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# HD Series



# HD Series

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HD10 Series **40**



HD30/HDP20 Series **46**

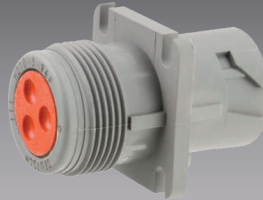
# HD Series

HD10 Series



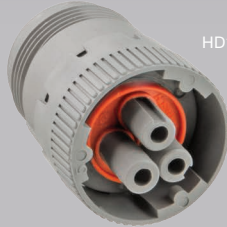
HD16-9-16S

HD10-3-96P



HD14-9-16P

HD16-3-96S



- Environmentally sealed – IP68, IP6K9K, when installed to manufacturer's specifications.
- Cylindrical thermoplastic design.
- Available either in-line or flanged.
- Quick connect/disconnect bayonet coupling.
- Resistant to most fluids in industrial applications.
- Commonly used for diagnostic applications.
- Available in kits containing all components required to make both sides of a connection.

Housing :	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

## Part Numbering System

HD 10 - 9 - 96 P E - B009

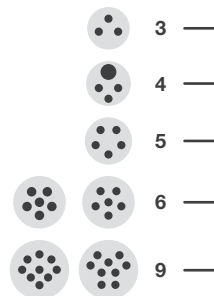
Series Prefix :  
HD Series – **HD**

Connector Style :  
Square Flange Receptacle – **10**

In-line Receptacle – **14**

Plug – **16**

Shell Size / Number of Cavities :



Special Modifications :

- blank** – No modification.
- B009** – No standard keying. No rear thread.
- B010** – Standard coupling ring. Only for HD16-6-12S.

For a complete list of special modifications see page 115–119

Wire Seal Options :

- blank** – Normal. For use with standard insulation wire.
- E** – Extra thin. Designed specifically for Extra thin wall wire.

Contact Type :

- P** – Pins
- S** – Sockets

Insert Arrangement :

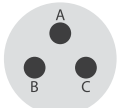
**4, 12, 96, 1939** – Threaded Rear

**16** – Non-Threaded Rear



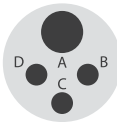
## Shell Size / Number of Cavities

HDXX-3-16/3-96-XX



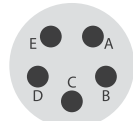
3 x size 16  
E

HDXX-4-4-XX



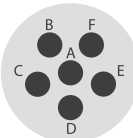
1 x size 4,  
3 x size 16

HDXX-5-16-XX



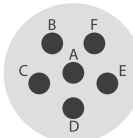
5 x size 16

HDXX-6-12-XX



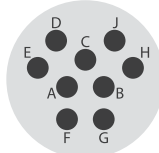
6 x size 12

HDXX-6-96-XX



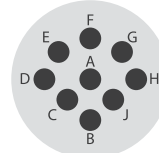
6 x size 16

HDXX-9-16-XX



9 x size 16

HDXX-9-96-XX



9 x size 16

E

For details on contacts & further options see page 98

## Popular HD10 Series Special Modification

**B009**

Raised keying removed from front of receptacle flange.  
No rear thread.



HD10-9-96P-B009  
No raised keying.  
No rear thread.



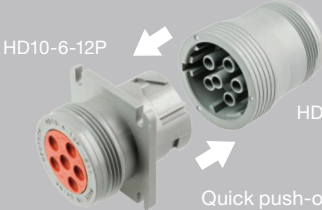
Standard  
HD10-9-96P

**B010** (exclusive to the HD16-6-12S)

The HD16-6-12S does not come with the standard HD10 coupling ring.  
If the standard HD10 coupling ring is required order the HD16-6-12S-B010.

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

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



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

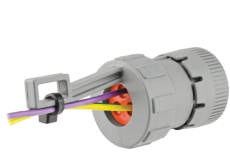
Quick push-on/pull-off.  
No twist action required.

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

For a complete list of special modifications see page 115-119



# HD Series



HD18-003

HD18-006

HD18-009



HDC14-3

HDC14-6

HDC14-9



HDC16-3

HDC16-5

HDC16-6

HDC16-9



HD10-3BT



HD10-9BT



HDB30-18



HD30-18-BT



HD10-9-GKT



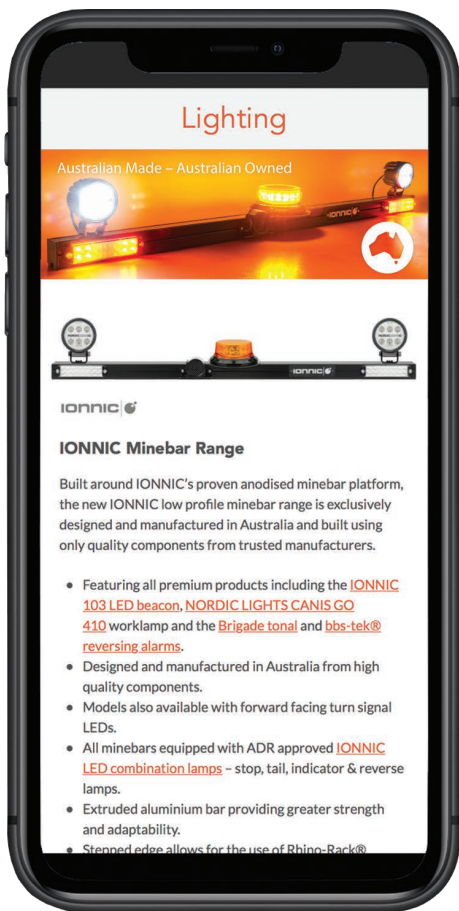
JDL082397

## HD10 Series – Accessories


Part No.	Description	Shell Size	Suits
<b>HD18-003</b>	Strain Relief	3	All HD10 Series
<b>HD18-006</b>	Strain Relief	6	All HD10 Series
<b>HD18-009</b>	Strain Relief	9	All HD10 Series
<b>HDC14-3</b>	Protective Cap	3	Plugs
<b>HDC14-6</b>	Protective Cap	6	Plugs
<b>HDC14-9</b>	Protective Cap	9	Plugs
<b>HDC16-3</b>	Protective Cap	3	Receptacles
<b>HDC16-5</b>	Protective Cap	5	Receptacles
<b>HDC16-6</b>	Protective Cap	6	Receptacles
<b>HDC16-9</b>	Protective Cap	9	Receptacles
<b>HD10-3BT</b>	Insulator – Grey – 80mm	3	All HD10 Series
<b>HD10-9BT</b>	Insulator – Grey – 80mm	9	All HD10 Series
<b>HDB30-18</b>	Insulator – Black – 150mm	6 & 9	All HD10 Series
<b>HD30-18-BT</b>	Insulator – Grey – 80mm	6 & 9	All HD10 Series
<b>HD10-9-GKT</b>	Mounting Gasket	9	Flange Receptacles
<b>JDL082397</b>	Lanyard	9	All HD10 Series & all Protective Caps

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Lighting | Safety | Electrical April 2023

## Safety



**BRIGADE**

### Backsense® Network Radar with OSD Kit

Brigade's Backsense® Network Radar System is the next generation of radar-based obstacle detection. Due to the number of complex blind spots on a vehicle, a single radar cannot always provide the detection required and numerous in-cab displays for multiple radars can be more of a distraction than a benefit.

The Brigade Backsense® Network Radar with OSD Kit allows for the use of 2 Backsense® Network Radar sensors to be combined with any Brigade Backeye® camera system.

Radar detection data is overlaid transparently along the edge of the monitor so as not to obscure the camera image, with the audible warning via the monitor speakers.

- Overlay detection data for up to 2 radar sensors on a single monitor.
- Complies with CAN 2.0A Base Frame Format.
- Detects multiple moving and stationary objects.
- High frequency continuous wave provides increased reliability & low false alarm rates.
- Adjustable detection range up to 30m.
- 3 trigger inputs used for activating components such as alarms and beacons.
- Environmentally sealed sensor – IP69K
- Sensor can be steam & pressure cleaned.
- Multi-voltage.
- 3 year warranty.

