HD/HDP Series - Heavy Duty Field - Proven Interconnection Systems











Truck Applications





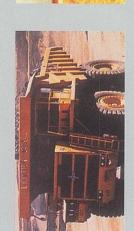




Farm Equipment









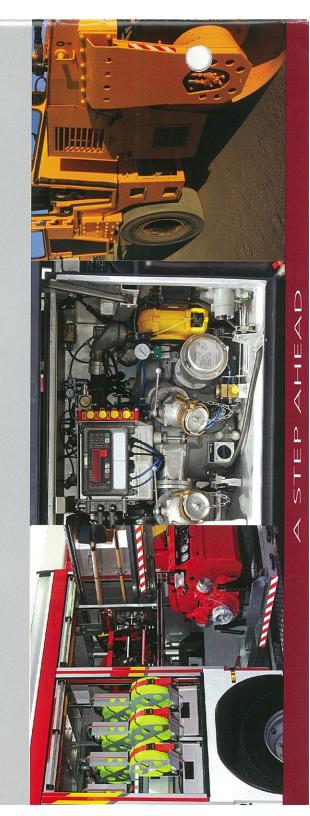




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15	14	13	12	\exists	10	9	œ	7	6	4-5	



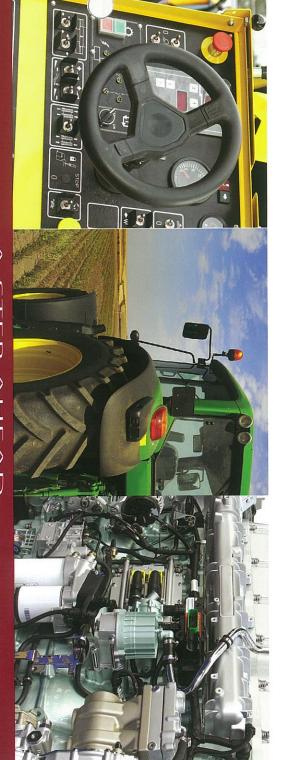
Deutsch HD30 Series

A heavy duty, environmentally sealed, multi-pin circular connector, featuring quick connect-disconnect bayonet coupling, single hole bulkhead mounting, silicone seals, with a rear insertion/rear removal contact system.

The Deutsch HD30 Series connector, was developed to meet the needs of the heavy duty equipment and transportation industries for rugged, multi-pin, sealed connector systems.



Designed specifically for the truck, bus and off-highway industry, the HDP20 Series is a heavy duty rated, environmentally sealed, composite shell, multi-pin connector. The plug features a quick connect-disconnect bayonet style coupling and the receptacle is designed for single hole mounting. Thus reducing assembly line time and installation costs.







Electrical Connectors:

Critical to System Reliability and Maintainability

Recent studies indicate that electrical system failures are a common and constant source of equipment malfunction. A major area of electrical system failure is in electrical interconnections. Typical problems include loose and miswired terminals, corrosion, and contamination of terminals. Coupled with these problems, the impact of sophisticated safety devices, automated check-out systems, and other increased use of electronics, call for a re-examination of traditional termination techniques. To the operator, termination failures mean excessive down time and maintenance costs. This adds up to slipped production schedules, cost over-runs and user problems. The end result: decreased profits and a loss of share of the market. In today's competitive arena, improved electrical connectors can make the difference between a growing, profitable operation or a losing one.

The HD/HDP Series

Decreases Costs and UP-Grades Performance

The Deutsch HD/HDP Series was developed to provide a solution to today's system problems found in the heavy duty trucking, equipment and transportation industries. The HD/ HDP is a cylindrical, multi-pin, sealed device utilizing crimp type contacts that are quickly and easily inserted or removed. Use of the HD/HDP Series eliminates several other common connector problems.

Problems associated with assembly and network time, operational breakdowns requiring costly repairs and lengthy out of service time in the field have all been reduced and/or eliminated by the judicious application of the HD/HDP Series.

Deutsch HD/HDP Series provide the widest selection of interconnections for critical circuits requiring heavy-duty environmental terminations. Together, the HD and HDP offer common layouts, common tooling, the same adaptability to backshells and both meet the performance standards for heavy duty applications. So whether you are looking for rugged HD metal shells or cost effective HDP plastic shells, Deutsch offers the best product for your applications while holding the line on hidden inventory and assembly costs.



Some of the benefits of the Deutsch HD/HDP Series include:

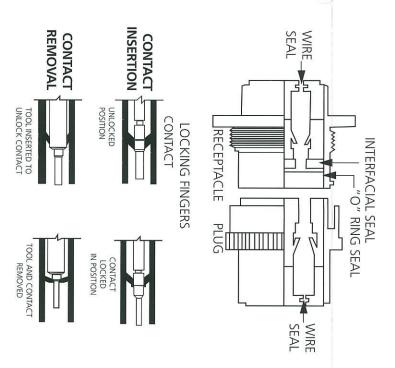
- Quick, fool-proof assembly, decreasing time on the assembly line and eliminating miswiring.
- Simple and easy to rework, decreasing down time and increasing profits to the operator.
 - Sealed against moisture and contaminants, eliminating open wiring system.

 Operation under severe shock and vibration reducing break.
 - Operation under severe shock and vibration, reducing break down and out of commission loss due to rugged operating conditions.
- Performance over a wide temperature range (-55°C to +125°C) meaning continuous operation in all environments, from arctic to desert conditions.
- Human factors engineered to assure that assembly and rework can be reliably handled by unskilled personnel.

