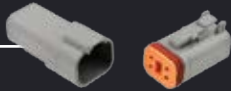


















Connectors



DEUTSCH



4	DT Series	
10	DT Series - Flange Mount	
11	DT Series - Retail Packs	
12	DTM Series	
15	Assortment Kits	
18	DTP Series	
20	DTHD Series	
22	HD10 Series	
24	HD30/HDP20 Series	
28	DRC Series	
32	PCB Headers	
34	Controller Area Network	
38	Contacts & Plugs	
42	Crimping Tools	
44	Removal Tools	
46	Bussed Receptacles	
48	Diodes & Resistors	
49	Caterpillar to Deutsch Cross Reference	
53	Index	



Field Proven Reliability

Deutsch's rugged all-metal bodies and corrosion resistant thermoplastic shells are manufactured from high quality materials selected for their ability to withstand years of environmental exposure.

Deutsch connectors are available in rectangular and cylindrical body shapes and feature :

- Wide operating temperature range.
- Secure locking mechanisms.
- Positive contact retention system.



Deutsch silicone seals and grommets fit tightly around the wire insulation and at the connector interface to provide redundant barriers to contamination.

In order to create a reliable environmental seal and ensure continuity of flow, Deutsch seals:

- Are resistant to most common industrial and engine fluids.
- Retain their flexibility across a wide temperature range.
- Never require potting or dielectric grease.



With integrated seals that are designed to work with multiple wire gauges, Deutsch connectors simplify design and inventory management, and provide exceptional performance in critical environments.

Common Contact System

The Deutsch Industrial Common Contact System is a unique system of interchangeable and intermateable contacts that can be used in many Deutsch Industrial connectors.

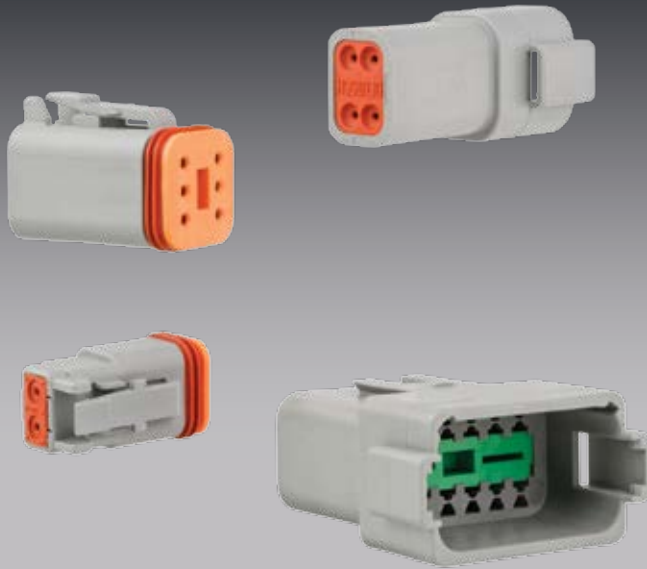
Contacts are available in Solid or Stamped & Formed (F-Crimp) styles, with plating options including gold or nickel.

Easy-to-use indent crimpers create a gas tight crimp that is resistant to oxidation. This high-quality crimp allows Deutsch contacts to provide reliable, low resistance power and data transmission.



Deutsch - DT Series

DT Series



- Industry proven.
- Environmentally sealed.
- 2, 3, 4, 6, 8 and 12 cavity arrangements.
- Multiple housing options available.
- Rectangular, thermoplastic housing.
- Latched mating.
- Wedgelocks assure contact alignment and retention.
- Accepts size 16 contacts, each with 13A continuous capacity.
- Available in 'Grab Kits' in Solid Green Band, Solid - Gold plated, and F-Crimp contact options.
- CAT-Spec kit option.
- Each Grab Kit contains all components required to make both sides of a connection.

Housing :	Thermoplastic
Seal :	Silicon Rubber
Wedgelocks :	Thermoplastic
Contact Size :	16
Contact Rating :	13A @ 125°C
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Operating Temperature :	-55°C to 125°C

Part Numbering System

DT 04 - 08 P A - L012

Series Prefix :

DT Series - **DT**

Connector Style :



Receptacle - **04**



Plug - **06**

Number of Cavities

2
3
4
6
08
12

Contact Type

Pins - **P**
Sockets - **S**

Special Modifications :

- blank* - no modification.
- C015** - Reduced diameter seal (E Seal).
- E005** - Receptacle with protective end cap. Black.
- E008** - Shrink boot adaptor.
- EP06** - Plug with enhanced seal retention and end cap.
- EP08** - Plug with enhanced seal retention and end cap. Black.
- L012** - Flange mount.
- P012** - Enhanced seal retention.

Keying Options :

- blank* - no keying
- A** - Grey housing
- B** - Black housing
- C** - Green housing
- D** - Brown housing

Keying Option is only available with 08 and 12 cavity housings.

Deutsch - DT Series

DT0X-2X



2 x size 16

DT0X-3X



3 x size 16

DT0X-4X



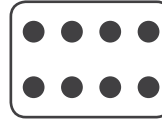
4 x size 16

DT0X-6X



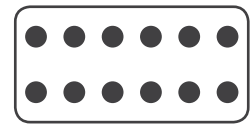
6 x size 16

DT0X-08XX



8 x size 16
A, B, C, D

DT0X-12XX



12 x size 16
A, B, C, D

DT Series - Popular Components

Circuits	Receptacle Components			Circuits	Plug Components		
	Housing	Wedge	Size 16 Pin - Nickel AWG16-20 / 0.5-1.0mm ²		Housing	Wedge	Size 16 Socket - Nickel AWG16-20 / 0.5-1.0mm ²
2	DT04-2P	W2P	0460-202-16141	2	DT06-2S	W2S	0462-201-16141
3	DT04-3P	W3P	Green Band 0460-215-16141 AWG14 / 1.0-2.0mm ²	3	DT06-3S	W3S	Green Band 0462-209-16141 AWG14 / 1.0-2.0mm ²
4	DT04-4P	W4P		4	DT06-4S	W4S	
6	DT04-6P	W6P	114017 Sealing Blank	6	DT06-6S	W6S	114017 Sealing Blank
8	DT04-08PA	W8P		8	DT06-08SA	W8S	
12	DT04-12-PA	W12P		12	DT06-12SA	W12S	

For details on contacts & more options see page 39.

Special Modifications



DT04-6P-E005



DT06-08SA-EPO6



DT06-12SA-EPO8

E005, EPO6 & EPO8

E005 - Receptacle with protective end cap. Black.

EPO6 - Plug with enhanced seal retention (using PO12 wedgelock) and end cap.
2, 3, 4 & 6 cavity - Black. 8 & 12 cavity - Grey.

EPO8 - Plug with enhanced seal retention (using PO12 wedgelock) and end cap. Black. 8 & 12 cavity only.

The 3 modified DT series connector housings with suffix E005, EPO6 & EPO8 are typically referred to as 'CAT-Spec', short for CATERPILLAR Specification.

These modified DT series connector housings are used on most Caterpillar mining machinery as an OEM standard connector.

At a glance, they are black, include improved seal retention on the plug (DT06 side, by using the PO12 wedge lock), and a cap on the rear of the housing to retain the connectors rear wire seal.

Note, the 8 and 12 cavity versions of EPO6 are exempt from this classification as these are grey.

CO15

The CO15 modification offers a reduced diameter insert cavity allowing for a proper seal with smaller wire insulation.

DT04-4P-CO15



E008

Adapted to securely accept shrink tubing.

DT04-2P-E008



L012

Flange Mount.
Not available with 6 cavity connectors.

DT04-2P-L012



PO12

The PO12 plugs provide enhanced front seal retention providing an ultra tight environmental seal.



Deutsch - DT Series



Size 16 Green Band Contacts

Size 16 solid contacts are available to suit 2 wire sizes. Contacts with the green band marking accept the larger wire size of AWG14 / 1.0 - 2.0mm².

0460-215-16141 0462-209-16141

DT Series - 'Grab Kits'

Connector Type	Contacts		No. of Cavities					
	Type	Size	2	3	4	6	8	12
Standard	F-Crimp	16	DT2	DT3	DT4	DT6	DT8	DT12
Standard	Solid - Green Band	16	DT2-1	DT3-1	DT4-1	DT6-1	DT8-1	DT12-1
Standard	Solid	16	DT2-3	DT3-3	DT4-3	DT6-3	DT8-3	DT12-3
CAT-Spec	Solid - Green Band	16	DT2-1-CAT	DT3-1-CAT	DT4-1-CAT	DT6-1-CAT	DT8-1-CAT	DT12-1-CAT
CAT-Spec	Solid - Gold Plated	16	DT2-4-CAT	DT3-4-CAT	DT4-4-CAT	DT6-4-CAT	DT8-4-CAT	DT12-4-CAT

- Contents:
- Receptacle & wedge
 - Plug & wedge
 - Contacts - Pin
 - Contacts - Socket



DT Series - Wedgelocks

Cavities	Receptacles						Plugs					
	2	3	4	6	8	12	2	3	4	6	8	12
Standard	W2P	W3P	W4P	W6P	W8P	W12P	W2S	W3S	W4S	W6S	W8S	W12S
Enhanced Seal							W2S-PO12	W3S-PO12	W4S-PO12	W6S-PO12	W8S-PO12	W12S-PO12
"A" Keyed	W2PA						W2SA					

Deutsch - DT Series



DT Series - Special - Flange Mount Receptacle

Part No.	Description	Wire Length	Mating Plug
DT2-PM	2 pin flange mount receptacle with soldered wires and rubber sealing gasket	40mm	DT06-2S



DT Series - Mounting Clips

Part No.	Suits	Mounting Direction	Colour / Material	Mounting Hole Ø (mm)
1011-026-0205	All except 8 cavity	Straight	Grey plastic	5
1011-027-0805	8 cavity connectors only	Straight	Grey plastic	5
1027-001-0800	8 cavity connectors only	Straight	Stainless steel	11
1027-003-1200	All except 8 cavity	Straight	Stainless steel	11
1027-005-1200	All except 8 cavity	Straight	Stainless steel	13
1027-008-1200	All except 8 cavity	Side	Zinc plated steel	11



DT Series - Accessories - Insulators/Boots

Cavities	2	3	4	6	8	12
Receptacles - 120mm	DTB2P	DTB3P	DTB4P	DTB6P	DTB8P	DTB12P
Plugs - 120mm	DTB2S	DTB3S	DTB4S	DTB6S	DTB8S	DTB12S
Receptacles - 65mm	NEW DT2P-BT	DT3P-BT	DT4P-BT	DT6P-BT	DT8P-BT	DT12P-BT
Plugs - 65mm	NEW DT2S-BT	DT3S-BT	DT4S-BT	DT6S-BT	DT8S-BT	DT12S-BT
Receptacles - 65mm - Black	NEW	DT3P-BT-BK				

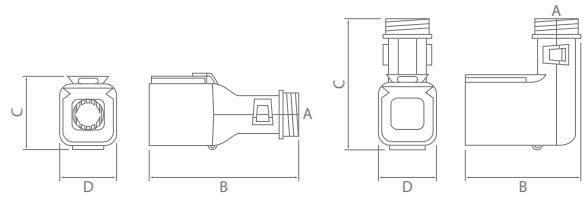


Deutsch - DT Series

1011-257-0205



1011-250-1205



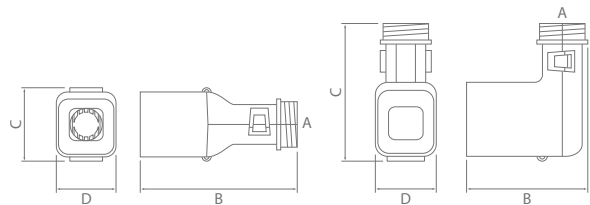
Backshells - DT Series - Receptacles

Straight	90°	Suits (cavity)	A (NW)	A (NC)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
1011-257-0205	1011-258-0205	2	7.5, 8.5, 10	8, 10, 12	55	20	45	18	19
1011-261-0305	1011-262-0305	3	7.5, 8.5, 10	8, 10, 12	65	27	56	25	23
1011-265-0405	1011-266-0405	4	7.5, 8.5, 10	8, 10, 12	59	24	53	22	22
1011-269-0605	1011-270-0605	6	8.5, 10, 13	10, 12, 16	65	28	55	26	22
1011-245-0805	1011-246-0805	8	8.5, 10, 13	10, 12, 16	62	30	57	27	28
1011-249-1205	1011-250-1205	12	12, 13, 17	14, 16, 20	64	29	59	29	36

1011-247-1205



1011-260-0305



Backshells - DT Series - Plugs

Straight	90°	Suits (cavity)	A (NW)	A (NC)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
1011-255-0205	1011-256-0205	2	7.5, 8.5, 10	8, 10, 12	42	37	32	37	19
1011-259-0305	1011-260-0305	3	7.5, 8.5, 10	8, 10, 12	46	48	37	48	23
1011-263-0405	1011-264-0405	4	7.5, 8.5, 10	8, 10, 12	44	45	35	44	22
1011-267-0605	1011-268-0605	6	8.5, 10, 13	10, 12, 16	45	50	39	50	22
1011-243-0805	1011-244-0805	8	8.5, 10, 13	10, 12, 16	49	51	41	50	28
1011-247-1205	1011-248-1205	12	12, 13, 17	14, 16, 20	55	51	45	51	36

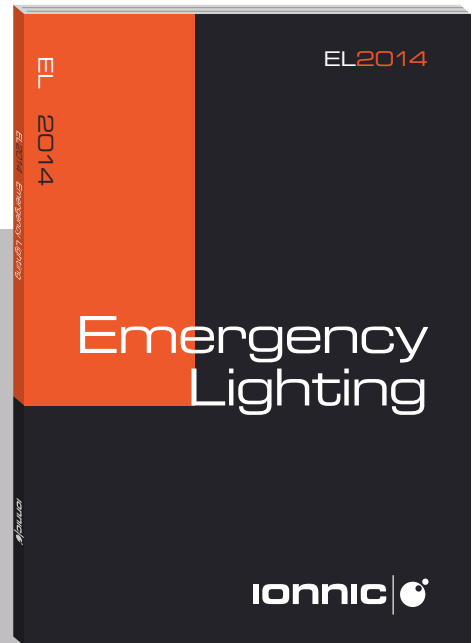
Catalogues

Lighting



- LED Beacons
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- Lightbars
- Minebars
- ROPS Bar
- Directional Arrows
- LED Lighting
- Bus Warning Light Kits
- Flasher Units

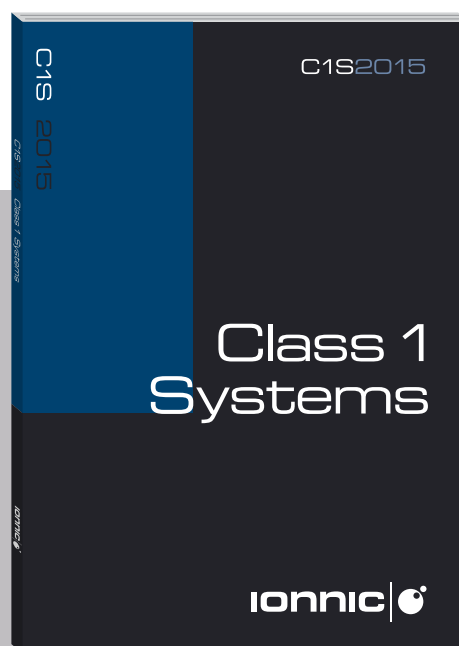
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Deutsch - DT Series

Flange Mount



DT04-2P-LO12

- Flanged Deutsch DT Series now available in 2 cavity arrangement.
- Industry proven.
- Environmentally sealed.
- Rectangular, thermoplastic housing.
- Latched mating.
- Accepts size 16 contacts, each with 13A continuous capacity.

Housing :	Thermoplastic
Seal :	Silicon Rubber
Wedgelocks :	Thermoplastic
Contact Size :	16
Contact Rating :	13A @ 125°C
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Operating Temperature :	-55°C to 125°C



Exclusive from IONNIC

Genuine Deutsch DT Series manufactured in the USA.
2 Circuit Flange Mount (LO12) available exclusively from IONNIC.

