

PROPRIETARY NOTICE

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EAR CONTROLLED PRODUCT

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Regulations (EAR). Diversion contrary to US Law is prohibited.

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	SEE ECO 85000-450	GCJ	3/26/14
	A1	SEE DCO-01766	ES	12/04/19
	A2	SEE DCO-03146	ES	3/29/21

EXPLANATION OF PART NUMBER

85000Y-9-98 P N

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

- CONTACT STYLE DESIGNATOR:

C = FEED THROUGH CONTACT 
P = PIN CONTACT WITH SOLDER CUP
S = SOCKET CONTACT WITH SOLDER CUP
X = PIN CONTACT WITH EYELET
Z = SOCKET CONTACT WITH EYELET

- INSERT ARRANGEMENT: PER MIL-STD-1560

- SHELL SIZE DESIGNATOR

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

— BASIC NUMBER

TABLE I

CLASS	MATERIAL	FINISH
N	CRES	ELECTRODEPOSITED NICKEL
Y	CRES	ELECTROPOLISHED

NOTES: UNLESS OTHERWISE SPECIFIED

①. MATERIAL AND FINISH:
SHELL PER MIL-DTL-38999, SERIES III, SEE TABLE I
INSERT: FUSED VITREOUS
INTERFACIAL SEAL: SILICONE OR FLUOROSILICONE ELASTOMER
PIN CONTACTS: NICKEL-IRON ALLOY, GOLD PLATED PER ASTM
B488 OVER A SUITABLE UNDERPLATE.
INSULATOR: GLASS REINFORCED EPOXY (SOCKET ONLY).
SOCKET CONTACTS: COPPER ALLOY GENERALLY IN
ACCORDANCE WITH MIL-DTL-39029.

2. THE CONNECTOR DESCRIBED ON THIS DRAWING MEETS MECHANICAL AND ELECTRICAL CHARACTERISTICS OF MIL-DTL-38999 SERIES III, MIL-DTL-38999/21 AND MIL-STD-1560.

3. CONNECTOR MATES WITH D38999/26: HIRELCO 59000 SERIES PLUG CONNECTOR.

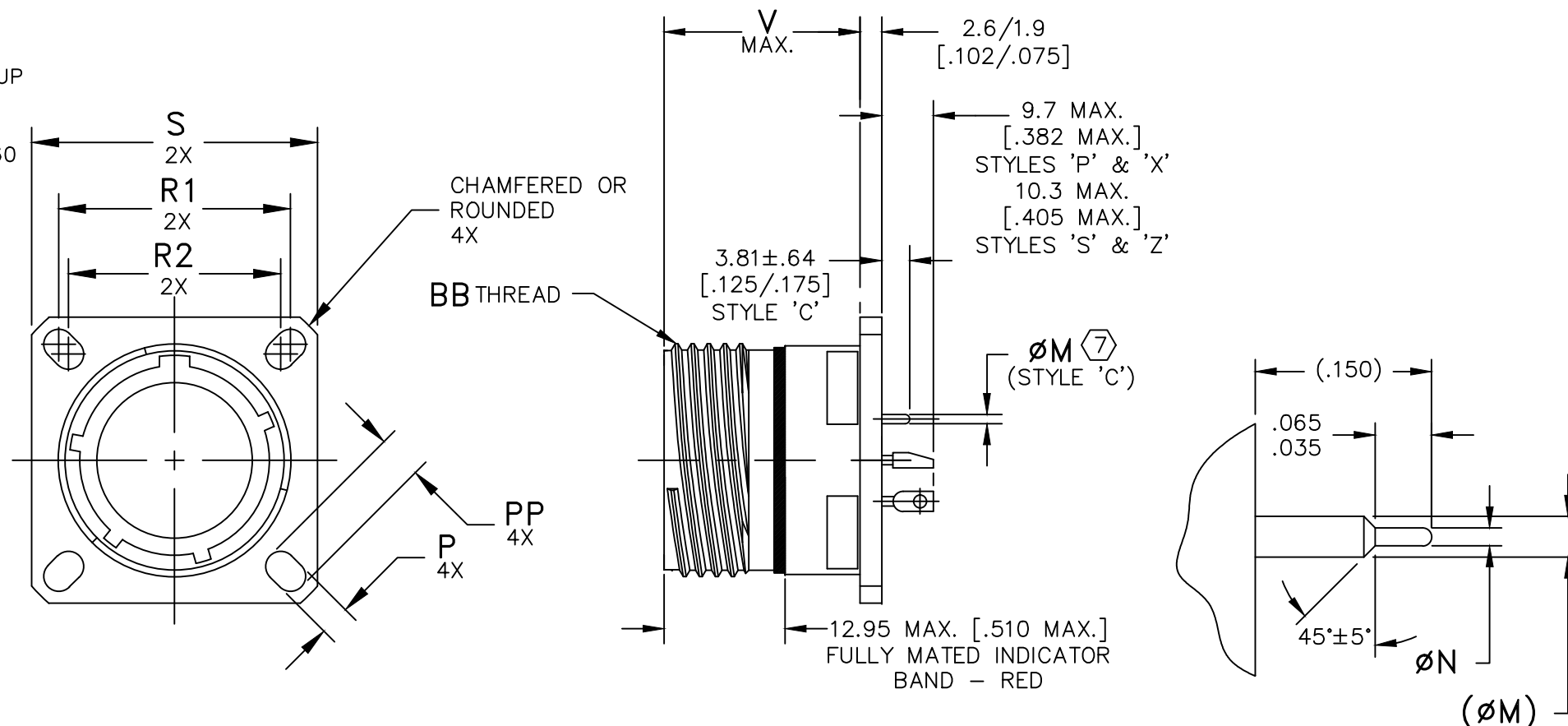
4. FRONT OR REAR PANEL MOUNTING.

