

Connectors



Connectors



CAN Connectors **98**



HD30 Breakaway **102**



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Connectors



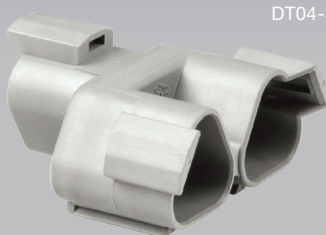
DTM04-2P-P007



DT04-3P-P006



HD10-9-1939PE



DT04-3P-P007

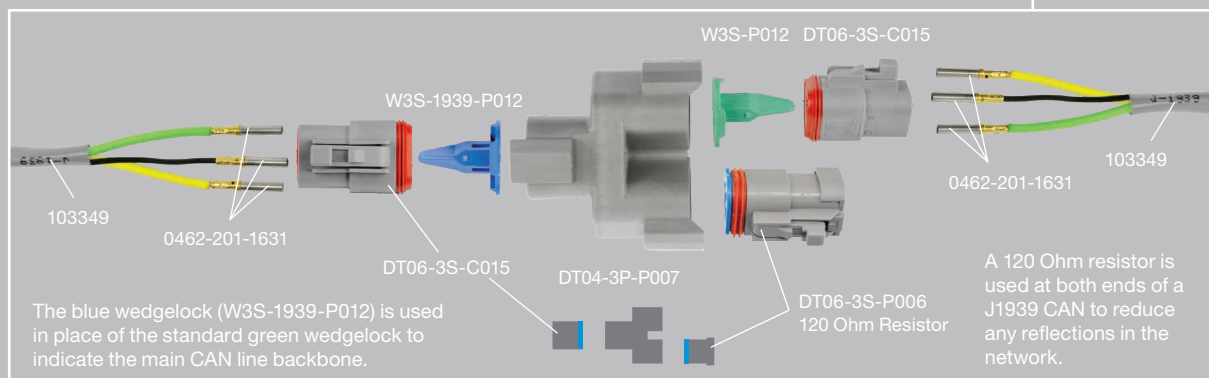
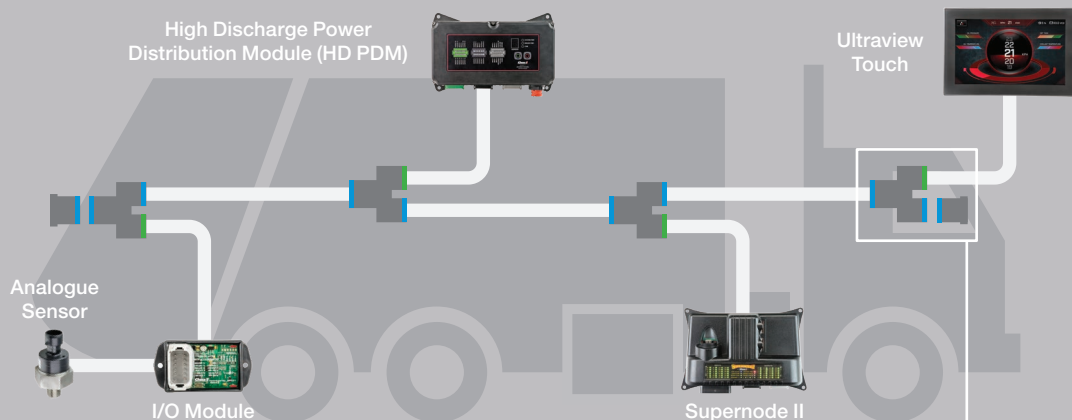


- Genuine TE DEUTSCH connectors.
- Environmentally sealed – IP68, IP6K9K, when installed to manufacturer's specifications.
- Multiple housing options available.
- Latched mating.
- Wedgelocks ensure contact alignment and retention.

