



GLI-HE-7087

Hermetic Feedthrough Receptacle Connector

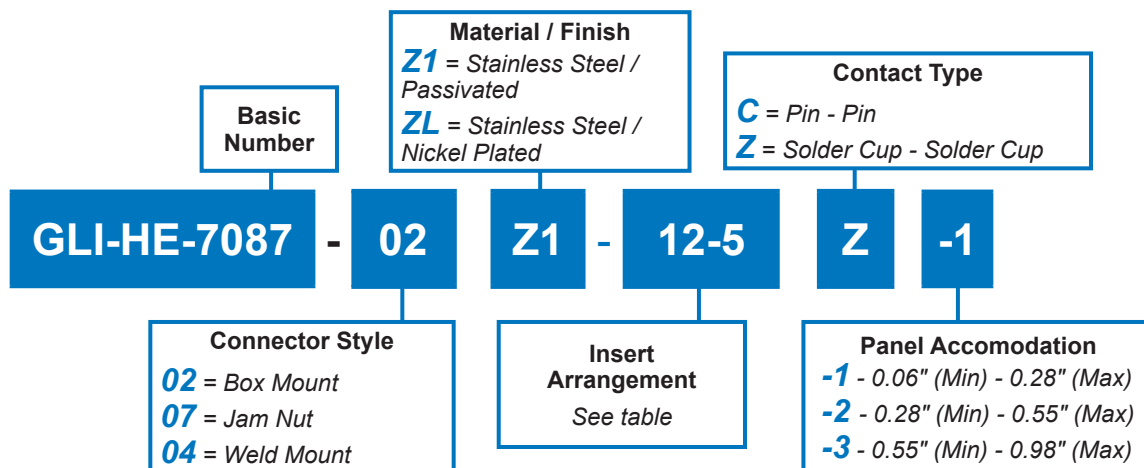


Table I: Hermetic Leak Rate Mode Codes

Designator	Required Leak Rate
-585A	1 x 10 ⁻¹⁰ cc Helium per second
-585B	1 x 10 ⁻⁹ cc Helium per second
-585C	1 x 10 ⁻⁸ cc Helium per second

Table II: Contact Style

Z = Solder Cup - Solder Cup	C = Pin - Pin

Table III: DWV Rating

Contact Size	Test Voltage
23	750 VAC
20HD	1000 VAC
20, 16, 12, 8	1800 VAC

Table IV: Connector Style

07 = Jam Nut Panel Mount	
02 = Box Panel Mount	
04 = Weld Panel Mount	

Application Notes

- To be identified with manufacturer's name, part number and date code, space permitting.
- Performance:
 - Hermeticity - <1 x 10⁻⁷ cc/Sec @ 1 Atm.differential.
 - Dielectric Withstanding Voltage - See Table III.
 - Insulation Resistance - 5000 Megohms min @ 500VDC.
- Material/Finish:
 - Shell:
 - » Stainless steel / passivated; see P/N dev
 - » Stainless steel / nickel plated; see P/N dev
 - Contacts: nickel iron alloy/ gold plated
 - Insulator: vitreous glass
 - Seal: fluorosilicone elastomer

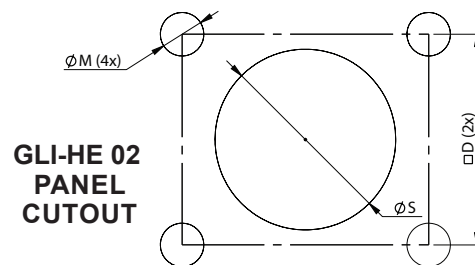
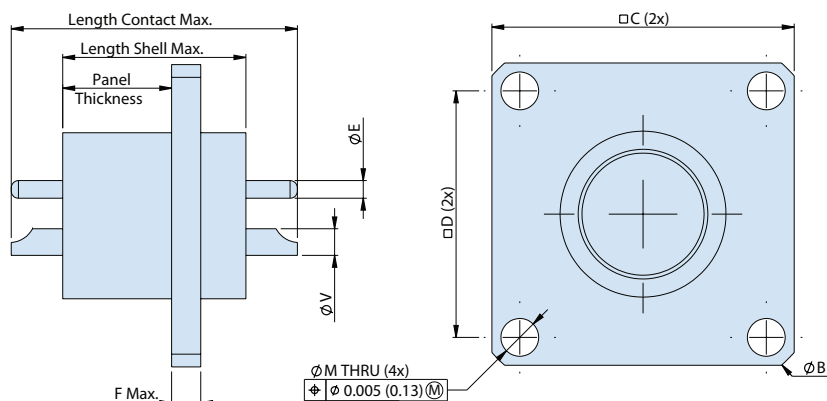
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Hermetic Feedthrough Receptacle Connector