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Sealed Against Moisture and Contaminants

systems, the Deutsch HD/HDP Series is a completely sealed fasten or tighten or potting operation to achieve this seal. into place during installation. There is no extra hardware to wire seal that automatically seals each contact as it is locked unit. The rear of the connector features an integral grommet Unlike terminal strips, binding posts and other open-wiring

for circuit continuity. personnel against accidental shock, yet can be easily checked serious explosion. Closed wiring also protects maintenance loading or refueling operation when a spark could cause a across the terminals. common hazards as short circuits due to metallic objects elimination of open-wiring systems does away with such and other contaminants encountered in heavy duty use. The dust, lubricating oils, road salt, hydraulic fluid, grease, mud this rear grommet protects the contact from moisture, sand Fabricated from tear resistant, high temperature silicone This is especially important during

Increases Reliability Contact Retention Decreases Installation Costs and

by use of "fingers" in the connector which lock behind the contact into place by hand. Contacts are positively secured these contacts are easily installed by simply pushing the available hand tools for field maintenance. After crimping, using automatic tooling for production and inexpensive readily overheating. The contacts or terminals are crimp terminated to carry continuous high operating current loads without alloy contacts for cost effectiveness. Each style has the ability for damage proof performance and stamped & formed copper The HD/HDP Series uses crimp type, solid copper alloy contacts

> quickly and easily removed by the use of an inexpensive, nonshoulder of the contact, preventing accidental dislodging conductive removal tool. Although securely locked in place, these contacts can be





a Cost Effective Alternative Corrosion Proof Plastic Shell HDP20 Series Provide

application. and formed contacts provides a cost effective solution for your interfacial seals, visual indication of lock and mated position. with heavy duty terminations for the truck, bus & Corrosion proof plastic shells and use of low cost stamped highway industries. Other features include: silicone wire and Deutsch plastic shell HDP20 Series provide cost effectiveness off-

the connector from rotating. Receptacles mount with a single hole using a "flat" to prevent and makes plug and receptacle coupling quick and easy. a multiple keying system that positively prevents mismating vibration resistant locking mechanism. This shell provides The HDP20 uses a bayonet coupling system to provide a





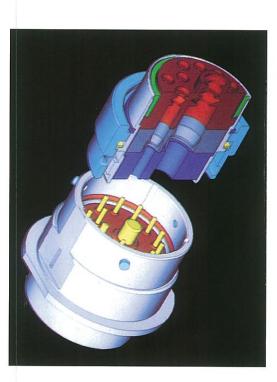
Abuse Rugged Metal Shell HD30 Series Withstands Years of

rugged metal shell to protect contacts and sealing grommets. quick and easy. prevents mismating and makes plug and receptacle coupling This shell provides a multiple keying system that positively Deutsch HD30 Series features a lightweight, yet compact and

system requires only a quarter turn to operate indication of proper mate and lock. This quick disconnect a positive vibration resistant locking mechanism with visual The HD30 Series uses a bayonet coupling system that provides

rotating during assembly or service mounting system using a "flat" to prevent the connector from Easy installation to structure is provided by a single one-hole





HD/HDP Series Connector Features

Deutsch HD/HDP Series environmental connectors offer the Designed to withstand years of abuse, the Deutsch HD/HDP Series is setting the pace in the Heavy Equipment Industry. Key advantages of decreased costs and upgraded performance. features common to the HD/HDP Series are itemized below.

Contacts

- A. Solid copper alloy construction withstands continuous Cost effective stamped and formed contacts provide current overload without degradation. high reliability and low cost.
- B. Range of contact and acceptable wire sizes
- 1. Size #4 AWG 6 (13.0 mm²)
- 2. Size #8 AWG 8 & 10 (8.0 5.0 mm²)
- 3. Size #12 AWG 12 & 14 (4.0 2.0 mm²)
 - 4. Size #16 AWG 14 & 20 (0.5 2.0 mm²)
- Size #20 AWG 16 & 22 (0.5 1.5 mm²)
- C. Closed entry socket contact design assures positive conductivity and eliminates probe damage.
 - D. Simplified pin contact design limits possibility of

II. Inserts

- captivate the contacts to prevent "float" and "splay" A. The hard plastic insert and closed contact interface
- B. Positive contact retention is provided through the use of plastic locking fingers which snap closed behind the shoulder of the contact.
- C. Interfaces
- Lead-ins on socket interface properly align bent pins.
- 2. Hard plastic prevents pins from penetrating dielectric material.
 - D. Available in several insert arrangements*
 - 1. Five in shell size 18 (HD30 or HDP20)
- 2. Fourteen in shell size 24 (HD30 or HDP20).
 - *See Page 9

- E. Redundant wire seals prevent contamination from entering from rear of connector.
- environmental sealing characteristics intact. F. Sealing plug to fill unused cavities to keep

III. Shell

- A. Rugged, all metal shell to withstand years of abuse (HD30) Corrosion resistant all plastic shell (HDP20) has same features (item C)
- B. Positive shell keying prevents mismating.
 - C. Simple, one quarter turn coupling
- 1. Free rotating, captivated coupling ring for fast
- environmental sealing with minimum mating Coupling ring designed to insure proper
- 3. Audio and visual indications of positive locked condition.
- D. Available in a straight plug and single hole mounting receptacle for easy installation to structure.

IV. Application Tooling

- A. Standard crimp tool or semi-automated, high-speed crimping tool is available.
- Fast, reliable, uniform results.
- Simplified procedures mean that only average skill is required for assembly.
 - 3. No soldering heat means:
- a. No chance of heat damage to parts.
- b. No wicking to contribute to vibration failure.
- B. Inexpensive plastic removal tool designed to eliminate hidden internal insert damage.
 - Removal tool designed to break rather than injure
- 2. Dielectric tool construction prevents shocks to personnel.



Material Specifications

HD30 Plug

Shell: Aluminum

Grommet - Silicone rubber Coupling Ring: Aluminum Insert Retainer: Thermoplastic

HDP20 Plug

Coupling Ring: Thermoplastic Insert Retainer: Thermoplastic Grommet - Silicone Rubber Shell: Thermoplastic

HD30 Receptacle

Shell: Aluminum Grommet - Silicone rubber Insert Retainer: Thermoplastic

HDP20 Receptacle

Grommet - Silicone rubber Insert Retainer: Thermoplastic Shell: Thermoplastic

Vibration

1000 megohms min. at 25° C. Insulation Resistance

frequency varied linearly between limits of 10 to 2000 to 10 longer than 1 microsecond. Hz with a maximum force of 20g's. No electrical discontinuities having an amplitude of .060 inches double amplitude and the damage during or while subject to a sinusoidal vibration, Maintains continuity and exhibits no mechanical or physical

Moisture Resistance

Water does not penetrate seals when submerged in 3 feet of

Corrosion Resistance

48 hours of salt spray per MIL-STD 1344 method 1001. Connectors show no evidence of corrosion after exposure to

Fluid Resistance

used in industrial applications Connectors show no damage when exposed to most fluids

Dielectric Withstanding Voltage:

Current leakage less than 2 milliamps at 1500 VAC

Crimp Tensile Strength: (Solid & Stamped)

#4	#8	#12	#16	#20
Size	Size	Size	Size	Size
Contacts	Contacts	Contacts	Contacts	Contacts
300 lbs.	90 lbs.	70 lbs.	25 lbs.	20 lbs.

