



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

CURRENT CAPACITY	No. 16, 13 amps (max)
WIRE RANGE	No. 16, contacts will accept wire ranges of 0.5mm ² to 2.0mm ² (14-20AWG)
TEMPERATURE	Operating temperature range: -55°C to +125°C at rated current
DIELECTRIC VALUE	Meets or exceeds 1500 volts minimum
FLAME RESISTANCE	All dielectric materials have a flammability rating of UL94 HB or better
DROP TEST	Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times
SHOCK	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
VIBRATION	Continued continuity without degradation to mechanical or physical attributes following vibration (max acceleration 20 g's at Sine sweep of 10–2000Hz)
CONNECTOR TERMINAL RETENTION	When subjected to a direct pull, 0.5mm ² to 2.0mm ² achieves minimum pull-out force of 110 newtons
CONNECTOR RETENTION	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
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
INSULATION RESISTANCE	Insulation resistance at 25°C shall be greater than 20 megohms when 1000 VDC are applied
MATING CYCLE DURABILITY	Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident
CONTACT MILLIVOLT DROP	No. 16 contacts with 16 awg conductor – *100 millivolt drop max at 13 amps test current
ULTRAVIOLET EFFECTS	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
WATER IMMERSION	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

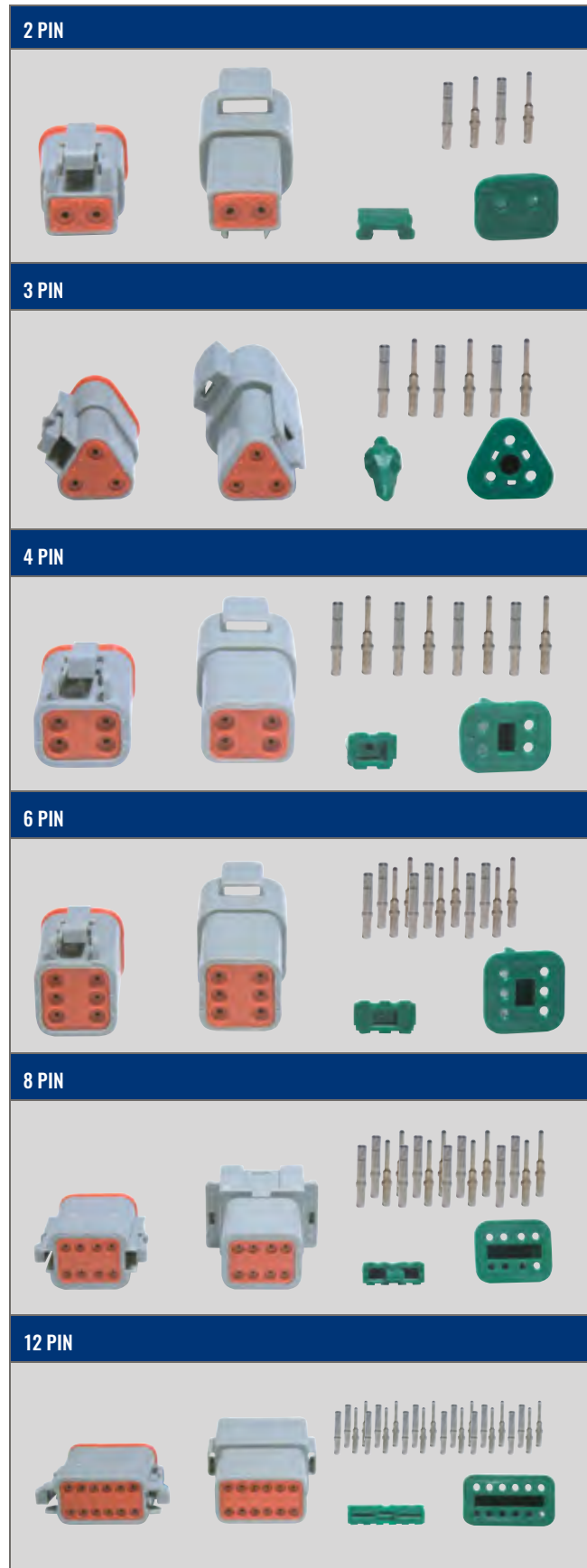
HOUSINGS	Thermoplastic
SEALS	Silicone Elastomer
SECONDARY LOCKS	Thermoplastic
CONTACTS	Nickel Plated



