

4

3

2

1

NOTES: UNLESS OTHERWISE SPECIFIED

1

MATERIAL AND FINISH:
SHELL & JAM NUT: PER MIL-DTL-38999 SERIES III, SEE TABLE I
HERMETIC SEAL: FUSED VITREOUS
INTERFACIAL SEAL (PIN INSERT ONLY): RESILIENT FLOUROSILICONE/SILICONE BLEND
INSULATOR (SOCKET INSERT ONLY): REINFORCED EPOXY
O-RING: FLUOROSILICONE, 60 SHORE
CONTACTS: PER MIL-DTL-38999, AS REQUIRED PER CONTACT STYLE.

2.

THE CONNECTOR DESCRIBED ON THIS DRAWING MEETS APPLICABLE MECHANICAL AND ELECTRICAL CHARACTERISTICS OF MIL-DTL-38999 SERIES III, MIL-DTL-38999/23 AND MIL-STD-1560.

3.

CONNECTOR MATES WITH D38999/26 (HIRELCO 59000* SERIES) AND DERIVATIVES THEREOF.

4.

PIN STYLE 'C' REQUIRES A REDUCED PIN DIAMETER TERMINATION FOR SIZE 22 AND 20 CONTACTS. ALL OTHER SIZES WILL REMAIN CONSISTENT WITH (ØM) THROUGHOUT THE FULL OAL OF THE PIN.

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		SEE ECO D38999/23-011	GCJ 6/6/13	MD
B		SEE ECO D38999/23-018	GCJ 9/26/16	MD

TABLE I

CLASS	MATERIAL	FINISH
H	CRES	SPACE GRADE, ELECTROPOLISHED
N	CRES	ELECTRODEPOSITED NICKEL
Y	CRES	ELECTROPOLISHED

PART NUMBER EXPLANATION

D38999/23 Y-C-35 P N

POLARIZATION: PER MIL-DTL-38999, SERIES III ("N" REQUIRED FOR NORMAL POLARIZATION)

CONTACT STYLE DESIGNATOR:
P = PIN WITH SOLDER CUP
S = SOCKET WITH SOLDER CUP
X = PIN WITH EYELET
Z = SOCKET WITH EYELET
C = PIN-FEED THROUGH 4

INSERT ARRANGEMENT: PER MIL-STD-1560

SHELL SIZE DESIGNATOR

CONNECTOR CLASS PER MIL-DTL-38999 SERIES III, SEE TABLE I

BASIC PART NUMBER

EAR CONTROLLED PRODUCT

WARNING: Information Subject to US Export Control Laws.
This commodity, technology or data is subject to the Export Administration Regulations (EAR). Diversion contrary to U.S. Law is prohibited.

PROPRIETARY NOTICE

This document embodies design, cost and/or pricing information confidential to HiRel Connectors Inc. (HiRel), including its trade secrets, and shall not be disclosed to others per the Freedom of Information Act (5 USC 552(b)), the Trade Secrets act (18 USC 1905), Presidential Executive Order No. 12600 (6/23/87), the Economic Espionage Act (18 USC 1931-32), and the Cal Trade Secrets Act (Civil Code 3426), USA. This data is issued in strict confidence for engineering reference only and may not be used to replicate or manufacture anything, or be reproduced or disclosed to anyone without written permission from HiRel.

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± ~ .XX ± ~ ± ~ .XXX± ~			
		MATERIAL	1		
		FINISH	1		
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

APPROVALS

DATE

DRAWN J. SANCHEZ 08/04/11

CHECKED L. DISHMAN 08/04/11

DESIGN M. DISHMAN 08/04/11

D38999/23

HiRel CONNECTORS INC.

760 W WHARTON DRIVE
CLAREMONT CA 91711

CONNECTOR, RECEPTACLE,
HERMETIC
JAM NUT MOUNTING

SIZE B

CODE IDENT NO. 34222

DRAWING NO. D38999/23****P/S*

SCALE NONE

29435

SHEET 1 OF 2

ENVELOPE

9/27/2016 3:15:47 PM, MANUFACTURING RELEASE

4

3

2

1

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
------	-----	-------------	------	----------

SHELL SIZE	SHELL CODE	$\phi A^{\pm.012}$	$\phi B^{+.011}_{-.000}$	$\phi C^{\pm.011}$	D THREAD	$E^{\pm.005}_{\text{THD FLAT}}$	F _{MAX}	G	$H^{\pm.015}$	J	K _{MAX}	O-RING M25988/3
9	A	1.189	.642	.602	M17x1.0-6g 0.100R	.650	.358	.571 .551	1.063	.114 .098	1.150	-019
11	B	1.374	.764	.724	M20x1.0-6g 0.100R	.750			-022			
13	C	1.500	.894	.850	M25x1.0-6g 0.100R	.937			-024			
15	D	1.626	1.020	.976	M28x1.0-6g 0.100R	1.061			-026			
17	E	1.752	1.142	1.102	M32x1.0-6g 0.100R	1.186			-028			
19	F	1.937	1.268	1.228	M35x1.0-6g 0.100R	1.311	.382	.579 .559	1.811	.146 .130	1.185	-128
21	G	2.063	1.394	1.350	M38x1.0-6g 0.100R	1.436			-130			
23	H	2.189	1.520	1.476	M41x1.0-6g 0.100R	1.561			-132			
25	J	2.311	1.642	1.602	M44x1.0-6g 0.100R	1.686			2.063			-134
									2.189			

SHELL SIZE	'L' MAX	
	WITH PIN	WITH SOCKET
9	.209	.232
11	.209	.232
13	.201	.224
15	.201	.224
17	.201	.224
19	.201	.224
21	.201	.224
23	.201	.224
25	.201	.224

CONTACT SIZE	ϕM (4)	ϕN (4)
12	.093/.095	—
16	.0615/.0635	—
20	.039/.041	.024/.028
22	.0295/.0305	.011/.015

ENVELOPE

4

3

2

1

WARNING: Information Subject to US Export Control Laws.

This commodity, technology or data is subject to the Export Administration Regulations (EAR). Diversion contrary to U.S. Law is prohibited.

PROPRIETARY NOTICE

This document embodies design, cost and/or pricing information confidential to HiRel Connectors Inc. (HiRel), including its trade secrets, and shall not be disclosed to others per the Freedom of Information Act (5 USC 552(b)), the Trade Secrets act (18 USC 1905), Presidential Executive Order No. 12600 (6/23/87), the Economic Espionage Act (18 USC 1931-32), and the Cal Trade Secrets Act (Civil Code 3426), USA. This data is issued in strict confidence for engineering reference only and may not be used to replicate or manufacture anything, or be reproduced or disclosed to anyone without written permission from HiRel.

APPROVALS	DATE
DRAWN J. SANCHEZ	08/04/11
CHECKED L. DISHMAN	08/04/11
DESIGN M. DISHMAN	08/04/11

SIZE	CODE	IDENT NO.	DRAWING NO.
B	34222	D38999/23****P/S*	

SCALE	NONE	29434	SHEET 2 OF 2
-------	------	-------	--------------

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± ~ .XX ± ~ ± 5°
.XXX± ~
MATERIAL 1
FINISH 1
NEXT ASSY USED ON
APPLICATION DO NOT SCALE DRAWING

9/27/2016 3:16:28 PM, MANUFACTURING RELEASE