HD/HDP Mounting Hardware

Panel Nut: Aluminum, Plastic Lockwasher: Spring Steel - Tin over Nickle

Finish: Nickel plating Socket: Copper Alloy Pin: Copper Alloy **Solid Contacts** Socket: Copper Alloy

Pin: Copper Alloy Stamped & Formed Contact

available for dry circuit Optional: Gold plating is applications Finish: Nickel plating

Sealing Plugs

applications

is available for dry circuit

Optional: Gold plating

Thermoplastic: Size 20 thru 8

Elastomer: Size 4

Performance Specifications

Temperature

Continuous at rated current Operating at temperatures from -55° C to + 125° C

Durability

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

Physical Shock

or after 50 g's in each of three mutually perpendicular planes. STD 202. Method 213, Condition "C". No electrical discontinuities longer than 1 microsecond. MIL-No unlocking unmating or other unsatisfactory result during

Contact Current Rating @ 125°C (continuous) Contact Size Max. Current

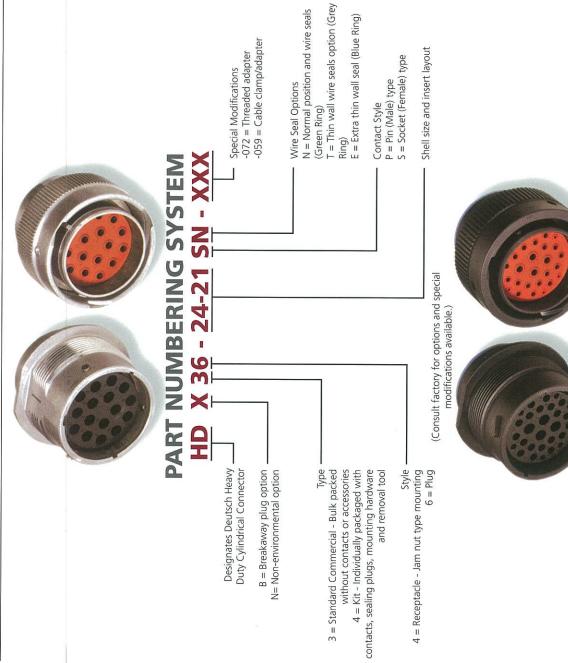
#4	#8	#12	#16	#20	Contact Size
100 amps	60 amps	25 amps	13 amps	7.5 amps	Max. Current

CONTACT RESISTANCE

4	_	00		12				16			20	SIZE /
6 (13.0)	10 (5.60)	8 (8.60)	12 (3.0)	14 (2.0)	14 (2.0)	16 (1.0)	18 (.80)	20 (.50)	16 (1.0)	18 (.80)	20 (.50)	AWG(mm ²)
100	60	60	25	18	13	13	10	7.5	7.5	7.5	7.5	AWG(mm²) (Amps)
60	60	60	60	60	60	60	60	60	60	60	60	Resistance (mV) Solids
N/A	N/A	N/A	100	100	100	100	100	100	100	100	100	Resistance (mV) Stamped & Formed

I





PART NUMBERING SYSTEM HDP 26 - 24-21 SN - XXXX

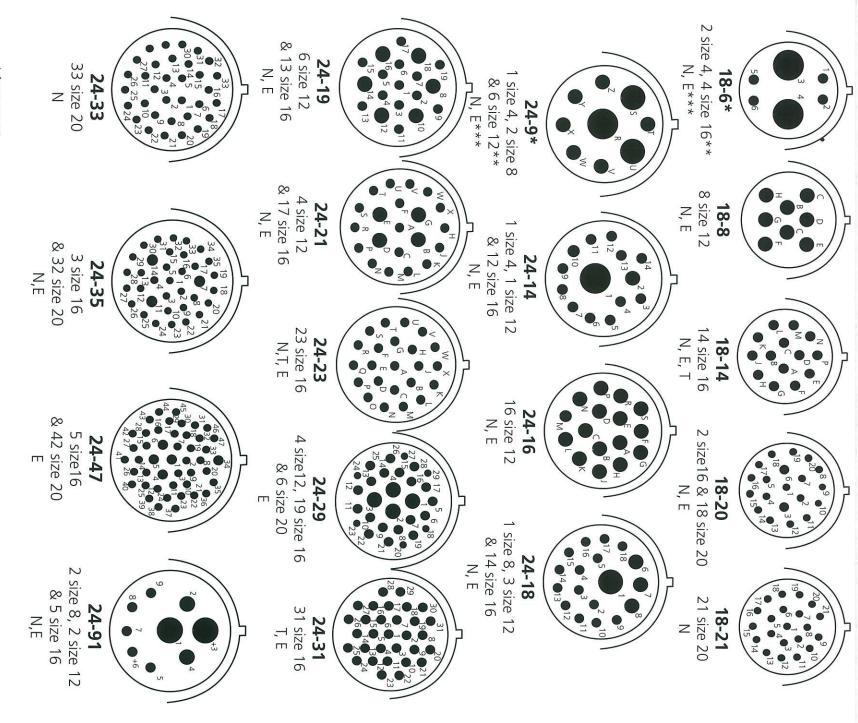
N = Normal postion and wire seals (Green Ring) T = Thin wall wire seals option (Grey Ring) E = Extra thin wall wire seals (Blue Ring) Special Modifications
-L015 Threaded Adapter
-L017 Backshell Adapter Contact Style P = Pin (Male) type S = Socket (Female) type Designates Deutsch Heavy Duty Plastic Connector Style 4 = Receptacle - Jam nut type mounting 6 = Plug2 = Standard Commercial - Bulk packed without contacts or accessories

Deutsch HD30 Series contacts, sealing plugs and tooling are specified for use in the HDP20 Series. Consult factory for additional options and special modifications available.



