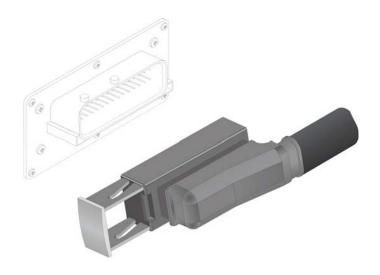


SMARTDRIVE™ EASY MAIN CONNECTOR



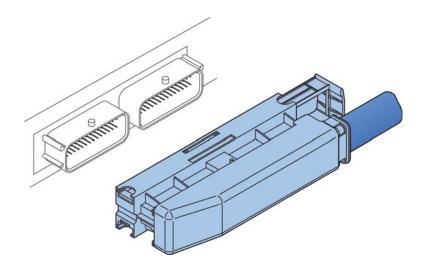
Commercial name	KIT-CONNECTEUR-MAIN-SD-EASY
Part number	A02809D

Features			
Manufacturer			AMP
		Connector:	1-967281-1
		Protective cover:	0-965643-1
		7 female contacts:	929937-3
Componants	Power	7 insulants:	828905-1
Componants		6 stoppers:	828922-1
		40 female contacts:	962876-1
	Signals	40 insulants:	963530-1
		36 stoppers:	963531-1
Cable section	For power pins	1.5 to 2.5 mm² [0.0023 to	0.004 in²]
Cable Section	For signal pins	0.5 to 1.0 mm² [0.0008 to	0.0015 in²]
Insulation diameter	For power pins	2.2 to 3.0 mm ² [0.0034 to 0.0046 in ²]	
moulation didffeter	For signal pins	1.4 to 1.9 mm² [0.0021 to 0.003 in²]	
Operating temperature	-40°C to 85°C [-40°F to 185°F]		
Ingress protection	IP 68		

Mounting tools for the connector	AMP reference
Crimpers	539635-1
Chuck-jaw for power spindles	539737-2
Chuck-jaw for control spindles	539651-2
Extractor for power spindles	1-1579007-6
Extractor for control spindles	726534-1



SMARTDRIVE PREMIER, MASTER, OFFROAD MAIN CONNECTOR



Commercial name	MAIN SD CONNECTOR KIT
Part number	007142203P

Features		
Manufacturer		FCI
	Connectors:	PPI0001258
	Locking cam:	211A567007
Componants	Protective cover:	211A560008
	60 Pins:	211CC2S1120
	60 Stoppers:	F180100
	(when a pin is not used)	
Cable section	0.35 to 0.75 mm² [0.0005 to 0.0011 in²]	
Insulation diameter	1.4 to 2.7 mm [0.05 to 0.11 in]	
Operating temperature	-40°C to +125°C [-40°F to 257°F]	
Ingress protection	IP 68	

Electronic control units

Displays

Electronic components

Connectors

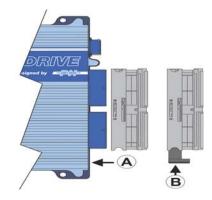


Fitting the main connector

Locking device position

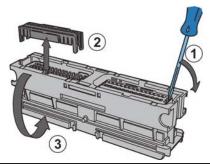
- A. Place the black unit on the ECU.
 Note its position and separate its from the ECU.
- B. Insert the purple locking device into the unit from the botton to the top and push until it clicks.

 The cable will have to be positioned on the locking device

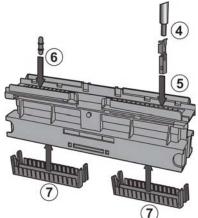


Fitting the connector

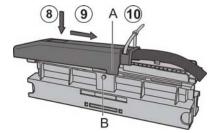
- 1. Unclip the 2 yellow supports.
- 2. Remove these supports.
- 3. Turn the unit over.



