

REVISIONS
SEE SHEET 1

TABLE I

DASH NO	CONNECTOR SHELL SIZE REF	A + .031/- .016 DIM	B MIN CABLE CLEARANCE	C MAX DIM	D + .000/- .020 DIA	E MAX CLOSED DIM	F + .020/- .000 DIA	G + .016 DIM	H + .000/- .020 DIA	K MAX DIM	L MIN DIM	M + .031 DIM	N + .016 DIM
3C	8S, 10S	.188 (4.8)	.239 (6.1)	.812 (20.6)	.389 (9.9)	.217 (5.5)	.231 (5.9)	.125 (3.2)	.441 (11.2)	1.375 (34.9)	.156 (4.0)	.473 (12.0)	.254 (6.5)
4C	10SL, 12, 12S	.188 (4.8)	.317 (8.1)	.937 (23.8)	.510 (13.0)	.296 (7.5)	.315 (8.0)	.125 (3.2)	.560 (14.2)	1.375 (34.9)	.156 (4.0)	.473 (12.0)	.254 (6.5)
6C	14, 14S	.188 (4.8)	.443 (11.3)	1.062 (27.0)	.627 (15.9)	.390 (9.9)	.440 (11.2)	.125 (3.2)	.676 (17.2)	1.375 (34.9)	.156 (4.0)	.473 (12.0)	.254 (6.5)
8C	16, 16S	.188 (4.8)	.551 (14.0)	1.188 (30.2)	.744 (18.9)	.434 (11.0)	.515 (13.1)	.125 (3.2)	.800 (20.3)	1.375 (34.9)	.156 (4.0)	.473 (12.0)	.254 (6.5)
10C	18	.188 (4.8)	.630 (16.0)	1.312 (33.3)	.870 (22.1)	.434 (11.0)	.614 (15.6)	.125 (3.2)	.926 (23.5)	1.437 (36.5)	.156 (4.0)	.537 (13.6)	.281 (7.1)
12C	20, 22	.250 (6.4)	.771 (19.6)	1.562 (39.7)	1.037 (26.3)	.596 (15.1)	.738 (18.7)	.156 (4.0)	1.107 (28.1)	1.437 (36.5)	.156 (4.0)	.625 (15.9)	.320 (8.1)
16C	24, 28	.250 (6.4)	.959 (24.4)	1.750 (44.5)	1.286 (32.7)	.596 (15.1)	.926 (23.5)	.156 (4.0)	1.357 (34.5)	1.562 (39.7)	.156 (4.0)	.662 (16.8)	.344 (8.7)
20C	32	.312 (7.9)	1.271 (32.3)	2.250 (57.2)	1.890 (40.4)	.858 (21.8)	1.200 (30.5)	.156 (4.0)	1.670 (42.4)	1.812 (46.0)	.156 (4.0)	.940 (23.9)	.406 (10.3)
24C	36	.312 (7.9)	1.396 (35.5)	2.375 (60.3)	1.844 (46.8)	.858 (21.8)	1.363 (34.6)	.188 (4.8)	1.920 (48.8)	2.062 (52.4)	.156 (4.0)	.940 (23.9)	.406 (10.3)
28C	40	.312 (7.9)	1.646 (41.8)	2.625 (66.7)	2.083 (52.9)	1.107 (28.1)	1.611 (40.9)	.188 (4.8)	2.162 (54.9)	2.262 (57.9)	.156 (4.0)	.940 (23.9)	.406 (10.3)
32C	44	.375 (9.5)	1.896 (48.2)	2.812 (71.4)	2.332 (59.2)	1.421 (36.1)	1.865 (47.4)	.188 (4.8)	2.412 (61.3)	2.188 (55.6)	.188 (4.8)	1.047 (26.6)	.500 (12.7)