## Electrical

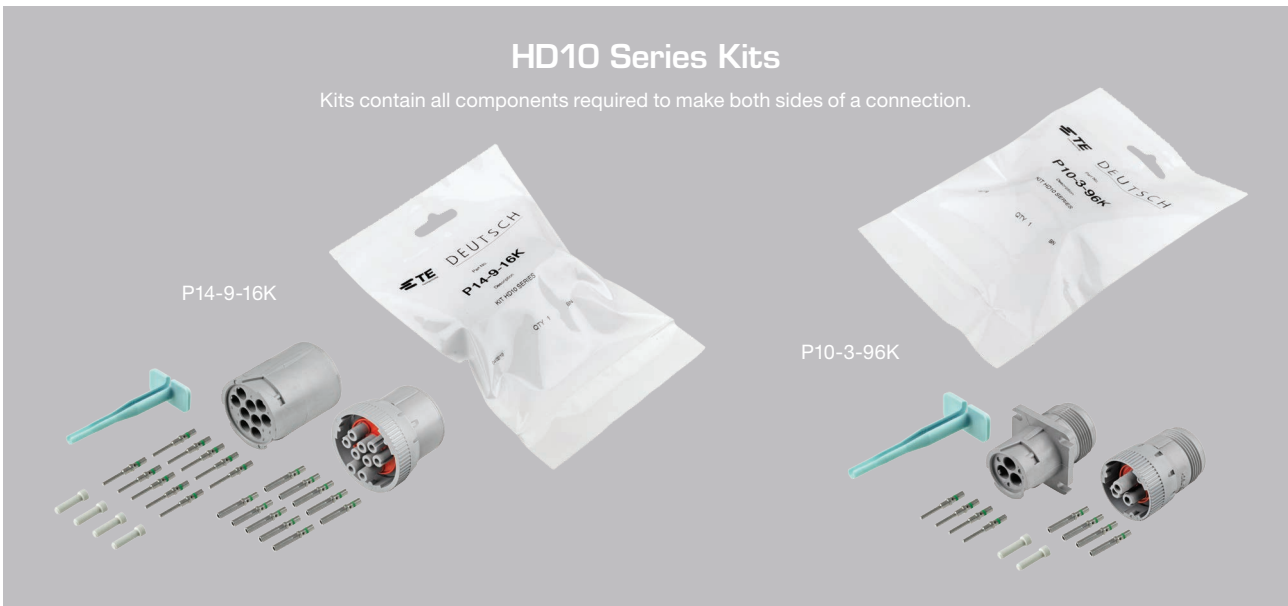


**ionnic** | 

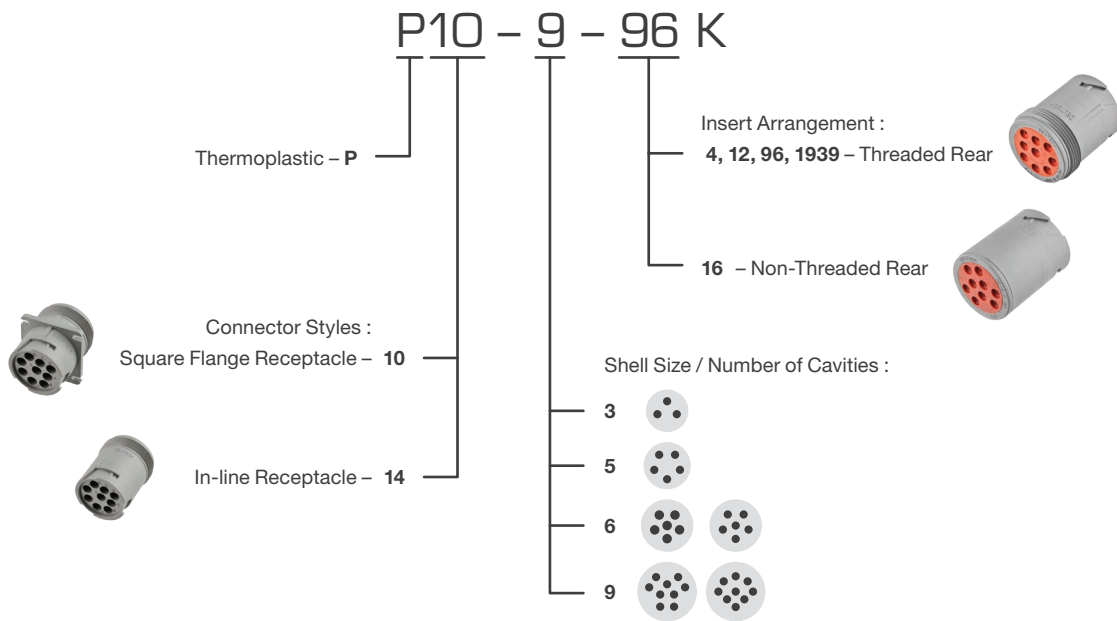
# HD Series

## HD10 Series Kits

Kits contain all components required to make both sides of a connection.



## HD10 Series Kit Numbering System

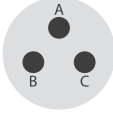
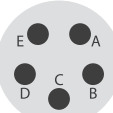
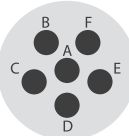
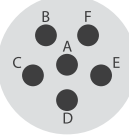
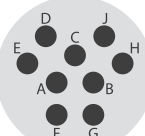
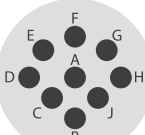


## 1939 Special Modification

The P10-9-1939K kit contains connectors with the 1939 modification, keyed and with a black housing.



## HD10 Series Kits

	Wire Seal	Threaded Rear	Receptacle	Part No.	Kit Contents
 <p><b>3 x size 16</b></p>	Normal	Threaded Rear	Square Flange	<b>P10-3-96K</b>	1 x Receptacle (HD10-3-96P) 1 x Plug (HD16-3-96S) 4 x Pin – Solid (0460-215-16141) 4 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 2 x Cavity Plug (114017)
		Threaded Rear	In-line	<b>P14-3-96K</b>	1 x Receptacle (HD14-3-96P) 1 x Plug (HD16-3-96S) 4 x Pin – Solid (0460-215-16141) 4 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 2 x Cavity Plug (114017)
 <p><b>5 x size 16</b></p>	Normal	Non-Threaded Rear	Square Flange	<b>P10-5-16K</b>	1 x Receptacle (HD10-5-16P) 1 x Plug (HD16-5-16S) 6 x Pin – Solid (0460-215-16141) 6 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 4 x Cavity Plug (114017)
			In-line	<b>P14-5-16K</b>	1 x Receptacle (HD14-5-16P) 1 x Plug (HD16-5-16S) 6 x Pin – Solid (0460-215-16141) 6 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 4 x Cavity Plug (114017)
 <p><b>6 x size 12</b></p>	Normal	Threaded Rear	Square Flange	<b>P10-6-12K</b>	1 x Receptacle (HD10-6-12P) 1 x Plug (HD16-6-12S) 7 x Pin – Solid (0460-204-12141) 7 x Socket – Solid (0462-203-12141) 1 x Removal Tool (114010) 4 x Cavity Plug (114017)
 <p><b>6 x size 16</b></p>	Normal	Threaded Rear	Square Flange	<b>P10-6-96K</b>	1 x Receptacle (HD10-6-96P) 1 x Plug (HD16-6-96S) 7 x Pin – Solid (0460-215-16141) 7 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 4 x Cavity Plug (114017)
 <p><b>9 x size 16</b></p>	Normal	Non-Threaded Rear	Square Flange	<b>P10-9-16K</b>	1 x Receptacle (HD10-9-16P) 1 x Plug (HD16-9-16S) 10 x Pin – Solid (0460-215-16141) 10 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 4 x Cavity Plug (114017)
			In-line	<b>P14-9-16K</b>	1 x Receptacle (HD14-9-16P) 1 x Plug (HD16-9-16S) 10 x Pin – Solid (0460-215-16141) 10 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 4 x Cavity Plug (114017)
 <p><b>9 x size 16</b></p>	Normal	Threaded Rear	Square Flange	<b>P10-9-96K</b>	1 x Receptacle (HD10-9-96P) 1 x Plug (HD16-9-96S) 10 x Pin – Solid (0460-215-16141) 10 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 4 x Cavity Plug (114017)
			In-line	<b>P14-9-96K</b>	1 x Receptacle (HD14-9-96P) 1 x Plug (HD16-9-96S) 10 x Pin – Solid (0460-215-16141) 10 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 4 x Cavity Plug (114017)
	Extra Thin	Threaded Rear	Square Flange	<b>P10-9-1939K</b>	1 x Receptacle (HD10-9-1939PE) 1 x Plug (HD16-9-1939SE) 10 x Pin – Solid (0460-215-16141) 10 x Socket – Solid (0462-209-16141) 1 x Removal Tool (0411-310-1605) 4 x Cavity Plug (114017)



# HD Series

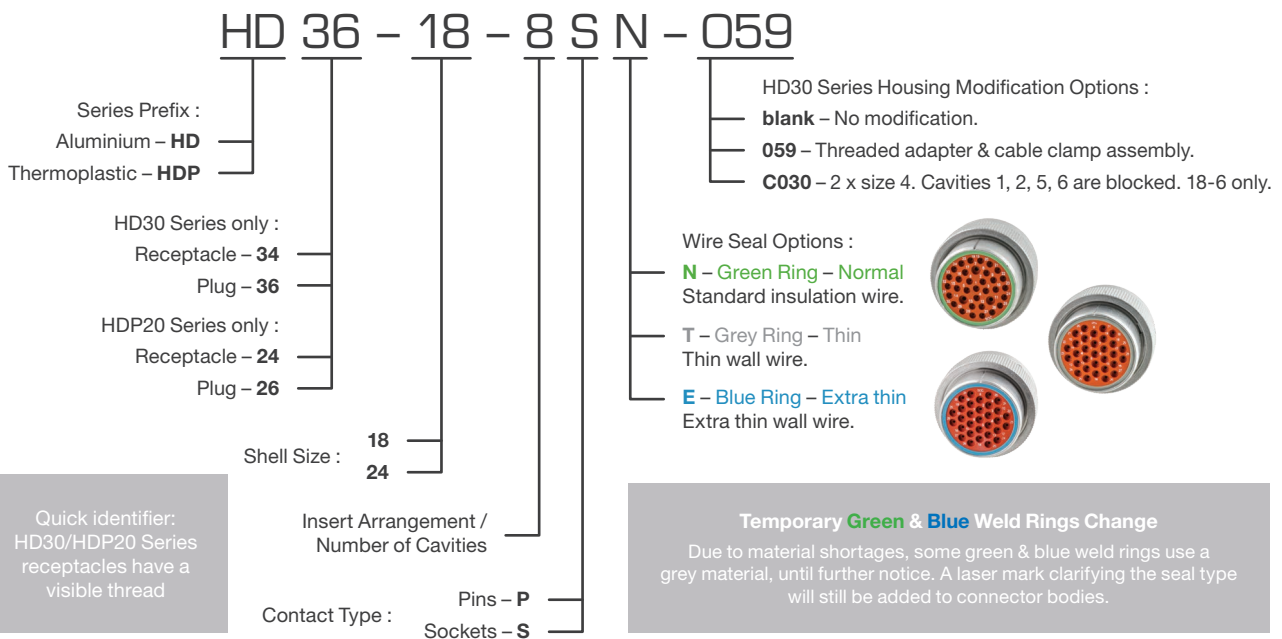
HD30/HDP20 Series



- Environmentally sealed – IP67, when installed to manufacturer’s specifications.
- Designed specifically for the truck, bus, mining and construction industry.
- Available in aluminium (HD30) or thermoplastic housings (HDP20).
- Multiple pin configurations that accept contact sizes 4 through 20.
- Quick connect/disconnect bayonet coupling.
- HD30 and HDP20 series are cross compatible.
- Resistant to most fluids in industrial applications.
- Available in kits containing all components required to make one side of a connection.

Housing :	HD30	Aluminium
	HDP20	Thermoplastic
Seal :		Silicone Rubber
Shock :		50G
Vibration :		20G rms 10 – 2000Hz
Approvals :	20mm Flame Test per Standard UL-94	
Ingress Protection :		IP67
Operating Temperature :		-55°C to 125°C

## Part Numbering System



Quick identifier: HD30/HDP20 Series receptacles have a visible thread

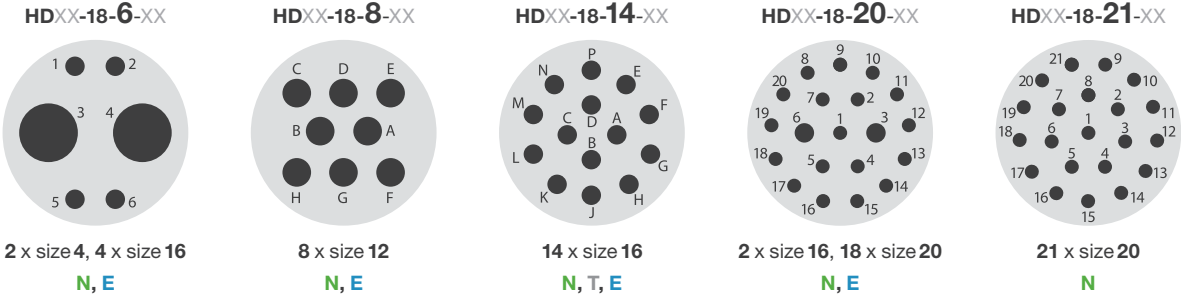
**Temporary Green & Blue Weld Rings Change**  
 Due to material shortages, some green & blue weld rings use a grey material, until further notice. A laser mark clarifying the seal type will still be added to connector bodies.