- Strip the wire over 4 mm.
 Crimp each conductor on its lug using pliers FCI211S005.
- Insert each lug into the connector as shown in the electrical circuit diagram in the appendix.
 In case of error, use extraction tool 210S048 to remove the lug
- 6. Insert the green plugs into the free ports of the connector.
- 7. Clip on the 2 yellow supports.

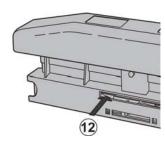


- 8. Position the cover and lower it.
 The cover tab (A) must be on the right of the unit tab (B).
- 9. Lock it by pulling on it until there is a click.
- 10. Secure the cable uising a cable grip.



Removing the locking device

- 12. To remove the purple locking device, press as shown.
- 13. Partially pull out the locking device, press as shown.
- 14. Repeat point 12 on the other side, and completely remove the locking device.







Commercial name	COM SD LT CONNECTOR KIT	
Part number	A49773B	
Compatibility	SmartDrive Easy Plus, SmartDrive Auto, SmartDrive Premier, SmartDrive Master, SmartDrive Offroad	

Features		
Manufacturer		AMPHENOL
Componants	Bayonet connector 14 pins	PT06A12-14SPG023F620
Cable diameter	3.5 - 8 mm [0.14 - 0.31 in]	
Wire section	0,38 mm ² to 0,93 mm ² [to0.0005 in	² to 0.001 in ²]
Operating temperature	-55°C to 125°C [-67°F to 257°F]	
Material	Aluminium	

Connector mounting

- Unscrew the connector sub-assemblies.
 Passthe cable through the securing elements.
- Strip the wires to a length of 5 mm [0.19 in].
 Solder the wires onto the pins as shown in the next table.
- Remount the connector by screwing the securing elements to one another.

Connector wires designation

E: CANL

F: CANL

K: CANH_120

M: CANH

N: CANH

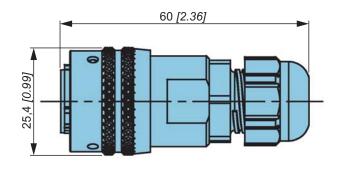
P: GND

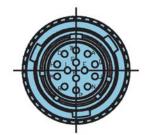
R: GND

A 120 ohm bus termination resistor can be activated in linking up K and E, or K and F.

OA

Layout





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SMARTDRIVE™ MALE COMMUNICATION CONNECTOR



Commercial name	KIT CONNECTEUR MALE COM SD	
Part number	A50515H	
Compatibility	SmartDrive™ Easy Plus, SmartDrive™ Auto	

Features			
Manufacturer		Amphénol	
	Receptacle	PT02A12-14P023	
Components	Closing cap	BECN1207	
	Seal	JE12	
Wire range	0,38 to 0,93 mm ²		
Insulation diameter	1,2 to 2,4 mm		
Operating temperature	-55°C to +125°C [-6	7°F to 257°F]	
Ingress Protection	IP68		
Material	Aluminium wit h plat	ed nickel	

Connector mounting

Strip the wires to a length of 5 mm [0.19 in]. Solder the wires onto the pins as shown in the table below.

N° pin SD Easy Plus connector	Function	N° pin male communication connector
7	5V RS 232	A
12	CAN L	E, F
26	RX RS 232*	Н
14	CAN H 120	K
27	TX RS 232*	L
13	CAN H	M, N
42	Ground	P, R



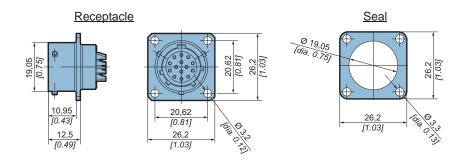
Risk of damage to the serial port of the ECU.