DT04-2P-LO12



DT04-2P-LO12



DT04-3P-LO12



DT04-4P-LO12



DT04-08PA-LO12



DT04-12PA-LO12

NEW DT Series - Flange Mount (LO12)

	2	3	4	6	8	12
	DT04-2P-LO12	DT04-3P-LO12	DT04-4P-LO12	NA	DT04-08PA-LO12	DT04-12PA-LO12

- Each pack contains all components required to make both sides of a connection.
- Instructions included.
- Thermoplastic housing.
- Industry proven.
- Environmentally sealed.
- Solid green band contact.
- Wedgelocks assure contact alignment and retention.

Housing : Thermoplastic
Seal : Silicon Rubber
Wedgelocks : Thermoplastic
Contact : Copper Alloy
Contact Finish : Nickel
Contact Wire Size : 1.0mm² - 2.0mm²
Contact Rating : 13A @ 125°C
Shock : 50G
Vibration : 20G rms 10 - 2000Hz
Operating Temperature : -55°C to 125°C



All You Need To Know

Clear and simple instructions for basic contact crimping and insertion on the back of every pack.



Contents	
D460-215-16141	Contact (Pin) x 4
D462-209-16141	Contact (Socket) x 4
DT04-4P	Plug x 1
DT06-4S	Receptacle x 1
W4P	Wedgelock (Plug) x 1
W4S	Wedgelock (Receptacle) x 1



DT Series - Retail Packs

Connector Type	Contacts		No. of Cavities					
	Type	Size	2	3	4	6	8	12
Standard	Solid - Green Band	16	DT2-1B	DT3-1B	DT4-1B	DT6-1B	DT8-1B	DT12-1B

- Contents:
- Receptacle & wedge
 - Plug & wedge
 - Contacts - Pin
 - Contacts - Socket



Deutsch - DTM Series

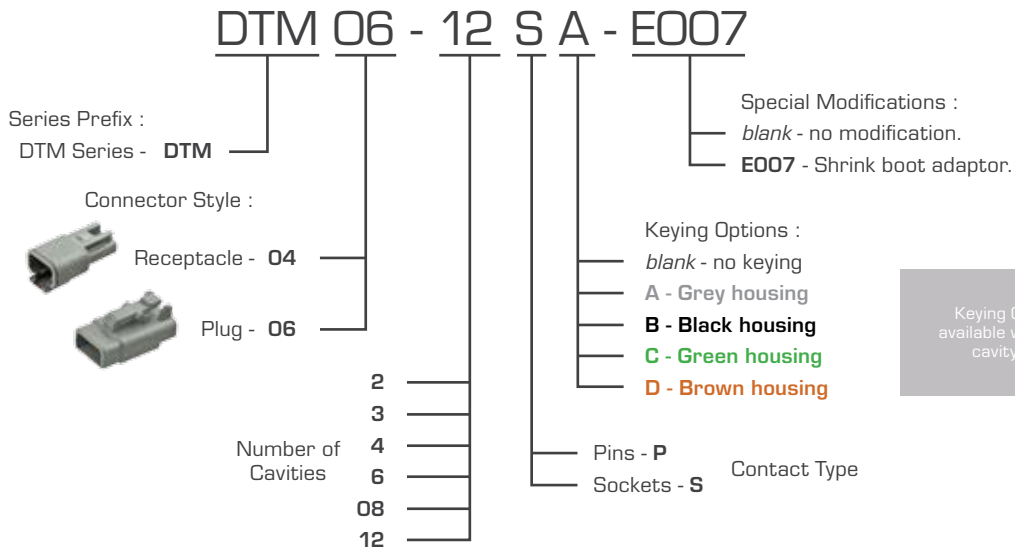
DTM Series



- Industry proven.
- Environmentally sealed.
- 2, 3, 4, 6, 8 and 12 cavity arrangements.
- Rectangular, thermoplastic design.
- Latched mating.
- Wedgelocks assure contact alignment and retention.
- Accepts size 20 contacts, each with 7.5A continuous capacity.
- Available in 'Grab Kits' in Solid, and Solid - Gold plated contact options.
- Each Grab Kit contains all components required to make both sides of a connection.

Housing :	Thermoplastic
Seal :	Silicon Rubber
Wedgelocks :	Thermoplastic
Contact Size :	20
Contact Rating :	7.5A @ 125°C
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Operating Temperature :	-55°C to 125°C

Part Numbering System



Keying Option is only available with 08 and 12 cavity housings.

Special Modifications

E007

Adapted to securely accept shrink tubing.

DTM04-2P-E007



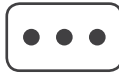
Deutsch - DTM Series

DTMOX-2X



2 x size 20

DTMOX-3X



3 x size 20

DTMOX-4X



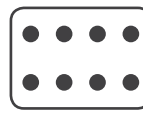
4 x size 20

DTMOX-6X



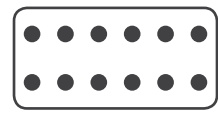
6 x size 20

DTMOX-08XX



8 x size 20
A, B, C, D

DTMOX-12XX



12 x size 20
A, B, C, D

DTM Series - Popular Components

Circuits	Receptacle Components			Plug Components		
	Housing	Wedge	Size 20 Pin - Nickel AWG20 / 0.2-0.5mm ²	Housing	Wedge	Size 20 Socket - Nickel AWG20 / 0.2-0.5mm ²
2	DTMO4-2P	WM2P	0460-202-20141	DTMO6-2S	WM2S	0462-201-20141
3	DTMO4-3P	WM3P		DTMO6-3S	WM3S	
4	DTMO4-4P	WM4P		DTMO6-4S	WM4S	
6	DTMO4-6P	WM6P		DTMO6-6S	WM6S	
8	DTMO4-08PA	WM8P	0413-204-2005 Sealing Blank	DTMO6-08SA	WM8S	0413-204-2005 Sealing Blank
12	DTMO4-12-PA	WM12P		DTMO6-12SA	WM12S	

For details on contacts & more options see page 39.



DTM4-1



DTM Series - 'Grab Kits'

Contact Type	Size	No. of Cavities					
		2	3	4	6	8	12
Solid	20	DTM2-1	DTM3-1	DTM4-1	DTM6-1	DTM8-1	DTM12-1
Solid - Gold Plated	20	DTM2	DTM3	DTM4	DTM6	DTM8	DTM12

Contents:

- Receptacle & wedge
- Plug & wedge
- Contacts - Pin
- Contacts - Socket



Deutsch - DTM Series



WM2SB



WM8S



WM6S



WM12S

DTM Series - Wedgelocks

Cavity	Receptacles						Plugs					
	2	3	4	6	8	12	2	3	4	6	8	12
Standard	WM2P	WM3P	WM4P	WM6P	WM8P	WM12P	WM2S	WM3S	WM4S	WM6S	WM8S	WM12S
"B" Keyed	WM2PB						WM2SB					



DTM3S-BT



NEW DTM Series - Accessories - Insulators/Boots

Cavities	2	3	4	6	8	12
Receptacles	DTM2P-BT	DTM3P-BT	DTM4P-BT	DTM6P-BT	DTM8P-BT	DTM12P-BT
Plugs	DTM2S-BT	DTM3S-BT	DTM4S-BT	DTM6S-BT	DTM8S-BT	DTM12S-BT



1011-026-0205



1011-027-0805



1027-005-1200



1027-008-1200

DTM Series - Mounting Clips

Part No.	Suits	Mounting Direction	Colour / Material	Mounting Hole Ø (mm)
1011-026-0205	All except 8 cavity	Straight	Grey plastic	5
1011-027-0805	8 cavity connectors only	Straight	Grey plastic	5
1027-001-0800	8 cavity connectors only	Straight	Stainless steel	11
1027-003-1200	All except 8 cavity	Straight	Stainless steel	11
1027-005-1200	All except 8 cavity	Straight	Stainless steel	13
1027-008-1200	All except 8 cavity	Side	Zinc plated steel	11

Deutsch - Assortment Kits

- Convenient on site service kits containing assortments of DT and DT Series Cat spec connectors and contacts.
- DTKIT-2 includes crimp tool and multi-use removal tool.
- Solid and Stamped & Formed (F-Crimp) contact kits available.
- Contents clearly illustrated.



DTKIT-1

Housing :	Thermoplastic
Seal :	Silicon Rubber
Wedgelocks :	Thermoplastic
Contact :	Copper Alloy
Contact Finish :	Nickel
Contact Rating :	13A @ 125°C
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Operating Temperature :	-55°C to 125°C



Assortment Kits - DT Series

Part No.	Description	Contents		
DTKIT	F-Crimp contacts. Standard DT Series connectors.	Receptacle & Wedge : 3 x DT04-2P 3 x DT04-3P 2 x DT04-4P 1 x DT04-6P 1 x DT04-08PA 1 x DT04-12PA	Plug & Wedge : 3 x DT06-2S 3 x DT06-3S 2 x DT06-4S 1 x DT06-6S 1 x DT06-08SA 1 x DT06-12SA	Contacts & Blanks : 12 x 114017 Sealing Blank 40 x 1060-16-0122L F-Crimp Pin 40 x 1062-16-0122L F-Crimp Socket
DTKIT-1	Solid contacts. Standard DT Series connectors.	Receptacle & Wedge : 3 x DT04-2P 3 x DT04-3P 2 x DT04-4P 1 x DT04-6P 1 x DT04-08PA 1 x DT04-12PA	Plug & Wedge : 3 x DT06-2S 3 x DT06-3S 2 x DT06-4S 1 x DT06-6S 1 x DT06-08SA 1 x DT06-12SA	Contacts & Blanks : 12 x 114017 Sealing Blank 40 x 0460-215-16141 Solid Pin - Green Band 40 x 0462-209-16141 Solid Socket - Green Band

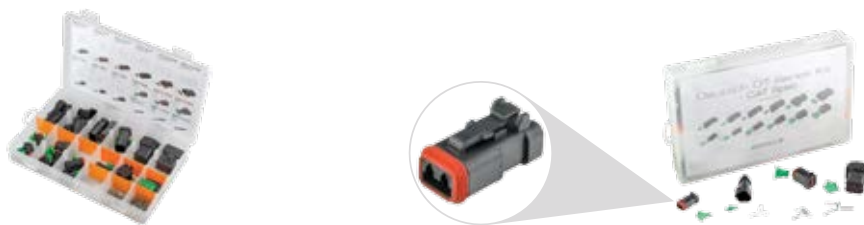


Deutsch - Assortment Kits



Assortment Kits - DT Series including Tools

Part No.	Description	Contents		
DTKIT-2	Solid contacts.	Receptacle & Wedge : 3 x DT04-2P 3 x DT04-3P 2 x DT04-4P 1 x DT04-6P 1 x DT04-08PA 1 x DT04-12PA	Plug & Wedge : 3 x DT06-2S 3 x DT06-3S 2 x DT06-4S 1 x DT06-6S 1 x DT06-08SA 1 x DT06-12SA	Contacts & Blanks : 12 x 114017 Sealing Blank 40 x 0460-215-16141 Solid Pin - Green Band 40 x 0462-209-16141 Solid Socket - Green Band Tools : 1 x DET-RT Removal Tool 1 x DET16 Crimp Tool
	Standard DT Series connectors. Crimp and Multi-Use tool.			



Assortment Kits - DT Series 'CAT-Spec'

Part No.	Description	Contents		
DTKIT-1-CAT	Solid contacts.	Receptacle & Wedge : 3 x DT04-2P-E005 3 x DT04-3P-E005 2 x DT04-4P-E005 1 x DT04-6P-E005 1 x DT04-08PA-E005 1 x DT04-12PA-E005	Plug & Wedge : 3 x DT06-2S-EPO6 3 x DT06-3S-EPO6 2 x DT06-4S-EPO6 1 x DT06-6S-EPO6 1 x DT06-08SA-EPO8 1 x DT06-12SA-EPO8	Contacts & Blanks : 12 x 114017 Sealing Blank 40 x 0460-215-16141 Solid Pin - Green Band 40 x 0462-209-16141 Solid Socket - Green Band
	'CAT-Spec' DT Series Connectors.			

'CAT-Spec'

The 3 modified DT series connector housings with suffix E005, EPO6 & EPO8 are typically referred to as 'CAT-Spec', short for CATERPILLAR Specification.

These modified DT series connector housings are used on most Caterpillar mining machinery as an OEM standard connector.

At a glance, they are black, include improved seal retention on the plug (DT06 side, by using the PO12 wedge lock), and a cap on the rear of the housing to retain the connectors rear wire seal.

Note, the 8 and 12 cavity versions of EPO6 are exempt from this classification as these are grey.

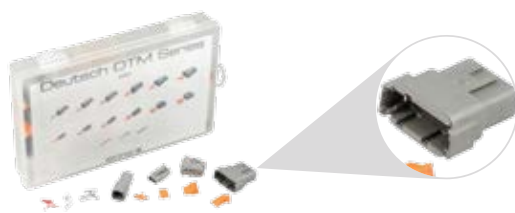


Deutsch - Assortment Kits



Assortment Kits - Backshells for DT Series

Part No.	Style	Contents
DTBS	Straight	Backshells Straight - Receptacles : 8 x 1011-257-0205 - Suits DT04-2P 5 x 1011-261-0305 - Suits DT04-3P 4 x 1011-265-0405 - Suits DT04-4P 3 x 1011-269-0605 - Suits DT04-6P 1 x 1011-245-0805 - Suits DT04-8P 1 x 1011-249-1205 - Suits DT04-12P
		Backshells Straight - Plugs : 8 x 1011-255-0205 - Suits DT06-2S 5 x 1011-259-0305 - Suits DT06-3S 4 x 1011-263-0405 - Suits DT06-4S 3 x 1011-267-0605 - Suits DT06-6S 1 x 1011-243-0805 - Suits DT06-8S 1 x 1011-247-1205 - Suits DT06-12S
DTBS-1	90°	Backshells 90° - Receptacles : 8 x 1011-258-0205 - Suits DT04-2P 6 x 1011-262-0305 - Suits DT04-3P 3 x 1011-266-0405 - Suits DT04-4P 3 x 1011-270-0605 - Suits DT04-6P 1 x 1011-246-0805 - Suits DT04-8P 1 x 1011-250-1205 - Suits DT04-12P
		Backshells 90° - Plugs : 8 x 1011-256-0205 - Suits DT06-2S 6 x 1011-260-0305 - Suits DT06-3S 3 x 1011-264-0405 - Suits DT06-4S 3 x 1011-268-0605 - Suits DT06-6S 1 x 1011-244-0805 - Suits DT06-8S 1 x 1011-248-1205 - Suits DT06-12S



NEW Assortment Kits - DTM Series

Part No.	Description	Contents
DTMKIT-1	Solid contacts. Standard DTM Series connectors.	Receptacle & wedge : 4 x DTM04-2P 4 x DTM04-3P 4 x DTM04-4P 2 x DTM04-6P 2 x DTM04-08PA 2 x DTM04-12PA
		Plug & wedge : 4 x DTM06-2S 4 x DTM06-3S 4 x DTM06-4S 2 x DTM06-6S 2 x DTM06-08SA 2 x DTM06-12SA
		Contacts & Blanks : 20 x 0413-204-2005 Sealing Blank 50 x 0460-202-20141 Solid Pin 50 x 0462-201-20141 Solid Socket



Deutsch - DTP Series

DTP Series

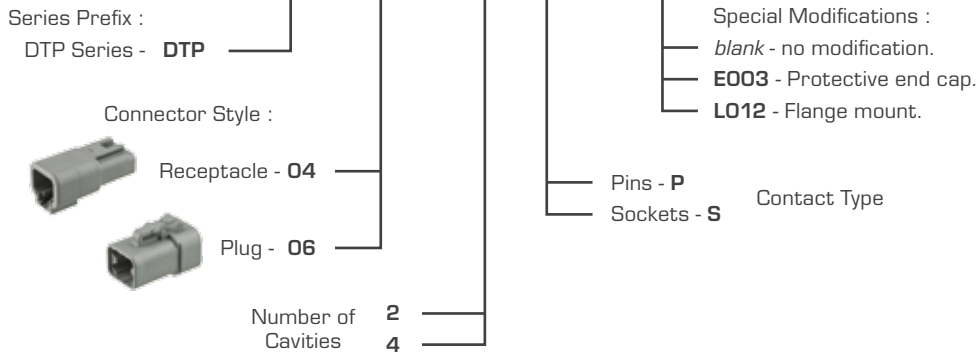


- Industry proven.
- Environmentally sealed.
- Available in 2 and 4 cavity arrangements.
- Rectangular, thermoplastic design.
- Latched mating.
- Wedgelocks assure contact alignment and retention.
- Accepts size 12 contacts, each with 25A continuous capacity.
- Available in 'Grab Kits' in Solid, and Solid - Gold plated contact options.
- Each pack contains all components required to make both sides of a connection.