Housing :	Thermoplastic
Seal :	Silicone Rubber
Wedglock :	Thermoplastic
Vibration :	20G rms 10 – 2000Hz
Approvals :	20mm Flame Test per Standard UL-94
Ingress Protection :	IP68, IP6K9K
Operating Temperature :	-55°C to 125°C

Controller Area Networks (CAN)

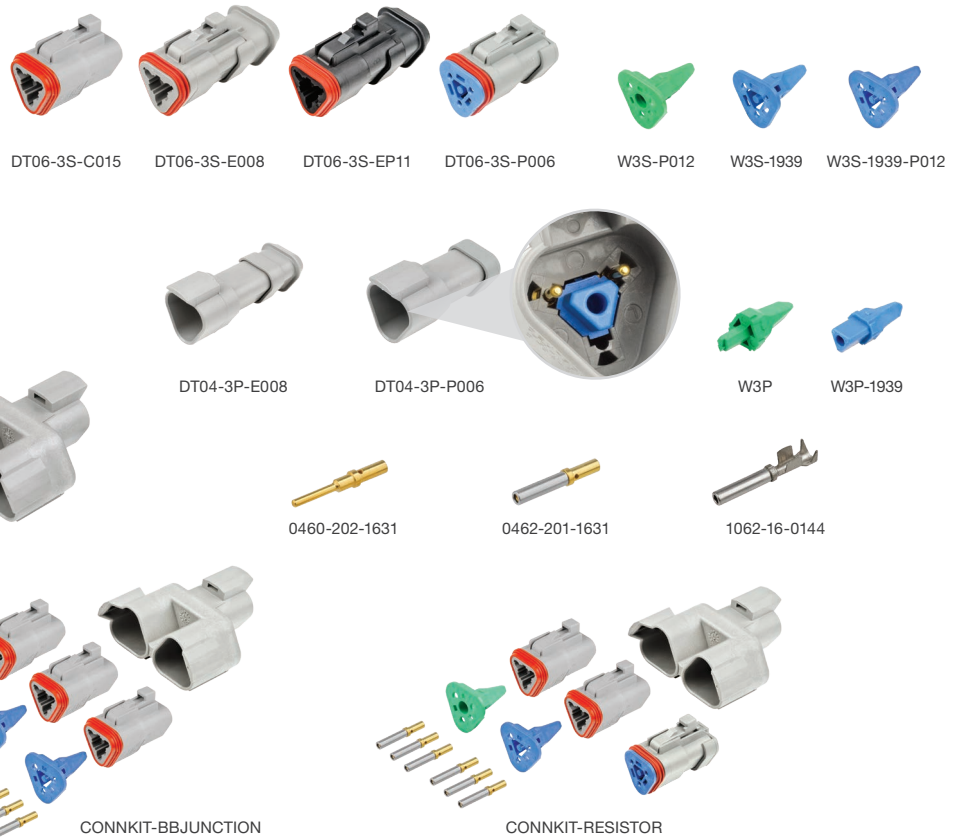
Controller Area Networks, or CAN are multiplexed control systems. Multiplexing allows multiple data signals to travel on the same wires, integrating separate electronic systems and applications to a single point of control and monitoring system.



J1939/11

J1939/11 is a 3-wire system that uses the TE DEUTSCH DT series connectors primarily for truck and bus. The DT series accepts size 16 contacts.

Connector options include in-line, bulkhead, Y splitter, and terminating resistors.