## Recommended Wire Insulation O.D.

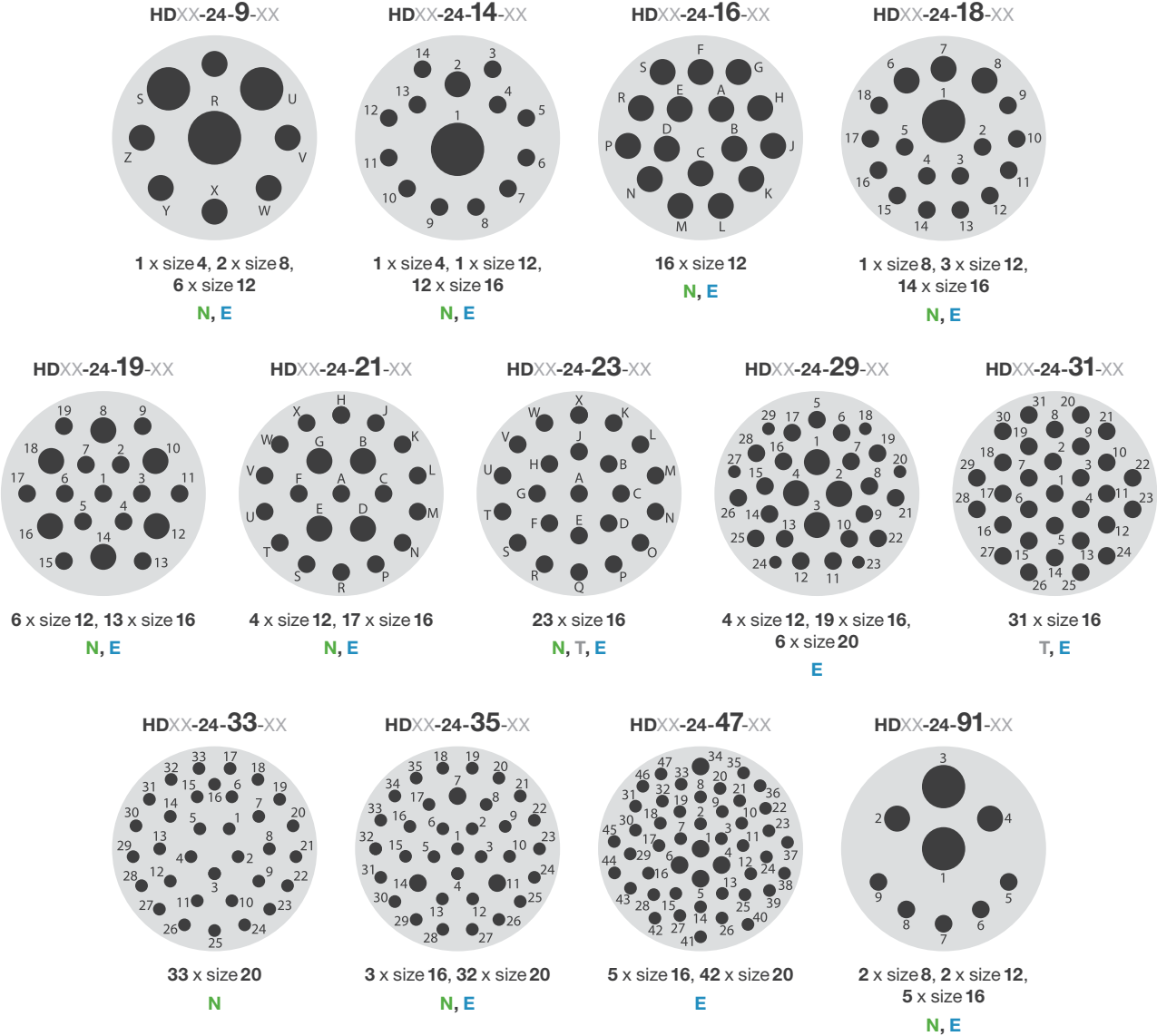
Undersized wire insulation is a major cause of contaminant ingress.

Contact Size	N – Normal Seal – Green Ring		T – Thin Seal – Grey 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

## Shell Size 18 Arrangements



## Shell Size 24 Arrangements



For complete details on contacts & further options see page 98



# HD Series

## Popular HD30 Series Special Modifications

HD34-18-8SN-XXX



Standard – no modification

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)

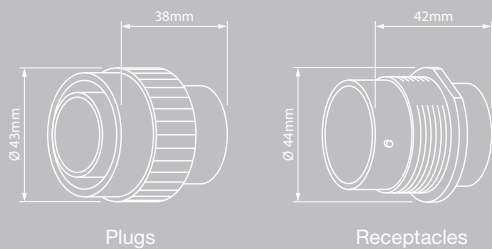
For a complete list of special modifications see page 115-119

## HD30/HDP20 Series Dimensions

HDXXX-XX-8SN

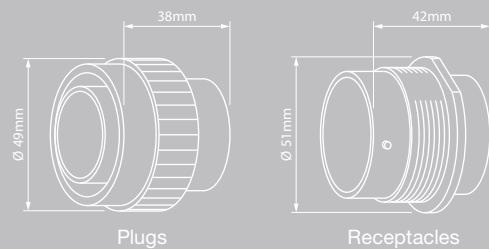
18 – Shell Size

24 – Shell Size



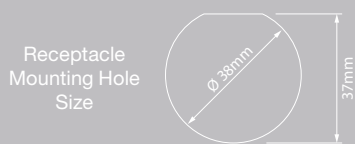
Plugs

Receptacles



Plugs

Receptacles



Receptacle Mounting Hole Size



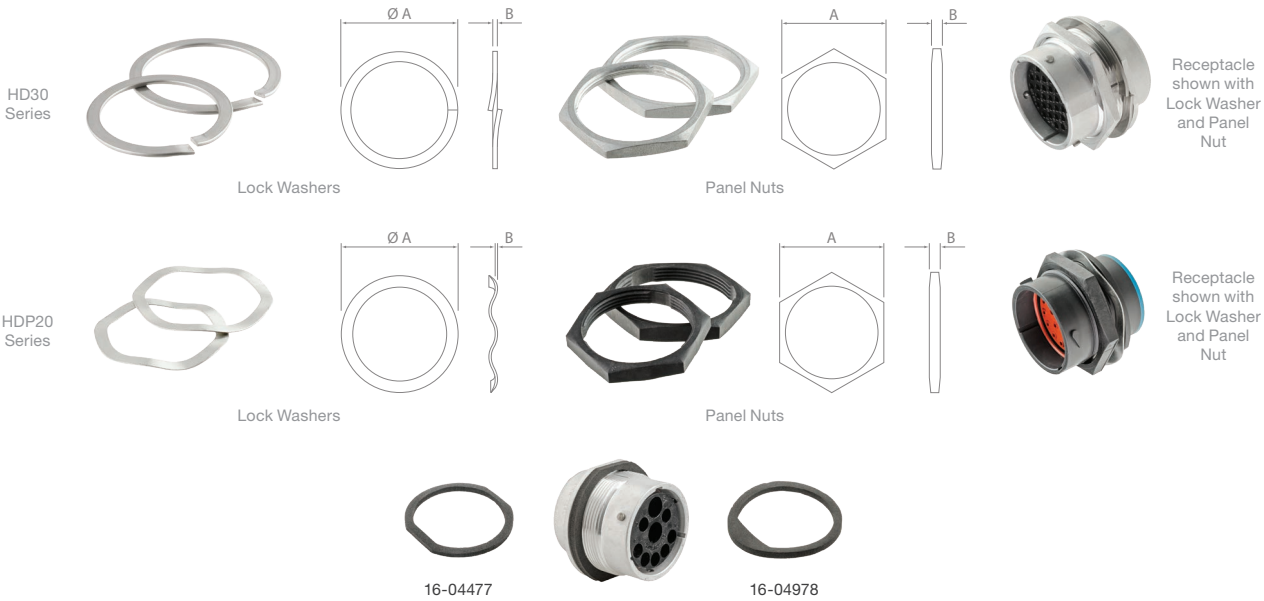
Receptacle Mounting Hole Size

## Temporary Material Change

Due to material shortages, some HD30/HDP20 series connectors will use a black material instead of the orange for the pin front component, until further notice.

UL re-certification on the connectors is in process.





## HD30/HDP20 Series – Washers, Nuts & Gaskets

Part No.	Description	Shell Size	Suits	A (mm)	B (mm)
114021	Lock Washer	18	HD30 Series	47.90	1.57
112264	Lock Washer	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	Lock Washer – Wave	18	HDP20 Series	47.90	0.51
2414-001-2486	Lock Washer – Wave	24	HDP20 Series	52.68	0.51
2411-002-1805	Panel Nut – Thermoplastic	18	HDP20 Series	42.80	6.35
2411-001-2405	Panel Nut – Thermoplastic	24	HDP20 Series	47.63	6.35
16-04978	Mounting Gasket – Neoprene	18	HD30/HDP20 Series – Receptacles		
16-04477	Mounting Gasket – Neoprene	24	HD30/HDP20 Series – Receptacles		

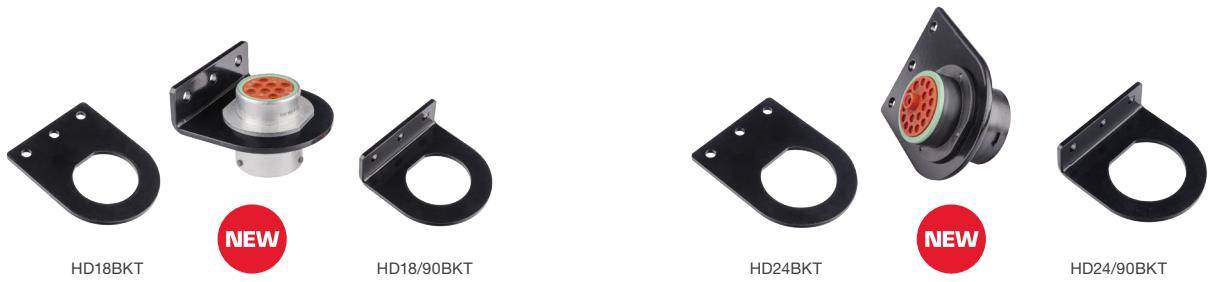


## HD30/HDP20 Series – Protective Caps

Part No.	Material	Shell Size	Suits
HDC26-18	Thermoplastic	18	HDP20 Series – Receptacles
HDC26-24	Thermoplastic	24	HDP20 Series – Receptacles
HDC34-18	Aluminium	18	HD30 Series – Plugs
HDC34-24	Aluminium	24	HD30 Series – Plugs
HDC36-18	Aluminium	18	HD30 Series – Receptacles
HDC36-24	Aluminium	24	HD30 Series – Receptacles