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)	

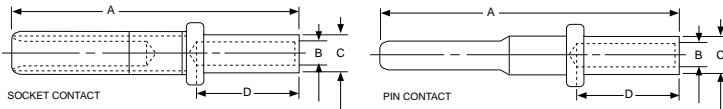


AMPHENOL PIN & SOCKET CONTACTS



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
PART NO.:QKAT-RK1100		PART NO.:QKAT-RK1100	
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

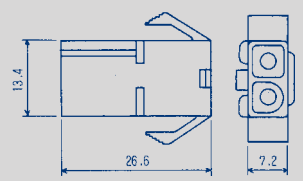
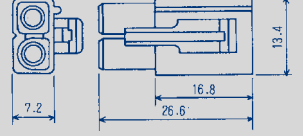
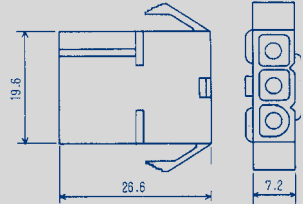
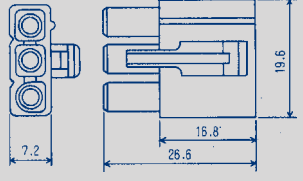
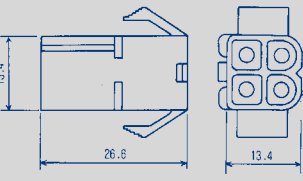
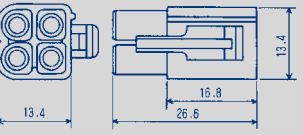
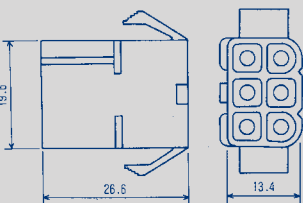
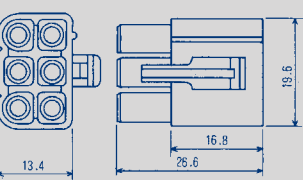
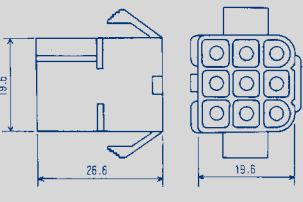
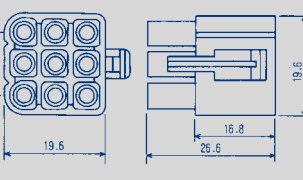


QKAT-RK1100

MULTI PIN CONNECTORS

6007 SERIES

There are many special features of the 6007 connector series that exceed standard connector design practices. Rated at up to 300V AC/DC, these compact connectors will withstand 1,500V AC/minute, and operate within a temperature range of -25°C to 105°C. Polarised to ensure correct mating, a positive locking latch also automatically engages at mating, and the option exists for in line or hand fitted panel mounted installation. The complete cell housing system fully covers and protects the contacts. The high reliability 2mm O.D. crimp contacts, are easily snapped into the housings by hand, with two sizes covering a wide wire range from 0.2 to 2.0mm². Maximum contact resistance is limited to 10 ohm.