CAN Connectors – J1939/11 – Common Components

Part No.	Description	Cavities/Circuits
DT06-3S-C015	DT Series – Plug – Reduced diameter seal (E Seal)	3
DT06-3S-E008	DT Series – Plug – Heat shrink adaptor	3
DT06-3S-EP11	DT Series – Plug – Heat shrink adaptor – Black. Requires W3S-P012	3
DT06-3S-P006	DT Series – Plug – 120 Ohm Resistor. Includes wedgelock & contacts	3
W3S-P012	DT Series – Wedgelock – Plug – Green – Enhanced seal retention	3
W3S-1939	DT Series – Wedgelock – Plug – Blue	3
W3S-1939-P012	DT Series – Wedgelock – Plug – Blue – Enhanced seal retention	3
DT04-3P-E008	DT Series – Receptacle – Heat shrink adaptor	3
DT04-3P-P006	DT Series – Receptacle – 120 Ohm Resistor. Includes wedgelock & contacts	3
W3P	DT Series – Wedgelock – Receptacle – Green	3
W3P-1939	DT Series – Wedgelock – Receptacle – Blue	3
DT04-3P-P007	DT Series – Receptacle Y Piece. Includes wedgelocks & contacts	3
0460-202-1631	Contact – Pin – Solid – Gold-plated – Size 16	
0462-201-1631	Contact – Socket – Solid – Gold-plated – Size 16	
1062-16-0144	Contact – Socket – F-Crimp – Gold-plated – Size 16	
CONNKIT-BBJUNCTION	Connector Kit – CAN Splice. Used for splitting CAN Backbone	
Kit contents:		
1 x Receptacle – DT Series Y Piece (DT04-3P-P007)	9 x Contact – Socket – Gold-Plated (0462-201-1631)	2 x Wedgelock – Blue (W3S-1939-P012)
3 x Plug – DT Series – 3 Circuit (DT06-3S-C015)		1 x Wedgelock – Green (W3S-P012)
CONNKIT-RESISTOR	Connector Kit – CAN Splice with Resistor. Used for terminated CAN Backbone	
Kit contents:		
1 x Receptacle – DT Series Y Piece (DT04-3P-P007)	1 x DT Series 120 Ohm Resistor (DT06-3S-P006)	1 x Wedgelock – Blue (W3S-1939-P012)
2 x Plug – DT Series – 3 Circuit (DT06-3S-C015)	6 x Contact – Socket – Gold-Plated (0462-201-1631)	1 x Wedgelock – Green (W3S-P012)

Connectors

J1939/13

J1939/13 is a system that uses the TE DEUTSCH HD10 series connectors for on-board diagnostics.
The HD10 series accepts size 16 contacts.



HD10-9-1939PE



HD16-9-1939SE



0460-202-1631



0462-201-1631



1062-16-0144

CAN Connectors – J1939/13 – Common Components

Part No.	Description	Cavities
HD10-9-1939PE	HD10 Series – Receptacle. Threaded rear – Black	9
HD16-9-1939SE	HD10 Series – Plug. Threaded rear – Black	9
0460-202-1631	Contact – Pin – Solid – Gold-plated – Size 16	
0462-201-1631	Contact – Socket – Solid – Gold-plated – Size 16	
1062-16-0144	Contact – Socket – F-Crimp – Gold-plated – Size 16	

J1939/15

SAE J1939/15 defines the requirements for reduced physical layer 2-wire CAN systems consisting of an unshielded twisted pair of wires.



CAN Connectors – J1939/15 – Common Components

Part No.	Description	Cavities/Circuits
DTM06-2S-EP10	DTM Series – Plug – 120 Ohm Resistor – Black. Includes wedgelock & contacts	2
DTM06-2S-P006	DTM Series – Plug – 120 Ohm Resistor. Includes wedgelock & contacts	2
DTM04-2P-P006	DTM Series – Receptacle – 120 Ohm Resistor. Includes wedgelock & contacts	2
DTM06-2S-E005	DTM Series – Plug – End cap – Black	2
WM-2S	DTM Series – Wedgelock – Plug – Orange	2
WM-2SB	DTM Series – Wedgelock – Plug – Black	2
DTM04-2P-P007	DTM Series – Receptacle Y Piece – Black. Includes wedgelock & contacts	2
0460-202-2031	Contact – Pin – Solid – Gold-plated – Size 20	
0460-010-2031	Contact – Pin – Solid – Gold-plated – Size 20 – Purple Band	
1060-20-0144	Contact – Pin – F-Crimp – Gold-plated – Size 20	
0462-201-2031	Contact – Socket – Solid – Gold-plated – Size 20	
0462-005-2031	Contact – Socket – Solid – Gold-plated – Size 20 – Purple Band	
1062-20-0144	Contact – Socket – F-Crimp – Gold-plated – Size 20	
CONNKIT-BDTM NEW	Connector Kit – CAN Splice. Used for splitting CAN Backbone	
Kit contents:		
1 x Receptacle – DTM Series Y Piece (DTM04-2P-P007)	6 x Contact – Socket – Gold-Plated (0462-201-2031)	
3 x Plug – DTM Series – 3 Circuit (DTM06-2S)	1 x Wedgelock – Orange (WM-2S)	
	2 x Wedgelock – Black (WM-2SB)	
CONNKIT-RDTM NEW	Connector Kit – CAN Splice with Resistor. Used for terminated CAN Backbone	
Kit contents:		
1 x Receptacle – DTM Series Y Piece (DTM04-2P-P007)	1 x Plug – DTM Series 120 Ohm Resistor (DTM06-2S-EP10)	1 x Wedgelock – Orange (WM-2S)
2 x Plug – DTM Series – 3 Circuit (DTM06-2S)	6 x Contact – Socket – Gold-Plated (0462-201-2031)	2 x Wedgelock – Black (WM-2SB)
DTM2-J1939-KIT	DTM Series – 120 Ohm Resistor Kit	
Kit contents:		
1 x Receptacle – DTM Series – 2 Circuit (DTM04-2P)	1 x DTM Series 120 Ohm Resistor (DTM06-2S-P006)	
1 x Wedgelock – Orange (WM-2P)	2 x Contact – Pin – Gold-Plated (0460-202-2031)	
	1 x Mounting Clip (1011-026-0205)	