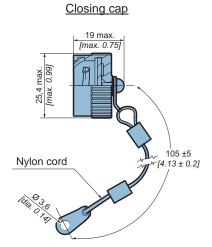
When connecting an external equipment working with the RS232 link, be sure to connect as following:

- RX RS 232 (Easy) → TX RS232 (Various equipment) TX RS 232 (Easy) → RX RS232 (Various equipment)

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Layout







SMARTDRIVE™ CT MAIN CONNECTOR



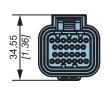
Characteristics			SD-CT-200	SD-T-300
Commercial name			KIT-CONNECT-SD-CT-200	KIT-CONNECT-SD-CT-300
Poclain Hydraulics part number			A48149L	A48140B
Function		SmartDrive™	CT controller's Counter-part con	nectors
Compatibility	Ele	Electronic transmission management with SmartDrive™ CT controller		
Component		AMP reference		
Connector A		1473416-1	x1	x1
Connector B	OF I	4-1437290-1	x1	x1
Connector C		3-1437290-7	0	x1
Sockets	- William	3-1447221-3	x65	x90
Stoppers	000	4-1437284-3	x50	x75
Wire section			0,75 to 1,25 mm ² [0.	00116 to 0.00194 in²]
Insulation diameter	for wire section 0,75 to 1,25 mm² [0.00116 to 0.00194 in²] : 1,6 to 2,4 mm [0.063 to 0.094 in]			
Operating temperature	-40°C to 85°C [-40°F to 185°F]			[-40°F to 185°F]
Ingress Protection	IP67			

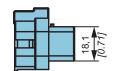
Mounting tools for the connector

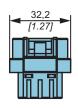
Description		AMP reference
Crimpers	N	1454509-1

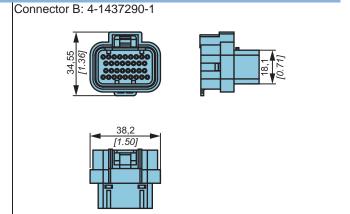
Overall dimensions



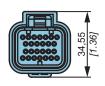


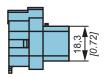






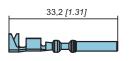
Connector C: 3-1437290-7







Socket:3-1447221-3



Stopper: 4-1437284-3







SMARTDRIVE™ CT COMMUNICATION CONNECTOR





This connector has to be present on the machine to permit SmartDrive $^{\rm TM}$ CT maintenance.

Commercial name	KIT-CONNECT-COM-M-SD-CT	
Part number Poclain Hydraulics	A48693C	
Function	Diagnosis and download the software embedded in the SmartDrive [™] CT controller via CAN bus	
Compatibility	Electronic transmission management with SmartDrive™ CT controller	
Manufacturer	DEUTSCH	

Mariaracturor	DE010011		
Features			Référence
Components		1x Receptacle	HD10-9-1939PE
	٩	1 x Closing cap	HDC9-JDL082397
		1 x Gasket	HD10-9-GKT
		7 x pins	0460-202-1631 (AWG16-20)
	-	4 x Stoppers	114-017
Operating temperature	Fc	or the connector: -55°C to 125	°C [-67°F to 257°F]
Operating temperature	For the gasket: -57°C to 107°C [-70.6°F to 224.6°F]		
Ingress Protection	IP67		
Wire section	0,5 to 1.0 mm ² [0.019 to 0.039 in²] (16, 18, 20 AWG)		
Insulation diameter	1,35 to 3,05 mm [0.053 to 0	0.12 in]	

Mounting tools for the connector

Description		AMP reference
Crimpers	N	HDT-48-00
Extractor		0411-310-1605

Connector mounting

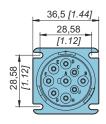
Strip the wires to a length of 5 mm [0.19 in].

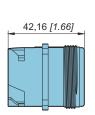
Crimp the wires onto the pins as shown in the table below.