HD30 & HDP20 Series Insert Arrangements

All insert arrangements show socket rear insert.



^{*} Arrangement

** Description

*** Rear Seal



USABLE WIRE SIZE

	4	7	7	7	1		7	7	`	7	7	>	1	V*2	1 *2		7	V *2	>	
SEAL TYPE	_			٨									>		1*1					
	2 .	٨	7	7	1	7	7	7	7	>	>	٨	>			>	^		7	
INSERT	AKKANGEMENI	18-6	18-8	18-14	18-20	18-21	24-9	24-14	24-16	24-18	24-19	24-21	24-23	24-29	24-31	24-33	24-35	24-47	24-91	

CONTACT	RECOMMENDE	D WIRE INSULA	RECOMMENDED WIRE INSULATION O.D. FOR:
SIZE	N-SEAL Green Ring	T-SEAL Grey Ring	E-SEAL Blue Ring
#20	.040095	.040095	.040095
#16	.100134 (2.54-3.40)	.088134 (2.23-3.40)	.053120 (1.35-3.05)
#12	.134170 (3.40-4.32)	.113170 (2.87-4.32)	.097158 (2.46-4.01)
8#	.190240 (4.83-6.10)	.170240 (4.32-6.10)	.135220 (3.43-5.59)
#4	.280292 (7.11-7.42)	.261292 (6.63-7.42)	.261292 (6.63-7.42)

*1 Modified "T" Seal. See envelope print *2 Modified "E" Seal. See envelope print

Connector Identification



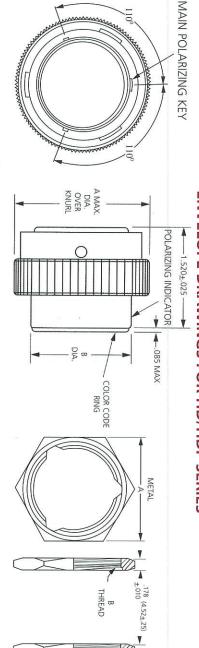


Color code is visible from the rear of the receptacle or plug. Green: Normal Seal Grey: Thin Wall Seal Blue: Extra Thin Seal

CAUTION: Undersize wire insultation is a major cause for leakage. Shrink tubing SHOULD NOT BE USED.



ENVELOPE DRAWINGS FOR HD/HDP SERIES



▲ (.250)

B THREAD

PLASTIC

110

Series Plug

24	18	SHELL SIZE
1.942 (49.33)	1.692 (42.98)	A MAX DIA
1.470 (37.34 ±0.25)	1.220 (30.99 ±0.25)	B DIA +.010

METAL

METAL PLASTIC 112263-90* 2411-001-2405 114020-90* 2411-002-1805 PART NUMBER SIZE 24 $\frac{1}{\infty}$ 1.875 (47.63 +.76) 1.685 (42.80 +.76) + .030 1 11/16-18 UNEF-2B B THREAD 1-1/2 - 18 UNEF-2B

Panel Nut*

MAIN POLARIZING KEY ØB Series Receptacle 110 .050±.020 (12.83± 0.5) 0 F THREAD 1.030±.015 (26.16±.38) 1.647±.020 (41.83±.051) HD30 18 SHELL SIZE HDP20 18 SHELL SIZE HDP20 24 SHELL SIZE HD30 24 SHELL SIZE PANEL NUT MOUNTING TORQUE 1.00±.010 (2.54±.25) Panel Lockwasher* (39.5-42.6 N.M. 260-280 IN. LB. (29.4-31.6 N.M.) 350-375 IN. LB (5.1-6.1 N.M.) (7.4-8.4 N.M.) 65-75 IN. LB 45-55 IN. LB.

* Metal Panel Nuts are used on HD30 only.
** For use on HDP20. 2414-001-2486** $(43.18 \pm .38)$ $(52.68 \pm .25)$

SHELL SIZE

A ±.025

B ±.025

C ±.025

F THREAD

PART NO.

SIZE

A DIA. ±.015

B DIA. ±.010

C REF ±.015

24

 $\begin{array}{c} 1.579 \\ (40.11 \pm 0.63) \end{array}$

2.000 (50.80 ±0.63)

1.875 (47.63 ±0.63)

1 11/16-18 UNEF

18

1.329 (33.76 ±0.63)

1.750 (44.45 <u>+</u>0.63)

1.625 (41.28 <u>+</u>0.63)

1 1/2-18 UNEF

114021* 2414-002-1886**

8

1.512 (38.40 ±.38)

 $(47.90 \pm .25)$

.062 (1.57±.38) .020 (0.51±.38)

1.886

112264*

24

1.70

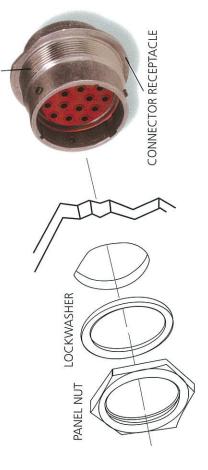
2.074

.062 (1.57±.38) .020 (1.57±.38)

120°



Receptacle Mounting



See Information Drawing 0425-016-0000

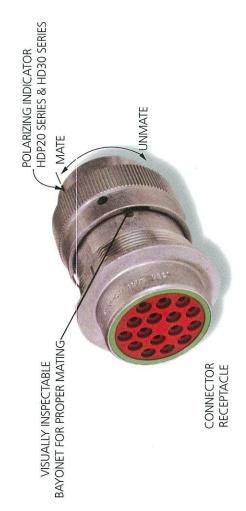
Aر.005 (0.13)	+.010 (0.25)	.1875 (4.76)
Aر.00	→ m →	

SHELL SIZE A@ 1.507 1.696

"D" Hole Punches available from: LADD Industrial Sales.