CODE	POLES	VOLTAGE RATING	CURRENT RATING	RECEPTACLE HOUSING FOR PIN CONTACT	PLUG HOUSING FOR SOCKET CONTACT
C				6007RH02	6007PH02
	2	300V	15A		
				6007RH03	6007PH03
	3	300V	14A		
				6007RH04	6007PH04
	4	300V	13A		
				6007RH06	6007PH06
	6	300V	12A		
			6007RH12	6007PH12	
12	300V	9A			

Contact - Pins

CODE	PART NO. PIN	PART NO. SOCKET	WIRE mm ²	WIRE AWG	PACK QTY
C	7005LT1	7006LT1	0.5-2.0	20-14	100
	7005LT2	7006LT2	0.2-0.5	24-20	100

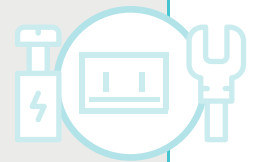
Housings

CODE	PART NO. RECEPT	PART NO. PLUG	POLES	CURRENT RATING AC	PACK QTY
C	6007RH02	6007PH02	2	15	50
	6007RH03	6007PH03	3	14	50
	6007RH04	6007PH04	4	13	50
	6007RH06	6007PH06	6	12	50
	6007RH12	6007PH12	12	9	50

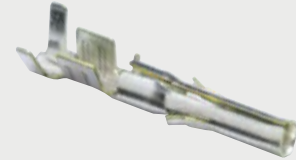
Complete 6007 Series Connectors

Complete connectors consist of both housings and sufficient contacts to build a connector.

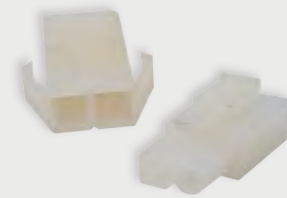
CODE	PART NO. RECEPT	POLES RATING AC	VOLTAGE	CURRENT AMPS	PACK QTY
C	6007-1	1	600	15	1 set
	6007-2	2	300	15	1 set
	6007-3	3	300	14	1 set
	6007-4	4	300	13	1 set
	6007-6	6	300	12	1 set
	6007-9	9	300	10	1 set
	6007-12	12	300	9	1 set
	6007-15	15	300	9	1 set



CONTACT - PINS



CONTACT - SOCKET



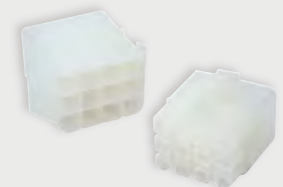
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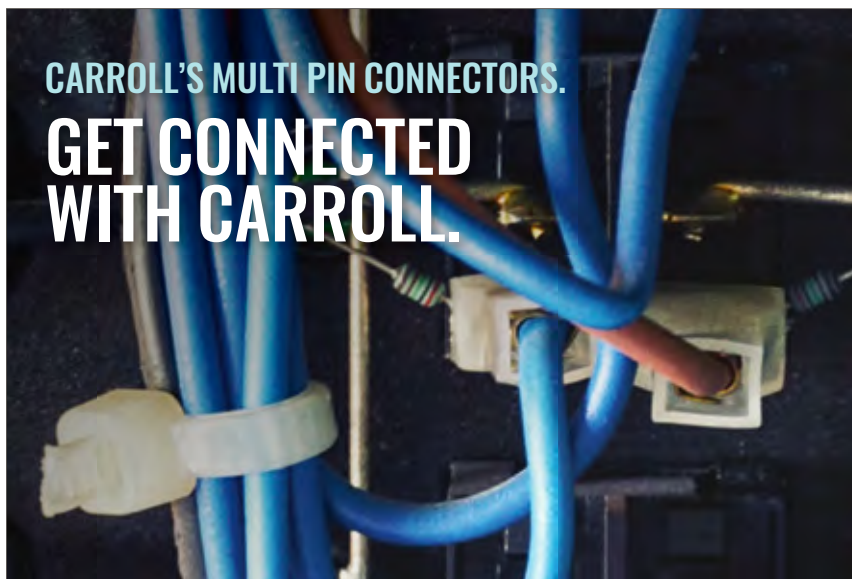
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6007-9