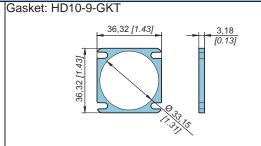
N° pin connector on SmartDrive™ CT controller		Function	N° pin male communication connector
		Ground	A
		VBAT_P	В
CAN 2 vehicle	Connector B pin 10	CAN2 H	С
	Connector B pin 18	CAN2 L	D
-	-	-	E
-	-	-	F
-	-	-	G
CAN 1 diagnosis	Connector B pin 1	CAN 1 H	Н
	Connector B pin 2	CAN 1 L	J

Overall dimensions

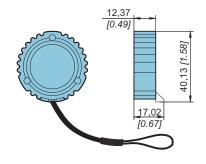
Receptacle: HD10-9-1939PE

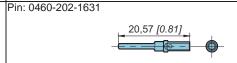




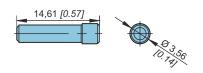


Cap: HDC9-JDL082397

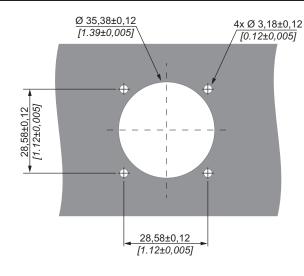




Stopper: 114017



Panel cutout



Maximum panel thickness: 6,35 mm [0.25 in]



CONNECTOR KIT 120ΩKIT

Commercial name	KIT-PLUG-120-DTM-2S	
Part number	A52539H	
Function	120Ω termination resistor for CAN bus	
Compatibility	Electronic transmission management with SmartDrive™ CT controller and Display 4.3C.	

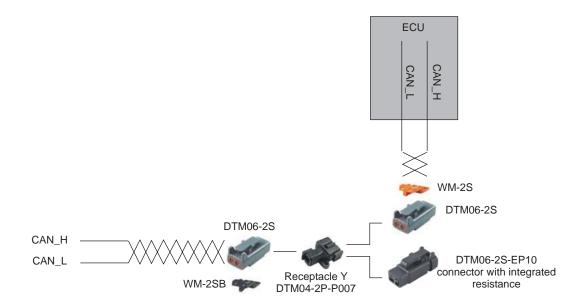
Features			Référence
Components		1 x receptacle	DTM04-2P-P007
	and the same of th	2 x connectors	DMT06-2S
	900	1 x wedgelock	WM-2S
	des	1 x wedgelock	WM-2SB
		1 x connector with integrated resistance	DMT06-2S-EP10
		7 x sockets	0462-201-2031
Operating temperature		-55°C to 125°C [-67°F to 257	°F]
Wire section	0,2 to 0,5 mm ² [0.008 to 0.019 in ²]		
Insulation diameter	1,35 to 3,05 mm [0.053 to	0.12 in]	
Pin material	Gold plated		
Contact size	20		

Mounting tools for the connector

Description		AMP reference
Crimpers	-	HDT-48-00

Connector mounting

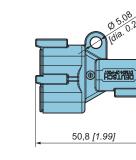
Strip the wires to a length of 5 mm [0.19 in]. Crimp the wires onto the sockets as shown in the diagram below.





37,4 [1.47]

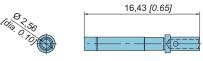
Receptacle Y: DTM04-2P-P007



5,59

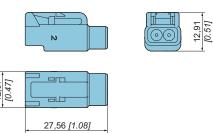
۵ ا

Socket: 0462-201-2031

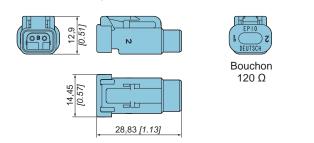




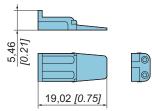
17,56 [0.69]



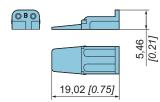
Connector with integrated resistance: DTM06-2S-EP10



