

PART NUMBERING SYSTEM OF CONNECTOR.

HDP26-24-21**-****

Deutsch plastic connector—Modification
Packed without contacts = 2—N, T, E = type of wire seal (grommet)
Receptacle = 4—P = Pin contact
Plug = 6—S = Socket contact
Shell size 24 or 18 - contact arrgm.

REV

G

0425-021-0000

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
D	REVISED PER E.O.P18635	9/20/04	R.D.R.
E	REVISED PER E.O.P20202	4/15/09	R.D.R.
F	REVISED PER E.O.P20854	3/25/11	R.D.R.
G	REVISED PER E.O.P21391	6-15-12	RDR

CONTACT SIZE	RECOMMENDED WIRE INSULATION O.D. FOR:			SEALING PLUG PART NO.	CONTACT REMOVAL TOOLS FOR -N- SEALS		CONTACT REMOVAL TOOLS FOR -T- SEALS		CONTACT REMOVAL TOOLS FOR -E- SEALS	
	N-SEAL	T-SEAL	E-SEAL		PART.NO	WIRE RANGE [mm ²]	PART.NO	WIRE RANGE [mm ²]	PART.NO	WIRE RANGE [mm ²]
#4	.311-.420 [7.90-10.67]	N/A	N/A	114019	0411-027-0405	4 AWG [21.0]	N/A	N/A	N/A	N/A
#4	.280-.292 [7.11-7.42]	.261-.292 [6.63-7.42]	.261-.292 [6.63-7.42]	114019	114009	6 AWG [13.0]	N/A	N/A	114009	6 AWG [13.0]
#8	.190-.240 [4.83-6.10]	.170-.240 [4.32-6.10]	.135-.220 [3.43-5.59]	114018	114008	8-10 AWG [8.0-5.0]	N/A	N/A	0411-353-0805	8-10 AWG [8.0-5.0]
#12	.134-.170 [3.40-4.32]	.113-.170 [2.87-4.32]	.097-.158 [2.46-4.01]	114017	114010	12-14 AWG [3.0-2.0]	N/A	N/A	0411-337-1205	12-14 AWG [3.0-2.0]
#16	.100-.134 [2.54-3.40]	.088-.134 [2.23-3.40]	.053-.120 [1.35-3.05]	114017	0411-204-1605	14-16 AWG [2.0-1.0]	0411-310-1605	14-16 AWG [2.0-1.0]	0411-336-1605	14-16 AWG [2.0-1.0]
#16	.100-.134 [2.54-3.40]	.088-.134 [2.23-3.40]	.053-.120 [1.35-3.05]	114017	0411-204-1605	16-20 AWG [1.0-0.5]	0411-310-1605	16-20 AWG [1.0-0.5]	0411-336-1605	16-20 AWG [1.0-0.5]
#20	.040-.095 [1.02-2.41]	.040-.095 [1.02-2.41]	.040-.095 [1.02-2.41]	0413-204-2005	0411-240-2005	20-22 AWG [0.5-0.35]	0411-240-2005	20-22 AWG [0.5-0.35]	0411-240-2005	20-22 AWG [0.5-0.35]

MOUNTING PARTS PART NOS.

SHELL SIZE	24	18
PANEL NUT	2411-001-2405	2411-002-1805
LOCK WASHER	2414-001-2486	2414-002-1886

PANEL NUT MOUNTING TORQUE

TOOL SIZE

TOOL SPEED MAX

24 SHELL SIZE	65 - 75 IN.LB. [7.4 - 8.4 N.M.]	1 7/8" SOCKET	5 RPM
18 SHELL SIZE	45 - 55 IN.LB. [5.1 - 6.1 N.M.]	1 11/16" SOCKET	5 RPM

BACK SHELL PART NOS. (-L017 MOD.)

SHELL SIZE	24	18
90 DEGREE	2428-004-2405	N/A
STRAIGHT	2428-008-2405	N/A

RECOMMENDED SIZE OF MOUNTING HOLE

SHELL SIZE	A ϕ	B
18	1.507 [38.28]	1.442 [36.63]
24	1.696 [43.08]	1.632 [41.45]

MATERIAL SPECIFICATIONS:

PLUG:

SHELL: THERMOPLASTIC
SHELL COLOR: BLACK
COUPLING RING: THERMOPLASTIC
INSERTS:
RETAINER: THERMOPLASTIC
SEAL: RED SILICONE ELASTOMER

RECEPTACLE:

SHELL: THERMOPLASTIC
SHELL COLOR: BLACK
INSERTS:
RETAINER: THERMOPLASTIC
SEAL: RED SILICONE ELASTOMER
PANEL NUT: THERMOPLASTIC
LOCKWASHER: SPRING STEEL
FINISH: TIN OVER NICKEL

SEALING PLUGS:

SIZE 20 THRU. 8: THERMOPLASTIC
SIZE 4: ELASTOMER

PERFORMANCE SPECIFICATIONS:

DIELECTRIC WITHSTANDING VOLTAGE:
CURRENT LEAKAGE LESS THAN
2 MILLIAMPS AT 1500 VAC.

TEMPERATURE:
OPERATING
FROM -67°F TO +257°F
FROM (-55°C TO +125°C)

DURABILITY:
NO ELECTRICAL OR MECHANICAL
DEFECTS AFTER 100 CYCLES OF
ENGAGEMENT AND DISENGAGEMENT.