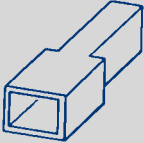
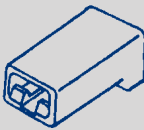
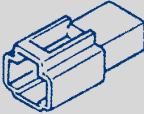
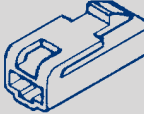
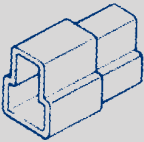
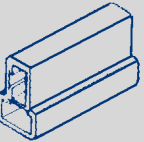
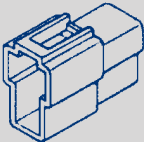
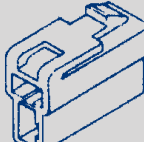
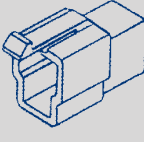
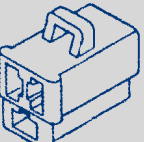
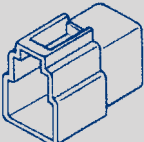
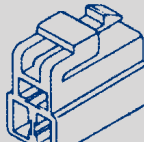
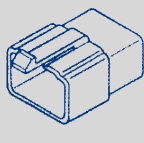
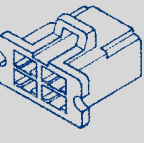
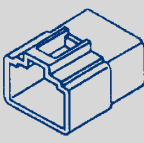
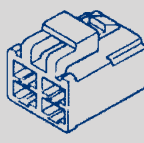
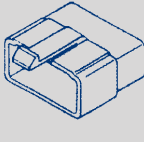
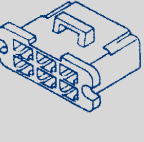
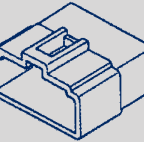
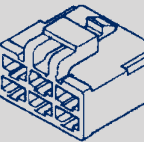
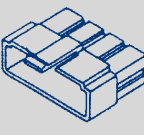
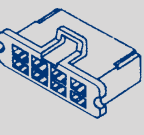
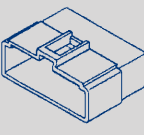
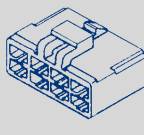
6007-12



MULTI PIN CONNECTORS

QK SERIES

These connectors conform to the common 250 series, 6.0mm (J.A.S.O.) and 6.3mm (European standards). All connectors are polarised to prevent incorrect mating. A positive locking latch automatically engages at mating for connectors with an "L" suffix. Housings with a "T" suffix also feature panel mounting tabs. Latch type housings and non-latch housings can be mated if required. The tin plated crimp contacts, are easily snapped into the housings by hand. Two sizes cover a wide wire range from 0.8 to 3.0mm².

CODE	CIRCUITS	STANDARD	STANDARD	REVERSE	REVERSE	PACK QTY
C		QK1A	QK1B	QK1ASL	QK1BSL	
	1					10
		QK2A	QK2B	QK2ASL	QK2BSL	
	2					10
		QK3AL	QK3BL	QK3ASL	QK3BSL	
	3					10
		QK4AL	QK4BLT*	QK4ASL	QK4BSL	
	4					10
		QK6AL	QK6BLT*	QK6ASL	QK6BSL	
	6					10
	QK8AL	QK8BLT	QK8ASL	QK8BSL		
8					10	

*These housings can be screw panel mounted via their mounting ear feature. **Note: The plug housing is also referred to as the female housing, as it accepts the female terminal. The receptacle housing is also referred to as the male housing, as it accepts the male tab terminal.**

QK Connector Contacts - Receptacles

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	604502BL2	0.8-1.5	BRASS	TIN	100
	604501BL2	1.5-3.0	BRASS	TIN	100
	605001BL2*	0.8-1.3	BRASS	TIN	100

*This terminal is required and suits QK1BSL housing only.