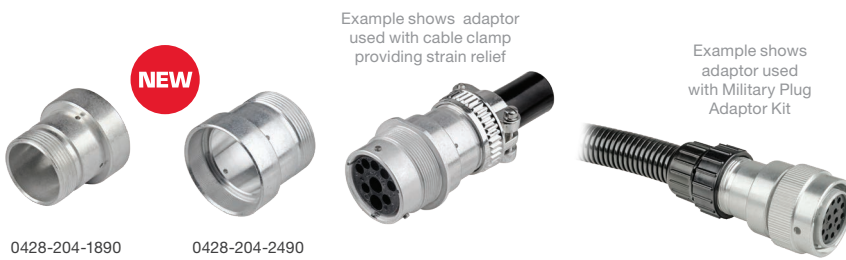


# HD Series



## HD30/HDP20 Series – Mounting Brackets NEW

Part No.	Mounting	Shell Size
<b>HD18BKT</b>	Flat	18
<b>HD18/90BKT</b>	90°	18
<b>HD24BKT</b>	Flat	24
<b>HD24/90BKT</b>	90°	24



Attaches to rear of an HD30 Series plug or receptacle providing a thread.

Used to adapt HD30 Series connectors to Cable Clamps (0409-201-1800 & 0409-201-2400) or Schlemmer Military Plug Adaptor Kits (SF04 & SF05).

Press-fit application. Requires press.

## HD30 Series – Adaptors NEW

Part No.	Shell Size
<b>0428-204-1890</b>	18
<b>0428-204-2490</b>	24



## HD30/HDP20 Series – Strain Relief

Part No.	Description	Orientation	Shell Size
<b>0409-201-1800</b>	Cable Clamp	Straight	18
<b>0409-201-2400</b>	Cable Clamp	Straight	24
<b>WHDS-18-1</b>	Backshell	Straight	18
<b>WHDS-24-1</b>	Backshell	Straight	24
<b>WHDS-18-2</b>	Backshell	90°	18
<b>WHDS-24-2</b>	Backshell	90°	24



## HD30/HDP20 Series – Insulators/Boots

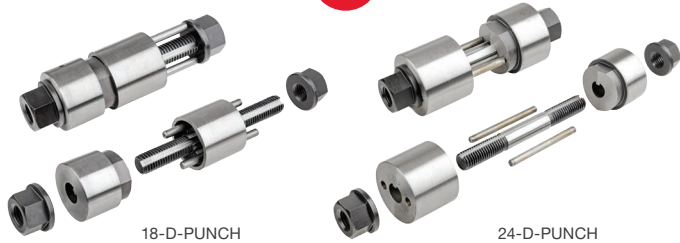
Part No.	Description	Shell Size
<b>HD30-18-BT</b>	Grey – 80mm	18
<b>HDB30-18</b>	Black – 150mm	18
<b>HD30-24BT-BK</b>	Black – 80mm	24
<b>HDB30-24</b>	Black – 120mm	24
<b>HD30-24BT-90-BK</b>	Black – 80mm – 90°	24

The D hole punch is a hand tool used to cut D shaped holes into steel, aluminium, plastic and other material. The D shaped hole allows the connector to be securely mounted and helps prevent the connector from spinning.

- **Punchable Material:** Up to 1.98mm mild steel or aluminium. Up to 4.76mm plastic, wood, paneling, or other soft material.
- **Tool Material:** A2 material heat treated to a Rockwell hardness of 60 to 62.
- **Tool Size:** (approx. dimensions) L140mm x H50mm x D50mm
- **Sharpening:** The tool can be sharpened as needed.
- **Usability:** A 15.87mm minimum pilot hole is required to accommodate the draw stud. Air tools can be used.



**NEW**



## HD30/HDP20 Series – D Hole Punch NEW

Part No.	Shell Size
<b>18-D-PUNCH</b>	18
<b>24-D-PUNCH</b>	24



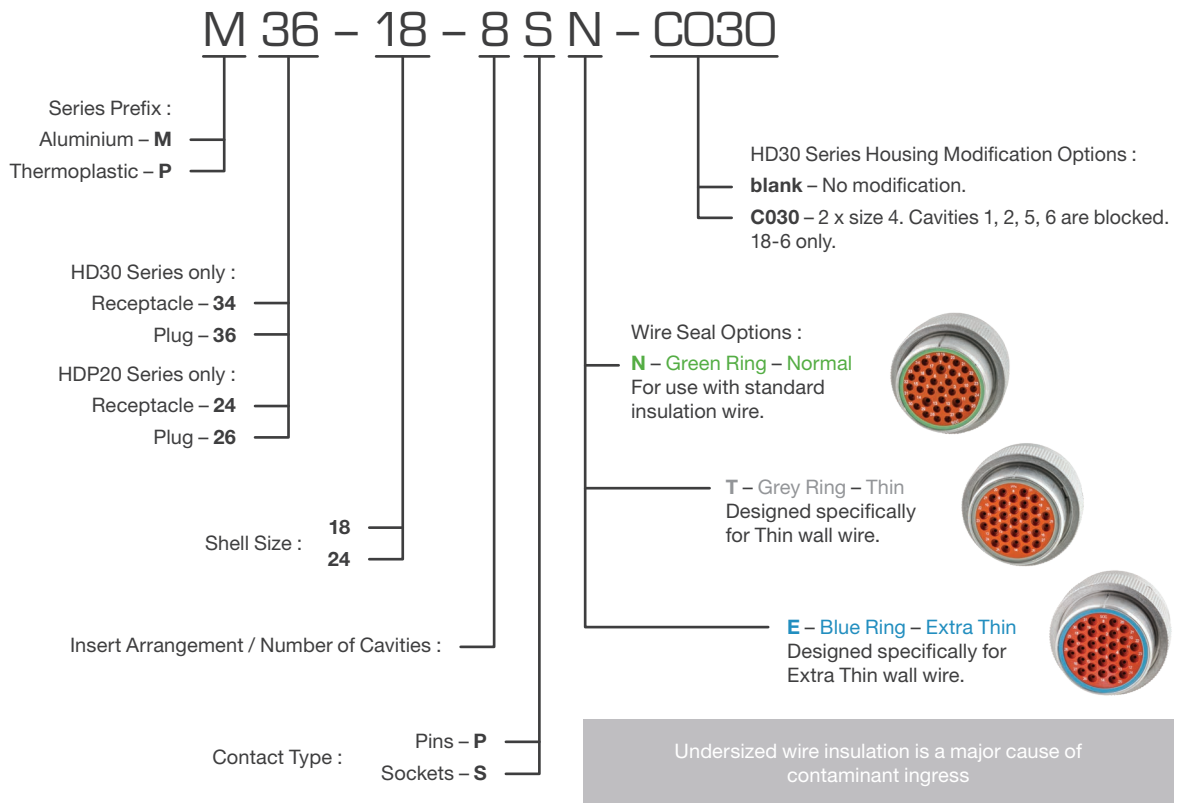
# HD Series

## HD30/HDP20 Series Half Kits

Kits contain all components required to make one side of a connection.

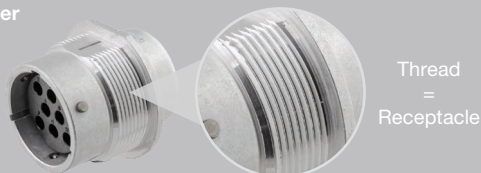


### HD30/HDP20 Half Kit Numbering System



#### Quick Receptacle Identifier

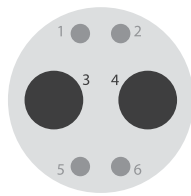
You can quickly determine if a HD30/HDP20 Series connector is a receptacle or plug by checking for visible threads.



#### Temporary Green & Blue Weld Rings Change

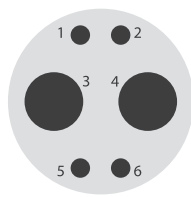
Due to material shortages, some green & blue weld rings use a grey material, until further notice. A laser mark clarifying the seal type will still be added to connector bodies.

## HD30/HDP20 Half Kits – Shell Size 18 – 6 Cavities



2 x size 4  
4 x size 16  
Cavities 1, 2, 5, 6 are blocked

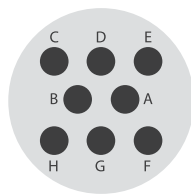
Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	<b>M34-18-6PN-C030</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HD34-18-6PN-C030)</li> <li>1 x Removal Tool (114009)</li> <li>2 x Pin – Solid (0460-204-0490)</li> <li>1 x Panel Nut (114020-90)</li> <li>1 x Lock Washer (114021)</li> </ul>
Aluminium Plug	Green Ring (Normal)	<b>M36-18-6SN-C030</b>	<ul style="list-style-type: none"> <li>1 x Plug (HD36-18-6SN-C030)</li> <li>1 x Removal Tool (114009)</li> <li>2 x Socket – Solid (0462-203-04141)</li> </ul>



2 x size 4  
4 x size 16

Thermoplastic Receptacle	Green Ring (Normal)	<b>P24-18-6PN</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HDP24-18-6PN)</li> <li>1 x Removal Tool (114009)</li> <li>1 x Removal Tool (0411-310-1605)</li> <li>2 x Pin – Solid (0460-204-0490)</li> <li>4 x Pin – Solid (0460-215-16141)</li> <li>1 x Panel Nut (2411-002-1805)</li> <li>1 x Lock Washer (2414-002-1886)</li> </ul>
Thermoplastic Plug	Green Ring (Normal)	<b>P26-18-6SN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HDP26-18-6SN)</li> <li>1 x Removal Tool (114009)</li> <li>1 x Removal Tool (0411-310-1605)</li> <li>2 x Socket – Solid (0462-203-04141)</li> <li>4 x Socket – Solid (0462-209-16141)</li> </ul>