Connectors

HD30 Breakaway



- Breakaway coupling prevents damage to vehicle wiring or attached implement by safely disconnecting if the operator drives away without prior disconnection.
- Dust cap suits all shell size 24 HD30 and HDP20 series connectors.
- Ideal for use in agricultural equipment as well as the truck, bus, mining and construction industry.
- Environmentally sealed – IP68, IP6K9K, when installed to manufacturer's specifications.
- Resistant to most fluids in industrial applications.



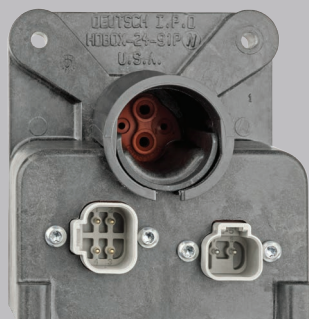
Housing :	HD30 Series	Aluminium
	DT Series	Thermoplastic
Seal :		Silicone Rubber
Shock :		50G
Vibration :		20G rms 10 – 2000Hz
Approvals :	20mm Flame Test per Standard UL-94	
Ingress Protection :		IP68, IP6K9K
Operating Temperature :		-55°C to 125°C

HDBOX-24-91PN – Breakaway CAN Termination Assembly

Originally designed for agricultural applications, the TE DEUTSCH HDBOX-24-91PN Breakaway CAN Termination Assembly creates a communication pathway between an on-board CAN system and the electronic components on an attached implement.

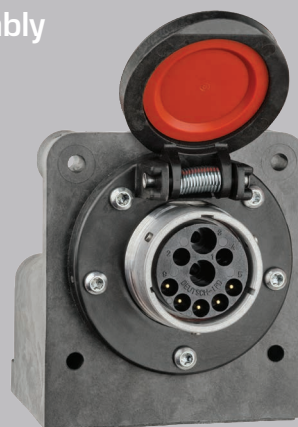
The HDBox, which holds two DT13 connectors and an HD30 Series receptacle, mounts on the vehicle and mates with an HD30 Series plug connector featuring a breakaway coupling ring.

TE DEUTSCH breakaway couplings are designed to prevent damage to the CAN wiring of the vehicle and/or the attached implement by disconnecting and separating from the vehicle in the event of an operator driving away without disconnecting beforehand.



Houses
1 x DT13-2P, 1 x DT13-4P

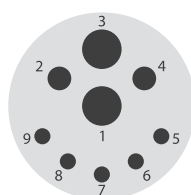
Mates with
DT06-2S-EP06
DT06-4S-EP06



Houses
1 x HD34-24-91PN
Mates with
HDB36-24-91SN



HDBOX-24-91PN



2 x size 8, 2 x size 12,
5 x size 16

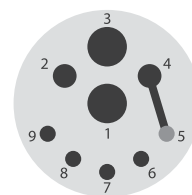


HD34-24-91PN



HD34-24-91PN-059

Receptacles



Circuits 4 & 5 are bridged.
Circuit 5 is occupied with a size 16
contact and sealed with a cavity plug