Mating / Unmating Instructions

To mate the plug and the receptacle, line up the index groove on the plug with the flat surface on the receptacle, turn 1/4 turn clockwise. You will feel and hear the pieces snap into the locked position. To unmate the plug and receptacle, reverse the above procedure.



CAUTION: When mating or unmating plug and receptacle, disassemble by hand. DO NOT use pliers or any other tool.

ASSEMBLY INSTRUCTIONS

CONTACT INSERTION

CONTACT REMOVAL









Contact Insertion







2 Hold connector with rear grommet facing you.

NOTE: For unused wire cavities, insert sealing. sealing plugs for full environmental



3 Push contact straight into conin place. confirm that it is properly locked stop is felt. A slight tug will nector grommet until a positive

Contact Removal



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



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



3 Pull contact-wire assembly out of connector.

NOTE: Do not twist or insert tool at an angle

Removal Tools

	1	-	0 000	
	1/_20	7	0411-226-1605	
	77-07	100	011 110 2000	-
	20 22	20	0/11-2/0-2005	-
	THE RESIDENCE OF THE PROPERTY			٠,
(AND UNION TANG	717		
)	WIDE DANGE ANG	2/12		
			1	
		STORY STORY		-
Service of the last				
	EXITA ITIN WALL WIRE SEALS (E)			-

ONTACT SIZE

PART NO.

Sealing Plugs

SEALING PLUG

12-16 20

0413-204-2005

114017

4

114018 114019

0411-240-2005 0411-204-1605

20 16 SIZE

PART NO.

WIRE RANGE AWG

PART NO EXTRA

NORMAL WIRE SEALS (N)

			SEALS (T)	L WIRE:	THIN WALL WIRE SEALS (T)
6	4	114009	6	4	114009
8-10	∞	0411-353-0805	8-10	000	114008
12-14	12	0411-337-1205	12-14	12	114010

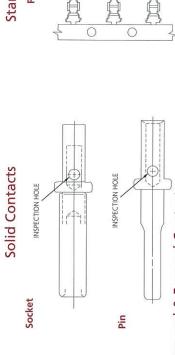
CONTACTS AND APPLICATION DATA

Solid Contacts

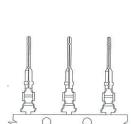
Downloaded from Arrow.com.

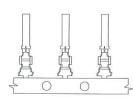
MAX RATED AMPS AT 125°C CONTINUOUS		7.5	7.5	13	13	25	09	100
REF CRIMP TENSILE LBS (N)		20 (89)	20 (89)	35-20 (156 - 89)	70 (311)	75-70 (334 - 311)	125-90 (556 - 400)	300 (1334)
MIN CONTACT RETENTION LBS (N)		20 (89)	20 (89)	25 (111)	25 (111)	30 (134)	35 (156)	35 (156)
RECOMMENDED STRIP LENGTH INCHES (mm)		.156218 (3.96 - 5.54)	.156218 (3.96 - 5.54)	.250312 (6.35 - 7.92)	.250312 (6.35 - 7.92)	(5.64 - 7.21)	.430492 (10.92 - 12.50)	.430492 (10.92 - 12.50)
WIRE SIZE AWG (mm²)		20 (0.50)	16 - 18 (1.0 - 0.75)	16 - 20 (1.0 - 0.50)	14 (2.0)	12 - 14 (3.0 - 2.0)	8-10 (8.0 - 5.0)	6 (13.0)
SOLID CONTACT PART NUMBERS	SOCKET	0462-201-20**	0462-005-20**	0462-201-16**	0462-209-16**	0462-203-12**	0462-203-08**	0462-203-04**
SOLID C PART NU	Nid	0460-202-20**	0460-010-20**	0460-202-16**	0460-215-16**	0460-204-12**	0460-204-08**	0460-204-04**
	SIZE	20	20	91	16	12	œ	4

^{*} See Envelope Print 0425-205-0000. Consult factory for alternate finishes.