## HD30/HDP20 Half Kits – Shell Size 18 – 8 Cavities



8 x size 12

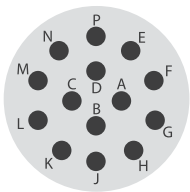
Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	<b>M34-18-8PN</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HD34-18-8PN)</li> <li>1 x Removal Tool (114010)</li> <li>9 x Pin – Solid (0460-204-12141)</li> <li>2 x Cavity Plug (114017)</li> <li>1 x Panel Nut (114020-90)</li> <li>1 x Lock Washer (114021)</li> </ul>
Aluminium Plug	Green Ring (Normal)	<b>M36-18-8SN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HD36-18-8SN)</li> <li>1 x Removal Tool (114010)</li> <li>9 x Socket – Solid (0462-203-12141)</li> <li>2 x Cavity Plug (114017)</li> </ul>
Aluminium Receptacle	Green Ring (Normal)	<b>M34-18-8SN</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HD34-18-8SN)</li> <li>1 x Removal Tool (114010)</li> <li>9 x Socket – Solid (0462-203-12141)</li> <li>2 x Cavity Plug (114017)</li> <li>1 x Panel Nut (114020-90)</li> <li>1 x Lock Washer (114021)</li> </ul>
Aluminium Plug	Green Ring (Normal)	<b>M36-18-8PN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HD36-18-8PN)</li> <li>1 x Removal Tool (114010)</li> <li>9 x Pin – Solid (0460-204-12141)</li> <li>2 x Cavity Plug (114017)</li> </ul>
Thermoplastic Receptacle	Green Ring (Normal)	<b>P24-18-8PN</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HDP24-18-8PN)</li> <li>1 x Removal Tool (114010)</li> <li>10 x Pin – Solid (0460-204-12141)</li> <li>2 x Cavity Plug (114017)</li> <li>1 x Panel Nut (2411-002-1805)</li> <li>1 x Lock Washer (2414-002-1886)</li> </ul>
Thermoplastic Plug	Green Ring (Normal)	<b>P26-18-8SN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HDP26-18-8SN)</li> <li>1 x Removal Tool (114010)</li> <li>10 x Socket – Solid (0462-203-12141)</li> <li>2 x Cavity Plug (114017)</li> </ul>
Thermoplastic Receptacle	Green Ring (Normal)	<b>P24-18-8SN</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HDP24-18-8PN)</li> <li>1 x Removal Tool (114010)</li> <li>10 x Socket – Solid (0462-203-12141)</li> <li>2 x Cavity Plug (114017)</li> <li>1 x Panel Nut (2411-002-1805)</li> <li>1 x Lock Washer (2414-002-1886)</li> </ul>
Thermoplastic Plug	Green Ring (Normal)	<b>P26-18-8PN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HDP26-18-8SN)</li> <li>1 x Removal Tool (114010)</li> <li>10 x Pin – Solid (0460-204-12141)</li> <li>2 x Cavity Plug (114017)</li> </ul>



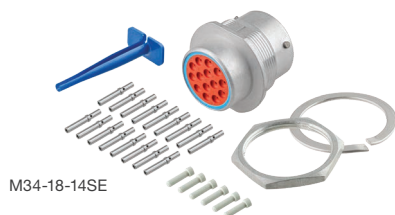
# HD Series

## HD30/HDP20 Half Kits – Shell Size 18 – 14 Cavities

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	M34-18-14PN	1 x Receptacle (HD34-18-14PN) 1 x Removal Tool (0411-310-1605) 17 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (114020-90) 1 x Lock Washer (114021)
Aluminium Plug	Green Ring (Normal)	M36-18-14SN	1 x Plug (HD36-18-14SN) 1 x Removal Tool (0411-310-1605) 17 x Socket – Solid (0462-209-16141) 3 x Cavity Plug (114017)
Aluminium Receptacle	Blue Ring (Extra thin)	M34-18-14SE	1 x Receptacle (HD34-18-14SE) 1 x Removal Tool (0411-204-1605) 17 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (114020-90) 1 x Lock Washer (114021)
Aluminium Plug	Blue Ring (Extra thin)	M36-18-14PE	1 x Plug (HD36-18-14PE) 1 x Removal Tool (0411-204-1605) 17 x Pin – Solid (0460-202-16141) 3 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	M34-18-14SN	1 x Receptacle (HD34-18-14SN) 1 x Removal Tool (0411-310-1605) 17 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (114020-90) 1 x Lock Washer (114021)
Aluminium Plug	Green Ring (Normal)	M36-18-14PN	1 x Plug (HD36-18-14PN) 1 x Removal Tool (0411-310-1605) 17 x Pin – Solid (0460-215-16141) 3 x Cavity Plug (114017)
Thermoplastic Receptacle	Blue Ring (Extra thin)	P24-18-14PE	1 x Receptacle (HDP24-18-14PE) 1 x Removal Tool (0411-204-1605) 17 x Pin – Solid (0460-202-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-002-1805) 1 x Lock Washer (2414-002-1886)
Thermoplastic Plug	Blue Ring (Extra thin)	P26-18-14SE	1 x Plug (HDP26-18-14SE) 1 x Removal Tool (0411-204-1605) 17 x Socket – Solid (0462-201-16141) 6 x Cavity Plug (114017)
Thermoplastic Receptacle	Green Ring (Normal)	P24-18-14PN	1 x Receptacle (HDP24-18-14PN) 1 x Removal Tool (0411-310-1605) 17 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-002-1805) 1 x Lock Washer (2414-002-1886)
Thermoplastic Plug	Green Ring (Normal)	P26-18-14SN	1 x Plug (HDP26-18-14SN) 1 x Removal Tool (0411-310-1605) 17 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017)
Thermoplastic Receptacle	Green Ring (Normal)	P24-18-14SN	1 x Receptacle (HDP24-18-14SN) 1 x Removal Tool (0411-310-1605) 17 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-002-1805) 1 x Lock Washer (2414-002-1886)
Thermoplastic Plug	Green Ring (Normal)	P26-18-14PN	1 x Plug (HDP26-18-14PN) 1 x Removal Tool (0411-310-1605) 17 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017)



14 x size 16

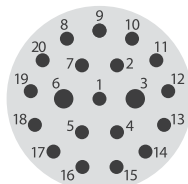


M34-18-14SE



P24-18-14SN

## HD30/HDP20 Half Kits – Shell Size 18 – 20 Cavities

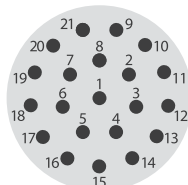


2 x size 16  
18 x size 20

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	<b>M34-18-20SN</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HD34-18-20SN)</li> <li>1 x Removal Tool (0411-310-1605)</li> <li>1 x Removal Tool (0411-240-2005)</li> <li>21 x Socket – Solid (0462-201-20141)</li> <li>3 x Socket – Solid (0462-209-16141)</li> <li>1 x Cavity Plug (114017)</li> <li>6 x Cavity Plug (0413-204-2005)</li> <li>1 x Panel Nut (114020-90)</li> <li>1 x Lock Washer (114021)</li> </ul>
Aluminium Plug	Green Ring (Normal)	<b>M36-18-20PN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HD36-18-20PN)</li> <li>1 x Removal Tool (0411-240-2005)</li> <li>1 x Removal Tool (0411-310-1605)</li> <li>3 x Pin – Solid (0460-215-16141)</li> <li>21 x Pin – Solid (0460-202-20141)</li> <li>1 x Cavity Plug (114017)</li> <li>6 x Cavity Plug (0413-204-2005)</li> </ul>



## HD30/HDP20 Half Kits – Shell Size 18 – 21 Cavities



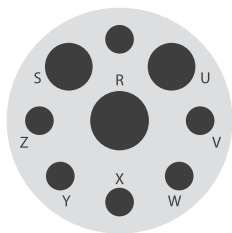
21 x size 20

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	<b>M34-18-21PN</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HD34-18-21PN)</li> <li>1 x Removal Tool (0411-240-2005)</li> <li>24 x Pin – Solid (0460-202-20141)</li> <li>6 x Cavity Plug (114017)</li> <li>1 x Panel Nut (114020-90)</li> <li>1 x Lock Washer (114021)</li> </ul>
Aluminium Plug	Green Ring (Normal)	<b>M36-18-21SN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HD36-18-21SN)</li> <li>1 x Removal Tool (0411-240-2005)</li> <li>24 x Socket – Solid (0462-201-20141)</li> <li>6 x Cavity Plug (0413-204-2005)</li> </ul>
Aluminium Receptacle	Green Ring (Normal)	<b>M34-18-21SN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HD36-18-21SN)</li> <li>1 x Removal Tool (0411-240-2005)</li> <li>25 x Socket – Solid (0462-201-20141)</li> <li>6 x Cavity Plug (0413-204-2005)</li> <li>1 x Panel Nut (114020-90)</li> <li>1 x Lock Washer (114021)</li> </ul>
Aluminium Plug	Green Ring (Normal)	<b>M36-18-21PN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HD36-18-21PN)</li> <li>1 x Removal Tool (0411-240-2005)</li> <li>25 x Pin – Solid (0460-202-20141)</li> <li>6 x Cavity Plug (0413-204-2005)</li> </ul>
Thermoplastic Receptacle	Green Ring (Normal)	<b>P24-18-21PN</b>	<ul style="list-style-type: none"> <li>1 x Receptacle (HDP24-18-21PN)</li> <li>1 x Removal Tool (0411-240-2005)</li> <li>24 x Pin – Solid (0460-202-20141)</li> <li>6 x Cavity Plug (0413-204-2005)</li> <li>1 x Panel Nut (2411-002-1805)</li> <li>1 x Lock Washer (2414-002-1886)</li> </ul>
Thermoplastic Plug	Green Ring (Normal)	<b>P26-18-21SN</b>	<ul style="list-style-type: none"> <li>1 x Plug (HDP26-18-21SN)</li> <li>1 x Removal Tool (0411-240-2005)</li> <li>25 x Socket – Solid (0462-201-20141)</li> <li>6 x Cavity Plug (0413-204-2005)</li> </ul>



# HD Series

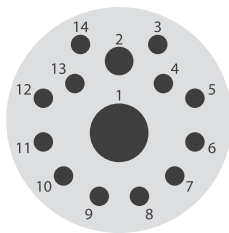
## HD30/HDP20 Half Kits – Shell Size 24 – 9 Cavities