Orange wedgelock: WM-2S



Black wedgelock: WM-2SB





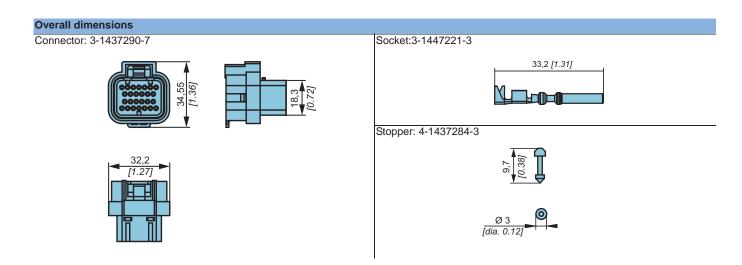
DISPLAY 4.3C MAIN CONNECTOR



Characteristics			Display 4.3C	
Commercial name			KIT-CONNECT-DISPLAY-4.3C	
Poclain Hydraulics part number			A49050Q	
Function			Display 4.3C's Counter-part connectors	
Compatibility			Electronic transmission management with SmartDrive controllers.	
Component		AMP reference		
Connector		3-1437290-7	x1	
Sockets	لمظننت	3-1447221-3	x8	
Stoppers	000	4-1437284-3	x22	
Wire section			0,75 to 1,25 mm² [0.00116 to 0.00194 in²]	
Insulation diameter			for wire section 0,75 to 1,25 mm ² [0.00116 to 0.00194 in ²]: 1,6 to 2,4 mm [0.063 to 0.094 in]	
Operating temperature			-40°C to 85°C [-40°F to 185°F]	
Ingress Protection			IP67	

Mounting tools for the connector

Description		AMP reference
Crimpers	N	1454509-1





3-PIN WEATHER PACK CONNECTOR



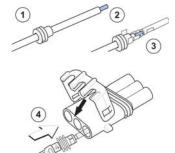
Commercial name	KIT CONNECTEUR CAPT CDE SA
Part number	007142212Z
Compatibility	Floor pedal. Suspended pedal. Swash plate sensor. Rotary potentiometer.

Features			
Manufacturer		Delphi	
	3-way male connector	12015793	
Components	3 female contacts	12089188	
	3 seals	12015323	
Wire section	0.5 to 0.8 mm ²		
Insulation diameter	2 to 2.9 mm		
Operating temperature	-40°C to +125°C [-40°F to +257°F]		
Ingress protection	IP 67		

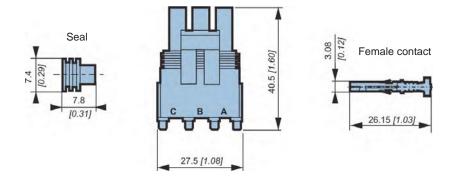
Connector mounting

Locking device position

- 1. Fit a seal on each wire.
- 2. Strip 5 mm [0.19 in] off the wires.
- Crimp the terminals with the 1201 4254 Packard Electric pliers, 3. pinching the seal with the lug.
- 4. Plug the terminal into its compartment. If a terminal is wrongly inserted, use extraction tool Ref 1201 4012 to remove it. Fold down the connector latch.



Layout



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3-PIN METRI PACK CONNECTOR

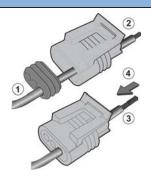


Commercial name	KIT CONNECTEUR CAPT VIRAGE
Part number	007142222K
Compatibility	Floor pedal.
	Rotary potentiometer.

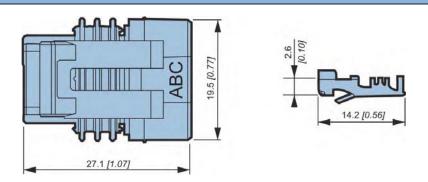
Features			
Manufacturer		Delphi	
Components	3 terminal connector	1216 2182	
	4 terminals	1212 4076	
Wire section	0.35 to 0.60 mm ²		
Insulation diameter	1.30 to 2.20 mm		
Operating temperature	-40°C to +125°C [-40°F to +257°F]		
Ingress protection	IP 67		

Connector mounting

- 1. Pass the wires through the connector.
- 2. Strip 5 mm from the wires.
- 3. Crimp the terminals with special tool 1203 9500.
- 4. Pull the wires towards the connector to fit the terminals into their housing.



