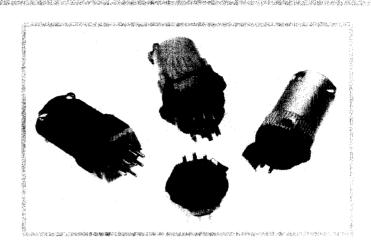
PROFESSIONAL QUALITY, FIXED CONTACT **CIRCLE HEX CONNECTORS**

Size 20 Contacts Migh Periointanise Got Studion 5 Insulator Variants 4 through 10 Contacts U.L. Recognized File//E/Biss



GH Series connectors are high reliability, hexagonal connectors offered with solder and straight solder terminations. Contacts have 0.040 inch (1.02 mm) diameters and are rated to 7.5 amperes per contact. Five connector variants, four through ten poles, are offered.

GH Series connectors have DAP insulators. A variety of plastic and metal hoods are available, and the locking system is achieved by a lock-ring spring mechanism. Polarization is accomplished by contact layouts or by an oversized contact.

GH Series connectors are ideal for use in industrial and instrumentation applications where light weight, miniature, high reliability interconnections are necessary.

TECHNICAL CHARACTERISTICS

WATERIALS AND PINISPES

Insulator:

Glass-filled DAP per ASTM-D-5948, Type SDG-F. Grey color is standard.

Fixed Contacts:

Copper alloy, gold flash over nickel or

copper.

Hoods:

Aluminium with yellow or black anodize. Glass-filled diallyl phthalate.

Lock Rings and Lock Springs:

Copper alloy with zinc plate and

dichromate seal.

MECHANICAL CHARACTERISTICS

Fixed Contacts:

Male:

Size 20: 0.040 inch (1.02 mm) diam-

Female:

Open entry is standard. "Closed Entry" is available on solder-style contacts for high reliability applica-

Contact Retention in Insulator:

10 lbs. (44.5N), minimum.

Contact Termination:

0.046 inch (1.17 mm) internal diameter on solder style contacts for 20 AWG (0.5 mm²) wire maximum

0.025 inch (0.64 mm) diameter

straight solder, printed board mount

style contact.

Locking Systems:

Friction, lock spring with lock ring.

WEGHAMICAL CHARACTERISTS

Polarization:

0.056 inch (1.42 mm) diameter male contact in position "A" on Size 4 connector. Molding configuration provides polarization on other sizes.

Mechanical Operations:

Open Entry Contacts: Closed Entry Contacts: 250 operations per IEC 512-5. 500 operations per IEC 512-5.

S POTENTAL CHARACTARISTUS

Contact Current Rating: Initial Contact Resistance:

7.5 amps, maximum. 0.010 ohms, maximum.

Flash over Voltage:

1,750 VAC (rms).

Test Voltage:

1,200 VAC (rms).

Insulation Resistance:

5 G ohms.

Clearance and Creepage

Distance:

0.025 inch (0.64 mm), minimum.

Working Voltage:

300 VAC (rms).

LIMATIC CHARACTER

Temperature Range:

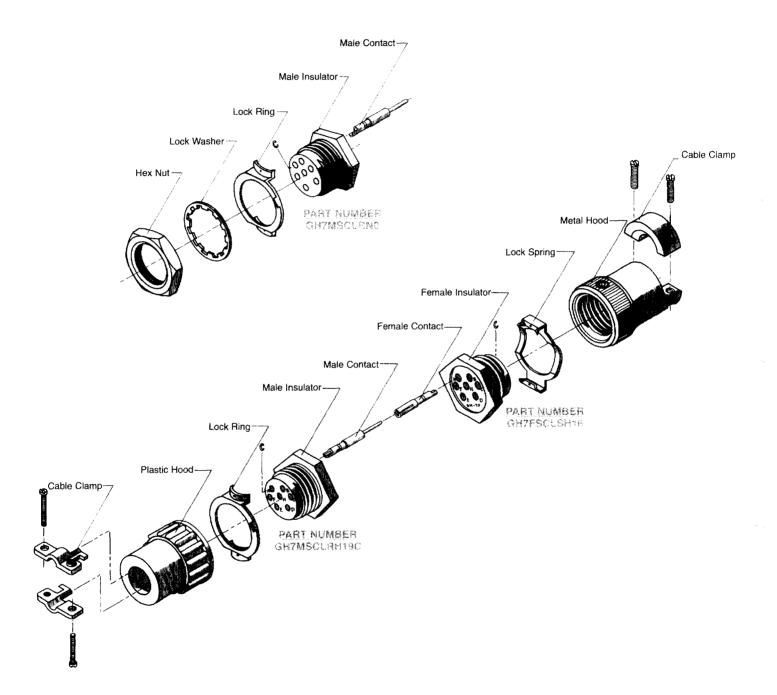
-55°C to +125°C.