1 x size 4  
2 x size 8  
6 x size 12

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	M34-24-9PN	1 x Receptacle (HD34-24-9PN) 1 x Removal Tool (114010) 1 x Removal Tool (114009) 1 x Removal Tool (114008) 7 x Pin – Solid (0460-204-12141) 3 x Pin – Solid (0460-204-08141) 1 x Pin – Solid (0460-204-0490) 1 x Cavity Plug (114019) 1 x Cavity Plug (114018) 3 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	M36-24-9SN	1 x Plug (HD36-24-9SN) 1 x Removal Tool (114010) 1 x Removal Tool (114009) 1 x Removal Tool (114008) 7 x Socket – Solid (0462-203-12141) 3 x Socket – Solid (0462-203-08141) 1 x Socket – Solid (0462-203-04141) 1 x Cavity Plug (114019) 1 x Cavity Plug (114018) 3 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	M34-24-9SN	1 x Receptacle (HD34-24-9SN) 1 x Removal Tool (114010) 1 x Removal Tool (114009) 1 x Removal Tool (114008) 7 x Socket – Solid (0462-203-12141) 3 x Socket – Solid (0462-203-08141) 1 x Socket – Solid (0462-203-04141) 1 x Cavity Plug (114019) 1 x Cavity Plug (114018) 3 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	M36-24-9PN	1 x Plug (HD36-24-9PN) 1 x Removal Tool (114010) 1 x Removal Tool (114009) 1 x Removal Tool (114008) 7 x Pin – Solid (0460-204-12141) 3 x Pin – Solid (0460-204-08141) 1 x Pin – Solid (0460-204-0490) 1 x Cavity Plug (114019) 1 x Cavity Plug (114018) 3 x Cavity Plug (114017)
Thermoplastic Receptacle	Green Ring (Normal)	P24-24-9PN	1 x Receptacle (HDP24-24-9PN) 1 x Removal Tool (114008) 1 x Removal Tool (114009) 1 x Removal Tool (114010) 1 x Pin – Solid (0460-204-0490) 2 x Pin – Solid (0460-204-08141) 7 x Pin – Solid (0460-204-12141) 3 x Cavity Plug (114017) 1 x Cavity Plug (114018) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Green Ring (Normal)	P26-24-9SN	1 x Plug (HDP26-24-9SN) 1 x Removal Tool (114008) 1 x Removal Tool (114009) 1 x Removal Tool (114010) 7 x Socket – Solid (0462-203-12141) 1 x Socket – Solid (0462-203-04141) 2 x Socket – Solid (0462-203-08141) 2 x Cavity Plug (114017) 1 x Cavity Plug (114018)
Thermoplastic Receptacle	Green Ring (Normal)	P24-24-9SN	1 x Receptacle (HDP24-24-9SN) 1 x Removal Tool (114008) 1 x Removal Tool (114009) 1 x Removal Tool (114010) 7 x Socket – Solid (0462-203-12141) 1 x Socket – Solid (0462-203-04141) 2 x Socket – Solid (0462-203-08141) 3 x Cavity Plug (114017) 1 x Cavity Plug (114018) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Green Ring (Normal)	P26-24-9PN	1 x Plug (HDP26-24-9PN) 1 x Removal Tool (114008) 1 x Removal Tool (114009) 1 x Removal Tool (114010) 1 x Pin – Solid (0460-204-0490) 2 x Pin – Solid (0460-204-08141) 7 x Pin – Solid (0460-204-12141) 3 x Cavity Plug (114017) 1 x Cavity Plug (114018)

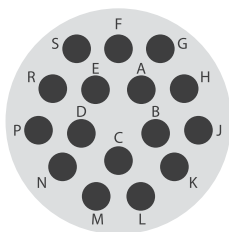
## HD30/HDP20 Half Kits – Shell Size 24 – 14 Cavities



1 x size 4  
1 x size 12  
12 x size 16

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	<b>M34-24-14PN</b>	1 x Receptacle (HD34-24-14PN) 1 x Removal Tool (114010) 1 x Removal Tool (114009) 1 x Removal Tool (0411-310-1605) 15 x Pin – Solid (0460-215-16141) 2 x Pin – Solid (0460-204-12141) 1 x Pin – Solid (0460-204-0490) 5 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	<b>M36-24-14SN</b>	1 x Plug (HD36-24-14SN) 1 x Removal Tool (114010) 1 x Removal Tool (114009) 1 x Removal Tool (0411-310-1605) 15 x Socket – Solid (0462-209-16141) 2 x Socket – Solid (0462-203-12141) 2 x Socket – Solid (0462-203-04141) 5 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	<b>M34-24-14SN</b>	1 x Receptacle (HD34-24-14SN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114010) 1 x Removal Tool (114009) 1 x Socket – Solid (0462-203-04141) 2 x Socket – Solid (0462-203-12141) 15 x Socket – Solid (0462-209-16141) 5 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	<b>M36-24-14PN</b>	1 x Plug (HD36-24-14PN) 1 x Removal Tool (114010) 1 x Removal Tool (114009) 1 x Removal Tool (0411-310-1605) 15 x Pin – Solid (0460-215-16141) 2 x Pin – Solid (0460-204-12141) 1 x Pin – Solid (0460-204-0490) 5 x Cavity Plug (114017)

## HD30/HDP20 Half Kits – Shell Size 24 – 16 Cavities



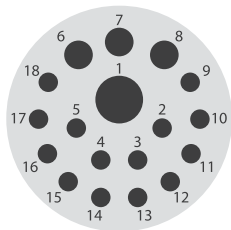
16 x size 12

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	<b>M34-24-16PN</b>	1 x Receptacle (HD34-24-16PN) 1 x Removal Tool (114010) 19 x Pin – Solid (0460-204-12141) 5 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	<b>M36-24-16SN</b>	1 x Plug (HD36-24-16SN) 1 x Removal Tool (114010) 19 x Socket – Solid (0462-203-12141) 5 x Cavity Plug (114017)
Aluminium Plug	Green Ring (Normal)	<b>M36-24-16PN</b>	1 x Plug (HD36-24-16PN) 1 x Removal Tool (114010) 19 x Pin – Solid (0460-204-12141) 5 x Cavity Plug (114017)
Thermoplastic Receptacle	Green Ring (Normal)	<b>P24-24-16PN</b>	1 x Receptacle (HDP24-24-16PN) 1 x Removal Tool (114010) 19 x Pin – Solid (0460-204-12141) 5 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Green Ring (Normal)	<b>P26-24-16SN</b>	1 x Plug (HDP26-24-16SN) 1 x Removal Tool (114010) 19 x Socket – Solid (0462-203-12141) 5 x Cavity Plug (114017)



# HD Series

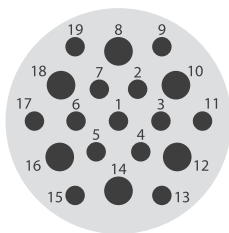
## HD30/HDP20 Half Kits – Shell Size 24 – 18 Cavities



1 x size 8  
3 x size 12  
14 x size 16

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	M34-24-18PN	1 x Receptacle (HD34-24-18PN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114008) 1 x Removal Tool (114010) 2 x Pin – Solid (0460-204-08141) 4 x Pin – Solid (0460-204-12141) 17 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	M36-24-18SN	1 x Plug (HD36-24-18SN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114008) 1 x Removal Tool (114010) 2 x Socket – Solid (0462-203-08141) 4 x Socket – Solid (0462-203-12141) 17 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017)
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-18SE	1 x Receptacle (HD34-24-18SE) 1 x Removal Tool (0411-337-1205) 1 x Removal Tool (114008) 1 x Removal Tool (0411-204-1605) 2 x Socket – Solid (0462-203-08141) 4 x Socket – Solid (0462-203-12141) 16 x Socket – Solid (0462-201-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-18PE	1 x Plug (HD36-24-18PE) 1 x Removal Tool (0411-337-1205) 1 x Removal Tool (114008) 1 x Removal Tool (0411-204-1605) 2 x Pin – Solid (0460-204-08141) 4 x Pin – Solid (0460-204-12141) 17 x Pin – Solid (0460-202-16141) 6 x Cavity Plug (114017)
Thermoplastic Receptacle	Green Ring (Normal)	P24-24-18PN	1 x Receptacle (HDP24-24-18PN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114008) 1 x Removal Tool (114010) 2 x Pin – Solid (0460-204-08141) 4 x Pin – Solid (0460-204-12141) 17 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Green Ring (Normal)	P26-24-18SN	1 x Plug (HDP26-24-18SN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114008) 1 x Removal Tool (114010) 2 x Socket – Solid (0462-203-08141) 4 x Socket – Solid (0462-203-12141) 17 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017)
Thermoplastic Receptacle	Green Ring (Normal)	P24-24-18SN	1 x Receptacle (HDP24-24-18SN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114008) 1 x Removal Tool (114010) 2 x Socket – Solid (0462-203-08141) 4 x Socket – Solid (0462-203-12141) 17 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Green Ring (Normal)	P26-24-18PN	1 x Plug (HDP26-24-18PN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114008) 1 x Removal Tool (114010) 2 x Pin – Solid (0460-204-08141) 4 x Pin – Solid (0460-204-12141) 17 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017)

## HD30/HDP20 Half Kits – Shell Size 24 – 19 Cavities



6 x size 12  
13 x size 16

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-19PE	1 x Receptacle (HD34-24-19PE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 7 x Pin – Solid (0460-204-12141) 16 x Pin – Solid (0460-202-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-19SE	1 x Plug (HD36-24-19SE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 7 x Socket – Solid (0462-203-12141) 16 x Socket – Solid (0462-202-16141) 6 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	M34-24-19PN	1 x Receptacle (HD34-24-19PN) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (114010) 7 x Pin – Solid (0460-204-12141) 16 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-19SE	1 x Receptacle (HD34-24-19SE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 7 x Socket – Solid (0462-203-12141) 16 x Socket – Solid (0462-201-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-19PE	1 x Plug (HD36-24-19PE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 7 x Pin – Solid (0460-204-12141) 16 x Pin – Solid (0460-202-16141) 6 x Cavity Plug (114017)
Thermoplastic Receptacle	Blue Ring (Extra thin)	P24-24-19PE	1 x Receptacle (HDP24-24-19PE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (114010) 7 x Pin – Solid (0460-204-12141) 16 x Pin – Solid (0460-202-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Receptacle	Green Ring (Normal)	P24-24-19PN	1 x Receptacle (HDP24-24-19PN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114010) 7 x Pin – Solid (0460-204-12141) 16 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Green Ring (Normal)	P26-24-19SN	1 x Plug (HDP26-24-19SN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114010) 7 x Socket – Solid (0462-203-12141) 16 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017)