Housing :	Thermoplastic
Seal :	Silicon Rubber
Wedgelocks :	Thermoplastic
Contact Size :	12
Contact Rating :	25A @ 125°C
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Operating Temperature :	-55°C to 125°C

Part Numbering System

DTP 04 - 02 P - E003



Special Modifications



DTP04-2P-E003



DTP06-4S-E003

DTP04-4P-L012



NEW

E003

The E003 modification offers a protective end cap attached to the rear of the connector.

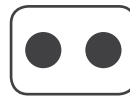
L012

Flange Mount.

Deutsch - DTP Series

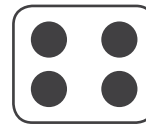
For details on contacts & more options see page 39.

DTP0X-2X



2 x size 12

DTP0X-4X



4 x size 12

DTP Series - Popular Components

Circuits	Housing	Receptacle Components		Housing	Plug Components	
		Wedge	Size 12 Pin - Nickel		Wedge	Size 12 Socket - Nickel
2	DTP04-2P	WP2P	0460-204-12141 AWG12-14 / 2.0-3.0mm ²	DTP06-2S	WP2S	0462-203-12141 AWG12-14 / 2.0-3.0mm ²
4	DTP04-4P	WP4P	114017 Sealing Blank	DTP06-4S	WP4S	114017 Sealing Blank



DTP Series - 'Grab Kits'

Contact Type	Size	No. of Cavities		Contents:
		2	4	
Solid	12	DTP2-1	DTP4-1	<ul style="list-style-type: none"> • Receptacle & wedge • Plug & wedge • Contacts - Pin • Contacts - Socket
Solid - Gold Plated	12	DTP2-4	DTP4-4	



DTP Series - Wedgelocks

Cavity	Receptacles		Plugs	
	2	4	2	4
Part No.	WP2P	WP4P	WP2S	WP4S



DTP Series - Mounting Clips

Part No.	Suits	Mounting Direction	Colour / Material	Mounting Hole Ø (mm)
1011-026-0205	All DTP Series	Straight	Grey plastic	5
1027-003-1200	All DTP Series	Straight	Stainless Steel	11
1027-005-1200	All DTP Series	Straight	Stainless Steel	13
1027-008-1200	All DTP Series	Side	Zinc Plated Steel	11



Deutsch - DTHD Series

DTHD Series

DTHD04-1-4P



DTHD06-1-8S



DTHD04-1-8P



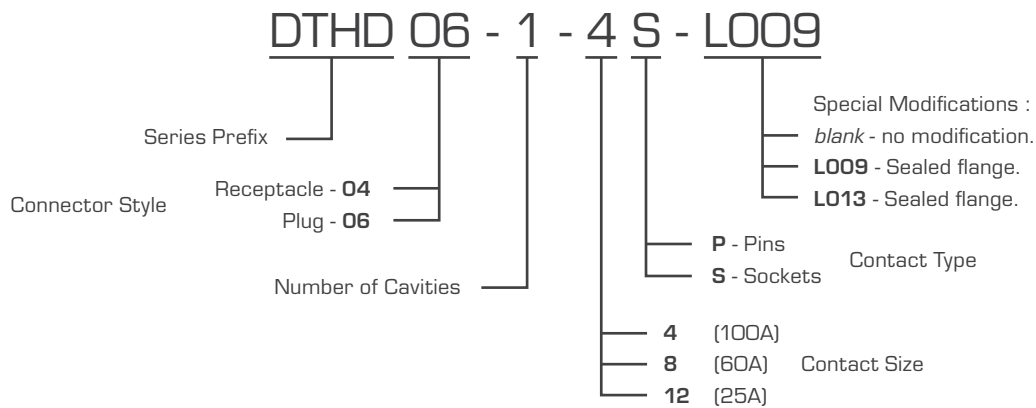
DTHD06-1-12S



- Industry proven.
- Environmentally sealed.
- Circular thermoplastic housing.
- Latched mating.
- Accepts contact sizes 4, 8, 12.
- 6-14 AWG.
- 1 cavity arrangement.

Housing :	Thermoplastic
Seal :	Silicon Rubber
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Operating Temperature :	-55°C to 125°C

Part Numbering System



Special Modifications



NEW

DTHD04-1-4P-L009

L009

Sealed flange. Through panel mount.
DTHD04-1-4P only.



NEW

DTHD04-1-4P-L013

L013

Sealed flange. Surface mount.
DTHD04-1-4P only.

Deutsch - DTHD Series



DTHD Series

Part No.	Contact Size	Style	Rating (A) @ 125°C
DTHD04-1-4P	4	Receptacle	100
DTHD04-1-8P	8	Receptacle	60
DTHD04-1-12P	12	Receptacle	25
DTHD06-1-4S	4	Plug	100
DTHD06-1-8S	8	Plug	60
DTHD06-1-12S	12	Plug	25



DTHD4-1



NEW DTHD Series - 'Grab Kits'

Contact Size		
4	8	12
DTHD4-1	DTHD8-1	DTHD12-1

Contents:
 1 x Receptacle
 1 x Plug
 1 x Contacts - Pin
 1 x Contacts - Socket



1027-003-1200



1027-005-1200



1011-026-0205



DTHD Series - Mounting Clips

Part No.	Mounting Direction	Colour / Material	Mounting Hole (mm)
1027-003-1200	Straight	Stainless steel	11
1027-005-1200	Straight	Stainless steel	13
1011-026-0205	Straight	Grey plastic	5



Deutsch - HD10 Series

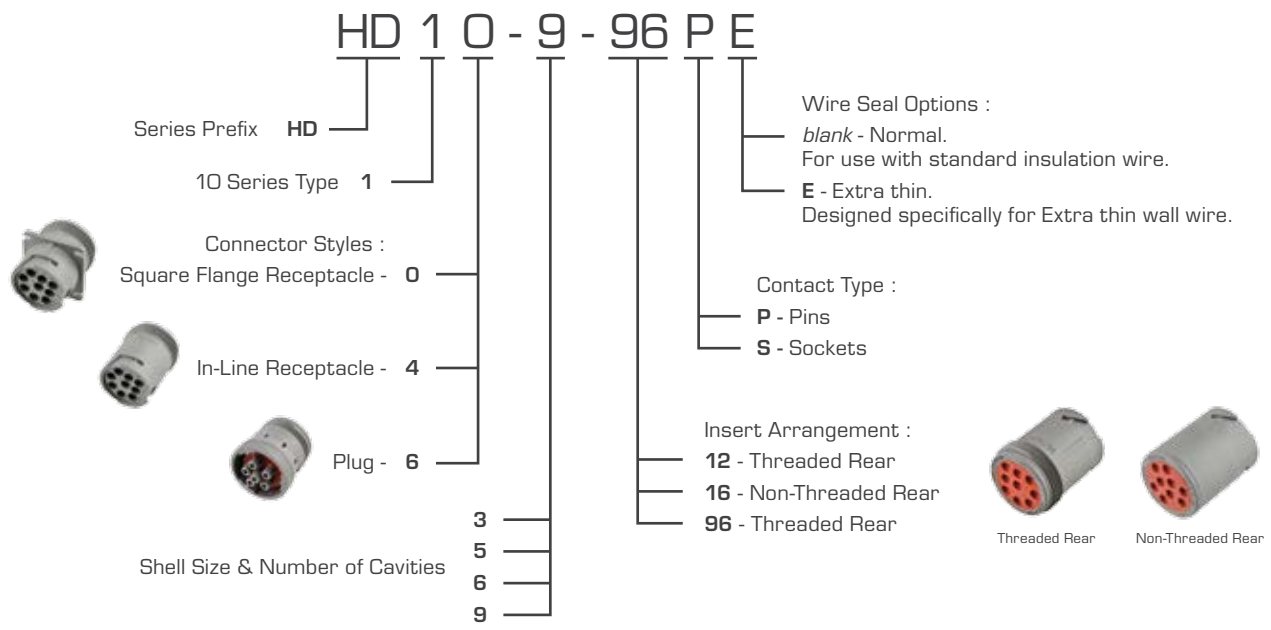
HD10 Series



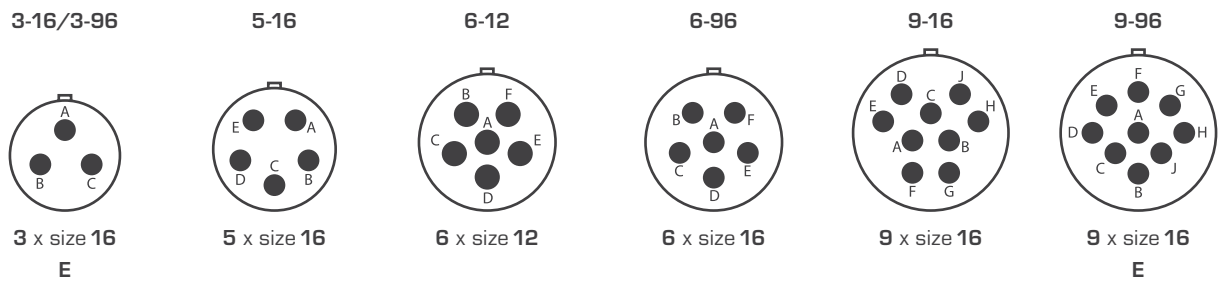
- Industry proven.
- Environmentally sealed.
- Available either in-line or flanged.
- Quick connect/disconnect bayonet coupling.
- Single hole bulkhead mounting.
- Resistant to most fluids.

Housing : Thermoplastic
Seal : Silicon Rubber
Shock : 50G
Vibration : 20G rms 10 - 2000Hz
Operating Temperature : -55°C to 125°C

Part Numbering System



HD10 Series Configurations



For details on contacts & more options see page 39.

Deutsch - HD10 Series

HD16-6-12S-B010
Standard coupling ring.



HD16-6-12S-B010 Special Modification

HD16-6-12S
No coupling ring.
Push-on/pull-off design for use where non-permanent, quick connect/disconnect is required.



HD10-6-12P **HD16-6-12S**

Quick push-on/pull-off.
No twist action required.

The B010 part number suffix **only** applies to HD16-6-12S.



Part No.	Description	Shell Size	Suits
HD18-003	Strain Relief	3	All HD10 Series
HD18-006	Strain Relief	6	All HD10 Series
HD18-009	Strain Relief	9	All HD10 Series
HDC14-3	Protective Cap	3	Plugs
HDC14-6	Protective Cap	6	Plugs
HDC14-9	Protective Cap	9	Plugs
HDC16-3	Protective Cap	3	Receptacles
HDC16-6	Protective Cap	6	Receptacles
HDC16-9	Protective Cap	9	Receptacles
HD10-3BT	NEW Insulators - Grey - 80mm	3	All HD10 Series
HDB30-18	Insulators - Grey - 150mm	6 & 9	All HD10 Series
HD30-18-BT	NEW Insulators - Grey - 80mm	6 & 9	All HD10 Series
HD10-9-GKT	NEW Gasket	9	Flange Receptacles
JDLO82397	NEW Lanyard	9	All HD10 Series & all Protective Caps



Deutsch - HD30/HDP20 Series

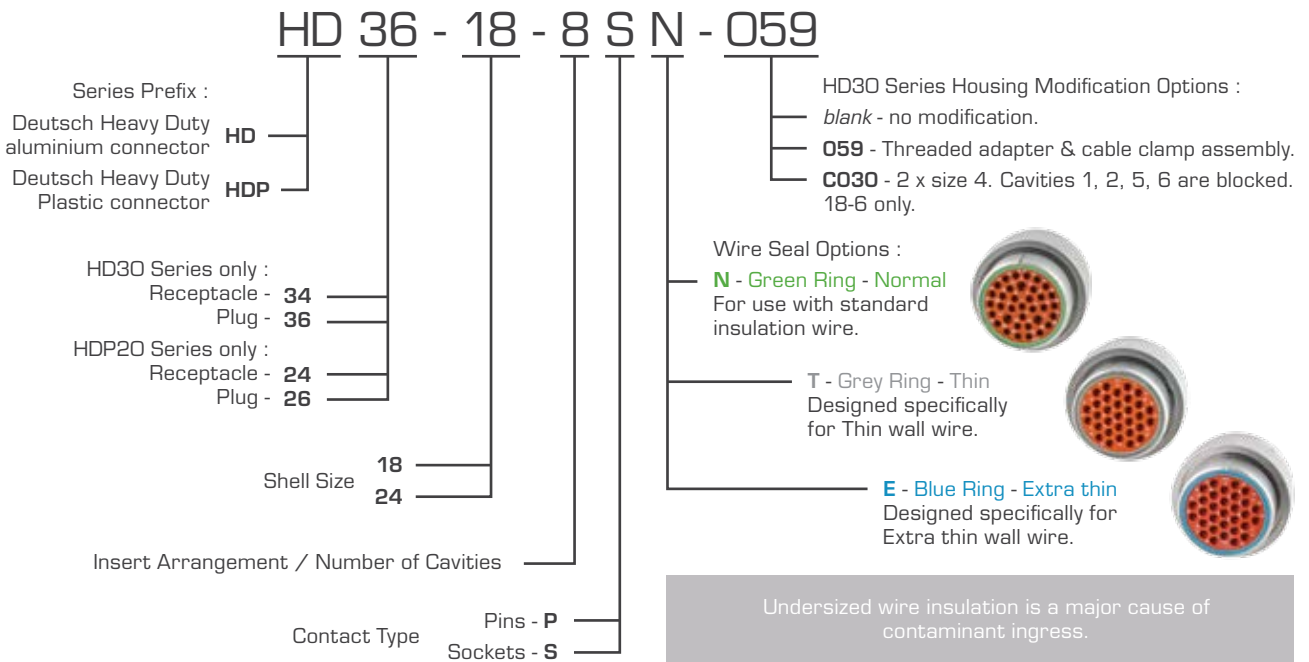
HD30/HDP20 Series



- Industry proven.
- Environmentally sealed.
- Designed specifically for the truck, bus, mining and construction industry.
- Available in metal (HD30) or thermoplastic housings (HDP20).
- Multiple pin configurations that accept contact sizes 4 through 20.
- Quick connect/disconnect bayonet coupling.
- Single hole bulkhead mounting.
- HD30 and HDP20 series are cross compatible.
- Resistant to most fluids.

Housing :	HD30	Aluminium
	HDP20	Thermoplastic
Seal :		Silicon Rubber
Shock :		50G
Vibration :		20G rms 10 - 2000Hz
Operating Temperature :		-55°C to 125°C

Part Numbering System



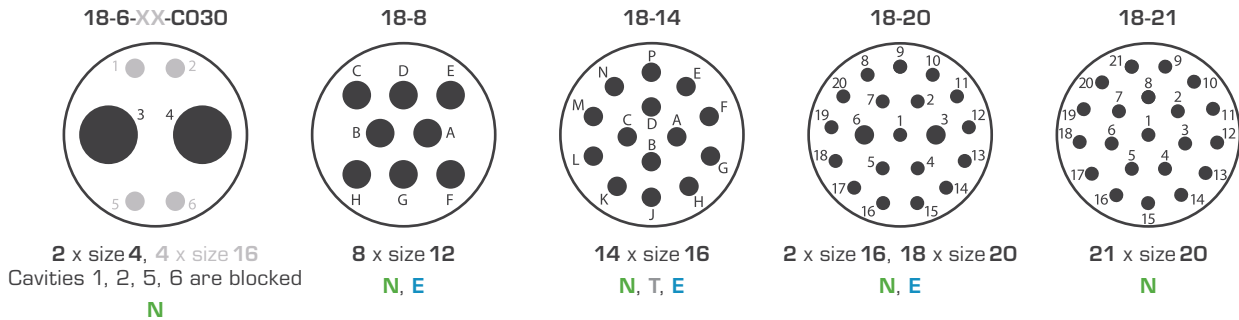
Undersized wire insulation is a major cause of contaminant ingress.

Recommended Wire Insulation O.D.