Layout





6-PIN METRI PACK CONNECTOR

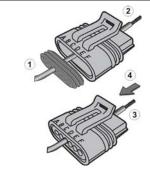


KIT-CONNECT-6-PIN-MP
A38140G
Joystick with Z-gate Rotary potentiometer.

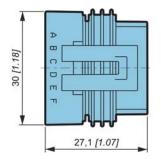
Features			
Manufacturer		Delphi	
	Connector (1x)	1206 6317	
Components	Pin (7x)	1210 3881	
	Stopper (3x)	1206 5266	
Wire section	0,8 to 1,0 mm ²		
Insulation diameter	2,03 to 2.40 mm		
Operating temperature	-40°C to +125°C [-40°F to +257°F]		
Ingress protection	IP 67		

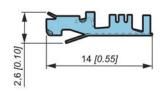
Connector mounting

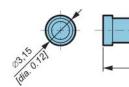
- 1. Pass the wires through the connector.
- 2. Strip 5 mm from the wires.
- 3. Crimp the terminals with special tool 1203 9500.
- 4. Pull the wires towards the connector to fit the terminals into their housing.

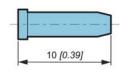


Layout











EN 175301 - 803 STYLE A CONNECTOR



Commercial name	KIT CONNECT CDE SA
Part number	007142211X
Compatibility	Proportional control electro-valve. Electro-valve solenoid control.

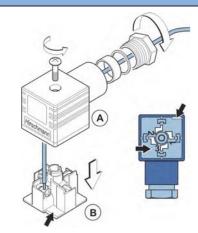
Features	
Manufacturer	Hirschmann
Standard	EN 175301 - 803 style A (DIN43650)
Components	2 connectors GDM 2011 with 2 screws and 2 seals GDM-3-17
Max. currrent	16 A
Max. voltage	250 V (AV)
Wire section	max. 1.5 mm ²
Cable diameter	6 mm [0.24 in] to 9 mm [0.35 in]
Operating temperature	-40°C to +125°C [-40°F to +257°F]
Ingress Protection	IP65

Connector mounting

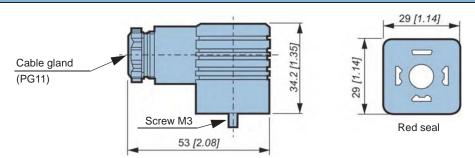
- 1. Unscrew the packing gland and the screw.
- Open the connector with a flat-headed screwdriver inserted in part B of the slot.

Strip the wire over a length of 5 mm [0.19 in]. Pass the wire through the gland, then through the cover A. Plug the wire into B. Wire No.3 has to be earthed.

3. Re-assemble B and A: The "3" mark has to be nearest the gland. Refit the packing gland and the screw.



Layout





EN 175301 - 803 STYLE A CONNECTOR WITH DIODE



Commercial name	CONNECTOR-GDML-DIODE
Part number	A37605A
Compatibility	On/Off control electro-valve.

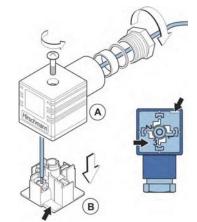
Features	
Manufacturer	Hirschmann
Standard	EN 175301 - 803 style A (DIN43650)
Components	1 connector GDML 2011 LED 24 HH YE with screw + 1 seal GDM 3-7
Max. current	8 A
Max. voltage	24 V DC (use 12 V and 24 V DC)
Wire section	max. 1.5 mm ²
Cable diameter	4.5 to 11 mm
Operating temperature	-40°C to +90°C [-40°F to +194°F]
Ingress Protection	IP65

Connector mounting

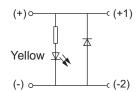
- 1. Unscrew the packing gland and the screw.
- 2. Open the connector with a flat-headed screwdriver inserted in part B of the slot.

Strip the wire over a length of 5 mm [0.19 in]. Pass the wire through the gland, then through the cover A. Plug the wire into B. Wire No.3 has to be earthed.