Stamped and Formed Contacts





Stamped & Formed Contacts

OCTANNER INCHES (mm) LBS (N) LBS (N) 0.1*** 1062-20-01** 20 - 0.1 (1.0 - 0.35) (1.31 - 3.15) (381 - 5.08) (89) (89-45) 0.2*** 1062-20-01** 20 - 0.1 (1.0 - 0.35) (1.31 - 3.15) (3.81 - 5.08) (89) (89-45) 0.2*** 1062-20-03** 20 - 0.2 (1.0 - 0.35) (1.91 - 3.15) (3.81 - 5.08) (89) (89-45) 1062-20-03** 20 - 0.3 (1.0 - 0.35) (1.91 - 3.15) (3.81 - 5.08) (89) (89-45) 0.6*** 1062-20-06** 20 - 0.6 (1.0 - 0.35) (1.91 - 3.15) (3.81 - 5.08) (89) (89-45) 0.6*** 1062-14-01** 14-16 (2.5 - 1.0) (1.95 - 1.35) (3.81 - 5.08) (89) (89-45) 0.1*** 1062-14-01** 14-16 (2.5 - 1.0) (1.95 - 1.36) (3.81 - 5.08) (39) (39-45) 0.1*** 1062-14-01** 14-16 (2.5 - 1.0) (1.95 - 1.36) (38) (39-45) 0.1*** 1062-14-01** 14-16 <th>STAIN</th> <th>IPED & FOR PART NU</th> <th>STAMPED & FORMED CONTACT PART NUMBERS</th> <th>CARRIER</th> <th>WIRE SIZE</th> <th>WIRE</th> <th>RECOMMENDED STRIP LENGTH</th> <th>MIN CONT. RETENTION</th> <th>REF CRIMP TENSILE</th> <th>MAX RATED AMPS AT 125°C</th>	STAIN	IPED & FOR PART NU	STAMPED & FORMED CONTACT PART NUMBERS	CARRIER	WIRE SIZE	WIRE	RECOMMENDED STRIP LENGTH	MIN CONT. RETENTION	REF CRIMP TENSILE	MAX RATED AMPS AT 125°C
1062-20-01** 10-22 1075-112 150-220 150-10 <th< th=""><th>PIN</th><th></th><th>SOCKET</th><th>IDENTIFICATION</th><th></th><th>O.D. RANGE</th><th>INCHES (mm)</th><th>LBS (N)</th><th>LBS (N)</th><th>CONTINUOUS</th></th<>	PIN		SOCKET	IDENTIFICATION		O.D. RANGE	INCHES (mm)	LBS (N)	LBS (N)	CONTINUOUS
1062-20-02** 20 - 02 (16 - 22)/(1.50.35) (351 - 30.8)/(3.81 - 5.08) (39)/(3.89 - 45) 1062-20-03** 20 - 03 (1.0 - 0.35) (1.91 - 3.15)/(3.81 - 5.08) (89) (89 - 45)/(3.91 - 45) 1062-20-03** 20 - 03 (1.0 - 0.35) (1.91 - 3.15)/(3.81 - 5.08) (89) (89 - 45)/(89 - 45) 1062-20-06** 20 - 06 (1.4 - 16)/(3.5 - 1.0) (1.95 - 1.15)/(3.81 - 5.08) (89) (89 - 45)/(89 - 45) 1062-14-01** 14 - 16 (2.5 - 1.0) (2.41 - 3.81) (3.81 - 5.08) (111) (111) 1062-14-01** 14 - 16 (2.075) (2.915) (3.81 - 5.08) (111) (111) 1062-16-01** 16 - 18 (2.075) (1.9 - 3.55) (3.81 - 5.08) (111) 1062-16-07** 16 - 18 (2.075) (1.40 - 3.55) (3.81 - 5.08) (111) 1062-16-07** 1.0 - 2.5 (1.40 - 2.54) (3.81 - 5.08) (111) (111) 1062-16-07** 1.0 - 2.5 (1.40 - 2.54) (3.81 - 5.08) (111) (111) 1062-16-07** 1.0 -	1060-20-	01**	1062-20-01**	20 - 01	16 - 22 (1.0 - 0.35)	.075125 (1.91 - 3.15)	.150200 (3.81 - 5.08)	20 (89)	20 - 10 (89 - 45)	7.5
1062-20-03** 20 - 03 116 - 22 (1.91 - 3.15) 1.50200 20 - 10 (89) 20 - 10 (89) 1062-20-06** 20 - 06 (1.9 - 3.15) (1.91 - 3.15) (3.81 - 5.08) (89) (89 - 45) 1062-10-06** 20 - 06 (2.5 - 1.0) (1.91 - 3.15) (3.81 - 5.08) (20 - 10) 1062-14-01** 14 - 16 (2.5 - 1.0) (2.41 - 3.81) (3.81 - 5.08) (111) (111) 1062-14-01** 14 - 16 (2.5 - 1.0) (2.41 - 3.81) (3.81 - 5.08) (111) (111) 1062-14-01** 14 - 16 (2.075) (2.41 - 3.81) (3.81 - 5.08) (111) (111) 1062-16-01** 16 - 18 (2.075) (1.91 - 3.55) (3.81 - 5.08) (111) (111) 1062-16-07** 0.75 - 2.0 (1.0 - 0.50) (1.50 - 2.50) (1.50 - 2.00) (2.5 - 1.5) (1.11 - 6.75) (1.11 - 6.75) (1.11 - 6.75) (1.11 - 6.75) (1.11 - 6.75) (1.11 - 6.75) (1.11 - 6.75) (1.11 - 5.08) (111) (111) (111) (111) (111) (111) (111	1060-20-	**20	1062-20-02**	20 - 02	16 - 22 (1.0 - 0.35)	.051085	.150200 (3.81 - 5.08)	20 (89)	20 - 10 (89 - 45)	7.5
1062-10-06*** 20 - 06 14 - 16 .075125 .150200 20 20 - 10 1062-14-01** 14 - 16 (2.5 - 1.0) (1.91 - 3.15) 3.81 - 5.08) 25 20 - 10 1062-14-01** 14 - 16 (2.5 - 1.0) (-245150) 3.81 - 5.08) (11) 25 1062-14-01** 14 - 16 (2.075) (2.41 - 3.81) (3.81 - 5.08) (111) (111) 1062-16-01** 16 - 20 (2.5 - 1.00) 150 - 200 25 (111) 1062-16-06** 0.5 - 1.0 (1.0 - 2.54) (1.5020) 25 (111) 1062-16-07** 0.5 - 1.0 (1.0 - 2.54) (3.81 - 5.08) (111) (111) 1062-16-07** 0.75 - 2.0 (1.40 - 2.54) (3.81 - 5.08) (111) (111) 1062-16-07** 0.75 - 2.0 (1.91 - 3.55) (3.81 - 5.08) (111) (111) 1062-16-08** 16 - 18 (3.075) (1.91 - 3.55) (3.81 - 5.08) (111) 1062-16-09** 16 - 18 (3.075) (1.91 - 3.55) <td>N/A</td> <td></td> <td>1062-20-03**</td> <td>20 - 03</td> <td>16 - 22 (1.0 - 0.35)</td> <td>.075125</td> <td>(3.81 - 5.08)</td> <td>20 (89)</td> <td>20 - 10 (89 - 45)</td> <td>7.5</td>	N/A		1062-20-03**	20 - 03	16 - 22 (1.0 - 0.35)	.075125	(3.81 - 5.08)	20 (89)	20 - 10 (89 - 45)	7.5
1062-14-01** 14-16 (2.5-1.0) (2.5-1.20) (2.5-2.0) (2.5-2.0) (2.5-2.0) (2.5-1.0) (2.41-3.81) (3.81-5.08) (111) (111) 1062-14-10** 14-16 (2.0-7.5) (2.41-3.81) (3.81-5.08) (111) (111) 1062-16-01** 16-18 (2.0-7.5) (1.91-3.55) (3.81-5.08) (111) (111) 1062-16-06** 0.5-1.0 (1.6-20) 0.55-1.0 (1.50-2.58) (111) (111) 1062-16-06** 0.75-2.0 1.4-18 0.75-1.40 3.81-5.08 (111) (111) 1062-16-07** 0.75-2.0 (1.91-3.55) (3.81-5.08) (111) (111) 1062-16-09** 16-18 0.75-1.40 3.81-5.08) (111) (111) 1062-16-07** 0.75-2.0 (1.91-3.55) (3.81-5.08) (111) (111) 1062-16-09** 16-18 0.75-1.40 3.81-5.08) (111) (111) 1062-16-01** 16-18 0.75-1.40 0.75-1.25 25 (111) 1062-	1060-20-	**90	1062-20-06**	20 - 06	14 - 16 (2.5 - 1.0)	.075125	.150200	20 (89)	20 - 10 (89 - 45)	7.5