5. FRONT PANEL MOUNTING ONLY.

6. DIMENSIONS ARE IN MILLIMETERS [INCHES].

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

(SEE SHEET 2 FOR DIMENSION TABLES).



PIN STYLE 'C' DETAIL (FOR SIZE 22 & 20 CONTACTS)

ENVELOPE

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm .XX \pm$ $\pm .XXX \pm$	APPROVALS DRAWN J. SANCHEZ CHECKED M DISHMAN		DATE 05/13/05 6/21/05	HiREL CONNECTORS INC. 780 W. WHARTON DRIVE CLAREMONT CA 91711		
			MATERIAL 			CONNECTOR, RECEPTACLE HERMETIC. SQ. FLANGE, THREADED COUPLING		
		FINISH 				SIZE B	CODE IDENT NO. 34222	DRAWING NO. 85000*-**-**P/S*
NEXT ASSY	USED ON					SCALE NONE	21261	SHEET 1 OF 2
APPLICATION		DO NOT SCALE DRAWING						

D

C

B

A

4

3

2

1

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ZONE	LTR	DESCRIPTION	DATE	APPROVED
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SEE SHEET 1

MILLIMETERS

Shell Size	Shell Size Code	øP ±0.20	PP ±0.20	R1 (SEE NOTE 4)	R2 (SEE NOTE 5)	S ±0.3	V MAX.	BB THREAD CLASS 2A .1P–.3L–TS
9	A	3.25	5.49	18.26	15.09	23.8	21.4	.6250
11	B	3.25	4.93	20.62	18.26	26.2	21.4	.7500
13	C	3.25	4.93	23.01	20.62	28.6	21.4	.8750
15	D	3.25	4.39	24.61	23.01	31.0	21.4	1.0000
17	E	3.25	4.93	26.97	24.61	33.3	21.4	1.1875
19	F	3.25	4.93	29.36	26.97	36.5	21.4	1.2500
21	G	3.25	4.93	31.75	29.36	39.7	21.4	1.3750
23	H	3.91	6.15	34.93	31.75	42.9	21.4	1.5000
25	J	3.91	6.15	38.10	34.93	46.0	21.4	1.6250

(INCHES)

INCHES

Shell Size	Shell Size Code	øP ±.007	PP ±.007	R1 (SEE NOTE 4)	R2 (SEE NOTE 5)	S ±.011	V MAX.	BB THREAD CLASS 2A .1P–.3L–TS
9	A	.128	.216	.719	.594	.937	.842	.6250
11	B	.128	.194	.812	.719	1.031	.842	.7500
13	C	.128	.194	.906	.812	1.126	.842	.8750
15	D	.128	.173	.969	.906	1.220	.842	1.0000
17	E	.128	.194	1.062	.969	1.311	.842	1.1875
19	F	.128	.194	1.156	1.062	1.437	.842	1.2500
21	G	.128	.194	1.250	1.156	1.563	.842	1.3750
23	H	.154	.242	1.375	1.250	1.689	.842	1.5000
25	J	.154	.242	1.500	1.375	1.811	.842	1.6250

MILLIMETERS

CONTACT SIZE	øM 7	øN 7
12	2.362/2.413	—
16	1.562/1.612	—
20	.991/1.041	.610/.711
22	.749/.775	.279/.381

INCHES

CONTACT SIZE	øM 7	øN 7
12	.093/.095	—
16	.0615/.0635	—
20	.039/.041	.024/.028
22	.0295/.0305	.011/.015

ENVELOPE

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± ~ .XX ± ~ ± ~ .XXX± ~			HiRel CONNECTORS INC. 760 W WHARTON DRIVE CLAREMONT CA 91711				
			MATERIAL			CONNECTOR, RECEPTACLE HERMETIC. SQ. FLANGE, THREADED COUPLING			
			SEE SHEET 1						
		FINISH			SIZE	CODE	IDENT NO.	DRAWING NO.	
		SEE SHEET 1				B	34222	85000*–**–**P/S*	
NEXT ASSY		USED ON				SCALE	NONE	21263	SHEET 2 OF 2
APPLICATION				DO NOT SCALE DRAWING					

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