HDB36-24-91SN



HDB36-24-91SN-059

Plugs



5004-001-2405



DT06-2S-EP06



DT06-4S-EP06



W2S-P012



W4S-P012



0460-204-08141



0460-204-12141



0460-202-1631



0462-203-08141



0462-203-12141



0462-201-1631

HD30 Breakaway

Part No.	Description	Cavities
HDBOX-24-91PN	Breakaway CAN Termination Assembly	15
HD34-24-91PN	HD30 Series – Receptacle	9
HD34-24-91PN-059	HD30 Series – Receptacle. Incorporates strain relief	9
HDB36-24-91SN	HD30 Series – Plug. Breakaway coupling. Circuits 4 & 5 are bridged	9*
HDB36-24-91SN-059	HD30 Series – Plug. Breakaway coupling incorporating strain relief. Circuits 4 & 5 are bridged	9*
* Circuit 5 is occupied with a non-removable size 16 contact and sealed with a cavity plug		
5004-001-2405	Dust cap suits shell size 24 HD34/HDP24 receptacles. Includes gasket	
DT06-4S-EP06	DT Series – Plug – Enhanced Seal Retention and End Cap – Black	4
DT06-2S-EP06	DT Series – Plug – Enhanced Seal Retention and End Cap – Black	2
W2S-P012	DT Series – Wedgelock – Plug – Green	2
W4S-P012	DT Series – Wedgelock – Plug – Green	4
0460-204-08141	Contact – Pin – Solid – Size 8	
0460-204-12141	Contact – Pin – Solid – Size 12	
0460-202-1631	Contact – Pin – Solid – Gold-plated – Size 16	
0462-203-08141	Contact – Socket – Solid – Size 8	
0462-203-12141	Contact – Socket – Solid – Size 12	
0462-201-1631	Contact – Socket – Solid – Gold-plated – Size 16	



Waste Management

IONNIC Technical Systems' (ITS) multiplex systems are well known throughout the heavy vehicle industry for improving reliability, efficiency and safety operations.

With reduced wiring and robust components readily integrated, ITS are able to reduce the complexity of the electrical system and offer the user a comprehensive control solution.

- Switch operation
- Safety interlocking
- Blade Automation
- Diagnostics
- Lighting control



Smart Touch
Panels



HD PDM



PDMs



CAN Strip Light



USM2



Pressure & Temp
Sensors



CC16WP



Ultraview Touch
Series - UV450



Refuse Trucks

Connectors



CONNKIT-3X8



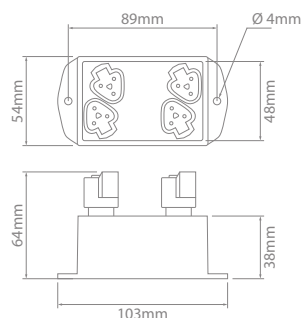
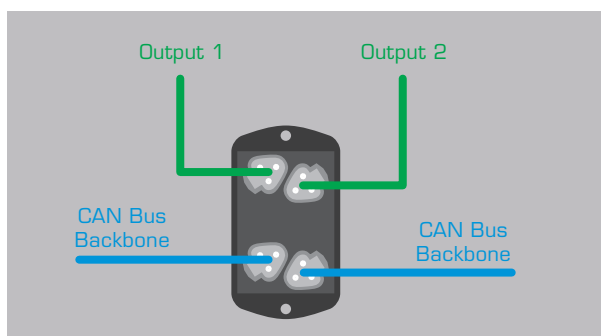
CONNKIT-6

- Designed and manufactured by IONNIC, using genuine TE DEUTSCH components.
- Compact, efficient design.
- Environmentally sealed.
- Epoxy filled ABS housing.
- J1939 models available in kits with mating connectors plus 120 Ohm terminating resistor.
- Made in Australia.



