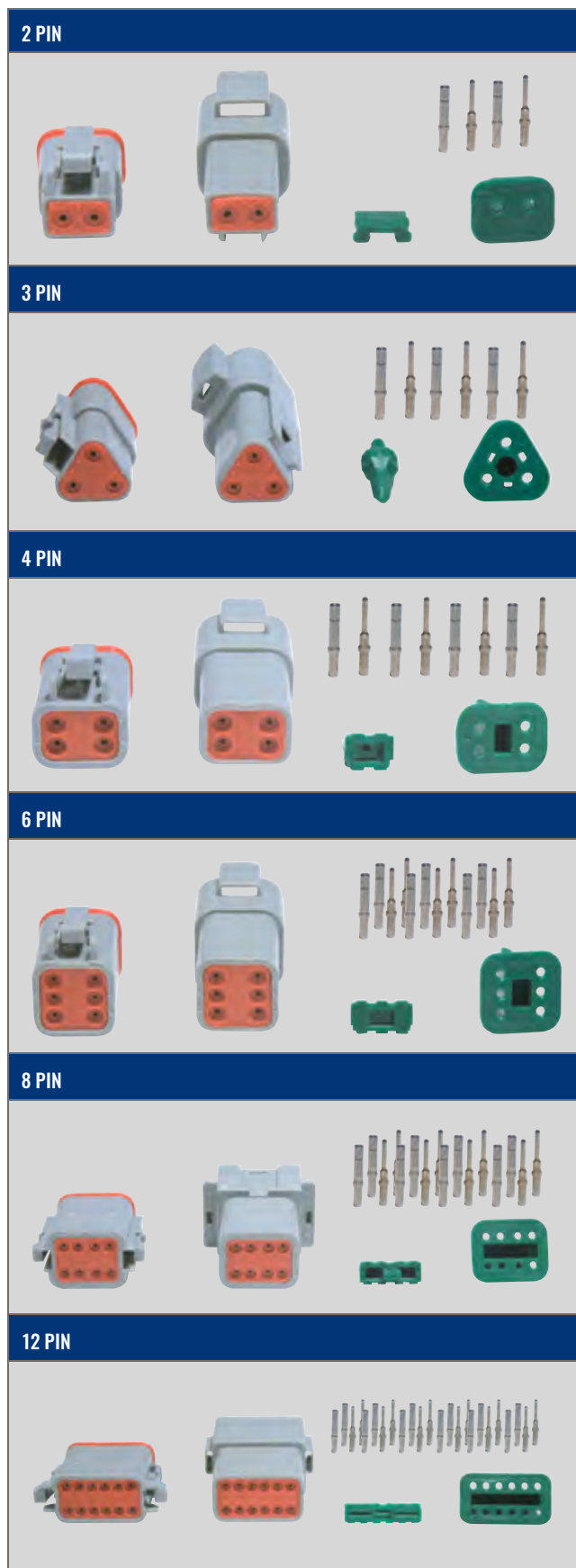
<b>HOUSINGS</b>	Thermoplastic
<b>SEALS</b>	Silicone Elastomer
<b>SECONDARY LOCKS</b>	Thermoplastic
<b>CONTACTS</b>	Nickel Plated