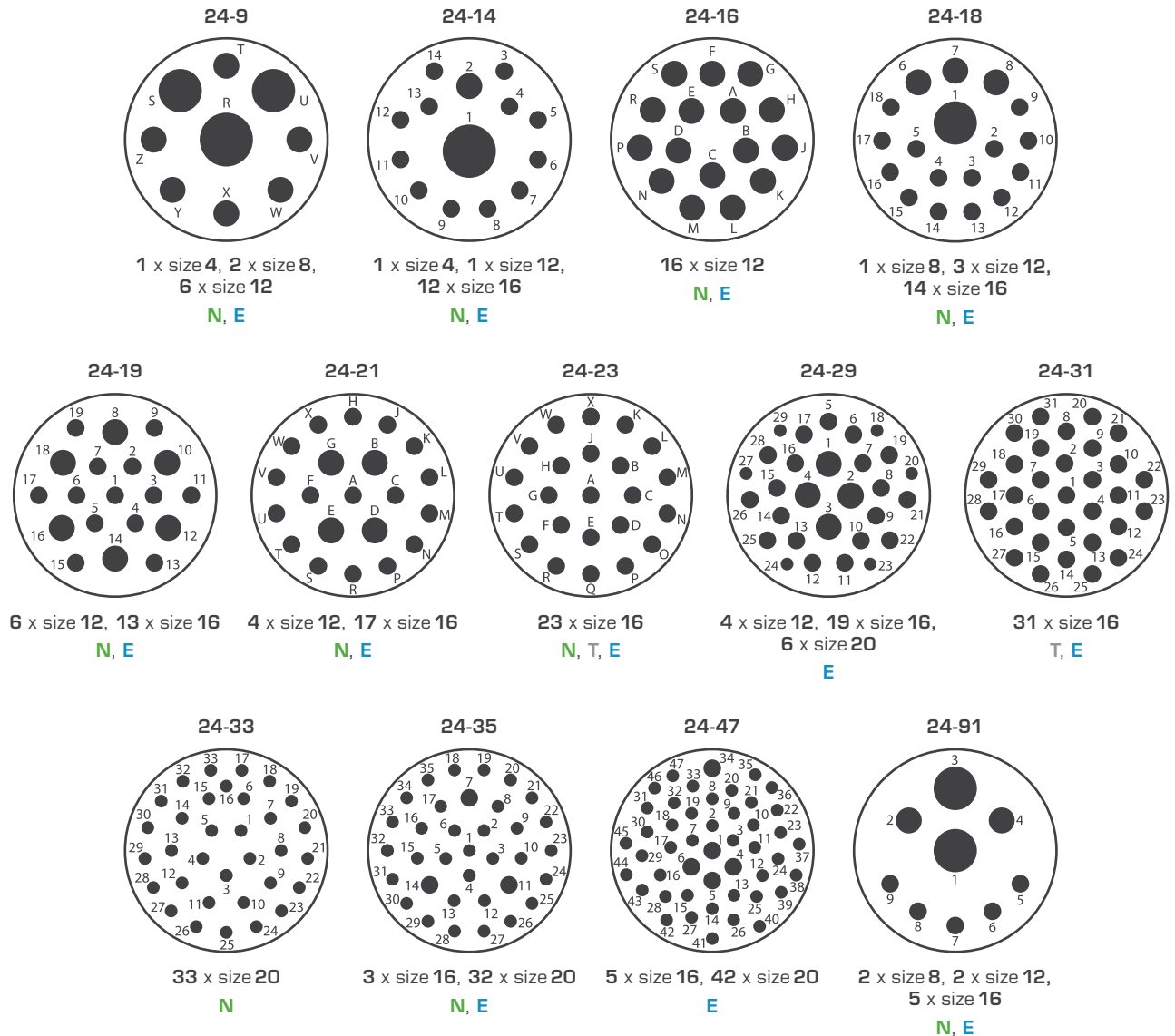
Contact Size	N - Normal Seal - Green Ring		T - Thin Seal - Gray Ring		E - Extra Thin Seal - Blue Ring	
	Inches	mm	Inches	mm	Inches	mm
20	0.040 - 0.095	1.02 - 2.41	0.040 - 0.095	1.02 - 2.41	0.040 - 0.095	1.02 - 2.41
16	0.100 - 0.134	2.54 - 3.40	0.088 - 0.134	2.23 - 3.40	0.053 - 0.120	1.35 - 3.05
12	0.134 - 0.170	3.40 - 4.32	0.113 - 0.170	2.87 - 4.32	0.097 - 0.158	2.46 - 4.01
8	0.190 - 0.240	4.83 - 6.10	0.170 - 0.240	4.32 - 6.10	0.135 - 0.220	3.43 - 5.59
4	0.280 - 0.292	7.11 - 7.42	0.261 - 0.292	6.63 - 7.42	0.261 - 0.292	6.63 - 7.42

Deutsch - HD30/HDP20 Series

18 Shell Size Arrangements



24 Shell Size Arrangements



For details on contacts & more options see page 39.



Deutsch - HD30/HDP20 Series

HD30 Series Housing Modifications

HD34-18-8SN-XXX



Standard - no modification. Example shows

Provides mechanical protection to wire entering connector as well as additional strain relief.

2 x size 4 cavities. 18-6 only. Cavities 1, 2, 5, & 6 are blocked.

blank - no modification

059 - Threaded adapter & cable clamp assembly

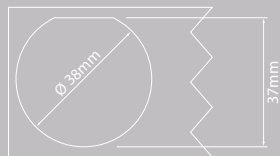
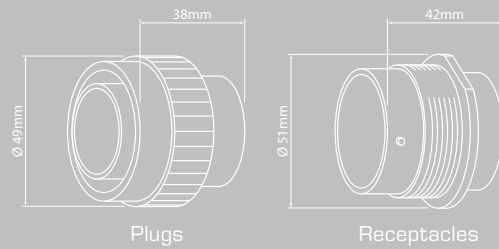
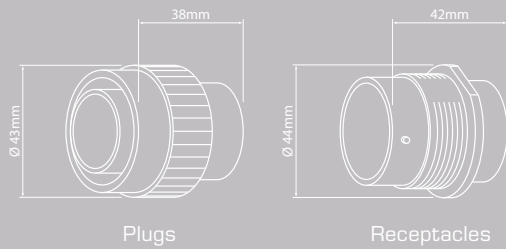
C030 - 18-6 only. 2 x size 4 cavities. 4 x size 16 cavities blocked (1, 2, 5, 6)

HD30/HDP20 Series Dimensions

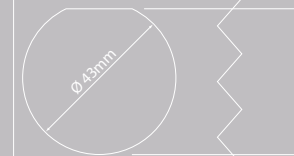
HDXXX-XX-8SN

18 - Shell Size

24 - Shell Size



Receptacle Mounting Hole Size



0409-201-1800

0409-201-2400

WHDS-18-1

WHDS-24-1

WHDS-18-2

WHDS-24-2

WHDS-18-2

HD30 Series - Strain Relief - Backshells

Part No.	Orientation	Shell Size
0409-201-1800	Straight	18
0409-201-2400	Straight	24
WHDS-18-1	Straight	18
WHDS-24-1	Straight	24
WHDS-18-2	90°	18
WHDS-24-2	90°	24

Deutsch - HD30/HDP20 Series



HD30 Series - Accessories

Part No.	Description	Shell Size	Suits	A (mm)	B (mm)
114021	Lockwasher	18	HD30 Series	47.90	1.57
112264	Lockwasher	24	HD30 Series	52.68	1.57
114020-90	Panel Nut	18	HD30 Series	42.80	4.52
112263-90	Panel Nut	24	HD30 Series	47.63	4.52
2414-002-1886	Lockwasher - Wave	18	HDP20 Series	47.90	0.51
2414-001-2486	Lockwasher - Wave	24	HDP20 Series	52.68	0.51
2411-002-1805	Panel Nut - plastic	18	HDP20 Series	42.80	6.35
2411-001-2405	Panel Nut - plastic	24	HDP20 Series	47.63	6.35
HDB30-18	Insulator - Grey - 150mm	18	All HD30/HDP20 Series		
HD30-18-BT	Insulator - Grey - 80mm	18	All HD30/HDP20 Series		
HDB30-24	Insulator - Black - 150mm	24	All HD30/HDP20 Series		
HD30-24BT-BK	Insulator - Black - 80mm	24	All HD30/HDP20 Series		
HD30-24BT-90-BK	Insulator - Black - 80mm - 90°	24	All HD30/HDP20 Series		
HDC34-18	Protective cap	18	HD30/HDP20 Series - Plugs		
HDC34-24	Protective cap	24	HD30/HDP20 Series - Plugs		
HDC36-18	Protective cap	18	HD30/HDP20 Series - Receptacles		
HDC36-24	Protective cap	24	HD30/HDP20 Series - Receptacles		
16-04978	Gasket - neoprene	18	HD30/HDP20 Series - Receptacles		
16-04477	Gasket - neoprene	24	HD30/HDP20 Series - Receptacles		



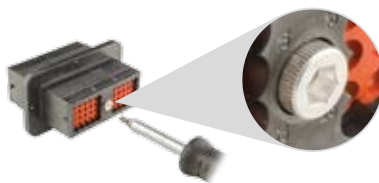
Deutsch - DRC Series

DRC Series



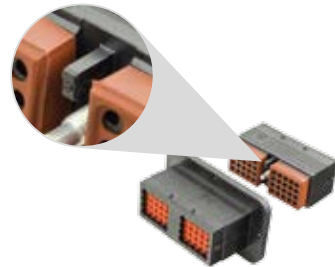
- Industry proven.
- Environmentally sealed.
- Accepts size 12, 16 and 20 contacts.
- Several mounting options are available including In-Line, Flange, Standard and Moulded in Contact Receptacles.
- Optional accessories include Backshells, Insulators and Gaskets.
- Mates using key fastened jackscrew.
- Keyed versions for miss-mate prevention.

Receptacle Threaded Inserts :	Steel/Brass
Housing :	Thermoplastic
Seal :	Silicon Rubber
Insert Retainer :	Thermoplastic
Jackscrew :	Steel
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Operating Temperature :	-55°C to 125°C

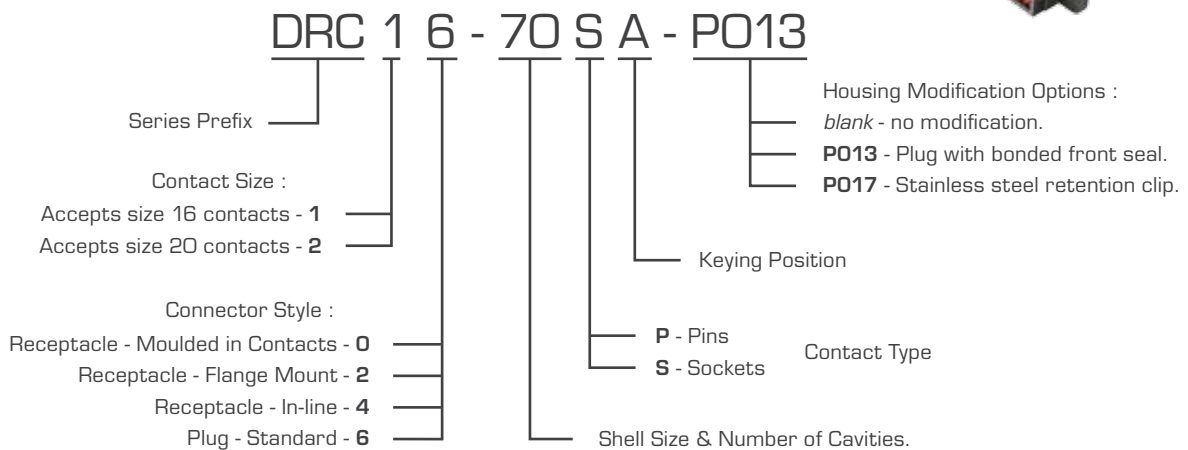


Mates using key fastened jackscrew

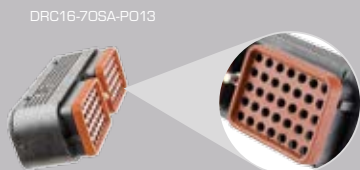
Key provides positive alignment & correct mating



Part Numbering System



Special Modifications



P013
Plug with bonded front seal, silicone adhesive.

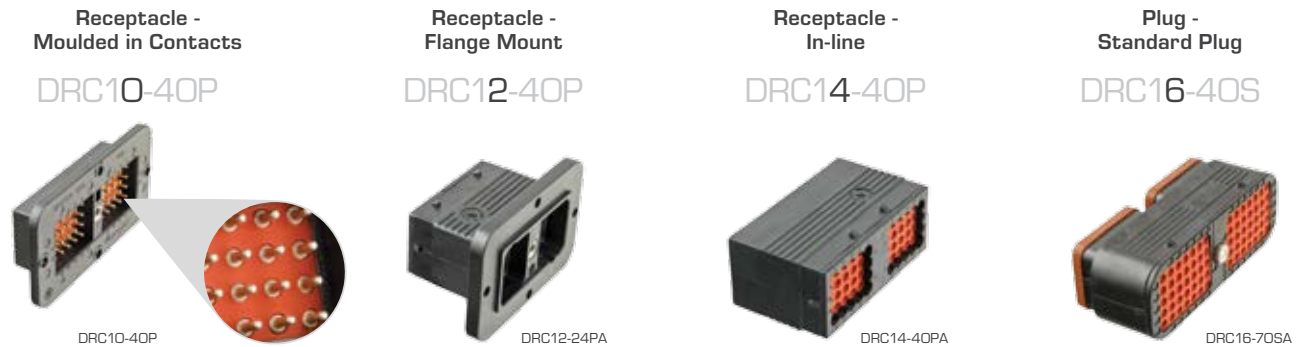


P017
Stainless steel retention clip for jackscrew.

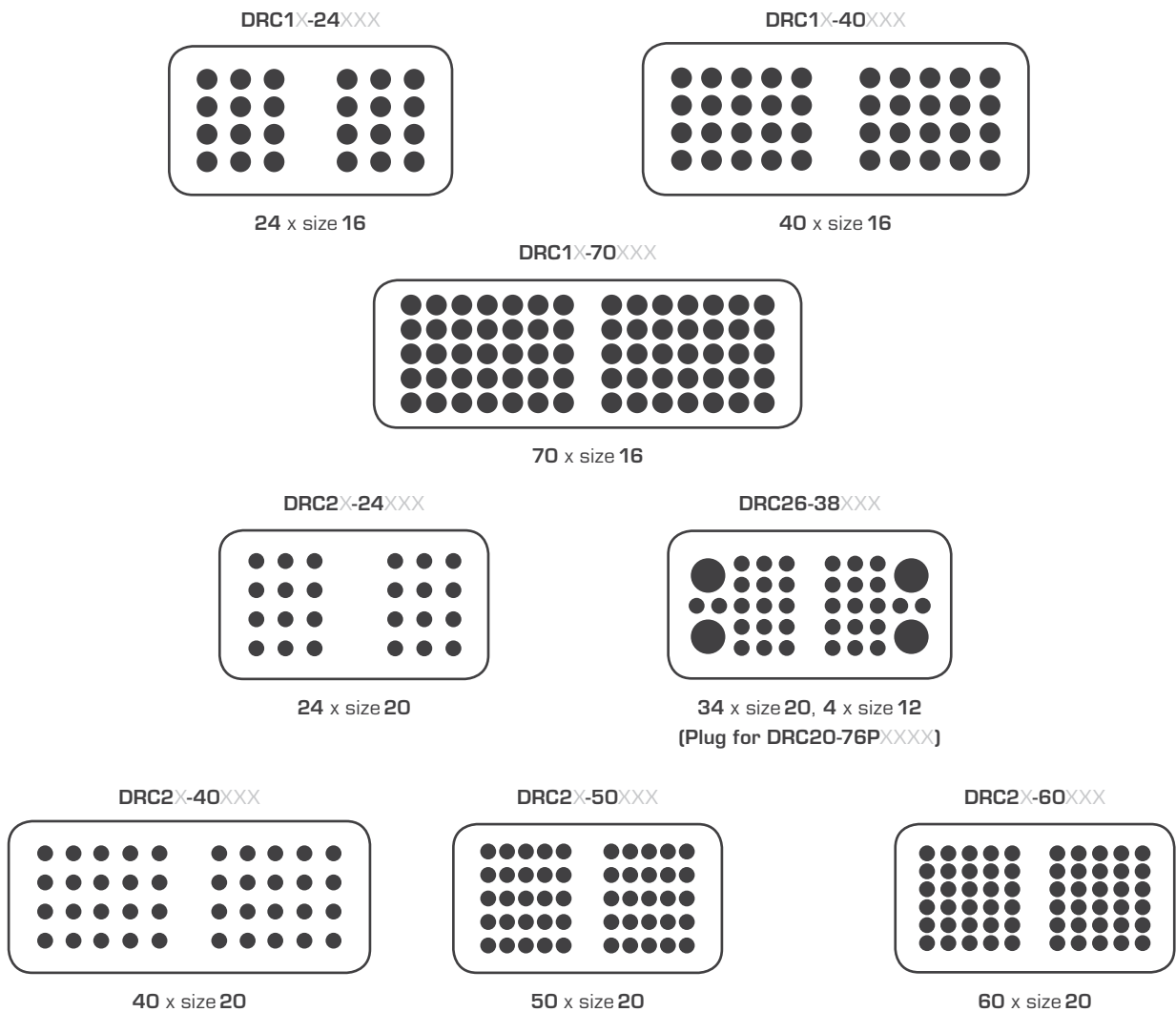


DRC22-40PA
The DRC22-40PA is an inside mount flange, as opposed to the usual outside mount flange eg DRC12-40PA.