Housing :
Connector :
Operating Temperature :

ABS
Thermoplastic
-40°C to 85°C



CONNKIT-4JUNCTION

Supplied with
TE DEUTSCH 120 Ohm
Terminating Resistor
(DT06-3S-P006)



CONNKIT-4

Bussing Hubs – J1939 – 2 Branch

Part No. **CONNKIT-4JUNCTION**

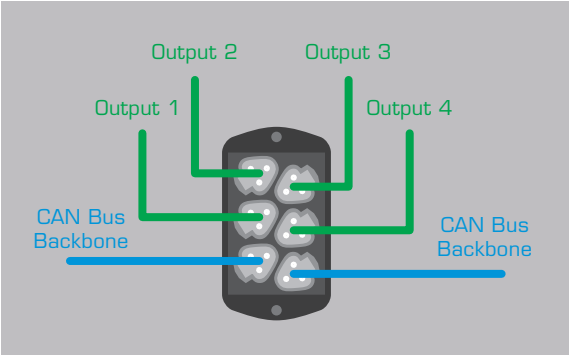
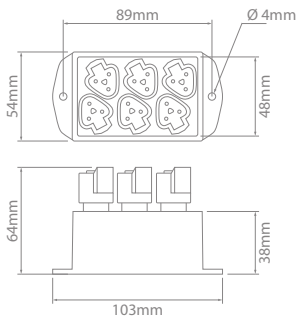
Description **CAN bus hub kit – supplied with mating connectors + 120 Ohm terminating resistor**

Kit Contents:

- 1 x CAN Bus 2 Branch Hub (CONNKIT-4)
- 4 x Plug – DT Series – 3 Circuit (DT06-3S-C015)
- 2 x Wedgelock Green (W3S-P012)
- 2 x Wedgelock Blue (W3S-1939-P012)
- 12 x Contact Gold-Plated (0462-201-1631)
- 1 x 120 Ohm Terminating Resistor (DT06-3S-P006)

CONNKIT-4

CAN bus hub only



CONNKIT-6JUNCTION



CONNKIT-6

Bussing Hubs – J1939 – 4 Branch

Part No.	CONNKIT-6JUNCTION	CONNKIT-6
Description	CAN bus hub kit – supplied with mating connectors + 120 Ohm terminating resistor	CAN bus hub only
Kit Contents:		
1 x CAN Bus 4 Branch Hub (CONNKIT-6)		
6 x Plug – DT Series – 3 Circuit (DT06-3S-C015)		
4 x Wedgelock Green (W3S-P012)		
2 x Wedgelock Blue (W3S-1939-P012)		
18 x Contact Gold-Plated (0462-201-1631)		
1 x 120 Ohm Terminating Resistor (DT06-3S-P006)		



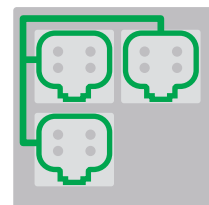
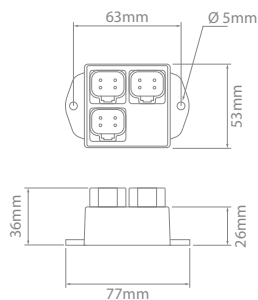
Connectors

NEW



CONNKIT-3X4

3 x TE DEUTSCH
4 circuit receptacles
(DT04-4P)

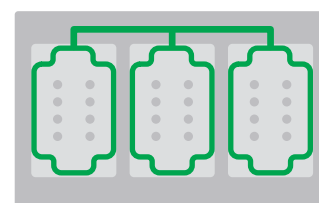
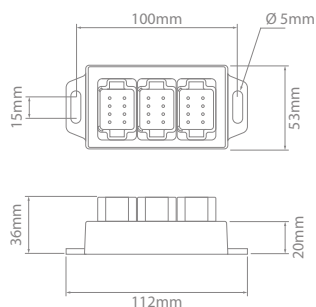


NEW



CONNKIT-3X8

3 x TE DEUTSCH
8 circuit receptacles
(DT04-08PA)

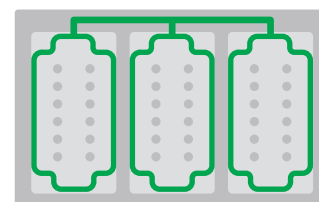
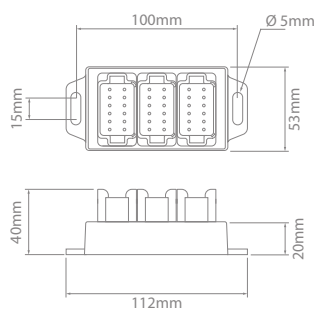