PHYSICAL SHOCK:
NO UNLOCKING, UNMATING OR OTHER
UNSATISFACTORY RESULT DURING OR
AFTER 50g's IN EACH OF THREE
MUTUALLY PERPENDICULAR PLANES.
NO ELECTRICAL DISCONTINUITIES
LONGER THAN 1 MICROSECOND.

VIBRATION:

MAINTAINS CONTINUITY AND EXHIBITS
NO MECHANICAL OR PHYSICAL DAMAGE
DURING OR WHILE SUBJECT TO A
SINUSOIDAL VIBRATION, HAVING AN
AMPLITUDE OF .060 INCHES D.A. AND
THE FREQUENCY VARIED LINEARLY
BETWEEN LIMITS OF 10 TO 2000 HZ
WITH A MAXIMUM FORCE OF 20g's IN A
PERIOD OF 1.0 MINUTE. NO ELECTRICAL
DISCONTINUITIES LONGER THEN
1 MICROSECOND.

ENVIRONMENTAL CHARACTERISTICS:
WATER DOES NOT PENETRATE SEALS
WHEN SUBMERGED IN 3 FEET OF WATER

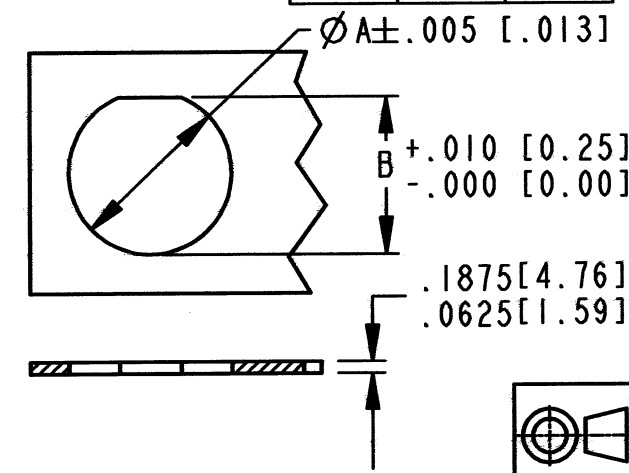
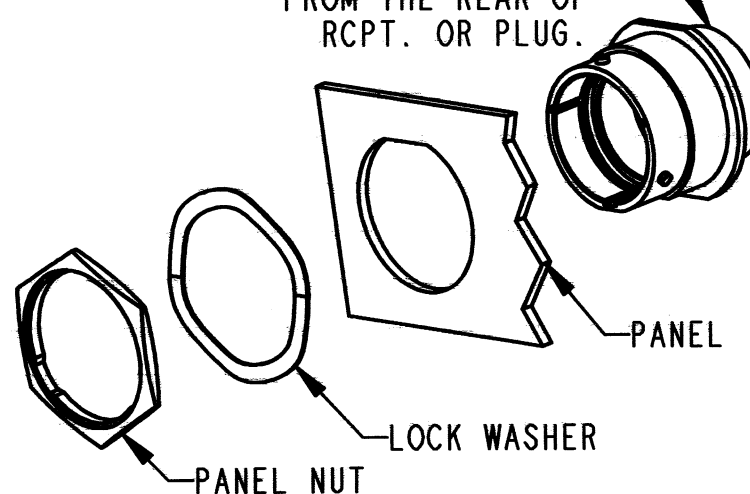
INSULATION RESISTANCE:
1000 MEGOHMS MIN. AT 25°C

CORROSION RESISTANCE:
CONNECTORS SHOW NO EVIDENCE OF
CORROSION AFTER EXPOSURE TO 96
HOURS OF SALT SPRAY.

CONDUIT ADAPTER

MOD. NO. -L015 (sz. 24 only)

COLOR CODE IS VISIBLE
FROM THE REAR OF
RCPT. OR PLUG.



5. THE TYPE OF WIRE SEAL IS INDICATED BY THE COLOR OF THE WELD RING. N = GREEN, T = GRAY, E = BLUE.
4. HDP2*-24-29P/SE & HDP2*-24-47P/S E ARE DESIGNED FOR MODIFIED E-SEALS ONLY. THE MAX. INSULATION O.D. IS: 20 SIZE = .083; 16 SIZE = .103; 12 SIZE = .158.
3. HDP2*-24-31* IS DESIGNED FOR 'T' AND 'E' SEAL ONLY. THE MAX. INSULATION O.D. = .106 [2.69] (INSTEAD OF ϕ .134 OR ϕ .120)

NOTES: 2. DIMENSIONS ARE IN INCHES [MILLIMETERS].
1. CONSULT THE FACTORY FOR ADDITIONAL INFO.

7. FOR ARRANGEMENT OF CONTACT LOCATION SEE ENVELOPE DRAWING 0425-013-1800 OR 0425-014-2400.
6. FOR CONTACTS AND WIRES PERFORMANCE AND APPLICATION CHARACTERISTICS SEE ENVELOPE DRAWING 0425-015-0000.

PERFORMANCE AND APPLICATION

CHARACTERISTICS OF
HDP20 SERIES CONNECTORS

ENVELOPE

EP

MATERIAL CODE

3850 INDUSTRIAL AVE.
HEMET, CA 92545
DEUTSCH
INDUSTRIAL

B 0425-021-0000

DWG SIZE CODE 11139 SHEET 1 OF 1