DRC Series Connector Styles



DRC Series Configurations



For details on contacts & more options see page 39.



Deutsch - DRC Series



DRC Series - Insulators

Part No.	Shell Size	Length	Material
DRC24-BT	24	130	Plastisol
DRCB24	24	190	PVC
DRC40-BT	40	130	Plastisol
DRCB40	40	215	PVC
DRC70-BT	70	130	Plastisol
DRCB70	70	215	PVC

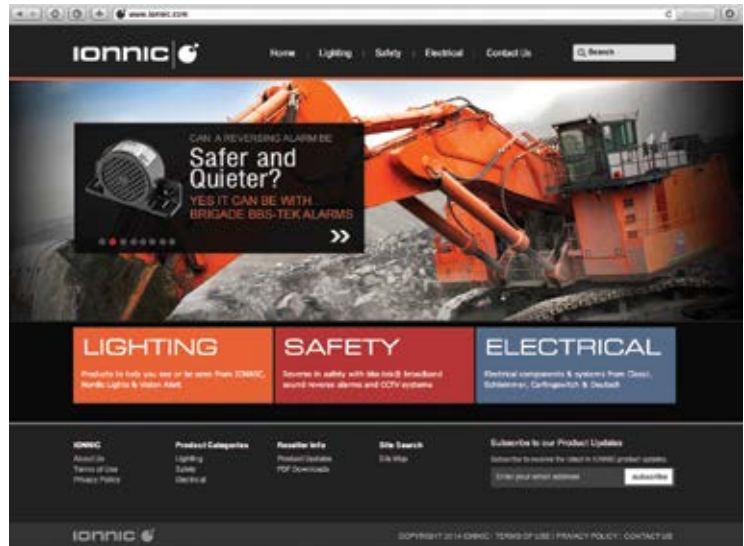


DRC Series - Gaskets

Part No.	Shell Size
DRC24-GKT	24
DRC40-GKT	40
DRC70-GKT	70

Internet Internet

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- Download catalogues or technical information.



ionnic.com



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Deutsch - PCB Headers

PCB Headers



DT13-4P



DRC10-40P



DTM13-12PA-12PB-RO08

- Reliable and easy to use 'terminate to Printed Circuit Board' connectors.
- Industry proven.
- Rectangular, thermoplastic design.
- Latches to mating connector.
- Available in the DT, DTM and DRC ranges.
- Wide range of pin counts from 4 to 40.
- Molded-in contacts - no need for potting or epoxy sealants.

Housing :	Thermoplastic
Seal :	Silicon Rubber
Contact Size :	DT & DRC Series 16
	DTM Series 20
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Operating Temperature :	-55°C to 125°C



DT13-4P



DT15-4P



DT15-6P



DT15-08PA



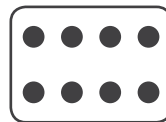
DT15-12PA



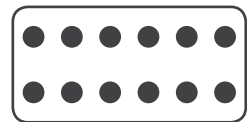
4 x size 16



6 x size 16



8 x size 16
A Keying



12 x size 16
A Keying



PCB Headers - DT Series

Part No.	Circuits	Style	Mating Plug
DT13-4P	4	90°	DT06-4S
DT15-4P	4	Straight	DT06-4S
DT15-6P	6	Straight	DT06-6S
DT15-08PA	8	Straight	DT06-08SA
DT15-12PA	12	Straight	DT06-12SA

Deutsch - PCB Headers



DTM13-12PA-12PB-R008



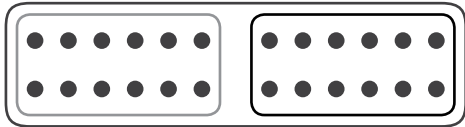
DTM13-12PA-R008



EEC-325X4B

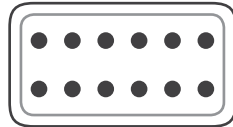


EEC-325X4B-E016



12 x size 20
A Keying

12 x size 20
B Keying



12 x size 20
A Keying

NEW PCB Headers - DTM Series

Part No.	Circuits	Style	Mating Plug
DTM13-12PA-12PB-R008	12 & 12	90°	DTM06-12SA & DTM06-12SB
DTM13-12PA-R008	12	90°	DTM06-12SA
EEC-325X4B	Enclosure - Black		
EEC-325X4B-E016	Enclosure - Amber transparent		



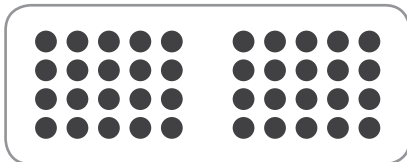
DRC13-40PA



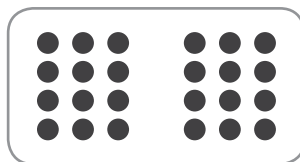
DRC10-24PA



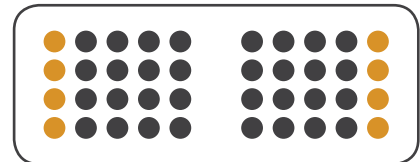
DRC10-40P



40 x size 16
A Keying



24 x size 16
A Keying



40 x size 16

NEW PCB Headers - DRC Series

Part No.	Circuits	Style	Mating Plug	Notes
DRC13-40PA	40	90°	DRC18-40SA	
DRC10-24PA	24	Straight	DRC16-24SA	
DRC10-40P	40	Straight	DRC16-40S	Outside contact columns gold plated



Deutsch - CAN

Controller Area Network

NEW



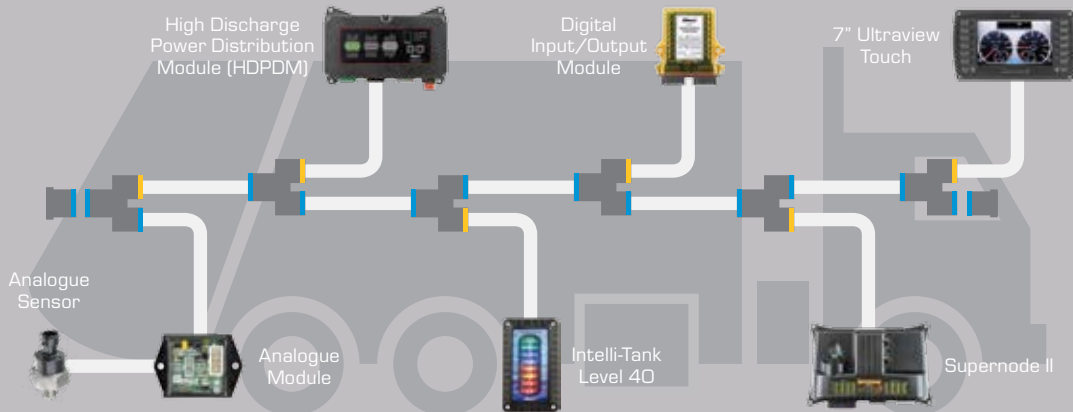
- Industry proven.
- Environmentally sealed.
- Multiple housing options available.
- Latched mating.
- Wedgelocks assure contact alignment and retention.



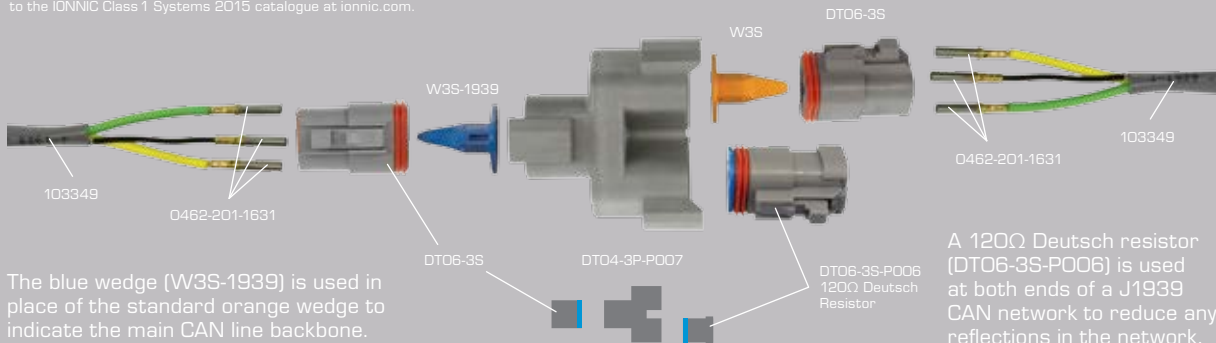
Housing :	HD30 Series	Thermoplastic Aluminium
Seal :		Silicon Rubber
Wedgelocks :		Thermoplastic
Shock :		50G
Vibration :		20G rms 10 - 2000Hz
Operating Temperature :		-55°C to 125°C

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.



For further information on any of these Class 1 products refer to the IONNIC Class 1 Systems 2015 catalogue at ionnic.com.





DT06-3S-E008



DT06-3S-EP11



DT06-3S-P006



DT04-3P-E008



DT04-3P-P006



W3S



W3S-1939



W3S-P012



W3P



W3P-1939



DT04-3P-P007



HD10-9-1939PE



HD16-9-1939SE



O460-202-1631



O462-201-1631



1062-16-0144



CAN - J1939/11 - Common Components

Part No.	Description	Cavities/Circuits
DT06-3S-E008	DT Series - Plug - Shrink boot adaptor	3
DT06-3S-EP11	DT Series - Plug - Shrink boot adaptor - Black . Requires W3S-P012	3
DT06-3S-P006	DT Series - Plug - 120Ω Resistor. Includes wedgelock & contacts	3
W3S	DT Series - Wedgelock - Plug - Orange	3
W3S-1939	DT Series - Wedgelock - Plug - Blue	3
W3S-P012	DT Series - Wedgelock - Plug - Green	3
DT04-3P-E008	DT Series - Receptacle - Shrink boot adaptor	3
DT04-3P-P006	DT Series - Receptacle - 120Ω 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
HD10-9-1939PE	HD10 Series - Receptacle. Threaded rear - Black	9
HD16-9-1939SE	HD10 Series - Plug. Threaded rear - Black	9
O460-202-1631	Contact - Pin - Solid - Gold Plated - Size 16	
O462-201-1631	Contact - Socket - Solid - Gold Plated - Size 16	
1062-16-0144	Contact - Socket - F-Crimp - Gold Plated - Size 16	



Deutsch - CAN

HDBOX-24-91PN

Originally designed for agricultural applications, the 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.

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



HDBOX-24-91PN



HDB36-24-91SN



HDB36-24-91SN-059



DT06-2S-EP06



DT06-4S-EP06



W2S-P012



W4S-P012



O460-204-08141



O460-204-12141



O460-202-1631



O462-203-08141



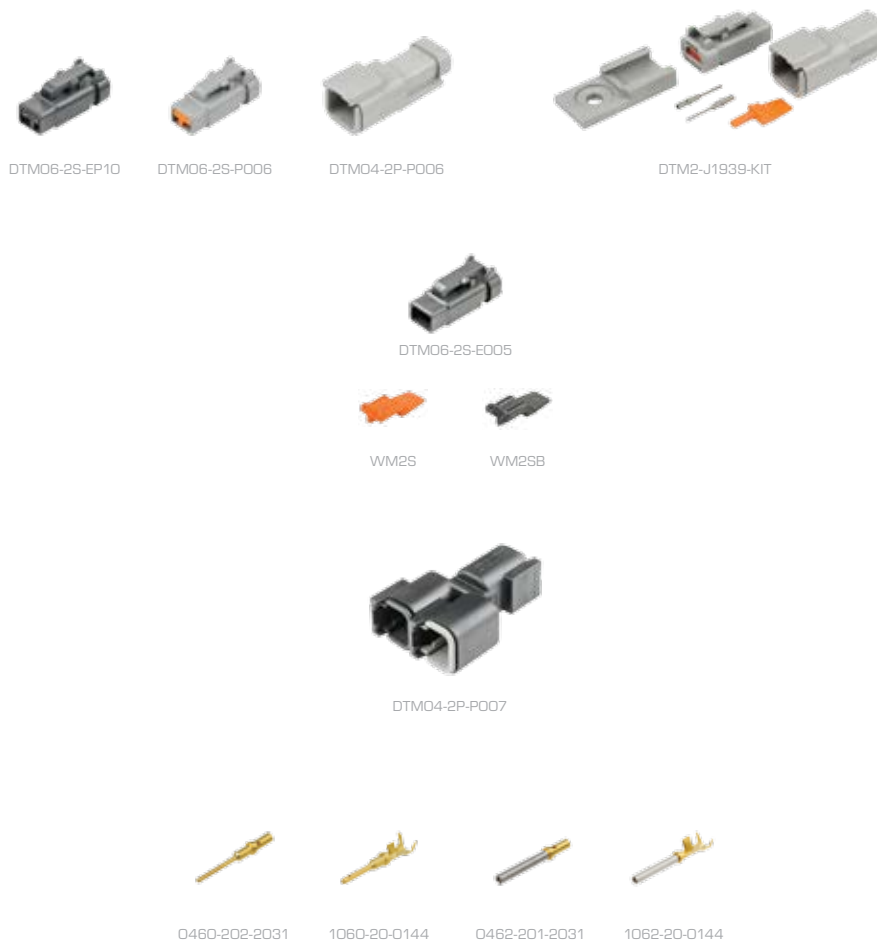
O462-203-12141



O462-201-1631

NEW CAN - J1939/12 - Common Components

Part No.	Description	Cavities/Circuits
HDBOX-24-91PN	Breakaway CAN Termination Assembly	15
HDB36-24-91SN	HD30 Series - Plug. Breakaway coupling	9
HDB36-24-91SN-059	HD30 Series - Plug. Breakaway coupling incorporating strain relief	9
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
O460-204-08141	Contact - Pin - Solid - Size 8	
O460-204-12141	Contact - Pin - Solid - Size 12	
O460-202-1631	Contact - Pin - Solid - Gold Plated - Size 16	
O462-203-08141	Contact - Socket - Solid - Size 8	
O462-203-12141	Contact - Socket - Solid - Size 12	
O462-201-1631	Contact - Socket - Solid - Gold Plated - Size 16	



NEW CAN - J1939/15 - Common Components

Part No.	Description	Cavities/Circuits
DTM06-2S-EP10	DTM Series - Plug - 120Ω Resistor - Black . Includes wedgelock & contacts	2
DTM06-2S-PO06	DTM Series - Plug - 120Ω Resistor. Includes wedgelock & contacts	2
DTM04-2P-PO06	DTM Series - Receptacle - 120Ω Resistor. Includes wedgelock & contacts	2
DTM2-J1939-KIT *	DTM Series - 120Ω Resistor Kit	2
DTM06-2S-E005	DTM Series - Plug - End cap - Black	2
WM2S	DTM Series - Wedgelock - Plug - Orange	2
WM2SB	DTM Series - Wedgelock - Plug - Black	2
DTM04-2P-PO07	DTM Series - Receptacle "Y" Piece - Black . Includes wedgelocks & contacts	2
O460-202-2031	Contact - Pin - Solid - Gold Plated - Size 20	
1060-20-0144	Contact - Pin - F-Crimp - Gold Plated - Size 20	
O462-201-2031	Contact - Socket - Solid - Gold Plated - Size 20	
1062-20-0144	Contact - Socket - F-Crimp - Gold Plated - Size 20	

* DTM2-J1939-KIT Contents:
 1 x DTM Receptacle - 2 Circuit (DTM04-2P)
 1 x Wedgelock Orange for DTM Receptacle (WM2P)
 1 x DTM Resistor - 2 Circuit (DTM06-2S-PO06)
 2 x Solid Contact Size 20 (O460-202-20141)
 1 x Mounting Clip (1011-026-0205)



Deutsch - Contacts & Plugs

Contacts & Plugs



- Superior material selection combined with mechanical CAD/CAM design.
- Exceed demands of today's industrial electrical systems.
- Exceptional durability, performance, corrosion and oxidation resistance.
- Made from high quality copper alloys, finished with nickel, tin or gold plating.
- Solder is not recommended, eliminating potential flux corrosion.
- No retention tangs required, eliminating potential contact damage.