Damp Heat, Steady State:

21 days.

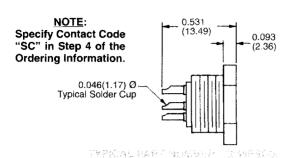


EXPLODED VIEW OF TYPICAL CONNECTOR ASSEMBLY





GH SERIES CONNECTOR WITH SOLDER CONTACTS



0.040(1.02) Ø Typical

MATERIAL: Copper alloy.

FINISH: Gold flash over nickel or copper.

GH4 has 0.056 ±0.001 (1.42) Ø Pin in "A" position for polarization.

0.750

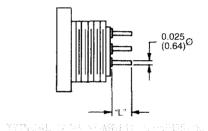
GH SERIES CONNECTOR WITH STRAIGHT SOLDER CONTACTS

NOTE: Specify Contact Code for desired length of contact termination in Step 4 of the Ordering Information.

CONTACT CODE	"L"
DS3	0.093 (2.36)
DS4	0.125 (3.18)
DS5	0.156 (3.96)
DS6	0.187 (4.75)

MATERIAL: Copper alloy.

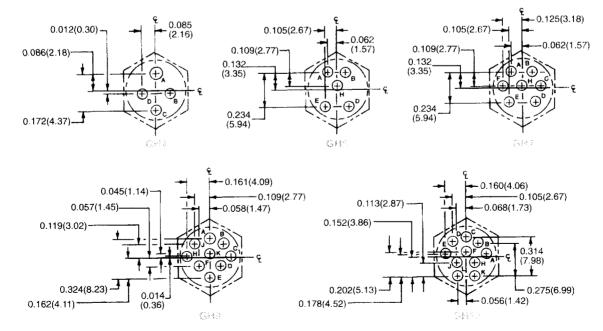
FINISH: Gold flash over nickel or copper.



Straight solder contacts are not available in GH4 connector.

GH SERIES CONTACT HOLE POSITION DIMENSIONS AND PRINTED BOARD HOLE PATTERN

Hole Identification shown is for mating face of female connector. Use mirror image for male connector.



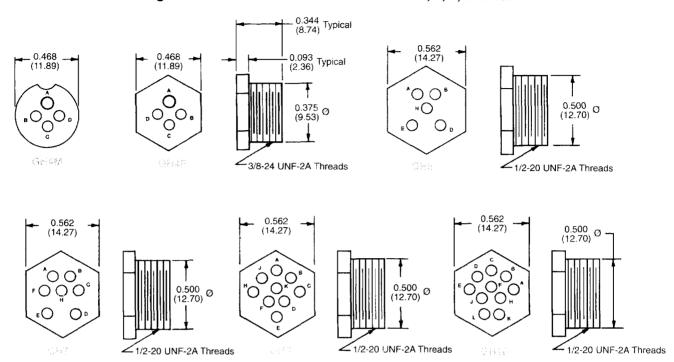
Suggest 0.040(1.01) Ø holes in printed board for contact terminations.





GH SERIES INSULATOR DIMENSIONS

Mating face of female connector for Sizes GH 5, 7, 9, and 10.



See GH Series Printed Board Hole Patterns, page 3 of this catalog, for contact variant hole positions.

For Sizes 5 through 10, male and female connector dimensions are typical.

MATERIAL: Glass-filled diallyl phthalate per ASTM-D-5948, Type SDG-F.

Size GH4 uses 0.056(1.42) Ø pin in position "A" for polarization. For all other sizes, the body design provides polarization.

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

TYPICAL MATING ASSEMBLIES









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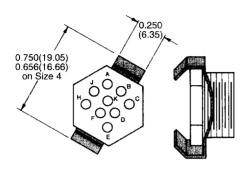


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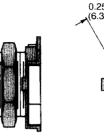


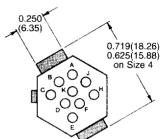
GH SERIES LOCKING DEVICES

LOCK SPRING



LOCK RING AND NUT

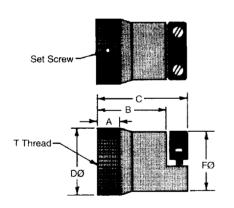


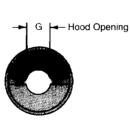


MATERIAL: Copper alloy.

FINISH: Zinc plate with dichromate seal.

GH SERIES ALUMINUM HOODS







HOOD CODE	CONNECTOR SIZE	A	В	С	D	F	G	T THREAD
H14	GH-4	0.25 (6.4)	<u>0.80</u> (20.3)	1.06 (26.9)	0,59 (15.0)	0.56 (14.2)	<u>0.22</u> (5.6)	3/8-24 UNF-2B
H16	GH-5, 7, 9, 10	0.25 (6.4)	<u>0.71</u> (18.0)	0.94 (23.9)	0.67 (17.0)	<u>0.58</u> (14.7)	0.25 (6.4)	1/2-20 UNF-2B

MATERIAL: Aluminum.