3. Re-assemble B and A: The "3" mark has to be nearest the gland. Refit the packing gland and the screw.

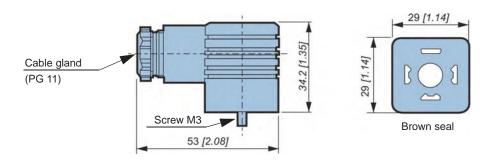


You should respect the polarity as shown in the diagram below.

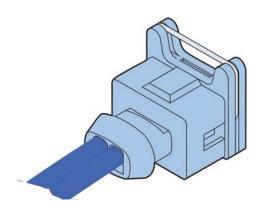




Layout



2-PIN AMP TIMER JUNIOR CONNECTOR

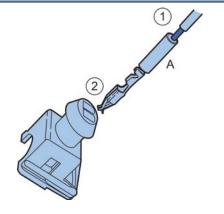


Commercial name	VMA CONNECTOR VALVE KIT
Part number	007142206S
Compatibility	In-line valve. Flanged valve.

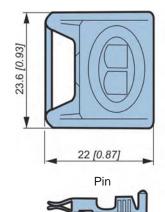
Features			
Manufacturer		AMP	
Components	3 contacts	927 846 - 2	
	Body connector	827 551 - 3	
Wire section	0.5 to 1 mm ²		
Insulation diameter	1.4 to 2.1 mm		

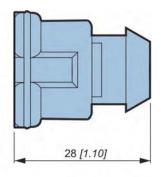
Connector mounting

- 1. Strip 5 mm [0.19 in] of insulation off the cables. Crimp the lugs using an AMP CERTI-LOCK 169400 tool. Protect the connection with heat-shrink tubing (A), or Rislon fixed plastic tubing.
- 2. Refer to your general wiring diagram, inserting each lug into its housing until it clicks into place.



Layout





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2-PIN DEUTSCH CONNECTOR



Commercial name	KIT-CONNECT-2-PIN-DEUTSCH
Part number	A42310P
Compatibility	Electro valve

Features			
Manufacturer		Deutsch	
Components	1x Deutsch connector DT	DTM 06-2S	
	1x Wedgelock	W2S-P012	
	3x socket contact	0462-201-16141	
Wire section	0.5 to 0.1 mm ²		
Cable diameter	2.23 to 3.68 mm		
Operating temperature	-55°C to +125°C [-40°F to +257°F]		
Ingress Protection	IP67		

Mounting tool

Crimp tool: HDT-48-00

Layout

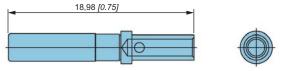
Connector Wedgelock

31,2 [1.23]

15 [0.59]

19,3 [0.76]

Socket contact







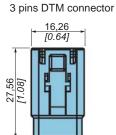
Commercial name	KIT-CONNECT-DTM-3S-NW8.5
Part number	B02468G
Compatibility	Position sensor

Features			
Manufacturer		Deutsch	
Components	1 Deutsch connector DTM	DTM 06-3S	
	1 Backshell 180° NW8.5	1028-005-0305	
	1 Wedgelock	WM-3S	
	4 socket contact size 20	0462-201-20141	
Wire section	0.2 to 0.5 mm ²		
Cable diameter	1.35 to 3.05 mm		
Operating temperature	-55°C to +125°C [-40°F to +257°F]		
Ingress Protection	IP6K9K		

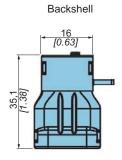
Mounting tool

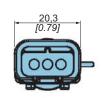
Crimp tool: HDT-48-00

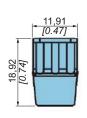
Layout





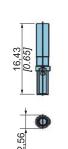






Wedgelock





Socket contact

ahlac



4-PIN DEUTSCH CONNECTOR



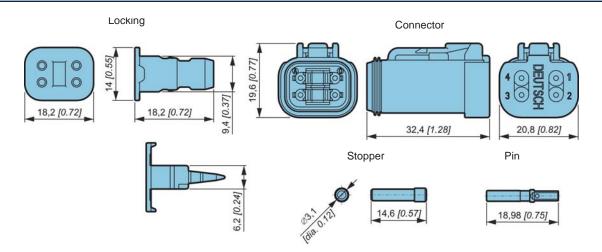
Commercial name	KIT-CONNECT-4-PIN-DEUTSCH
Part number	A39961L
Compatibility	Joystick with Z-gate