Material : Copper Alloy
Finish : Nickel (standard), Gold (optional)

Bulk packaged quantities calculated by weight, a +/- 2% variation acceptable.

Solid Contacts

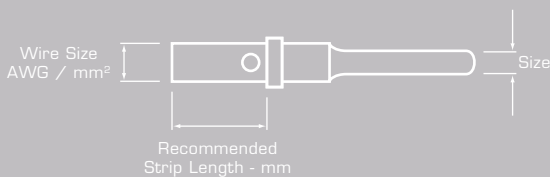


Deutsch solid contacts are designed for use with larger wire size and heavy duty applications. Solid contacts are manufactured using a cold heading process with solid copper alloy wire and are available with either a nickel or gold plating finish.

Solid contacts terminate wire from 6 AWG to 20 AWG (13 - 0.5mm²) and are available in 5 sizes each of the pin and socket. The applicable contact is determined by the size of the conductor only.

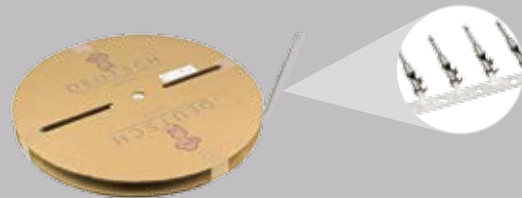
Green Band Contacts

Size 16 solid contacts are available to suit 2 wire sizes. Contacts with the green band marking accept the larger wire size of 14 AWG [1.0 - 2.0mm²].



Solid style contacts are sold in bulk.
 Bulk packaged quantities calculated by weight, a +/- 2% variation acceptable.

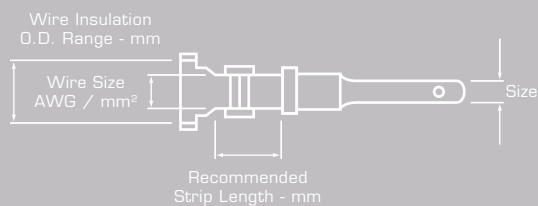
Stamped & Formed Contacts (F-Crimp)



Deutsch stamped & formed contacts are designed for use where wire termination costs are of primary concern without sacrificing reliability of electrical circuits. The stamped & formed contacts are made on a precision stamping machine using flat strip stock, then a durable and corrosion proof nickel, or optional gold plating is applied.

The stamped & formed style contacts terminate wire from 10 AWG to 22 AWG (6.0 - 0.35mm²) and are available in multiple sizes to accommodate a wide range of wire insulation.

The specific contact is determined by the outside diameter of wire insulation and conductor size.



Stamped & formed contacts are available as cut strips or in complete reels.

Deutsch - Contacts & Plugs



Contacts - Solid

Size	Pin	Part No.		Plating	Wire Size		Recommended Strip Length (mm)	Max. Rated A @ 125° Continuous
		Socket			AWG	mm ²		
20	0460-202-2031	0462-201-2031		Gold	20	0.2 - 0.5	4.0 - 5.5	7.5
	0460-202-20141	0462-201-20141		Nickel				
16	0460-202-1631	0462-201-1631		Gold	16 - 20	0.5 - 1.0	6.4 - 8.0	13
	0460-202-16141	0462-201-16141		Nickel				
16 Green Band	0460-215-1631	0462-209-1631		Gold	14	1.0 - 2.0	6.4 - 8.0	13
	0460-215-16141	0462-209-16141		Nickel				
12	0460-220-1231	0462-210-1231		Gold	12 - 14	2.0 - 3.0	5.6 - 7.2	25
	0460-204-12141	0462-203-12141		Nickel				
8	0460-204-08141	0462-203-08141		Nickel	8 - 10	5.0 - 8.0	11.0 - 12.5	60
4	0460-204-0490	0462-203-04141		Nickel	6	13.0	11.0 - 12.5	100



Contacts - Stamped & Formed (F-Crimp)

Size	Pin	Part No.		Plating	Wire Size		Wire Insulation O.D. Range (mm)	Recommended Strip Length (mm)	Max. Rated A @ 125° Continuous
		Socket			AWG	mm ²			
20	1060-20-0122	1062-20-0122		Nickel	16 - 22	0.25 - 1.5	1.91 - 3.15	4.0 - 5.0	7.5
	1060-20-0144	1062-20-0144		Gold					
16	1060-14-0122	1062-14-0122		Nickel	14 - 18	0.75 - 2.0	2.41 - 3.81	3.8 - 5.0	13
	1060-14-0144	—		Gold	14 - 18	0.75 - 2.0	2.41 - 3.81	3.8 - 5.0	
	1060-16-0122	1062-16-0122		Nickel	14 - 18	0.75 - 2.0	1.91 - 3.55	3.8 - 5.0	
	—	1062-16-0144		Gold	14 - 18	0.75 - 2.0	1.91 - 3.55	3.8 - 5.0	
	1060-16-0622	1062-16-0622		Nickel	16 - 20	0.5 - 1.0	1.40 - 2.54	3.8 - 5.0	
	—	1062-16-1222		Nickel	12 - 16	1.0 - 2.5	1.91 - 3.55	4.5 - 5.8	
12	1060-12-0222	1062-12-0222		Nickel	10 - 12	4.0 - 6.0	3.56 - 5.18	5.8 - 7.0	25
	1060-12-0166	1062-12-0166		Tin/Nickel	12 - 14	2.0 - 4.0	2.87 - 4.47	5.7 - 6.9	



Sealing plugs are used to seal the connector when all the cavities are not used by wires



Sealing Plugs

Part No.	Contact Size	Wire Gauge Range (AWG)	Material
114019	4	6	Rubber
114018	8	8-10	Plastic
114017	12-16	12-20	Plastic
0413-204-2005	20	20	Plastic



Deutsch - Contacts & Plugs

Contact Performance Specifications

Current Rating @ 125°C Continuous

Size	Maximum Current (A)
20	7.5
16	13
12	25
8	60
4	100

Contact Millivolt Drop

Size	Test Current (A)	Solid (mV)	Stamped & Formed * (mV)
20	7.5	60	100
16	13	60	100
12	25	60	100
8	60	60	N/A
4	100	60	N/A

* less drop through wire

Crimp Tensile Strength

Size	Tensile Strength (lbs)
20	20
16	25
12	70
8	90
4	300

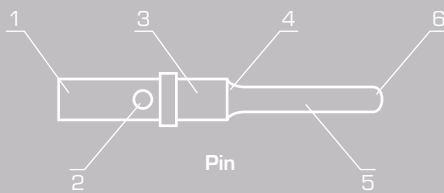
Contact Retention

Size	lbs	N
20	20	89
16	25	111
12	30	133
8	35	156
4	35	156

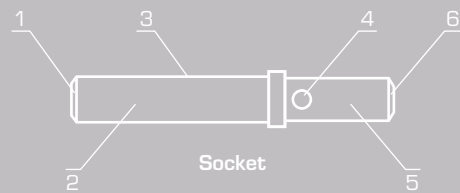
Durability

No electrical or mechanical defects after 100 cycles of engagement and disengagement.

Solid Contacts

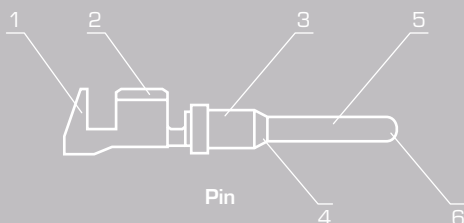


- 1 - Wire lead-in chamfer to aid wire insertion.
- 2 - Inspection hole.
- 3 - Maximum diameter to prevent bending.
- 4 - Radius for added strength.
- 5 - Smooth finish to minimise mating forces.
- 6 - Radius for smooth engagement and reduced misalignment.

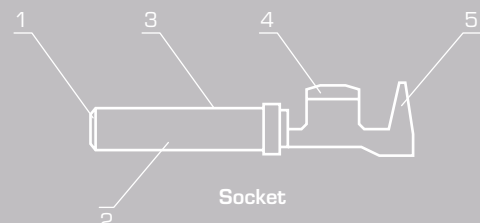


- 1 - Closed entry to prevent probe damage and prevent misalignment, chamfered lead-in to prevent misalignment.
- 2 - Durable tines for superior electrical performance.
- 3 - Stainless steel sleeve for maximum socket tine protection.
- 4 - Inspection hole.
- 5 - Crimp barrel.
- 6 - Wire lead-in chamfer to aid wire insertion.

Stamped & Formed Contacts (F-Crimp)



- 1 - Insulation wings for insulation support.
- 2 - Conductor wings for minimal contact resistance.
- 3 - Maximum diameter to prevent bending.
- 4 - Chamfered for added strength.
- 5 - Smooth finish to minimise mating forces.
- 6 - Radius for smooth engagement and reduced misalignment.



- 1 - Closed entry to prevent probe damage and prevent misalignment, chamfered lead-in to prevent misalignment.
- 2 - Durable tines for superior electrical performance.
- 3 - Stainless steel sleeve for maximum socket tine protection.
- 4 - Conductor wings for minimal contact resistance.
- 5 - Insulation wings for insulation support.

Deutsch - Contacts & Plugs

Contact Insertion

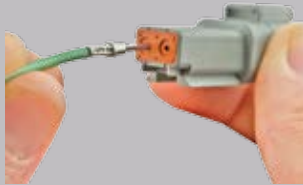
Step 1

Hold crimped contact approximately 25mm behind the contact barrel.



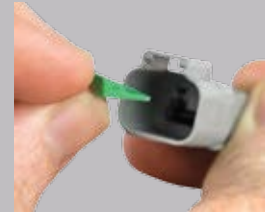
Step 2

Hold connector with rear grommet toward the contact. Push contact into connector grommet until a click is felt. Gently pull back to confirm contact is locked in place.



Step 3

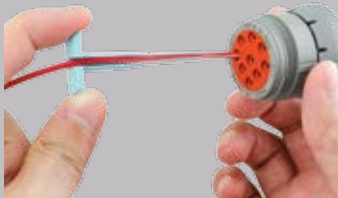
Once all contacts are in place, insert wedgelock. The wedgelock will snap into place securing the contacts.



Contact Removal

Step 1

With the rear insert toward you, snap appropriate size removal tool over the wire of contact to be removed.



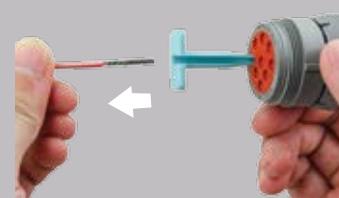
Step 2

Slide tool along the wire into the insert cavity until it engages the contact and resistance is felt.



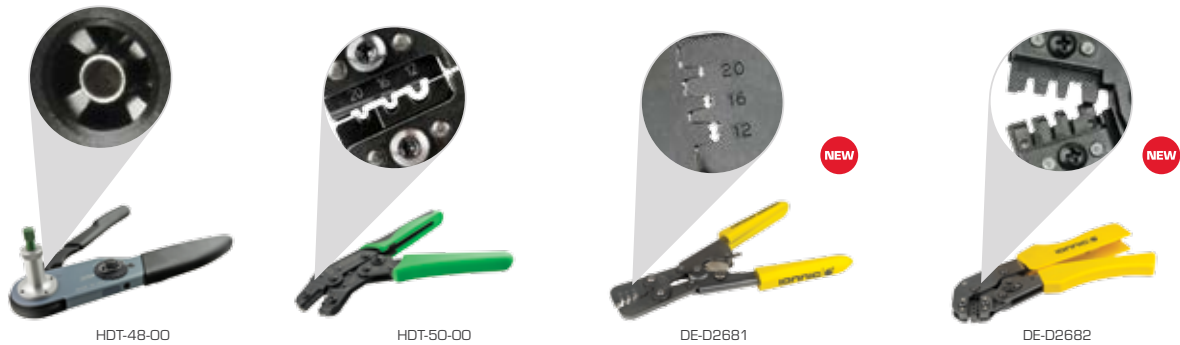
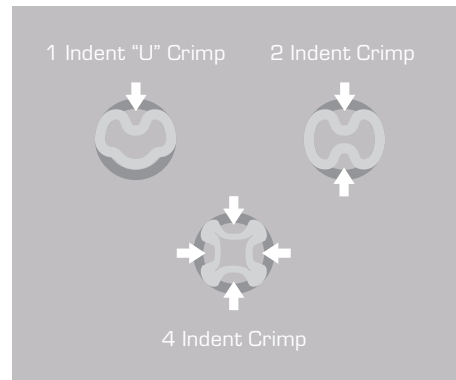
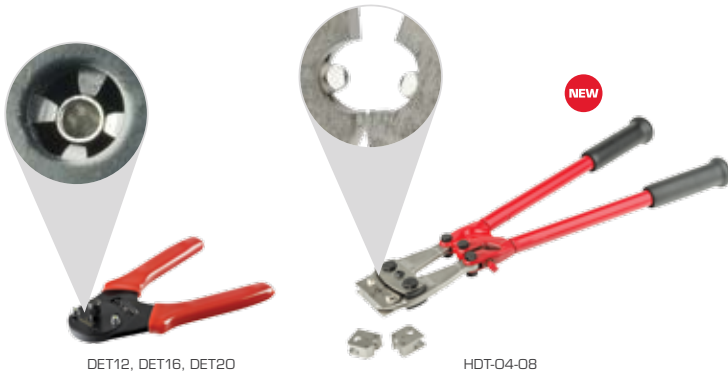
Step 3

Pull contact wire assembly out of connector.





- Hand crimp tools for solid contacts.
- Tight, complete crimp with minimal effort.
- HDT-48-00 crimps a wide range of contact sizes with no need to change out dies or locators.
- Contact will not release until a full crimp is completed.



Hand Tool for Solid Contacts

Part No.	Crimps Size	Description
DET12	12	4 indent crimper
DET16	16	4 indent crimper
DET20	20	4 indent crimper
HDT-04-08 NEW	4 & 8	2 indent crimper
HDT-48-00 NEW	12, 16, 20 & 22	4 indent crimper
HDT-50-00 NEW	12, 16 & 20	1 indent crimper "U" crimp
DE-D2681	12, 16 & 20	2 indent crimper
DE-D2682	12, 16 & 20	2 indent crimper

Crimping with the DET12, DET16 & DET20

Step 1

1. Ensure tool is reset by completely depressing handles.
2. Strip insulation from wire.
3. Insert contact into the appropriate size tool barrel up.



Step 2

1. Depress handles until contact is held but not crimped.



Step 3

- Place the stripped end of the wire in the crimp barrel, ensuring there are no stray wire strands, and fully depress tool handles.



Crimping with the HDT-48-00

Step 1

1. Strip insulation from wire.
2. Raise selector knob and rotate until arrow is aligned with contact size to be crimped.
3. Loosen locknut, turn adjusting screw in until it stops.



Step 2

- Insert contact with barrel up.
Turn adjusting screw counter clockwise until contact is flush with indenter cover.
Tighten locknut.



Step 3

1. Insert wire into contact, ensuring there are no stray wire strands.
Contact must be centred between indenters. Close handles until crimp cycle is completed.
2. Release handles and remove crimped contact.



Crimping with the HDT-50-00

Step 1

1. Ensure tool is reset by completely depressing handles.
2. Strip insulation from wire.
3. Position the contact into the matching sized groove, see markings 20, 18, 12.



Step 2

1. Make sure the shoulder of the contact is flush on the outside of the crimping tool.
2. Depress handles until contact is held but not crimped.



Step 3

- Place the stripped end of the wire in the crimp barrel, ensuring there are no stray wire strands, and fully depress tool handles.





- Removes contact from connector without damage to the wire, insulation, connector seals, or connector body.
- Removal tools are required for wire removal in the DTHD, HD10, HDP20, HD30 and DRC series.
- Simplifies contact removal and field service repair.
- Usable with all connectors that utilise a round shoulder contact retention system.
- Manufactured from heavy duty plastic.
- Compact and easy to use.