QK Connector Contacts - Tabs

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	605502BL2	0.8-1.5	BRASS	TIN	100
	605501BL2	1.5-3.0	BRASS	TIN	100

QK Connector Housing

CODE	PART NO. RECEPT	PART NO. PLUG	POLES	LATCH	PACK QTY
C	QK1ASL	QK1BSL	1	YES	10
	QK1A	QK1B	1	NO	10
	QK2A	QK2B	2	NO	10
	QK2ASL	QK2BSL	2	YES	10
	QK3AL	QK3BL	3	YES	10
	QK3ASL	QK3BSL	3	YES	10
	QK4AL	QK4BLT*	4	YES	10
	QK4ASL	QK4BSL	4	YES	10
	QK6AL	QK6BLT*	6	YES	10
	QK6ASL	QK6BSL	6	YES	10
	QK8AL	QK8BLT*	8	YES	10
	QK8ASL	QK8BSL	8	YES	10

*These housings can be screw panel mounted via their mounting ear feature.

Complete QK Series Connectors

Complete connectors consist of both housings and sufficient contacts to build a connector.

CODE	PART NO.	POLES	LATCH	PACK QTY
C	QK1	1	YES	1
	QK2	2	NO	1
	QK3	3	YES	1
	QK4	4	YES	1
	QK6	6	YES	1
	QK8	8	YES	1



CONTACT - RECEPTACLE

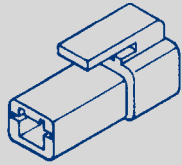
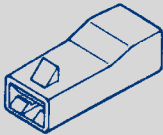
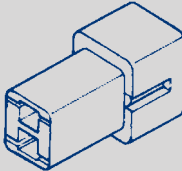
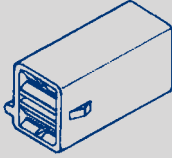


CONTACT - TABS

MULTI PIN CONNECTORS QL SERIES

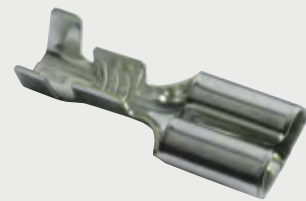
These .312 (or 8mm) Series connectors are polarised to prevent incorrect mating. A positive locking latch automatically engages at mating for the single circuit connector. The standard connector used in fusible links. The tin plated crimp contacts, are easily snapped into the housings by hand. Applicable terminal wire range is 1.3 to 2.0mm².

Note: The plug housing is also referred to as the female housing, as it accepts the female terminal. The receptacle housing is also referred to as the male housing, as it accepts the male tab terminal.

CODE	RECEPTACLE HOUSING FOR MALE CONTACT	PLUG HOUSING FOR FEMALE CONTACT
C	QL1A 	QL1B 
	QL2A 	QL2B 

Contacts - Receptacles

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	66047BL2	1.3-2.0	BRASS	TIN	100



CONTACT - RECEPTACLE

Contacts - Tabs

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	66057BL2	1.3-2.0	COMPOSITE	TIN	100
	605702BL0	0.8-1.3	COMPOSITE	TIN	100



CONTACT - TABS

Housings

CODE	PART NO. RECEPT	POLES	LATCH	CONNECTOR LENGTH mm	PACK QTY
C	QL1A	1	YES	30	10
	QL2A	2	YES	34	10

CODE	PART NO. TAB	POLES	LATCH	CONNECTOR LENGTH mm	PACK QTY
C	QL1B	1	YES	34	10
	QL2B	2	YES	30	10

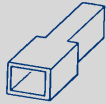
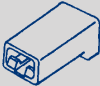
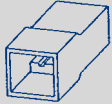
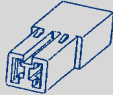
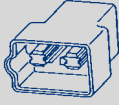
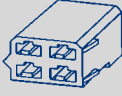
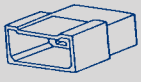

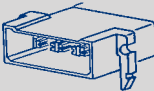

Complete QL Series Connectors

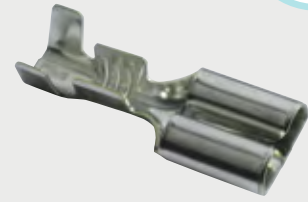
Complete connectors consist of both housings and sufficient contacts to build a connector.