Features			
Manufacturer		DEUTSCH	
Components	Connector (1x)	DT06-4S-EP06	
	Pin (5x)	0462-201-16141	
	Stopper (1x)	114017	
	Locking (1x)	W4S-P012	
Wire section	0,5 to 1,0 mm ²		
Insulation diameter	2,23 to 3.68 mm		
Operating temperature	-55°C to +125°C [-67°F to +257°F]		
Ingress protection	IP 67		

Mounting tools

Crimpers HDT-48-00

Layout



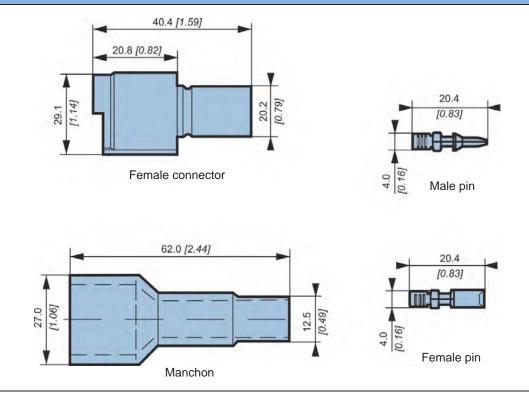
CONNECTOR ACTUATOR



Commercial name	KIT CONNECT ACTIONNEUR
Part number	007142219G
Compatibility	Actuator

Features		
Manufacturer		ITT Cannon
Components	Female connector	120-8551-007
	Manchon	317-8657-000
	3 males pin	330-8672-000
	4 femals pin	031-8703-000
Wire range	0.75 to 1.5 mm ²	
Cable diameter	7.2 to 8.4 mm	
Wire insulation diameter	1.8 to 2.8 mm	

Layout



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4-PIN DIN72585 IP6K9K CONNECTOR



Commercial name	KIT-CONNECT-4-PIN-DIN72585
Part number	В02394В
Compatibility	Pressure sensor IP6K9K Temperature sensor IP6K9K

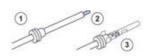
Features			
Manufacturer		Тусо	
	1 DIN connector socket4	1-967325-1	
	1 Cap 90° NW8.5	965577-1	
Components	4 Socket contacts	962981-1	
	4 Single wire seals	828920-1	
	2 Cavity plugs	828922-1	
Wire section	0.5 to 1mm ²		
Insulation diameter	1.2 to 2.1 mm [0.05 to 0.11 in]		
Operating temperature	-40°C to +130°C [-40°F to 257°F]		
Ingress protection	IP6K9K		

Mounting tool

toCrimp tool :AMP 734289-1

Connector mounting

Fit a seal on each wire
 Strip 5 mm [0.19 in] off the wires.
 Crimp the socket contacts with the 734289-1 hand tool pliers in position 2 for wire range 0.5 to 1mm², pinching the seal with the lug.
 Plug the terminal into its compartment. If a terminal is wrongly inserted, use extraction tool AMP Ref. 1-1579007-8 to remove it.



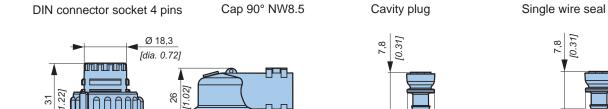


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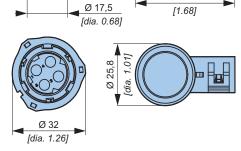
Ø 5,9

[dia. 0.23]

Layout



42,9





Ø 5,9 [dia. 0.23]