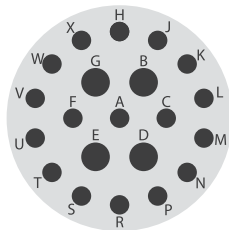
M34-24-19PE



# HD Series

## HD30/HDP20 Half Kits – Shell Size 24 – 21 Cavities

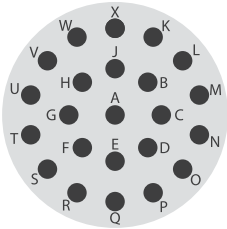
Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-21PE	1 x Receptacle (HD34-24-21PE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 5 x Pin – Solid (0460-204-12141) 20 x Pin – Solid (0460-202-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-21SE	1 x Plug (HD36-24-21SE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 5 x Socket – Solid (0462-203-12141) 20 x Socket – Solid (0462-201-16141) 6 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	M34-24-21PN	1 x Receptacle (HD34-24-21PN) 1 x Removal Tool (114010) 1 x Removal Tool (0411-310-1605) 20 x Pin – Solid (0460-215-16141) 5 x Pin – Solid (0460-204-12141) 6 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	M36-24-21SN	1 x Plug (HD36-24-21SN) 1 x Removal Tool (114010) 1 x Removal Tool (0411-310-1605) 20 x Socket – Solid (0462-209-16141) 5 x Socket – Solid (0462-203-12141) 6 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	M34-24-21SN	1 x Receptacle (HD34-24-21SN) 1 x Removal Tool (114010) 1 x Removal Tool (0411-310-1605) 20 x Socket – Solid (0462-209-16141) 5 x Socket – Solid (0462-203-12141) 6 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	M36-24-21PN	1 x Plug (HD36-24-21PN) 1 x Removal Tool (114010) 1 x Removal Tool (0411-310-1605) 20 x Pin – Solid (0460-215-16141) 5 x Pin – Solid (0460-204-12141) 6 x Cavity Plug (114017)
Thermoplastic Receptacle	Blue Ring (Extra thin)	P24-24-21PE	1 x Receptacle (HDP24-24-21PE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 5 x Pin – Solid (0460-204-12141) 20 x Pin – Solid (0460-202-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Blue Ring (Extra thin)	P26-24-21SE	1 x Plug (HDP26-24-21SE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 5 x Socket – Solid (0462-203-12141) 20 x Socket – Solid (0462-201-16141) 6 x Cavity Plug (114017)
Thermoplastic Receptacle	Green Ring (Normal)	P24-24-21PN	1 x Receptacle (HDP24-24-21PN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114010) 5 x Pin – Solid (0460-204-12141) 20 x Pin – Solid (0460-215-16141) 6 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Green Ring (Normal)	P26-24-21SN	1 x Plug (HDP26-24-21SN) 1 x Removal Tool (0411-310-1605) 1 x Removal Tool (114010) 5 x Socket – Solid (0462-203-12141) 20 x Socket – Solid (0462-209-16141) 6 x Cavity Plug (114017)



4 x size 12  
17 x size 16

## HD30/HDP20 Half Kits – Shell Size 24 – 23 Cavities

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-23PE	1 x Receptacle (HD34-24-23PE) 1 x Removal Tool (0411-204-1605) 26 x Pin – Solid (0460-202-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-23SE	1 x Plug (HD36-24-23SE) 1 x Removal Tool (0411-204-1605) 26 x Socket – Solid (0462-201-16141) 8 x Cavity Plug (114017)
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-23SE	1 x Receptacle (HD34-24-23SE) 1 x Removal Tool (0411-204-1605) 26 x Socket – Solid (0462-201-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-23PE	1 x Plug (HD36-24-23PE) 1 x Removal Tool (0411-204-1605) 26 x Pin – Solid (0460-202-16141) 8 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	M34-24-23PN	1 x Receptacle (HD34-24-23PN) 1 x Removal Tool (0411-310-1605) 26 x Pin – Solid (0460-215-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	M36-24-23SN	1 x Plug (HD36-24-23SN) 1 x Removal Tool (0411-310-1605) 26 x Socket – Solid (0462-209-16141) 8 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	M34-24-23SN	1 x Receptacle (HD34-24-23SN) 1 x Removal Tool (0411-310-1605) 26 x Socket – Solid (0462-209-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	M36-24-23PN	1 x Plug (HD36-24-23PN) 1 x Removal Tool (0411-310-1605) 26 x Pin – Solid (0460-215-16141) 8 x Cavity Plug (114017)
Aluminium Receptacle	Grey Ring (Thin)	M34-24-23PT	1 x Receptacle (HD34-24-23PT) 1 x Removal Tool (0411-310-1605) 26 x Pin – Solid (0460-215-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Receptacle	Grey Ring (Thin)	M34-24-23ST	1 x Receptacle (HD34-24-23ST) 1 x Removal Tool (0411-310-1605) 26 x Socket – Solid (0462-209-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)



23 x size 16



M34-24-23PE

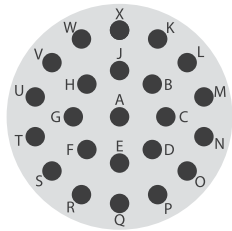


M34-24-23ST



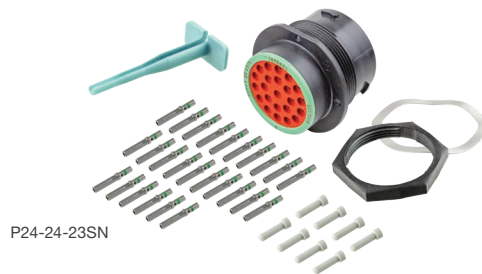
# HD Series

## HD30/HDP20 Half Kits – Shell Size 24 – 23 Cavities cont.



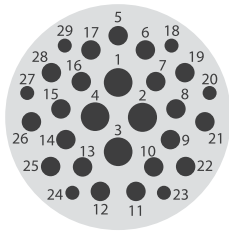
23 x size 16

Connector	Wire Seal	Part No.	Kit Contents
<b>Thermoplastic Receptacle</b>	<b>Green Ring (Normal)</b>	<b>P24-24-23PN</b>	1 x Receptacle (HDP24-24-23PN) 1 x Removal Tool (0411-310-1605) 26 x Pin – Solid (0460-215-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
<b>Thermoplastic Plug</b>	<b>Green Ring (Normal)</b>	<b>P26-24-23SN</b>	1 x Plug (HDP26-24-23SN) 1 x Removal Tool (0411-310-1605) 26 x Socket – Solid (0462-209-16141) 8 x Cavity Plug (114017)
<b>Thermoplastic Receptacle</b>	<b>Blue Ring (Extra thin)</b>	<b>P24-24-23SE</b>	1 x Receptacle (HDP24-24-23SE) 1 x Removal Tool (0411-204-1605) 26 x Socket – Solid (0462-201-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
<b>Thermoplastic Plug</b>	<b>Blue Ring (Extra thin)</b>	<b>P26-24-23PE</b>	1 x Plug (HDP26-24-23PE) 1 x Removal Tool (0411-204-1605) 26 x Pin – Solid (0460-202-16141) 8 x Cavity Plug (114017)
<b>Thermoplastic Receptacle</b>	<b>Green Ring (Normal)</b>	<b>P24-24-23SN</b>	1 x Receptacle (HDP24-24-23SN) 1 x Removal Tool (0411-310-1605) 26 x Socket – Solid (0462-209-16141) 8 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
<b>Thermoplastic Plug</b>	<b>Green Ring (Normal)</b>	<b>P26-24-23PN</b>	1 x Plug (HDP26-24-23PN) 1 x Removal Tool (0411-310-1605) 26 x Pin – Solid (0460-215-16141) 8 x Cavity Plug (114017)



P24-24-23SN

## HD30/HDP20 Half Kits – Shell Size 24 – 29 Cavities



4 x size 12  
19 x size 16  
6 x size 20

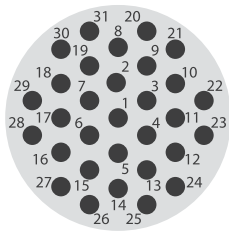
Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-29PE	1 x Receptacle (HD34-24-29PE) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 22 x Pin – Solid (0460-202-16141) 5 x Pin – Solid (0460-204-12141) 7 x Pin – Solid (0460-202-20141) 2 x Cavity Plug (0413-204-2005) 8 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-29SE	1 x Plug (HD36-24-29SE) 1 x Removal Tool (0411-337-1205) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 22 x Socket – Solid (0462-201-16141) 5 x Socket – Solid (0462-203-12141) 7 x Socket – Solid (0462-201-20141) 2 x Cavity Plug (0413-204-2005) 8 x Cavity Plug (114017)
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-29SE	1 x Receptacle (HD34-24-29SE) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 22 x Socket – Solid (0462-201-16141) 5 x Socket – Solid (0462-203-12141) 7 x Socket – Solid (0462-201-20141) 2 x Cavity Plug (0413-204-2005) 8 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-29PE	1 x Plug (HD36-24-29PE) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 22 x Pin – Solid (0460-202-16141) 5 x Pin – Solid (0460-204-12141) 7 x Pin – Solid (0460-202-20141) 2 x Cavity Plug (0413-204-2005) 8 x Cavity Plug (114017)
Thermoplastic Receptacle	Blue Ring (Extra thin)	P24-24-29PE	1 x Receptacle (HDP24-24-29PE) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 22 x Pin – Solid (0460-202-16141) 5 x Pin – Solid (0460-204-12141) 7 x Pin – Solid (0460-202-20141) 2 x Cavity Plug (0413-204-2005) 8 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Blue Ring (Extra thin)	P26-24-29SE	1 x Plug (HDP26-24-29SE) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 22 x Socket – Solid (0462-201-16141) 5 x Socket – Solid (0462-203-12141) 7 x Socket – Solid (0462-201-20141) 2 x Cavity Plug (0413-204-2005) 8 x Cavity Plug (114017)
Thermoplastic Receptacle	Blue Ring (Extra thin)	P24-24-29SE	1 x Receptacle (HDP24-24-29SE) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 22 x Socket – Solid (0462-201-16141) 5 x Socket – Solid (0462-203-12141) 7 x Socket – Solid (0462-201-20141) 2 x Cavity Plug (0413-204-2005) 8 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Blue Ring (Extra thin)	P26-24-29PE	1 x Plug (HDP26-24-29PE) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-337-1205) 22 x Pin – Solid (0460-202-16141) 5 x Pin – Solid (0460-204-12141) 7 x Pin – Solid (0460-202-20141) 2 x Cavity Plug (0413-204-2005) 8 x Cavity Plug (114017)