TABLE I, CONTINUED

DASH NO	P MIN DEG	R MIN DIM	T + .016 DIM	U THREAD CLASS 2A	V THREAD CLASS 2B	W MIN DIM	X DIM	Z DIA		BUSHING REF GS3420 DASH NO	MAX CABLE ENTRY
								FREE	CLOSED		
3C	20°	.531 (13.5)	.641 (16.3)	.138-32 UNC	6-8 230	.500-28 UNEF	.469 (11.9)	.219 (5.6)	.031 (0.8)	3*	.219 (5.6)
4C	20°	.531 (13.5)	.641 (16.3)	.138-32 UNC	6-10 231	.525-24 UNEF	.594 (15.1)	.312 (7.9)	.094 (2.4)	4*	.312 (7.9)
6C	30°	.531 (13.5)	.641 (16.3)	.138-32 UNC	6-10 231	.750-20 UNEF	.594 (15.1)	.438 (11.1)	.250 (6.4)	6*	.438 (11.1)
8C	30°	.531 (13.5)	.641 (16.3)	.138-32 UNC	6-12 232	.875-20 UNEF	.719 (18.3)	.531 (13.5)	.312 (7.9)	8*	.515 (13.1)
10C	30°	.531 (13.5)	.672 (17.1)	.138-32 UNC	6-12 232	1.000-20 UNEF	.719 (18.3)	.625 (15.9)	.375 (9.5)	10*	.614 (15.6)
12C	30°	.531 (13.5)	.719 (18.3)	.164-32 UNC	8-14 248	1.188-18 UNEF	.844 (21.4)	.750 (19.1)	.500 (12.7)	12*	.738 (18.7)
16C	30°	.531 (13.5)	.719 (18.3)	.164-32 UNC	8-18 N/A	1.438-18 UNEF	1.062 (27.0)	.938 (23.8)	.594 (15.1)	16*	.926 (23.5)
20C	35°	.562 (14.3)	.797 (20.2)	.250-20 UNC	416-22 N/A	1.750-18 UNS	1.187 (30.1)	1.250 (31.8)	.938 (23.8)	20*	1.200 (30.5)
24C	35°	.781 (19.8)	1.016 (25.8)	.250-20 UNC	416-22 N/A	2.000-18 UNS	1.312 (33.3)	1.375 (34.9)	.969 (24.6)	24*	1.363 (34.6)
28C	35°	.781 (19.8)	1.016 (25.8)	.250-20 UNC	416-22 N/A	2.250-16 UN	1.312 (33.3)	1.625 (41.3)	1.138 (28.9)	28*	1.611 (40.9)
32C	35°	.781 (19.8)	1.172 (29.8)	.250-20 UNC	416-22 N/A	2.500-16 UN	1.312 (33.3)	1.875 (47.6)	1.375 (34.9)	32*	1.865 (47.4)

NOTES:

- ASSEMBLY IDENTIFIED WITH MANUFACTURERS NAME & P/N, SPACE PERMITTING.
- GLENRAIR 600 SERIES BACKSHELL ASSEMBLY TOOLS ARE RECOMMENDED FOR ASSEMBLY AND INSTALLATION.
- WHEN THE RETAINING RING IS NOT USED, THE DIMENSIONS LISTED IN COLUMN "H" SHALL BE THE MINIMUM OUTER DIAMETER OF THE GLAND FOR THE ASSOCIATED DASH NUMBER.
- OPTIONAL RETAINING RING SHALL BE BONDED TO GLAND.
- LUBRICANT, VV-P-236, MAY BE APPLIED TO THREADS AND SURFACES OF SLEEVE IF REQUIRED.
- FOR SIZES -3 THRU -10, SERRATIONS SHALL BE COVERED WITH RUBBER. LARGER SIZES MAY BE COVERED WITH RUBBER. DEPTH OF RUBBER SHALL NOT EXCEED .013.
- FOR ADDITIONAL CLOSEDOWN OF Ø Z, BUSHINGS GS3420-3* THRU GS3420-32* MAY BE USED. Ø Z SHALL BE FREE OF OBSTRUCTIONS. BUSHINGS ARE NOT SUPPLIED AND MUST BE ORDERED SEPARATELY.
- MATERIAL/FINISH:
CLAMP BODY & SADDLES - AL ALLOY/CADMIIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL (FINISH NOT FOR USE IN SPACE APPLICATION)
SLEEVE - AL ALLOY/GOLD IRIDIITE
SCREWS & WASHERS - CRES/PASSIVATE
GLAND - SILICONE/NA
RETAINING RING - BRASS SAE 70, HARD TEMPER ONLY/NA

PART NUMBER DEVELOPMENT

EXAMPLE: GS85049/ 2 3C

PRODUCT SERIES

BASIC NO

DASH NUMBER, TABLE I

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TOLERANCES:
FRACTIONS ± 1/16
DECIMALS .XX ± .03 (0.8)
DECIMALS .XXX ± .015 (0.4)
ANGLES ± 2°
DO NOT SCALE THIS DRAWING
SEE DRAWING

DRAWN: T. HABER
CHECK: A. MIKLOS
ENGR: A. MIKLOS

DATE: 05/21/08
DATE: 05/21/08
DATE: 05/21/08

CAD: 2488

GLENRAIR, INC.
1211 AIR WAY - GLENDALE - CALIFORNIA 91201

CLAMP ASSEMBLY, ENVIRONMENTAL, CABLE SEALING, STRAIGHT STRAIN RELIEF FOR HELDITL 506 COLLIDER TYPE V CONNECTORS MS310X CLASSES A, B, C OR K CONNECTORS

OTHER DASH NO: SIZE

REV. 1
A

SCALE: N/A WEIGHT: N/A SHEET 2 OF 2

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