1062-14-10** 14-18 .095150 .150200 25 (111) 1062-14-10** 14-16 (2.075) (2.41-3.81) (3.81-5.08) (111) 25 1062-16-01** 16-18 (2.075) (1.95140) .150200 25 (111) 1062-16-06** 0.5-1.0 (1.0-0.50) (1.40-2.54) (3.81-5.08) (111) 25515 1062-16-07** 0.75-2.0 (1.4-18) .075140 .150200 25 (111) 1062-16-07** 0.75-2.0 (1.91-3.55) (3.81-5.08) (111) 25 25 1062-16-09** 16-18 .075140 .150200 25 (111) 25 1062-16-10** 10-2.5 (1.91-3.55) (1.45-5.22) 25 (111) 1062-16-14** 14-16 (2.5-1.0) (1.91-3.55) (4.45-5.72) 25 (111) 1062-16-14** 14-16 (2.5-1.0) (1.91-3.55) (4.45-5.72) (111) (111) 1062-12-01** 12-14 (1.2-16 (2.5-1.744	1060-14-	.01**	1062-14-01**	14-16	14 - 16 (2.5 - 1.0)	.095150 (2.41 - 3.81)	.150200 (3.81 - 5.08)	25 (111)	25 (111)	13
1062-16-01** 16-18 (275-140) (150-200) 25 25 1062-16-06** 0.5-1.0 (1.075) (1.91-3.55) (3.81-5.08) (111) (111) 1062-16-06** 0.5-1.0 (1.00.50) (1.40-2.54) (3.81-5.08) (111) (111-67) 1062-16-07** 0.75-2.0 (1.91-3.55) (3.81-5.08) (111) (111-67) 1062-16-09** 16-18 0.75-1.40 1.50-2.00 25 (111) 1062-16-09** 16-18 0.75-1.40 1.75-2.20 25 (111) 1062-16-12** 1.0-2.5 (1.21-6 0.75-1.40 1.75-2.25 25 1062-16-14** 14-16 12-16 0.75-1.40 1.75-2.25 25 1062-16-14** 14-16 (1.91-3.55) (4.45-5.72) (111) 1062-16-14** 12-14 (1.91-3.55) (4.45-5.72) (111) 1062-16-10** 12-14 (1.91-3.55) (3.25-2.25 25 1062-16-11** 12-14 (1.91-3.55) (3.25-2.25 25 <td>1060-14</td> <td>-10**</td> <td>1062-14-10**</td> <td>14 - 16</td> <td>14 - 18 (2.075)</td> <td>.095150 (2.41 - 3.81)</td> <td>.150200</td> <td>25 (111)</td> <td>25 (111)</td> <td>13</td>	1060-14	-10**	1062-14-10**	14 - 16	14 - 18 (2.075)	.095150 (2.41 - 3.81)	.150200	25 (111)	25 (111)	13
1062-16-06** 0.5 - 1.0 16 - 20 055 - 100 150 - 200 25 155 1062-16-07** 0.75 - 2.0 (1.0 - 0.50) (1.40 - 2.54) (3.81 - 5.08) (111) (111 - 67) 1062-16-07** 0.75 - 2.0 (2.075) (1.91 - 3.55) (3.81 - 5.08) (111) (171) 1062-16-09** 16 - 18 (2.075) (1.91 - 3.55) (3.81 - 5.08) (111) (2.5 - 1.5) 1062-16-12** 16 - 18 (2.075) (1.91 - 3.55) (3.81 - 5.08) (111) (111) 1062-16-14** 1 - 2.5 (1.91 - 3.55) (3.81 - 5.08) (111) (111) 1062-16-14** 14 - 16 (2.5 - 1.0) (1.91 - 3.55) (4.45 - 5.72) (111) 1062-12-01** 12 - 14 (1.91 - 3.55) (4.45 - 5.72) (111) (111) 1062-12-02** 10 - 12 (1.0 - 2.0) (1.91 - 3.55) (3.25 - 2.25) (111) (111) 1062-12-02** 10 - 12 (1.0 - 2.0) (1.91 - 3.55) (3.60 - 2.75) (3.10) 1062-12-06**<	1060-16	.01**	1062-16-01**	16 - 18	14 - 18 (2.075)	.075140 (1.91 - 3.55)	.150200 (3.81 - 5.08	, 25 (111)	25 (111)	13
1062-16-07** 0.75 - 2.0 14 - 18 .075140 .150200 25 (111) 1062-16-09** 16 - 18 (2.075) (1.91 - 3.55) (3.81 - 5.08) (111) (111) 1062-16-09** 16 - 18 (2.075) (1.91 - 3.55) (1.50200) 25 (2.5) 1062-16-10** 10 - 2.5 (1.91 - 3.55) (4.45 - 5.72) 25 (111) 1062-16-14** 14 - 16 (2.5 - 1.0) (1.91 - 3.55) (4.45 - 5.72) 25 1062-12-01** 12 - 14 (1.2 - 16) (1.91 - 3.55) (4.45 - 5.72) (111) 1062-12-02** 12 - 14 (1.2 - 16) (1.91 - 3.55) (4.45 - 5.72) (111) 1062-12-01** 12 - 14 (1.2 - 14) (1.3 - 1.76) (2.25275 30 1062-12-02** 10 - 12 (0.0 - 4.0) (3.56 - 5.78) (134) (311)	1060-16	**90-	1062-16-06**	0.5 - 1.0	16 - 20 (1.0 - 0.50)	055100 (1.40 - 2.54)	.150200 (3.81 - 5.08)	25 (111)	25 - 15 (111 - 67)	13
1062-16-09** 16 - 18 14 - 18 (2.075) .075140 (3.81 - 5.08) .150200 (2.5) .25 (2.5) 1062-16-12** 16 - 18 (2.075) (1.91 - 3.55) (3.81 - 5.08) (111) (111) 1062-16-12** 1.0 - 2.5 (2.5 - 1.0) (1.91 - 3.55) (4.45 - 5.72) (111) 2.5 1062-16-14** 14 - 16 (2.5 - 1.0) (1.91 - 3.55) (4.45 - 5.72) (111) 2.5 1062-12-01** 12 - 14 (1.91 - 3.55) (4.45 - 5.72) (111) (111) 1062-12-02** 10 - 12 (1.0 - 2.0) (1.91 - 2.05 (3.55 - 5.72) (111) (111) 1062-12-02** 10 - 12 (1.0 - 2.0) (3.56 - 5.18) (5.72 - 6.99) (134) (311)	1060-16	**40-	1062-16-07**	0.75 - 2.0	14 - 18 (2.075)	.075140 (1.91 - 3.55)	.150200 (3.81 - 5.08)	25 (111)	25 (111)	13
1062-16-12** 1.0 - 2.5 12 - 16 .075140 .175225 25 25 (111) (11	1060-16	**60-	1062-16-09**	16 - 18	14 - 18 (2.075)	.075140	.150200 (3.81 - 5.08)	25 (111)	25 (111)	13
1062-16-14** 14 - 16 12 - 16 (2.5 - 1.0) .075140 (1.91 - 3.55) .175225 (111) .25 (111) 1062-12-01** 12 - 14 (1.2 - 1.0) 1.3176 (1.3 - 1.0) .225275 (111) .70 1062-12-02** 10 - 12 (6.0 - 4.0) (3.56 - 5.18) (5.72 - 6.99) (134) .70 1062-12-02** 10 - 12 (6.0 - 4.0) (3.56 - 5.18) (5.72 - 6.99) (134) .70	1060-16	-12**	1062-16-12**	1.0 - 2.5	12 - 16 (2.5 - 1.0)	.075140 (1.91 - 3.55)	.175225 (4.45 - 5.72)	25 (111)	25 (111)	13
1062-12-01** 12 - 14 .13176 .225275 30 70 1062-12-02** 10 - 12 .140204 .257275 30 (134) (311) 1062-12-02** 10 - 12 .140204 .225275 30 70 (6.0 - 4.0) (3.56 - 5.18) (5.72 - 6.99) (134) (311)	N/A		1062-16-14**	14 - 16	12 - 16 (2.5 - 1.0)	.075140	.175225 (4.45 - 5.72)	25 (111)	25 (111)	13
1062-12-02** 10 - 12 10 - 12 1.40204 .225275 30 70 (3.56 - 5.18) (5.72 - 6.99) (134) (311)	1060-12	-01**	1062-12-01**	12 - 14	12 - 14 (4.0 - 2.0)	.113176 (2.87 - 4.47)	.225275 (5.72 - 6.991)	30 (134)	70 (311)	25
	1060-12	-05**	1062-12-02**	10 - 12	10 - 12 (6.0 - 4.0)	.140204 (3.56 - 5.18)	.225275 (5.72 - 6.99)	30 (134)	70 (311)	25