Material : DET-RT Shaft Heavy Duty Polymer High Tensile Steel



Removal Tools

Part No.	Contact Size	Wire Gauge Size (AWG)	Colour	Notes
114009	4	6	White	
114008	8	8, 10	Green	
0411-353-0805	8	8, 10	Green	Extended
114010	12	12	Yellow	
0411-337-1205	12	12, 14	Orange	Extra Thin Wall (E-Seal)
0411-291-1405	14	14, 16	Green	
0411-310-1605	16	16, 18	Light Blue	
0411-336-1605	16	16, 18	Dark Blue	
0411-204-1605	16	16, 18	Dark Blue	Extra Thin Wall (E-Seal)
0411-240-2005	20	20, 24	Red	
DET-RT	—	—	Blue	Multi-use hook tool

Pack quantity : 1.

Removal Tool Instructions



Step 1
With the rear insert toward you, snap appropriate size removal tool over the wire of contact to be removed.



Step 2
Slide tool along the wire into the insert cavity until it engages the contact and resistance is felt.



Step 3
Pull contact wire assembly out of connector.

DET-RT Multi-use Tool



Removing Internal Wedgelocks

Step 1
Use the end of the tool to hook the wedgelock as shown.



Step 2
With wedgelock sufficiently hooked firmly pull wedgelock out of connector body.

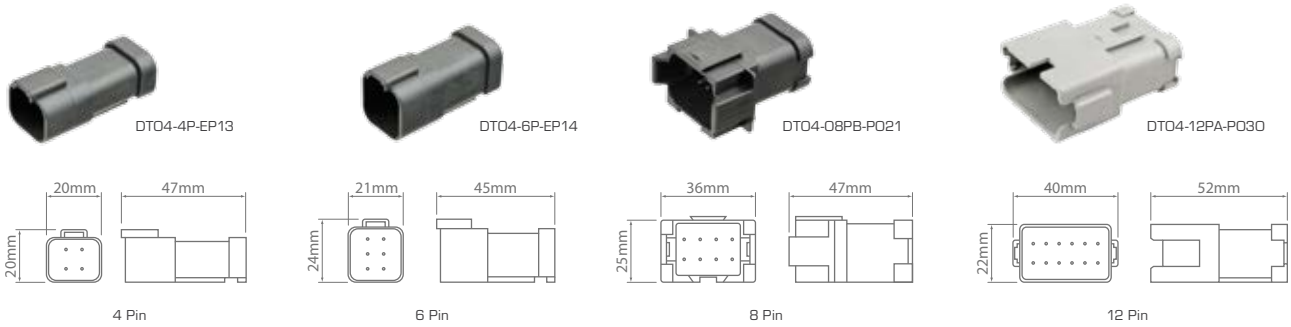
Removing Individual Contacts

Step 1
Use flat edge of tool to lift tab holding contact.



Step 2
With contact tab held open gently pull contact out.





Bussed Receptacles

	Total Pins	Max. Current Rating	Colour	Keying	Part No.	Mating Plug
	4	4 Pin Buss = 26A	Black	—	DT04-4P-EP13	DT06-4S
	6	6 Pin Buss = 39A	Black	—	DT04-6P-EP13	DT06-6S
	6	3 Pin Buss = 13A 3 Pin Buss = 13A	Black	—	DT04-6P-EP14	DT06-6S
	8	8 Pin Buss = 52A	Grey Black	A B	DT04-08PA-P021 DT04-08PB-P021	DT06-08SA DT06-08SB
	8	4 Pin Buss = 26A 4 Pin Buss = 26A	Grey	A	DT04-08PA-P026	DT06-08SA
	8	3 Pin Buss = 13A 5 Pin Buss = 26A	Grey Black	A B	DT04-08PA-P028 NEW DT04-08PB-P028	DT06-08SA DT06-08SB
	12	12 Pin Buss = 78A	Grey Black	A B	DT04-12PA-P021 DT04-12PB-P021	DT06-12SA DT06-12SB
	12	6 Pin Buss = 39A 6 Pin Buss = 39A	Grey Black	A B	DT04-12PA-P026 DT04-12PB-P026	DT06-12SA DT06-12SB
	12	3 Pin Buss = 13A 3 Pin Buss = 13A 3 Pin Buss = 13A 3 Pin Buss = 13A	Grey Black	A B	DT04-12PA-P030 DT04-12PB-P030	DT06-12SA DT06-12SB
	12	4 Pin Buss = 26A 4 Pin Buss = 26A 4 Pin Buss = 26A	Grey	A	DT04-12PA-P075 NEW	DT06-12SA



DT06-3S-P006



DT04-3P-P006



DTM06-2S-EP10



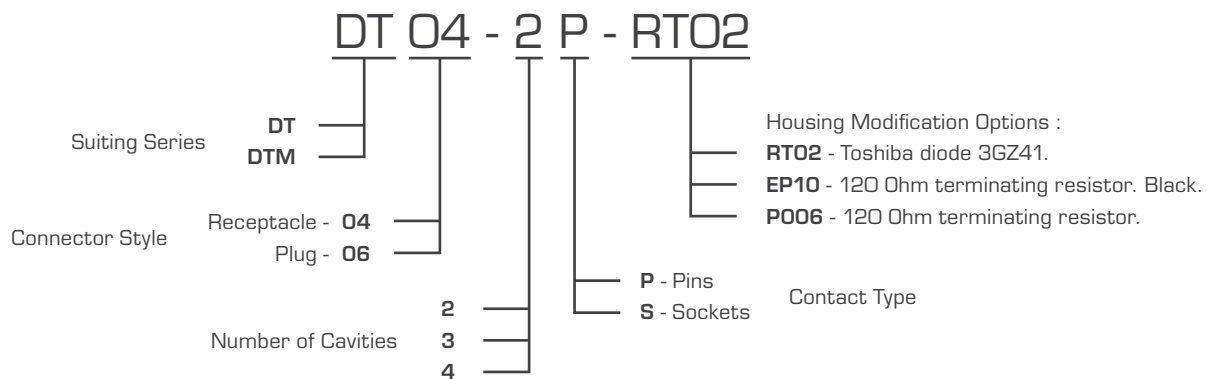
DT04-2P-RT02



- Useful anywhere there's a need to regulate power or protect a device against potential power surges or transient voltages.
- Diodes allow current flow in one direction only protecting an electronic device from potential damage.
- Easily retrofitted.
- Resistors to suit DT and DTM series.
- Industry proven.
- Environmentally sealed.
- Latched mating.

Housing :	Thermoplastic
Seal :	Silicon Rubber
Wedgelocks :	Thermoplastic
Shock :	50G
Vibration :	20G rms 10 - 2000Hz
Diode Peak Reverse Volts :	400 V Max.
Diode Peak Forward Volts :	1.0 V Max.
Diode Avg. Forward Current :	3.0 A Max.
Resistor Ohms :	120 Ω
Resistor Watts :	0.4 W
Resistor Tolerance :	DTM Series 5%
	DT Series 10%

Part Numbering System



DT04-2P-RT02



DTM06-2S-EP10



DT04-3P-P006



DT06-3S-P006

Diodes & Resistors

Part No.	Description	Suits	Style	Colour
DT04-2P-RT02	Diode	DT Series	Receptacle	Black
DTM06-2S-EP10	Resistor	DTM Series	Plug	Black
DT04-3P-P006	Resistor	DT Series	Receptacle	Grey
DT06-3S-P006	Resistor	DT Series	Plug	Grey

Resistors include wedgelock.

For mounting clips suiting Receptacles see Mounting Clips table on page 7.

Caterpillar to Deutsch Cross Reference

Caterpillar Part No.	Deutsch Part No.	Series	Description	Page
1				
100-5805	HDC16-3	HD10	Protective Caps - Receptacle Size 3	22
102-8813	1010-002-0306	DT	Seal - Plug	—
102-8814	1010-016-0406	DT	Seal - Plug	—
102-8815	1010-017-0606	DT	Seal - Plug	—
102-8816	1010-007-0806	DT	Seal - Plug	—
102-8817	1010-020-1206	DT	Seal - Plug	—
103-0213	DRC12-70PA	DRC	Standard Housing - Receptacle - A Key	28
113-4630	DT04-4P-LE13	DT	Modified Housing - Receptacle	—
115-1050	1060-16-0122	Contacts	Stamped & Formed (F-Crimp) - Size 16 Pin	39
115-1051	1062-16-0122	Contacts	Stamped & Formed (F-Crimp) - Size 16 Socket	39
115-1052	1060-14-0122	Contacts	Stamped & Formed (F-Crimp) - Size 16 Pin	39
115-1053	1062-14-0122	Contacts	Stamped & Formed (F-Crimp) - Size 16 Socket	39
115-3518	HD10-6-12P	HD10	Standard Housing - Receptacle	22
121-9587	0411-310-1605	Tools	Removal - Size 16	44
121-9588	0411-336-1605	Tools	Removal - Size 16	44
122-4384	HD34-24-21PN	HD30	Standard Housing - Receptacle	24
126-1767	0460-215-1631	Contacts	Solid - Size 16 Pin	39
126-1768	0462-209-1631	Contacts	Solid - Size 16 Socket	39
128-2312	HD10-9-96P	HD10	Standard Housing - Receptacle	22
128-4249	112264	HD30	Mounting Hardware - Lockwasher	27
133-0967	0460-247-1631	Contacts	Solid - Size 16 Pin	—
133-0969	0462-221-1631	Contacts	Solid - Size 16 Pin	—
133-0970	DT04-3P-P007	DT	Modified Housing - Receptacle	35
133-0973	DT04-3P-EE01	DT	Modified Housing - Receptacle	—
133-0975	W3P-1939	DT	Wedges - Receptacle	35
134-2540	DT04-3P-EP10	DT	Modified Housing - Receptacle	—
137-6645	1010-057-0206	DT	Seal - Receptacle	—
140-7684	DT04-3P-LE12	DT	Modified Housing - Receptacle	—
143-3346	DRC13-40PA	DRC	Standard Housing - Receptacle	28
151-9276	DT04-6P-CE03	DT	Modified Housing - Receptacle	—
151-9277	DT04-4P-CE03	DT	Modified Housing - Receptacle	—
151-9278	DT04-2P-CE03	DT	Modified Housing - Receptacle	—
155-2252	DT06-12SA-EPO8	DT	Modified Housing - Plug - A Key	4
155-2253	DT06-12SB-EPO6	DT	Modified Housing - Plug - B Key	4
155-2254	DT06-12SC-EPO6	DT	Modified Housing - Plug - C Key	4
155-2258	W12S-PO12	DT	Modified Wedges - Plug	6
155-2259	W8S-PO12	DT	Modified Wedges - Plug	6
155-2261	W2S-PO12	DT	Modified Wedges - Plug	6
155-2262	W4S-PO12	DT	Modified Wedges - Plug	6
155-2263	W6S-PO12	DT	Modified Wedges - Plug	6
155-2264	DT06-08SA-EPO8	DT	Modified Housing - Plug - A Key	4
155-2266	W3S-1939-PO12	DT	Wedges - Plug	—
155-2267	DT06-3S-EPO6	DT	Modified Housing - Plug	4
155-2269	DT06-2S-EPO6	DT	Modified Housing - Plug	4
155-2272	DT06-4S-EPO6	DT	Modified Housing - Plug	4
155-2273	DT06-6S-EPO6	DT	Modified Housing - Plug	4
155-2276	W3S-PO12	DT	Modified Wedges - Plug	4
156-1458	HDC36-18	HD30	Protective Caps - Receptacle	27
156-1459	HDC34-18	HD30	Protective Caps - Plug	27
156-1460	HD34-18-8PN	HD30	Standard Housing - Receptacle	24
156-1461	HD36-18-8SN	HD30	Standard Housing - Plug	24
157-3584	HD16-9-1939S	HD10	Modified Housing - Plug	35
159-9495	114020-90	HD30	Mounting Hardware - Panel Nut	27
159-9496	114021	HD30	Mounting Hardware - Lockwasher	27
162-3046	DT04-08PA-CE03	DT	Modified Housing - Receptacle	—
164-2336	DT04-12PA-LE07	DT	Modified Housing - Receptacle	—
167-3692	HDP24-24-31PT	HDP	Standard Housing - Receptacle	24
167-3693	HDP26-24-31ST	HDP	Standard Housing - Plug	24
168-5006	2428-004-2405	HD30	Backshell	—
168-5007	HDP26-24-47SE-LO17	HDP	Modified Housing - Plug	—



Caterpillar to Deutsch Cross Reference

Caterpillar Part No.	Deutsch Part No.	Series	Description	Page
169-0705	0413-204-2005	Contacts	Sealing Plugs - Size 20	39
169-0706	0462-201-20141	Contacts	Solid - Size 20 Socket	39
169-8670	DT06-3S-EP09	DT	Modified Housing - Plug	—
171-0596	DT04-3P-CE01	DT	Modified Housing - Receptacle	—
172-9200	DT04-4P-RT01	DT	Modified Housing - Receptacle	—
174-0502	DT06-3S-EP11	DT	Modified Housing - Plug	35
174-3016	DT06-3S-PP01	DT	Modified Housing - Plug	—
174-3089	DT04-12PA-CE03	DT	Modified Housing - Receptacle	—
175-3880	1010-064-0206	DT	Seal - Plug	—
175-3881	1010-062-0306	DT	Seal - Plug	—
175-3882	1010-066-0406	DT	Seal - Plug	—
175-3883	1010-070-0606	DT	Seal - Plug	—
175-3884	1010-063-0806	DT	Seal - Plug	—
175-3885	1010-058-1206	DT	Seal - Plug	—
176-2942	DT06-2S-EP11	DT	Modified Housing - Plug	—
176-2946	DT06-4S-CE05	DT	Modified Housing - Plug	—
177-9641	DTPO4-2P-E003	DTP	Modified Housing - Receptacle	18
177-9642	WP2P	DTP	Wedges - Receptacle	19
177-9646	DTPO6-2S-E003	DTP	Modified Housing - Plug	18
177-9647	WP2S	DTP	Wedges - Plug	19
177-9649	DTPO4-4P-E003	DTP	Modified Housing - Receptacle	18
177-9650	WP4P	DTP	Wedges - Receptacle	19
177-9654	DTPO6-4S-E003	DTP	Modified Housing - Plug	18
177-9655	WP4S	DTP	Wedges - Plug	19
180-9214	112263-90	HD30	Mounting Hardware - Panel Nut	27
180-9339	1060-16-0988	Contacts	Stamped & Formed (F-Crimp) - Size 16 Pin	—
180-9340	1062-16-0988	Contacts	Stamped & Formed (F-Crimp) - Size 16 Socket	—
183-5784	DRC18-40SC-PO13	DRC	Modified Housing - Plug - C Key	28
186-3735	0460-202-16141	Contacts	Solid - Size 16 Pin	39
186-3736	0462-201-16141	Contacts	Solid - Solid - Size 16 Socket	39
186-4848	W2SD-PO12	DT	Wedges - Plug	—
189-3158	DT04-2P-RT01	DT	Modified Housing - Receptacle	—
195-0534	DT04-08PA-LE11	DT	Modified Housing - Receptacle	—
196-5330	DT04-4P-LE11	DT	Modified Housing - Receptacle	—
197-7259	HDP24-24-19PE	HDP	Standard Housing - Receptacle	24
197-7261	HDP26-24-19SE	HDP	Standard Housing - Plug	24
1U5804	HDT-48-00	Tools	Hand - Size 12, 16, 20 & 22	42
1U5805	0411-291-1405	Tools	Removal - Size 14	44

2

201-2277	HDP26-24-18SN	HDP	Standard Housing - Plug	24
204-6195	0462-203-08141	Contacts	Solid - Size 8 Socket	39

3

3E0059	DRC13-70PA	DRC	Standard Housing - Receptacle	28
3E3364	DT04-2P-E005	DT	Modified Housing - Receptacle	4
3E3370	DT04-3P-E005	DT	Modified Housing - Receptacle	4
3E3376	DT04-4P-E005	DT	Modified Housing - Receptacle	4
3E3382	DT04-6P-E005	DT	Modified Housing - Receptacle	4
3E3388	DT04-08PA-E005	DT	Modified Housing - Receptacle - A Key	4
3E4367	0535-001-0001	DRC	Retention Clip - Plug	—
3E5179	DT04-12PA-E005	DT	Modified Housing - Receptacle - A Key	4
3E5225	HD16-6-12S	HD10	Standard Housing - Plug	22
3E5226	0462-210-1231	Contacts	Solid - Size 12 Socket	39
3E5312	DRC10-24PB	DRC	Standard Housing - Receptacle - B Key	28
3E5394	HD10-5-16P-B009	HD10	Modified Housing - Receptacle	—
3E6448	DRC16-70SD-PO13	DRC	Modified Housing - Plug - D Key	28
3E7990	DT04-12PA-LE10	DT	Modified Housing - Receptacle	—
3E8557	0526-001-0090	DRC	Retention Bolt	—