Special
Connectors



00 - Front Panel Mount Square Flange Receptacle with Accessory Mounting Threads

Shell Size	"Ø B" Flange	"C" Square Typ Flange Flats	"D" Square Bsc Mounting Holes	"F" Max Flange	"Ø M" Thru Mtg Holes	"Ø S" Thru
5	1.06 (26.9)	0.785 (19.9)	0.597 (15.2)	0.1 (2.5)	0.096 / 0.091 (2.44 / 2.31)	0.328 (8.3)
6	1.15 (29.2)	0.85 (21.6)	0.66 (16.8)	0.1 (2.5)	0.096 / 0.091 (2.44 / 2.31)	0.39 (9.9)
7	1.23 (31.2)	0.913 (23.2)	0.723 (18.4)	0.1 (2.5)	0.096 / 0.091 (2.44 / 2.31)	0.453 (11.5)
8	1.33 (33.8)	0.975 (24.8)	0.785 (19.9)	0.1 (2.5)	0.096 / 0.091 (2.44 / 2.31)	0.515 (13.1)
9	1.41 (35.8)	1.04 (26.4)	0.848 (21.5)	0.1 (2.5)	0.130 / 0.126 (3.30 / 3.20)	0.578 (14.7)
10	1.5 (38.1)	1.099 (27.9)	0.909 (23.1)	0.1 (2.5)	0.130 / 0.126 (3.30 / 3.20)	0.64 (16.3)
11	1.59 (40.4)	1.163 (29.5)	0.973 (24.7)	0.1 (2.5)	0.130 / 0.126 (3.30 / 3.20)	0.703 (17.9)
13	1.75 (44.5)	1.288 (32.7)	1.058 (26.9)	0.1 (2.5)	0.130 / 0.126 (3.30 / 3.20)	0.828 (21.0)
16	2 (50.8)	1.475 (37.5)	1.255 (31.9)	0.1 (2.5)	0.130 / 0.126 (3.30 / 3.20)	1.015 (25.8)
17	2.094 (53.2)	1.537 (39.0)	1.327 (33.7)	0.125 (3.2)	0.130 / 0.126 (3.30 / 3.20)	1.078 (27.4)
19	2.27 (57.7)	1.663 (42.2)	1.452 (36.9)	0.125 (3.2)	0.130 / 0.126 (3.30 / 3.20)	1.203 (30.6)
21	2.44 (62.0)	1.787 (45.4)	1.576 (40.0)	0.125 (3.2)	0.130 / 0.126 (3.30 / 3.20)	1.328 (33.7)

PC Tail Diameter

Contact Size	Ø E
#23	0.018/0.022 (0.46/0.56)
#20	0.024/0.028 (0.61/0.64)
#16	0.060/0.064 (1.52/1.63)
#12	0.092/0.096 (2.34/2.44)
#8	0.215/0.217 (5.46/5.51)

Solder Cup Diameter

Contact Size	Ø V
#23	1.14/1.19 (0.045/0.047)
#20	1.83/1.68 (0.072/0.066)
#16	2.46/2.62 (0.097/0.103)
#12	3.48/3.63 (0.137/0.143)
#8	6.63/6.71 (0.261/0.264)

PC Tail Diameter

Panel Thickness	Shell Length Max all sizes	Contact Lengths Max				
		Size #23	Size #20	Size #16	Size #12	Size #8
- 1 0.06 - 0.28 (1.5 - 7)	0.71 (18)	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)
- 2 0.28 - 0.55 (7 - 14)	0.98 (25)	1.34 (34)	1.34 (34)	1.34 (34)	1.34 (34)	1.34 (34)
- 3 0.55 - 0.98 (14 - 25)	1.42 (36)	1.77 (45)	1.77 (45)	1.77 (45)	1.77 (45)	1.77 (45)

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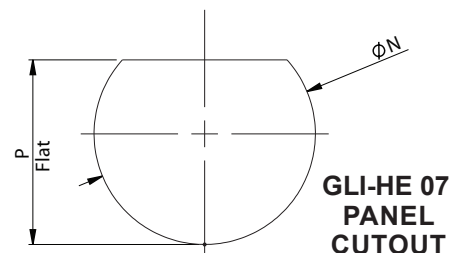
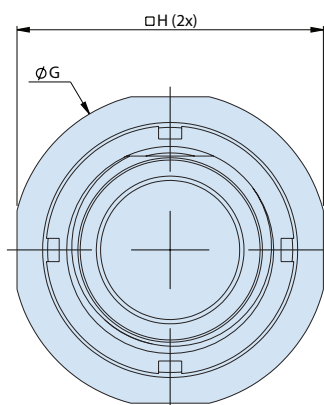
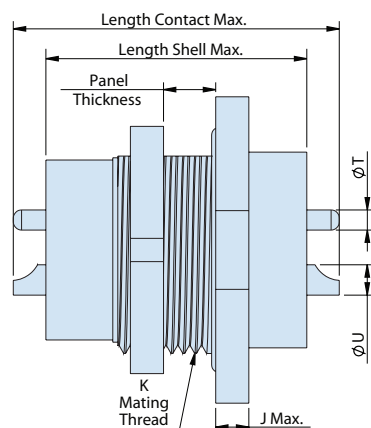
Rev. 08.23.24