CODE	PART NO.	POLES	LATCH	PACK QTY
C	QL1	1	YES	1
	QL2	2	NO	1

AMP Connectors - Faston Connectors

Similar type connector range to the QK Series using .250 tab and receptacle terminals. This connector is common on equipment manufactured in Europe and USA. (eg: buses, trucks, vending equipment.)

CODE	NO OF CIRCUITS	RECEPTACLE HOUSING FOR MALE TAB	PLUG HOUSING FOR FEMALE TAB	PACK QTY
C		QK1A (180916)	QK1B (180905)	
	1			10
		180924	180923	
	2			50
		180901	180900	
	4			50
		180906	180904	
	6			50
		280430	163007	
	8			50



CONTACT - RECEPTACLE



CONTACT - TABS

Contacts - Receptacles

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	42238-1	0.8-2.0	BRASS	NONE	500

Contacts - Tabs

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	42241-1	0.8-2.0	BRASS	NONE	250

Housings

CODE	PART NO. RECEPT	POLES	PACK QTY
C	180924	2	50
	180901	4	50
	180906	6	50
	280430	8	50

CODE	PART NO. PLUG	POLES	PACK QTY
C	180923	2	50
	180900	4	50
	180904	6	50
	163007-0	18	50

WEATHER PACK SERIES - SEALED CONNECTORS

Weather Pack connectors are made for signal level circuits in harsh environmental conditions where even a small degradation in the connection may be critical. Special materials and seals are used to allow the connector to withstand conditions of extreme temperature, moisture and even submersion. The connector employs a pin and sleeve-type terminal. The pin can flex outward to maintain contact with the sleeve and is therefore called a flexpin. The sleeve has a laplock to reduce relaxation. Rated at up to 20 amps DC, the housings incorporate a positive locking latch and a secondary lock on the contacts. The one (1) to six (6) circuit housings are designed to be used in line or mounted by insertion of a Weather Pack mounting clip. The twenty-two (22) circuit connector is designed to be bulkhead mounted. Male plugs mate with male pins.

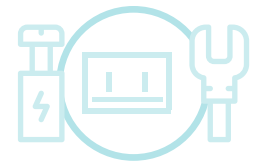
Please see the next page for technical specifications.



CONTACT - RECEPTACLE



CONTACT - TABS



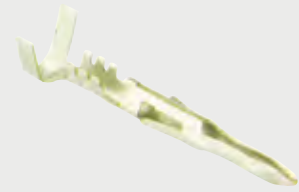
Weather Pack Housings

CODE	NO. OF CIRCUITS	FEMALE PLUG	MALE PLUG	PACK QTY
C		12015791	12010966	
	1			10
		12015792	12010973	
	2			50
		12015793	12010717	
	3			50
		12015797	12010974	
	4			50
		12015798	12015024	
	4			50
		12034342	12065158	
	5			50
	12015799	12010975		
6			50	
	12020991	12020005		
22*			50	

*Both plugs each require 2 secondary locks, part number 12010852.