# HD Series

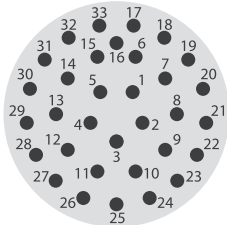
## HD30/HDP20 Half Kits – Shell Size 24 – 31 Cavities

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-31PE	1 x Receptacle (HD34-24-31PE) 1 x Removal Tool (0411-204-1605) 36 x Pin – Solid (0460-202-16141) 10 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-31SE	1 x Plug (HD36-24-31SE) 1 x Removal Tool (0411-204-1605) 36 x Socket – Solid (0462-201-16141) 10 x Cavity Plug (114017)
Aluminium Receptacle	Grey Ring (Thin)	M34-24-31PT	1 x Receptacle (HD34-24-31PT) 1 x Removal Tool (0411-310-1605) 36 x Pin – Solid (0460-215-16141) 10 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Grey Ring (Thin)	M36-24-31ST	1 x Plug (HD36-24-31ST) 1 x Removal Tool (0411-310-1605) 36 x Socket – Solid (0462-209-16141) 10 x Cavity Plug (114017)
Aluminium Receptacle	Grey Ring (Thin)	M34-24-31ST	1 x Receptacle (HD34-24-31ST) 1 x Removal Tool (0411-310-1605) 36 x Socket – Solid (0462-209-16141) 10 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Grey Ring (Thin)	M36-24-31PT	1 x Plug (HD36-24-31PT) 1 x Removal Tool (0411-310-1605) 36 x Pin – Solid (0460-215-16141) 10 x Cavity Plug (114017)
Thermoplastic Receptacle	Blue Ring (Extra thin)	P24-24-31PE	1 x Receptacle (HDP24-24-31PE) 1 x Removal Tool (0411-204-1605) 36 x Pin – Solid (0460-202-16141) 10 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Blue Ring (Extra thin)	P26-24-31SE	1 x Plug (HDP26-24-31SE) 1 x Removal Tool (0411-204-1605) 36 x Socket – Solid (0462-201-16141) 10 x Cavity Plug (114017)
Thermoplastic Receptacle	Grey Ring (Thin)	P24-24-31PT	1 x Receptacle (HDP24-24-31PT) 1 x Removal Tool (0411-310-1605) 36 x Pin – Solid (0460-215-16141) 10 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Grey Ring (Thin)	P26-24-31ST	1 x Plug (HDP26-24-31ST) 1 x Removal Tool (0411-310-1605) 36 x Socket – Solid (0462-209-16141) 10 x Cavity Plug (114017)
Thermoplastic Receptacle	Blue Ring (Extra thin)	P24-24-31SE	1 x Receptacle (HDP24-24-31SE) 1 x Removal Tool (0411-204-1605) 36 x Socket – Solid (0462-201-16141) 10 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Blue Ring (Extra thin)	P26-24-31PE	1 x Plug (HDP26-24-31PE) 1 x Removal Tool (0411-204-1605) 36 x Pin – Solid (0460-202-16141) 10 x Cavity Plug (114017)
Thermoplastic Receptacle	Grey Ring (Thin)	P24-24-31ST	1 x Receptacle (HDP24-24-31ST) 1 x Removal Tool (0411-310-1605) 36 x Socket – Solid (0462-209-16141) 10 x Cavity Plug (114017) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Grey Ring (Thin)	P26-24-31PT	1 x Plug (HDP26-24-31PT) 1 x Removal Tool (0411-310-1605) 36 x Pin – Solid (0460-215-16141) 10 x Cavity Plug (114017)



31 x size 16

## HD30/HDP20 Half Kits – Shell Size 24 – 33 Cavities



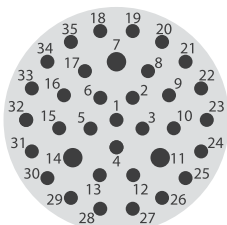
33 x size 20

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	<b>M34-24-33SN</b>	1 x Receptacle (HD34-24-33SN) 1 x Removal Tool (0411-240-2005) 36 x Socket – Solid (0462-201-20141) 10 x Cavity Plug (0413-204-2005) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	<b>M36-24-33PN</b>	1 x Plug (HD36-24-33PN) 1 x Removal Tool (0411-240-2005) 36 x Pin – Solid (0460-202-20141) 10 x Cavity Plug (0413-204-2005)



M34-24-35PN

## HD30/HDP20 Half Kits – Shell Size 24 – 35 Cavities



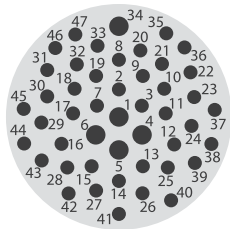
3 x size 16  
32 x size 20

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	<b>M34-24-35PN</b>	1 x Receptacle (HD34-24-35PN) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-310-1605) 36 x Pin – Solid (0460-202-20141) 4 x Pin – Solid (0460-215-16141) 2 x Cavity Plug (114017) 10 x Cavity Plug (0413-204-2005) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	<b>M36-24-35PN</b>	1 x Plug (HD36-24-35PN) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-310-1605) 36 x Socket – Solid (0462-201-20141) 4 x Socket – Solid (0462-209-16141) 10 x Cavity Plug (0413-204-2005) 2 x Cavity Plug (114017)
Aluminium Receptacle	Green Ring (Normal)	<b>M34-24-35SN</b>	1 x Receptacle (HD34-24-35SN) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-310-1605) 36 x Socket – Solid (0462-201-20141) 4 x Socket – Solid (0462-209-16141) 2 x Cavity Plug (114017) 10 x Cavity Plug (0413-204-2005) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Green Ring (Normal)	<b>M36-24-35PN</b>	1 x Plug (HD36-24-35PN) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-310-1605) 36 x Pin – Solid (0460-202-20141) 4 x Pin – Solid (0460-215-16141) 2 x Cavity Plug (114017) 10 x Cavity Plug (0413-204-2005)



# HD Series

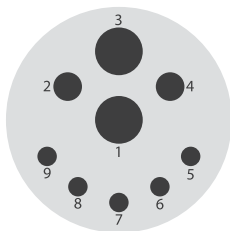
## HD30/HDP20 Half Kits – Shell Size 24 – 47 Cavities



5 x size 16  
42 x size 20

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-47PE	1 x Receptacle (HD34-24-47PE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-240-2005) 47 x Pin – Solid (0460-202-20141) 6 x Pin – Solid (0460-202-16141) 2 x Cavity Plug (114017) 10 x Cavity Plug (0413-204-2005) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-47SE	1 x Plug (HD36-24-47SE) 1 x Removal Tool (0411-240-2005) 1 x Removal Tool (0411-204-1605) 6 x Socket – Solid (0462-201-20141) 47 x Socket – Solid (0462-201-20141) 10 x Cavity Plug (0413-204-2005) 2 x Cavity Plug (114017)
Aluminium Receptacle	Blue Ring (Extra thin)	M34-24-47SE	1 x Receptacle (HD34-24-47SE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-240-2005) 47 x Socket – Solid (0462-201-20141) 6 x Socket – Solid (0462-201-16141) 2 x Cavity Plug (114017) 10 x Cavity Plug (0413-204-2005) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)
Aluminium Plug	Blue Ring (Extra thin)	M36-24-47PE	1 x Plug (HD36-24-47PE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-240-2005) 47 x Pin – Solid (0460-202-20141) 6 x Pin – Solid (0460-202-16141) 2 x Cavity Plug (114017) 10 x Cavity Plug (0413-204-2005)
Thermoplastic Receptacle	Blue Ring (Extra thin)	P24-24-47SE	1 x Receptacle (HDP24-24-47SE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-240-2005) 47 x Socket – Solid (0462-201-20141) 6 x Socket – Solid (0462-201-16141) 2 x Cavity Plug (114017) 10 x Cavity Plug (0413-204-2005) 1 x Panel Nut (2411-001-2405) 1 x Lock Washer (2414-001-2486)
Thermoplastic Plug	Blue Ring (Extra thin)	P26-24-47PE	1 x Plug (HDP26-24-47PE) 1 x Removal Tool (0411-204-1605) 1 x Removal Tool (0411-240-2005) 47 x Pin – Solid (0460-202-20141) 6 x Pin – Solid (0460-202-16141) 2 x Cavity Plug (114017) 10 x Cavity Plug (0413-204-2005)

## HD30/HDP20 Half Kits – Shell Size 24 – 91



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

Connector	Wire Seal	Part No.	Kit Contents
Aluminium Receptacle	Green Ring (Normal)	M34-24-91PN	1 x Receptacle (HD34-24-91PN) 1 x Removal Tool (114010) 1 x Removal Tool (114008) 1 x Removal Tool (0411-310-1605) 6 x Pin – Solid (0460-215-16141) 3 x Pin – Solid (0460-204-12141) 3 x Pin – Solid (0460-204-08141) 1 x Cavity Plug (114018) 2 x Cavity Plug (114017) 1 x Panel Nut (112263-90) 1 x Lock Washer (112264)

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The screenshot shows the IONNIC website homepage. At the top, there is a navigation bar with links for Home, Lighting, Safety, Electrical, and Contact Us, along with a search bar. The main banner features the TE DEUTSCH logo and the text "IONNIC - AUSTRALIA'S OFFICIAL Deutsch Industrial DISTRIBUTORS". Below the banner are three main product categories: LIGHTING (Products to help you see or be seen from IONNIC, Nordic Lights & Vision Alert), SAFETY (Reverse in safety with bbs-tek® white sound reversing alarms & CCTV systems), and ELECTRICAL (Electrical components & systems from Class1, Schlemmer, Carlingswitch & TE DEUTSCH). The footer includes links for IONNIC (About Us, Terms of Use, Privacy Policy), Product Categories (Lighting, Safety, Electrical), Catalogues (PDF Downloads), Reseller Info (Product Updates, Warranty Statement), Site Search (Site Map), and a subscription form for product updates. Copyright information for 2023 and a YouTube logo are also present.

The screenshot shows a product page for "Assortment Kits - Deutsch". The page features a navigation menu on the left with categories like LIGHTING, SAFETY, and ELECTRICAL. The main content area displays a grid of product images for various connector series (DT, CAN Network, DT Detector, DTV, DTM, DTP, DTHD) and assortment kits. A detailed view of an "Assortment Kit" is shown, including a list of features such as "604 piece workshop kit containing assortments of DT Series connectors & contacts" and "Includes crimp tool and multi-use removal tool". Specifications and associations are also listed. The footer is identical to the homepage screenshot.



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