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GLI-HE-7087

Hermetic Feedthrough Receptacle Connector

GLI-HE 07
PANEL
CUTOUT

07 - Jam Nut Panel Mount Flange Receptacle

SHELL SIZE	Ø G FLANGE	H SQUARE FLANGE FLATS	J MAX FLANGE	K THREAD MATING	Ø N MOUNTING HOLE	P MOUNTING FLAT
5	0.730 (18.54)	0.700 (17.78)	0.100 (2.54)	0.3750-28 UN-2A	0.385 (9.78)	0.354 (8.99)
6	0.760 (19.30)	0.730 (18.54)	0.100 (2.54)	0.4375-28 UNEF-2A	0.448 (11.38)	0.414 (10.52)
7	0.880 (22.35)	0.850 (21.59)	0.100 (2.54)	0.5625-28 UN-2A	0.572 (14.53)	0.540 (13.72)
8	0.925 (23.50)	0.895 (22.73)	0.100 (2.54)	0.5625-28 UN-2A	0.572 (14.53)	0.540 (13.72)
9	0.955 (24.26)	0.925 (23.50)	0.100 (2.54)	0.6250-28 UN-2A	0.635 (16.13)	0.600 (15.24)
10	1.060 (26.92)	1.035 (26.29)	0.100 (2.54)	0.6875-28 UN-2A	0.698 (17.73)	0.662 (16.81)
11	1.120 (28.45)	1.090 (27.69)	0.100 (2.54)	0.7500-28 UN-2A	0.760 (19.30)	0.724 (18.39)
13	1.203 (30.56)	1.173 (29.79)	0.100 (2.54)	0.8750-28 UN-2A	0.885 (22.48)	0.849 (21.56)
16	1.389 (35.28)	1.359 (34.52)	0.100 (2.54)	1.0625-28 UN-2A	1.072 (27.23)	1.026 (26.06)
17	1.450 (36.83)	1.420 (36.07)	0.128 (3.25)	1.1250-28 UN-2A	1.135 (28.83)	1.100 (27.94)
19	1.580 (40.13)	1.550 (39.37)	0.128 (3.25)	1.2500-28 UN-2A	1.260 (32.00)	1.231 (31.27)
21	1.705 (43.31)	1.675 (42.55)	0.128 (3.25)	1.3750-28 UN-2A	1.385 (35.18)	1.350 (34.29)

PC Tail Diameter

Contact Size	ØT
#23	0.018/0.022 (0.46/0.56)
#20	0.024/0.028 (0.61/0.64)
#16	0.060/0.064 (1.52/1.63)
#12	0.092/0.096 (2.34/2.44)
#8	0.215/0.217 (5.46/5.51)

Solder Cup Diameter

Contact Size	ØU
#23	0.045/0.047 (1.14/1.19)
#20	0.072/0.066 (1.83/1.68)
#16	0.097/0.103 (2.46/2.62)
#12	0.137/0.143 (3.48/3.63)
#8	0.261/0.264 (6.63/6.71)

PC Tail Diameter

Panel Thickness	Shell Length Max all sizes	Contact Lengths Max				
		Size #23	Size #20	Size #16	Size #12	Size #8
- 1 0.06 - 0.28 (1.5 - 7)	0.87 (22)	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)
- 2 0.28 - 0.55 (7 - 14)	1.18 (30)	1.34 (34)	1.34 (34)	1.34 (34)	1.34 (34)	1.34 (34)
- 3 0.55 - 0.98 (14 - 25)	1.57 (40)	1.77 (45)	1.77 (45)	1.77 (45)	1.77 (45)	1.77 (45)

