



DEUTSCH
INDUSTRIAL PRODUCTS DIVISION

<http://www.deutschipd.com>

HDP20 Series

NEW!

18 Size Shell



Corrosion Proof Plastic Shell HDP20 Series Provides a Cost Effective Alternative

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

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

Backshell Adapters for HDP20 Series*

Modification part numbers

- L015 - A threaded adapter that allows the user to attach convoluted tubing
- L017 - This adapter ring allows the user to attach a clamshell type adapter



* Please consult factory for availability of size 18 shell adapters



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2850 Industrial Avenue, Hemet, California 92345 • Telephone (909) 765-2250 • Fax (909) 765-2255

Ordering Information HDP PART NUMBERING SYSTEM

HD P 24 - 18-14 P N - ****

Designates Heavy
Duty Cylindrical

Denotes Composite

2 = Standard Commercial
Bulk Packed without
contacts or accessories

4 = Receptacle - Jam nut
type mounting

6 = Plug

Modifications

Wire Seal Options
N = Normal
E = Extra Thin Wall

P = Pin
S = Socket

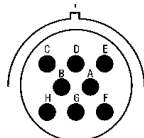
Shell size and
insert arrangement

Sold separately:

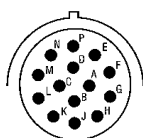
Lock Washer 114021
Panel Nut 2411-002-1805

HDP20 Series 18 Shell Insert Arrangements

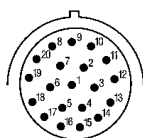
* All insert arrangements shown as rear of socket insert



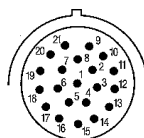
18-8*
8 size 12*



18-14
14 size 16



18-20
2 size 16 & 18 size 20



18-21
21 size 20

Material Specifications

Mounting Hardware

Panel Nut: Composite
Lock washer: Spring steel

Contacts

Pin: Copper alloy
Socket: Copper alloy
Finish: Nickel plating

Sealing Plugs

Thermoplastic: size 12 thru 20

Performance Specifications

Temperature

Operating at temperatures from -55° to +125 ° C.

Durability

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

Contact Current Rating @ 125C (continuous)

Current size	Max. Current
#12	25 amps
#16	13 amps
#20	7.5 amps

Dielectric Withstanding Voltage:

Current leakage less than 2 milliamps at 1500 VAC.

Insulation Resistance

1000 megohms min. at 25 ° C.

Vibration

Maintains continuity and exhibits no mechanical physical damage during or while subject to a sinusoidal vibration, having an amplitude of .060 inches double amplitude and the frequency varied linearly between limits of 10 to 20000 to 10 Hz with a maximum force of 20g's. No electrical discontinuities longer than 1 microsecond.

Moisture Resistance

Water does not penetrate seals when submerged in 3 feet of water.

Corrosion Resistance

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

Fluid Resistance

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

STAMPED & FORMED CONTACTS

Contact Part Number	Size & Type	Wire Gauge Range	Insulation O.D.	Recommended Strip Length	Hand Crimp Tool	Production Crimp Tool Die	**
1060-20-0122 1062-20-0122	20 PIN 20 SOCKET	16, 18 & 20 AWG (1.0-.5mm ²) 16, 18 & 20 AWG (1.0-.5mm ²)	0.075-0.125 (1.90-3.15mm) 0.075-0.125 (1.90-3.15mm)	.150-2.00 (3.81-5.08mm) .150-2.00 (3.81-5.08mm)	DTT-20-00 DTT-20-00	DCT20-02-00 DCT20-02-00	
1060-20-0222 1062-20-0222	20 PIN 20 SOCKET	16, 18 & 20 AWG (1.0-0.5mm ²) 16, 18 & 20 AWG (1.0-0.5mm ²)	0.050-0.085 (1.3-2.15mm) 0.050-0.085 (1.3-2.15mm)	.150-2.00 (3.81-5.08mm) .150-2.00 (3.81-5.08mm)	DTT-20-02 DTT-20-02	DCT20-02-00 DCT20-02-00	
1060-16-0722 1062-16-0722	16 PIN 16 SOCKET	14, 16 & 18 AWG (0.75-2.0mm ²) 14, 16 & 18 AWG (0.75-2.0mm ²)	.075-0.115 (1.90-2.90mm) .075-0.115 (1.90-2.90mm)	.150-2.00 (3.81-5.08mm) .150-2.00 (3.81-5.08mm)	DTT-16-00 DTT-16-00	DCT16-02-00 DCT16-02-00	
1060-16-0622 1062-16-0622	16 PIN 16 SOCKET	16, 18 & 20 AWG (0.50-1.0mm ²) 16, 18 & 20 AWG (0.50-1.0mm ²)	.055-.083 (1.40-2.10mm) .055-.083 (1.40-2.10mm)	.150-2.00 (3.81-5.08mm) .150-2.00 (3.81-5.08mm)	DTT-16-00 DTT-16-00	DCT16-02-00 DCT16-02-00	
1060-16-0122 1062-16-0122	16 PIN 16 SOCKET	16 & 18 AWG (0.75-1.5mm ²) 16 & 18 AWG (0.75-1.5mm ²)	.075-0.115 (1.90-2.92mm) .075-0.115 (1.90-2.92mm)	.150-2.00 (3.81-5.08mm) .150-2.00 (3.81-5.08mm)	DTT-16-00 DTT-16-00	DCT16-02-00 DCT16-02-00	
1060-14-0122 1062-14-0122	16 PIN 16 SOCKET	14 & 16 AWG (2.0-1.0mm ²) 14 & 16 AWG (2.0-1.0mm ²)	.095-.150 (2.41-3.81mm) .095-.150 (2.41-3.81mm)	.150-2.00 (3.81-5.08mm) .150-2.00 (3.81-5.08mm)	DTT-16-00 DTT-16-00	DCT16-02-00 DCT16-02-00	
1060-12-0166 1062-12-0166	12 PIN 12 SOCKET	12 & 14 AWG (3.0-2.0mm ²) 12 & 14 AWG (3.0-2.0mm ²)	.113-.170 (2.87-4.32mm) .113-.170 (2.87-4.32mm)	.225-.275 (5.72-6.99mm) .225-.275 (5.72-6.99mm)	DTT-12-00 DTT-12-00	DCT12-02-00 DCT12-02-00	

**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

Consult factory for alternate finishes



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