Caterpillar to Deutsch Cross Reference

Caterpillar Part No.	Deutsch Part No.	Series	Description	Page
3E8558	0526-004-0090	DRC	Retention Bolt	—
3E8826	DRC10-24PA-A004	DRC	Modified Housing - Receptacle	—
3E8969	DT04-12PA-LE09	DT	Modified Housing - Receptacle	—
3E9399	DRC10-40P-A004	DRC	Modified Housing - Receptacle	—

7

7T0093	0460-204-12141	Contacts	Solid - Size 12 Pin	39
7T0094	0462-203-12141	Contacts	Solid - Size 12 Socket	39
7T3272	HD14-6-96P	HD10	Standard Housing - Receptacle	22
7T9742	0460-247-16141	Contacts	Solid - Size 16 Pin	—
7X1873	HD16-6-12S-8010	HD10	Modified Housing - Plug	23
7X6195	HD10-9-16P-8009	HD10	Modified Housing - Plug	—
7X6198	HD18-003	HD10	Strain Relief	23
7X6217	HD14-9-16P	HD10	Standard Housing - Receptacle	22
7X6221	DRC10-24PA	DRC	Standard Housing - Receptacle - A Key	28
7X6222	DRC16-24SA-P013	DRC	Modified Housing - Plug - A Key	28

8

8C3654	HD16-6-96S	HD10	Standard Housing - Plug	22
8C6353	HDC14-9	HD10	Protective Caps - Plug Size 9	23
8C6354	HDC16-9	HD10	Protective Caps - Receptacle Size 9	23
8T8731	HD16-3-96S	HD10	Standard Housing - Plug	22
8T8732	HD14-3-96P	HD10	Standard Housing - Receptacle	22
8T8733	HD16-5-16S	HD10	Standard Housing - Plug	22
8T8734	HD14-5-16P	HD10	Standard Housing - Receptacle	22
8T8735	HD16-9-96S	HD10	Standard Housing - Plug	22
8T8736	HD14-9-96P	HD10	Standard Housing - Receptacle	22
8T8737	114017	Contacts	Sealing Plugs - Size 12-16	39
8T9833	DRC10-40P	DRC	Standard Housing - Receptacle	28
8T9834	DRC16-40S-P013	DRC	Modified Housing - Plug	28

9

9W0844	0462-209-16141	Contacts	Solid - Size 16 Socket	39
9W0847	HD16-9-16S	HD10	Standard Housing - Plug	22
9W0852	0460-215-16141	Contacts	Solid - Size 16 Pin	39
9W1951	HD10-9-96P-8009	HD10	Modified Housing - Receptacle	—
9X0141	DRC18-40SA-P013	DRC	Modified Housing - Plug - A Key	28
9X0145	DRC12-24PA	DRC	Standard Housing - Receptacle - A Key	28
9X0146	DRC14-24PA	DRC	Standard Housing - Receptacle - A Key	28
9X0347	DRC16-70SB-P013	DRC	Modified Housing - Plug - B Key	28
9X0352	DT04-2P-N006	DT	Modified Housing - Receptacle	—
9X1339	DRC14-40PA	DRC	Standard Housing - Receptacle - A Key	28
9X1343	DRC12-40PA	DRC	Standard Housing - Receptacle - A Key	28
9X1365	0510-014-2406	DRC	Seal - Receptacle	—
9X3132	0513-002-0006	DRC	Seal - Plug	—
9X3265	0513-009-2406	DRC	Seal - Plug	—
9X3401	0460-202-1631	Contacts	Solid - Size 16 Pin	39
9X3402	0462-201-1631	Contacts	Solid - Size 16 Socket	39
9X3467	HDC14-3	HD10	Protective Caps - Plug Size 3	23
9X3490	0513-010-4006	DRC	Seal - Plug	—
9X4391	DRC16-70SA-P013	DRC	Modified Housing - Plug - A Key	28
9X4404	HDC14-6	HD10	Protective Caps - Plug	23
9X4405	HDC16-6	HD10	Protective Caps - Receptacle	23
9X4711	0515-002-4005	DRC	Protective Caps - Receptacle	—
9X4712	0515-001-4005	DRC	Protective Caps - Plug	—
9X4813	HD10-3-96P	HD10	Standard Housing - Receptacle	22
9X4814	HD10-6-96P	HD10	Standard Housing - Receptacle	22
9X5615	0513-011-7006	DRC	Seal - Plug	—



Caterpillar to Deutsch Cross Reference

Caterpillar Part No.	Deutsch Part No.	Series	Description	Page
9X7143	DRC12-24PB	DRC	Standard Housing - Receptacle - B Key	28
9X7144	DRC16-24SB-PO13	DRC	Modified Housing - Plug - B Key	28
9X7145	DRC12-24PC	DRC	Standard Housing - Receptacle - C Key	28
9X7146	DRC16-24SC-PO13	DRC	Modified Housing - Plug - C Key	28
9X7147	DRC18-40SB-PO13	DRC	Modified Housing - Plug - B Key	28
9X7148	DRC12-40PB	DRC	Standard Housing - Receptacle - B Key	28

This cross reference is offered as a guide only and the suitability of the referenced component must be determined by the customer.

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
0							
0409-201-1800	26	1011-027-0805	7	114008	44	DT04-3P-LO12	10
0409-201-2400	26	1011-027-0805	14	114009	44	DT04-3P-PO06	35
0411-204-1605	44	1011-243-0805	8	114010	44	DT04-3P-PO06	48
0411-240-2005	44	1011-244-0805	8	114017	5	DT04-3P-PO07	35
0411-291-1405	44	1011-245-0805	8	114017	5	DT04-4P	5
0411-310-1605	44	1011-246-0805	8	114017	19	DT04-4P-EP13	47
0411-336-1605	44	1011-247-1205	8	114017	19	DT04-4P-LO12	10
0411-337-1205	44	1011-248-1205	8	114017	39	DT04-6P	5
0411-353-0805	44	1011-249-1205	8	114018	39	DT04-6P-EP13	47
0413-204-2005	13	1011-250-1205	8	114019	39	DT04-6P-EP14	47
0413-204-2005	13	1011-255-0205	8	114020-90	27	DT06-08SA	5
0413-204-2005	39	1011-256-0205	8	114021	27	DT06-12SA	5
0460-202-16141	5	1011-257-0205	8	16-04477	27	DT06-2S	5
0460-202-16141	39	1011-258-0205	8	16-04978	27	DT06-2S-EPO6	36
0460-202-1631	35	1011-259-0305	8	2			
0460-202-1631	36	1011-260-0305	8	2411-001-2405	27	DT06-3S	5
0460-202-1631	39	1011-261-0305	8	2411-002-1805	27	DT06-3S-E008	35
0460-202-20141	13	1011-262-0305	8	2414-001-2486	27	DT06-3S-EP11	35
0460-202-20141	13	1011-263-0405	8	2414-002-1886	27	DT06-3S-PO06	35
0460-202-20141	39	1011-264-0405	8	D			
0460-202-20141	39	1011-265-0405	8	DET12	42	DT06-3S-PO06	48
0460-202-2031	37	1011-266-0405	8	DET16	42	DT06-3S-PO06	35
0460-202-2031	39	1011-267-0605	8	DET20	42	DT06-4S	5
0460-204-0490	39	1011-268-0605	8	DET-RT	44	DT06-4S-EPO6	36
0460-204-08141	36	1011-269-0605	8	DRC10-24PA	33	DT06-6S	5
0460-204-08141	39	1011-270-0605	8	DRC10-40P	33	DT12	6
0460-204-12141	19	1027-001-0800	14	DRC13-40PA	33	DT12-1	6
0460-204-12141	36	1027-003-1200	7	DRC24-BT	30	DT12-1B	11
0460-204-12141	39	1027-003-1200	14	DRC24-GKT	30	DT12-1-CAT	6
0460-215-16141	5	1027-003-1200	19	DRC40-BT	30	DT12-3	6
0460-215-16141	39	1027-003-1200	21	DRC40-GKT	30	DT12-4-CAT	6
0460-215-1631	39	1027-005-1200	7	DRC70-BT	30	DT12P-BT	7
0460-220-1231	39	1027-005-1200	14	DRC70-GKT	30	DT12S-BT	7
0462-201-16141	5	1027-005-1200	19	DRCB24	30	DT13-4P	32
0462-201-16141	39	1027-005-1200	21	DRCB40	30	DT15-08PA	32
0462-201-1631	35	1027-008-1200	7	DRCB70	30	DT15-12PA	32
0462-201-1631	36	1027-008-1200	14	DT04-08PA	5	DT15-4P	32
0462-201-1631	39	1060-12-0166	39	DT04-08PA-LO12	10	DT15-6P	32
0462-201-20141	13	1060-12-0222	39	DT04-08PA-PO21	47	DT2	6
0462-201-20141	13	1060-14-0122	39	DT04-08PA-PO26	47	DT2-1	6
0462-201-2031	37	1060-14-0144	39	DT04-08PB-PO21	47	DT2-1B	11
0462-201-2031	39	1060-16-0122	39	DT04-08PB-PO28	47	DT2-1B	11
0462-203-04141	39	1060-20-0122	39	DT04-12-PA	5	DT2-1-CAT	6
0462-203-08141	36	1060-20-0144	37	DT04-12PA-LO12	10	DT2-3	6
0462-203-08141	39	1062-12-0166	39	DT04-12PA-PO21	47	DT2-4-CAT	6
0462-203-12141	19	1062-12-0222	39	DT04-12PA-PO26	47	DT2P-BT	7
0462-203-12141	36	1062-14-0122	39	DT04-12PA-PO30	47	DT2-PM	7
0462-203-12141	39	1062-16-0122	39	DT04-12PA-P075	47	DT2S-BT	7
0462-209-16141	5	1062-16-0144	39	DT04-12PB-PO21	47	DT3	6
0462-209-16141	39	1062-16-0622	39	DT04-12PB-PO26	47	DT3-1	6
0462-209-1631	39	1062-16-1222	39	DT04-12PB-PO26	47	DT3-1B	11
0462-210-1231	39	1062-20-0122	39	DT04-2P	5	DT3-1-CAT	6
1							
1011-026-0205	7	1062-20-0144	37	DT04-2P-LO12	10	DT3-3	6
1011-026-0205	14	1062-20-0144	39	DT04-2P-RT02	48	DT3-4-CAT	6
1011-026-0205	19	112263-90	27	DT04-3P	5	DT3P-BT	7
1011-026-0205	21	112264	27	DT04-3P-E008	35	DT3P-BT-BK	7
						DT3S-BT	7
						DT4	6
						DT4-1	6
						DT4-1B	11
						DT4-1-CAT	6
						DT4-3	6
						DT4-4-CAT	6
						DT4P-BT	7
						DT4S-BT	7



Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
DT6	6	DTM12	13	HDBOX-24-91PN	36	WHDS-18-2	26
DT6-1	6	DTM12-1	13	HDC14-3	23	WHDS-24-1	26
DT6-1B	11	DTM12P-BT	14	HDC14-6	23	WHDS-24-2	26
DT6-1-CAT	6	DTM12S-BT	14	HDC14-9	23	WM12P	13
DT6-3	6	DTM13-12PA-12PB-RO08	33	HDC16-3	23	WM12P	14
DT6-4-CAT	6	DTM13-12PA-RO08	33	HDC16-6	23	WM12S	13
DT6P-BT	7	DTM2	13	HDC16-9	23	WM12S	14
DT6S-BT	7	DTM2-1	13	HDC34-18	27	WM2P	13
DT8	6	DTM2-J1939-KIT	37	HDC34-24	27	WM2P	14
DT8-1	6	DTM2P-BT	14	HDC36-18	27	WM2PB	14
DT8-1B	11	DTM2S-BT	14	HDC36-24	27	WM2S	13
DT8-1-CAT	6	DTM3	13	HDT-04-08	42	WM2S	14
DT8-3	6	DTM3-1	13	HDT-48-00	42	WM2S	37
DT8-4-CAT	6	DTM3P-BT	14	HDT-50-00	42	WM2SB	14
DT8P-BT	7	DTM3S-BT	14			WM2SB	37
DT8S-BT	7	DTM4	13	J		WM3P	13
DTB12P	7	DTM4-1	13			WM3P	14
DTB12S	7	DTM4P-BT	14	JDL082397	23	WM3S	13
DTB2P	7	DTM4S-BT	14			WM3S	14
DTB2S	7	DTM4S-BT	14	W		WM4P	13
DTB3P	7	DTM6	13			WM4P	14
DTB3S	7	DTM6-1	13	W12P	5	WM4S	13
DTB4P	7	DTM6P-BT	14	W12P	6	WM4S	14
DTB4S	7	DTM6S-BT	14	W12S	5	WM6P	13
DTB6P	7	DTM8	13	W12S	6	WM6P	14
DTB6S	7	DTM8-1	13	W12S-PO12	6	WM6S	13
DTB8P	7	DTM8P-BT	14	W2P	5	WM6S	14
DTB8S	7	DTM8S-BT	14	W2P	6	WM8P	13
DTBS	17	DTMKIT-1	17	W2PA	6	WM8P	14
DTBS-1	17	DTPO4-2P	19	W2S	5	WM8S	13
DTHD04-1-12P	21	DTPO4-4P	19	W2S	6	WM8S	14
DTHD04-1-4P	21	DTPO6-2S	19	W2SA	6	WP2P	19
DTHD04-1-8P	21	DTPO6-4S	19	W2S-PO12	6	WP2P	19
DTHD06-1-12S	21	DTP2-1	19	W2S-PO12	36	WP2S	19
DTHD06-1-4S	21	DTP2-4	19	W3P	5	WP2S	19
DTHD06-1-8S	21	DTP4-1	19	W3P	6	WP4P	19
DTHD12-1	21	DTP4-4	19	W3P	35	WP4P	19
DTHD4-1	21			W3P-1939	35	WP4S	19
DTHD8-1	21	E		W3S	5	WP4S	19
DTKIT	15			W3S	6		
DTKIT-1	15	EEC-325X4B	33	W3S	35		
DTKIT-1-CAT	16	EEC-325X4B-E016	33	W3S-1939	35		
DTKIT-2	16			W3S-PO12	6		
DTM04-08PA	13	H		W3S-PO12	35		
DTM04-12-PA	13			W4P	5		
DTM04-2P	13	HD10-3BT	23	W4P	6		
DTM04-2P-PO06	37	HD10-9-1939PE	35	W4S	5		
DTM04-2P-PO07	37	HD10-9-GKT	23	W4S	6		
DTM04-3P	13	HD16-9-1939SE	35	W4S-PO12	6		
DTM04-4P	13	HD18-003	23	W4S-PO12	36		
DTM04-6P	13	HD18-006	23	W6P	5		
DTM06-08SA	13	HD18-009	23	W6P	6		
DTM06-12SA	13	HD30-18-BT	23	W6S	5		
DTM06-2S	13	HD30-18-BT	27	W6S	6		
DTM06-2S-E005	37	HD30-24BT-90-BK	27	W6S-PO12	6		
DTM06-2S-EP10	37	HD30-24BT-BK	27	W8P	5		
DTM06-2S-EP10	48	HDB30-18	23	W8P	6		
DTM06-2S-PO06	37	HDB30-18	27	W8S	5		
DTM06-3S	13	HDB30-24	27	W8S	6		
DTM06-4S	13	HDB36-24-91SN	36	W8S-PO12	6		
DTM06-6S	13	HDB36-24-91SN-059	36	WHDS-18-1	26		

General Information

DC 2015 Version 2.0 - 12/2014

This reference manual supersedes all previous editions.

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All bulk quantities of contacts, blanks & wedges are calculated by weight, a +/- 2% variation accepted.

Warranty Statement

Auto Electrical Imports Pty. Ltd. warrants the replacement only of products for a period of 12 months, unless otherwise stated, from date of purchase against faulty workmanship and material components.

Disassembly or modification of products may void warranty.

Warranty claims may only be returned by prior arrangement.

For a full statement outlining our warranty visit www.ionnic.com/warranty-statement

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