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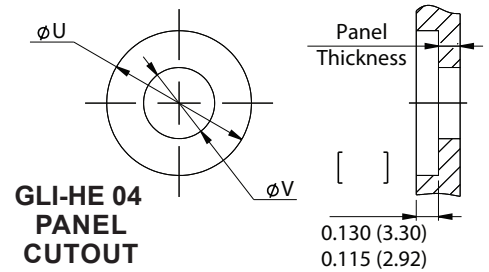
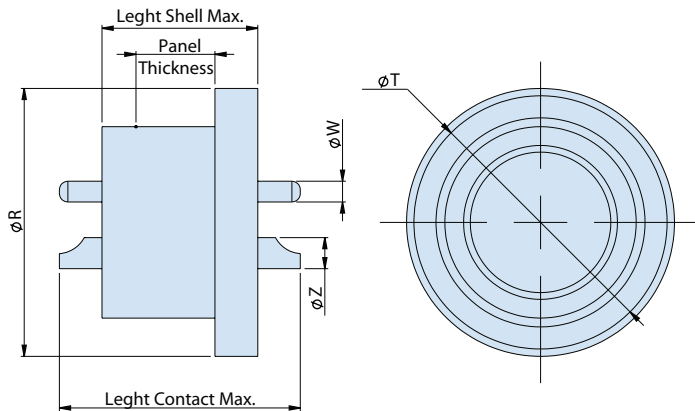
Rev. 08.23.24

GLI-HE-7087

Hermetic Feedthrough Receptacle Connector



Special
Connectors



04 - Weld Panel Mount Flange Receptacle Feedthrough				
SHELL SIZE	SHELL DIMENSIONS		04 - PANEL CUT-OUT	
	Ø R	Ø T	Ø U	Ø V
5	0.600 (15.24)	0.555 (14.10)	0.606 (15.39)	0.180 (4.57)
6	0.665 (16.89)	0.620 (15.75)	0.671 (17.04)	0.240 (6.10)
7	0.730 (18.54)	0.685 (17.40)	0.736 (18.69)	0.330 (8.38)
8	0.788 (20.02)	0.745 (18.92)	0.794 (20.17)	0.390 (9.91)
9	0.912 (23.16)	0.869 (22.07)	0.918 (23.32)	0.455 (11.56)
10	0.975 (24.76)	0.933 (23.70)	0.981 (24.92)	0.520 (13.21)
13	1.162 (29.51)	1.119 (28.42)	1.168 (29.67)	0.610 (15.49)
16	1.288 (32.72)	1.245 (31.62)	1.294 (32.87)	0.775 (19.68)
17	1.360 (34.54)	1.315 (33.40)	1.366 (34.70)	0.825 (20.96)
21	1.625 (41.28)	1.580 (40.13)	1.631 (41.43)	1.080 (27.43)

PC Tail Diameter	
Contact Size	ØW
#23	0.018/0.022 (0.46/0.56)
#20	0.024/0.028 (0.61/0.64)
#16	0.060/0.064 (1.52/1.63)
#12	0.092/0.096 (2.34/2.44)
#8	0.215/0.217 (5.46/5.51)

Solder Cup Diameter	
Contact Size	ØZ
#23	0.045/0.047 (1.14/1.19)
#20	0.072/0.066 (1.83/1.68)
#16	0.097/0.103 (2.46/2.62)
#12	0.137/0.143 (3.48/3.63)
#8	0.261/0.264 (6.63/6.71)

PC Tail Diameter						
Panel Thickness	Shell Length Max all sizes	Contact Lengths Max				
		Size #23	Size #20	Size #16	Size #12	Size #8
- 1 0.06 - 0.28 (1.5 - 7)	0.71 (18)	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)
- 2 0.28 - 0.55 (7 - 14)	0.98 (25)	1.34 (34)	1.34 (34)	1.34 (34)	1.34 (34)	1.34 (34)
- 3 0.55 - 0.98 (14 - 25)	1.42 (36)	1.77 (45)	1.77 (45)	1.77 (45)	1.77 (45)	1.77 (45)

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**GLI-HE-7087****Hermetic Feedthrough Receptacle Connector**

Insert Arrangements					
Insert Arr.	Contact Size and Quantity				
	23	20HD	16	12	8
5-3	3				
6-4	4				
6-6	6				
6-7	7				
7-10	10				
8-13	13				
9-19	19				
10-26	26				
11-31	31				
13-37	37				
16-55	55				
17-85	85				
19-100	100				
21-130	130				

Insert Arrangements					
Insert Arr.	Contact Size and Quantity				
	23	20	16	12	8
6-23		3			
7-25		5			
8-28		8			
9-210		10			
13-220		20			
16-235		35			
17-241		41			
19-255		56			
21-269		69			
6-1			1		
8-2			2		
9-4			4		
10-5			5		
13-7			7		
16-12			12		
17-14			14		
19-19			19		
21-22			22		

Insert Arrangements					
Insert Arr.	Contact Size and Quantity				
	23	20	16	12	8
7-1				1	
10-2				2	
13-2				2	
13-3				3	
16-5				5	
17-7				7	
21-12				12	
8-1					1
16-2					2
17-3					3
19-4					4
21-5					5

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