# AMPHENOL AT SERIES™ 2, 3, 4, 6, 8 & WAY CONNECTORS

Packaged sets of receptacles, plugs & wedges

CODE	PART NO. 88010264
C	1 x 2 PIN RECEPTACLE (AT04-2P)
	1 x 2 PIN RECEPTACLE WEDGE
	1 x 2 PIN PLUG (AT06-2S)
	1 x 2 PIN PLUG WEDGE
	2 x SOLID CRIMP PIN CONTACTS (NICKEL)
	2 x SOLID CRIMP SOCKET CONTACTS (NICKEL)
	PART NO. 88010265
	1 x 3 PIN RECEPTACLE (AT04-3P)
	1 x 3 PIN RECEPTACLE WEDGE
	1 x 3 PIN PLUG (AT06-3S)
	1 x 3 PIN PLUG WEDGE
	3 x SOLID CRIMP PIN CONTACTS (NICKEL)
	3 x SOLID CRIMP SOCKET CONTACTS (NICKEL)
	PART NO. 88010266
	1 x 4 PIN RECEPTACLE (AT04-4P)
	1 x 4 PIN RECEPTACLE WEDGE
	1 x 4 PIN PLUG (AT06-4S)
	1 x 4 PIN PLUG WEDGE
	4 x SOLID CRIMP PIN CONTACTS (NICKEL)
	4 x SOLID CRIMP SOCKET CONTACTS (NICKEL)
PART NO. 88010267	
1 x 6 PIN RECEPTACLE (AT04-6P)	
1 x 6 PIN RECEPTACLE WEDGE	
1 x 6 PIN PLUG (AT06-6S)	
1 x 6 PIN PLUG WEDGE	
6 x SOLID CRIMP PIN CONTACTS (NICKEL)	
6 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	
PART NO. 88010268	
1 x 8 PIN RECEPTACLE (AT04-08PA)	
1 x 8 PIN RECEPTACLE WEDGE	
1 x 8 PIN PLUG (AT06-08SA)	
1 x 8 PIN PLUG WEDGE	
8 x SOLID CRIMP PIN CONTACTS (NICKEL)	
8 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	
PART NO. 88010269	
1 x 12 PIN RECEPTACLE (AT04-12PA)	
1 x 12 PIN RECEPTACLE WEDGE	
1 x 12 PIN PLUG (AT06-12SA)	
1 x 12 PIN PLUG WEDGE	
12 x SOLID CRIMP PIN CONTACTS (NICKEL)	
12 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	

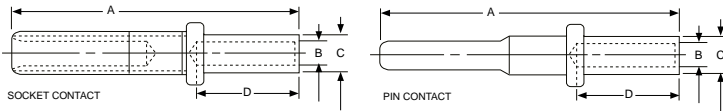


# AMPHENOL PIN & SOCKET CONTACTS



## Military-Style Solid Crimp

These Military-Style Solid Crimp Contacts are derived from Nickel to ensure an electrically-reliable connection. For applications demanding higher levels of performance, you can rely on our contact technology. Both Nickel and Gold contacts utilise the simple crimp-style termination, requiring no solder usage. Two sizes of contacts available. RoHS Compliant.



AMPHENOL PINS & SOCKETS

CODE	PART NO.	SIZE/TYPE	A MAX	B MAX	C MAX	D MIN	WIRE GAUGE RANGE	RECOMM'D STRIP LENGTH	PACK QTY
C	88010295 (NICKEL)	16 PIN	20.6	1.67	2.61	6.4	16 & 18	6.4-7.9	100
	88010297 (NICKEL)	16 SOCKET	19.0	1.67	2.61	6.4	16 & 18	6.4-7.9	100

CODE	PART NO.	SIZE/TYPE	A MAX	B MAX	C MAX	D MIN	WIRE GAUGE RANGE	RECOMM'D STRIP LENGTH	PACK QTY
C	88010299 (NICKEL)	16 PIN	20.6	2.6	3.3	6.4	14	6.4-7.9	100
	88010300 (NICKEL)	16 SOCKET	19.0	2.6	3.3	6.4	14	6.4-7.9	100

## Amphenol AT Series Kit

PART NO.	SIZE/TYPE	PART NO.	SIZE/TYPE
<b>PART NO.:QKAT-RK1100</b>		<b>PART NO.:QKAT-RK1100</b>	
2 PIN RECEPTACLE	15	6 PIN PLUG WEDGE	10
2 PIN PLUG	15	8 PIN RECEPTACLE	5
2 PIN RECEPTACLE WEDGE	15	8 PIN PLUG	5
2 PIN PLUG WEDGE	15	8 PIN RECEPTACLE WEDGE	5
3 PIN RECEPTACLE	10	8 PIN PLUG WEDGE	5
3 PIN PLUG	10	12 PIN RECEPTACLE	5
3 PIN RECEPTACLE WEDGE	10	12 PIN PLUG	5
3 PIN PLUG WEDGE	10	12 PIN RECEPTACLE WEDGE	5
4 PIN RECEPTACLE	10	12 PIN PLUG WEDGE	5
4 PIN PLUG	10	PIN CONTACTS SOLID CRIMP NICKEL (SIZE 16)	150
4 PIN RECEPTACLE WEDGE	10	SOCKET CONTACTS SOLID CRIMP NICKEL (SIZE 16)	150
4 PIN PLUG WEDGE	10	SEALING PLUGS (SIZE 16)	20
6 PIN RECEPTACLE	10	CONTACT AND WEDGE REMOVAL TOOL	1
6 PIN PLUG	10	HAND CRIMP TOOL	1
6 PIN RECEPTACLE WEDGE	10		



88010298-000



QKAT-RK1100