FINISH: Yellow anodize is standard.

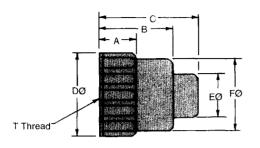
Black anodize also available.

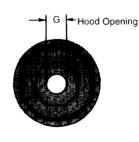


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GH SERIES PLASTIC HOODS

STANDARD HOOD

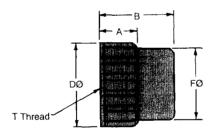


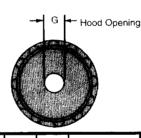




HOOD CONNECTOR SIZE	A	В	O	D	Ε	F	G	T THREAD
H10 GH4	0.31 (7.9)	<u>0.69</u> (17.5)	<u>0.75</u> (19.1)	0.56 (14.2)	0.25 (6.4)	<u>0.44</u> (11.2)	<u>0.16</u> (4.1)	3/8-24 UNF-2B
H19 GH 5, 7, 9. 10	0.28 (7.1)	0.66 (16.8)	0.88 (22.4)	0 <u>.66</u> (16.8)	0.42 (10.7)	<u>0.54</u> (13.7)	0.30 (7.6)	1/2-20 UNF-2B

SHORT HOOD

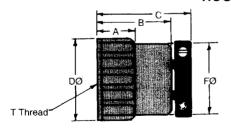


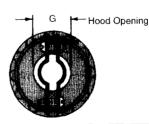




HOOD	CONNECTOR SIZE	А	В	D	F	G	T THREAD
H10S	GH4	0.31 (7.9)	<u>0.69</u> (17.5)	0.56 (14.2)	0.44 (11.2)	0.16 (4.1)	3/8-24 UNF-2B
H19S	GH 5, 7, 9, 10	0.28 (7.1)	0.66 (16.8)	<u>0.66</u> (16.8)	<u>0.54</u> (13.7)	0 <u>.30</u> (7.6)	1/2-20 UNF-2B

HOODS WITH CABLE CLAMPS







HOOD CODE	CONNECTOR SIZE	A	В	С	D	F	G	T THREAD
H10C	GH4	<u>0.31</u> (7.9)	<u>0.69</u> (17.5)	<u>0.83</u> (21.1)	<u>0.56</u> (14.2)	<u>0.44</u> (11.2)	<u>0.21</u> (5.3)	3/8-24 UNF-2B
H19C	GH 5, 7, 9, 10	0.28 (7.1)	0.66 (16.8)	0.86 (21.8)	<u>0.66</u> (16.8)	<u>0.54</u> (13.7)	0.30 (7.6)	1/2-20 UNF-2B

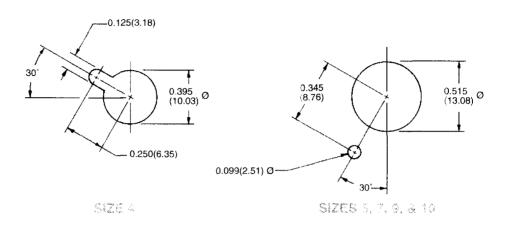
MATERIAL: Glass-filled diallyl phthalate per ASTM-D-5948,

Type SDG-F.

CABLE CLAMPS: Aluminum, yellow anodize finish.



PANEL CUT-OUT DIMENSIONS FOR GH SERIES

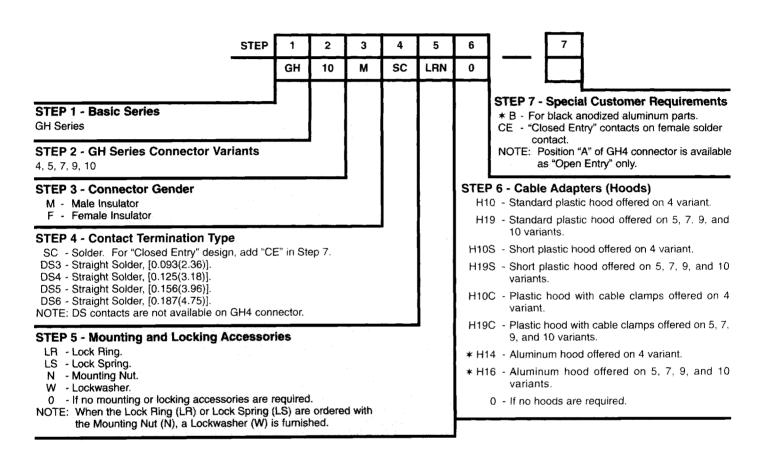






ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify the complete connector by following Steps 1 through 7. Insert "0" when a step is not used.



* NOTE:

Yellow anodize finish is standard for aluminium parts.

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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