Contacts - Pins

CODE	PART NO. PIN	WIRE mm ²	WIRE AUTO	PACK QTY
C	12089040L	1	3	100
	12124582L	2	4	100
	12124587L	3	5	100
	12089307L	0.35	-	100



MALE TERMINAL
(PIN)

Contacts - Sockets

CODE	PART NO. SOCKET	WIRE mm ²	WIRE AUTO	PACK QTY
C	12089188L	1	3	100
	12124580L	2	4	100
	12124581L	3	5	100
	12020801L	0.35	-	100



FEMALE TERMINAL
(SOCKET)

Housings

CODE	PART NO. RECEIPT	POLES	TYPE	LATCH	PACK QTY
C	12015791	1	FLAT	YES	50
	12015792	2	FLAT	YES	50
	12015793	3	FLAT	YES	50
	12015797	4	FLAT	YES	50
	12015798	4	SQUARE	YES	50
	12034342	5	FLAT	YES	50
	12015799	6	FLAT	YES	50
	12020991	22	ROUND	YES	1
	12010852	-	SECONDARY LOCK	-	10



Housings

CODE	PART NO. PLUG	POLES	TYPE	LATCH	PACK QTY
C	12010996	1	FLAT	YES	50
	12010973	2	FLAT	YES	50
	12010717	3	FLAT	YES	50
	12010974	4	FLAT	YES	50
	12015024	4	SQUARE	YES	50
	12065158	5	ROUND	YES	50
	12010975	6	FLAT	YES	50
	12020005	22	ROUND	YES	1
	12010852	-	SECONDARY LOCK	-	10

Weather Pack Seals & Cavity Plug

CODE	PART NO.	WIRE SIZE	COLOUR	MATERIAL	PACK QTY
C	12015899	1.29–2.06	RED	SILICONE	100
	12015323	2.03–2.80	GREEN	SILICONE	100
	12010293	2.81–3.49	GREY	SILICONE	100
	12015193	3.50–4.21	BLUE	SILICONE	100
	12010300	CAVITY PLUG	GREEN	SILICONE	100



CAVITY PLUG

Complete Weather Pack Connectors

Complete connectors consist of both housings and sufficient contacts to build two (2) connectors. Contacts and seals supplied suit 2mm² (4–5mm auto).

CODE	PART NO.	POLES	TYPE	PACK QTY
C	2C1CW	1	FLAT	2
	2C2CW	2	FLAT	2
	2C3CW	3	FLAT	2
	2C4CIW	4	FLAT	2
	2C4CSW	4	SQUARE	2
	2C5CW	5	ROUND	2
	2C6CW	6	FLAT	2
	1C22CW	22	ROUND	1



COMPLETE WEATHER
PACK CONNECTORS

FUEL INJECTION / REGULATOR CONNECTOR

Two, three and four circuit housings complete with contacts and rubber boot for sealing, in convenient packaged presentation. Components are available outside of kit form in larger pack sizes.

Complete Connector Kits

CODE	PART NO.	NO. OF CIRCUITS	PACK QTY
C	BRP1	2	1
	BRP3	3	1
	BRP4	4	1

Components

CODE	PART NO.	DESCRIPTION	PACK QTY
C	0-0925590	TERMINAL	100
	827551-3	2 CIRCUIT PLUG	50
	1280703026	2 CIRCUIT BOOT	10
	1-827578-1	3 CIRCUIT PLUG	10
	MT-4BV	4 CIRCUIT PLUG	10
	859G547-B	3 & 4 CIRCUIT BOOT	10

TEMPERATURE SENDER CONNECTOR

Single circuit housing with cutaway area for mounting onto sender units complete with correct terminal contact that features sprung mating nib. 10 of each terminal and housing in each kit. Components are available outside of kit form in larger pack sizes.

Complete Kit

CODE	PART NO.	DESCRIPTION	PACK QTY
C	TS KIT	TEMPERATURE SENDER KIT	10

Components

CODE	PART NO.	DESCRIPTION	PACK QTY
C	2962965	HOUSING	50
	605001BL2	TERMINAL	100



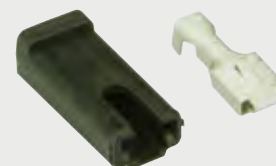
COMPLETE CONNECTOR
KITS - BRP1



COMPLETE CONNECTOR
KITS - BRP3



COMPLETE CONNECTOR
KITS - BRP4



TEMPERATURE
SENDER KIT