^{**} For proper dies and stamped & formed crimp dimensions - See Envelope 0425-208-0000 12 Size 0425-203-0000 16 Size 0425-207-0000 20 Size 0425-207-0000 20 Size 0425-059-0000 16,20 Size 0425-039-0000 16,20 Size 0425-039-0000 16 Size 0425-039-0000 16 Size 0425-041-0000 12 Size

Consult factory for alternate finishes



HD/HDP ACCESSORIES HDP



and receptacles Connecting hardware available *HDP2*-24-****-LO15 through distribution Available in plugs



Straight Backshell P/N 2428-008-2405

Locking tabs ensure closure



HDP2-24-****-LO17 HDP2*-18-****-L017 Available in plugs and receptacles



2428-004-2405

Locking tabs ensure closure



Straight Strain Relief (Aluminum)



90° Strain Relief (Aluminum)

18	24	SIZE
WHDS-18-2	WHDS-24-2	PART NO.

(Connector shown for reference only.)

HDB - HD30 Series Only Breakaway Plug

-072 ADAPTOR ONLY

SIZE 24 18

WHDS-18-1 WHDS-24-1 PART NO.

-L006 WITHOUT DRAIN HOLES -059 WITH DRAIN HOLES Cable Clamp*

*Metal Shells Only

to emergency disconnect is 50 lbs. Maximum force required is 100 lbs. Mate with HD30 Series Designed to interconnect with the HD30 Series receptacles and provide an emergency mod). Minimum force required contacts and cable clamps (-059 requiring power connections.

HDB - Breakaway Plugs can
be specified with pin or socket tractors disconnect and between implements farm



	1			
HUC	$\bar{\alpha}$	HDB 36-18-XXSN-059	18	
HUC	24	HDB 36-24-XXSN-059	24	
,	2	PART NO.	SIZE	
PAK	SIZE PAR			

Protective Caps

Plug cap for receptacle protection (Aluminum)

Receptacle cap for plug protection (Aluminum) Protective Caps



00 00 10	DC 36-24	ART NO.	
	-1 E	WITHOUT MTG CHAIN (ADD)	

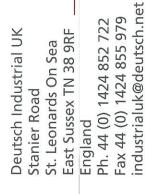
_	-1 E	IDC 36-18
2	-1 E	IDC 36-24
	CHAIN (ADD)	
	WITHOUT MTG	ART NO.



928	Į.			
18	24		SIZE	100
HDC 34 -18	HDC 34-24		PART NO.	
-1E	그	CHAIN (ADD)	WITHOUT MTG	

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