NEW



CONNKIT-3X12

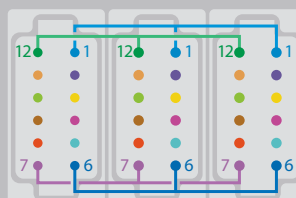
3 x TE DEUTSCH
12 circuit receptacles
(DT04-12PA)



Bussed Circuits

All pins are bussed to their corresponding numbers across each connector housed in the Bussing Hub.

This applies to all three Bussing Hubs.



Bussing Hubs **NEW**

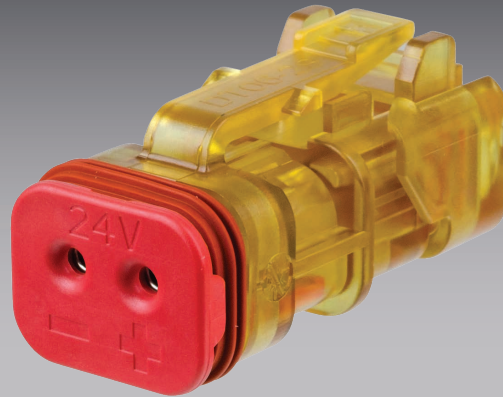
Part No.	Description
CONNKIT-3X4	3 x 4 Bussed circuit
CONNKIT-3X8	3 x 8 Bussed circuit
CONNKIT-3X12	3 x 12 Bussed circuit

Mating Components
3 x DT06-4S, 3 x W4S
3 x DT06-08SA, 3 x W8S
3 x DT06-12SA, 3 x W12S

All pins are bussed to their corresponding numbers.

Current Rating per circuit: 10A

- Transparent housing with integrated LED on wedgelock for quick circuit diagnosis.
- Colour coded wedgelocks for operating voltages, 12V (yellow) and 24V (red).
- Joint retention fingers allow both contacts to be removed at the same time.
- Compatible with Pulse Width Modulated control.
- Sold as kit including nickel-plated or gold-plated contacts.
- Environmentally sealed – IP68, IP6K9K, when installed to manufacturer's specifications.
- Industry proven TE DEUTSCH DT Series.
- Latched mating.



Housing :	Ultem
Seal :	Silicone Rubber
Wedgelock :	Thermoplastic
Contact Size :	16
Contact Rating :	13A @ 125°C
Shock :	50G
Vibration :	20G rms 10 – 2000Hz
Approvals :	20mm Flame Test per Standard UL-94
Ingress Protection :	IP68, IP6K9K
Operating Temperature :	-55°C to 125°C



Half Kits

Half Kits contain all components to make one half of a connection.

Each kit contains 2 x contacts and a DT Detector plug with a DT Detector Wedgelock.



W2S-SDT-24V



W2S-SDT-12V



DT06-2S-SDT-CE27



DTLED-24V-1



DTLED-12V-4



DT Detector Half Kits

Part No.	Voltage	Wedgelock Colour	Socket Type	Wire Size	
				AWG	mm ²
DTLED-12V-1	12	Yellow	0462-209-16141 – Green Band, Nickel-plated	14	1.0 – 2.0
DTLED-24V-1	24	Red	0462-209-16141 – Green Band, Nickel-plated	14	1.0 – 2.0
DTLED-12V-3	12	Yellow	0462-201-16141 – Nickel-plated	20 – 16	0.5 – 1.0
DTLED-24V-3	24	Red	0462-201-16141 – Nickel-plated	20 – 16	0.5 – 1.0
DTLED-12V-4	12	Yellow	0462-209-1631 – Green Band, Gold-plated	14	1.0 – 2.0
DTLED-24V-4	24	Red	0462-209-1631 – Green Band, Gold-plated	14	1.0 – 2.0

Kit Contents:
 1 x DT Detector Plug (DT06-2S-SDT-CE27)
 1 x DT Detector Wedgelock (W2S-SDT-12V or W2S-SDT-24V)
 2 x Solid Socket

