Utility Connectors

GF / GFPL SERIES PROFESSIONAL QUALITY UTILITY CONNECTORS

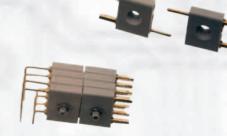
FIXED CONTACT / LOW PROFILE



Positronic Industries connectpositronic.com

High Reliability

Size 20 fixed contacts, 7.5 amperes



Low Profile, countersink side mounting holes.

Connectors can be "stacked" side by side.

Male and female contacts can be configured within individual connectors to provide polarization and coding (keying) options.

Terminations include solder cup, straight and right angle (90°) printed board mount.

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MATERIALS AND FINISHES:

 Insulator:
 Glass-filled DAP per ASTM-D-5948 Type SDG-F. Gray color is standard.

 Fixed Contacts:
 Precision machined copper alloy, gold flash over nickel. Other finishes are available upon request.

MECHANICAL CHARACTERISTICS:

Contacts:	
Size 20 Fixed:	Male contact, 1.02 mm [0.040 inch] mating diameter. Female contact, open entry is standard. "Closed Entry" available on solder cup termination for high reliability applications.
Contact Retention in Connector Insert:	44.5 N [10 lbs.], minimum.
Contact Termination :	Solder cup - 1.17 mm [0.046 inch] hole diameter for 0.5mm ² [20 AWG] wire maximum.

Locking Systems: Polarization: Mechanical Operations: Open Entry Contacts: Closed Entry Contacts: Straight and right angle (90°) printed board mount - 0.64 mm [0.025 inch] termination diameter. Friction.

UL Recognized:

• UL File # E49351

Gender positioning of contacts.

500 operations per IEC 60512-5. 1,000 operations per IEC 60512-5.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating:	7.5 amperes, maximum.	
Initial Contact Resistance:	0.010 ohms, maximum.	
Flash over Voltage:	2000 VAC (rms).	
Test Voltage:	1200 VAC (rms).	
Insulation Resistance:	5 G ohms, minimum.	
Clearance and Creepage:	0.97 mm [0.038 inch], minimum.	
Working Voltage:	300 VAC (rms).	

CLIMATIC CHARACTERISTICS:

Temperature Range:-55°C toDamp Heat, Steady State:21 days

-55°C to +125°C. 21 days

Visit our web site for the latest catalog updates and supplements at http://www.connectpositronic.com/products/55/Utility/catalogs/



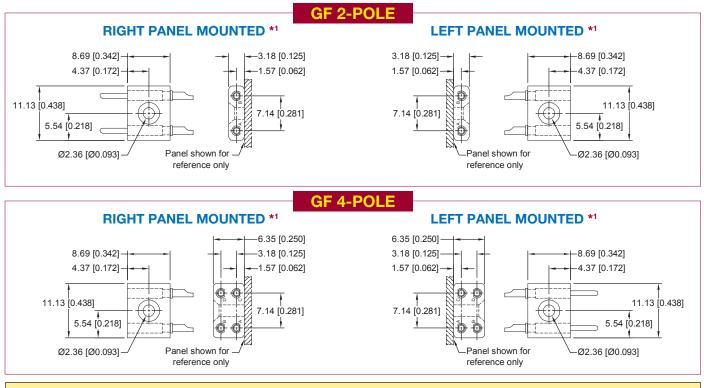
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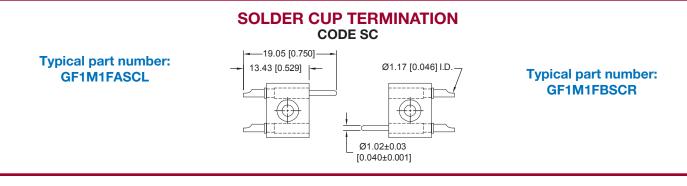
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INSULATOR DIMENSIONS

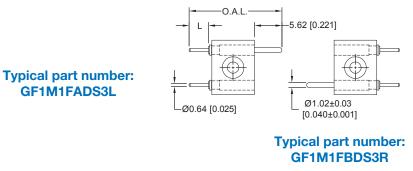
MALE OR FEMALE CONTACTS MAY BE POPULATED IN ANY POSITION



NOTE: *1 When viewing the connector from the rear with the "A" contact position down, the panel on the left dictates "L" Code while the panel on the right dictates "R" code. See ordering information page "Step 5".



STRAIGHT SOLDER PRINTED BOARD MOUNT TERMINATION CODE DS3, DS4, DS5 AND DS6



CONTACT CODE	L	O.A.L.
DS3	<u>2.36</u> [0.093]	<u>17.37</u> [0.684]
DS4	<u>3.18</u> [0.125]	<u>18.19</u> [0.716]
DS5	<u>3.96</u> [0.156]	<u>18.97</u> [0.747]
DS6	<u>4.75</u> [0.187]	<u>19.79</u> [0.779]

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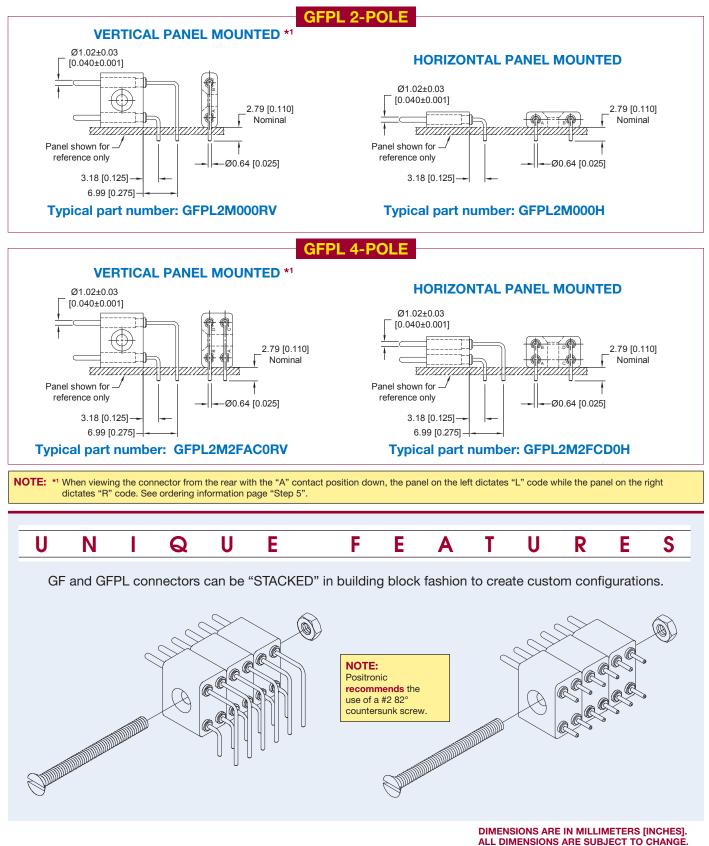
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RIGHT ANGLE (90°) PRINTED BOARD MOUNT TERMINATION

AVAILABLE IN VERTICAL OR HORIZONTAL MOUNTS





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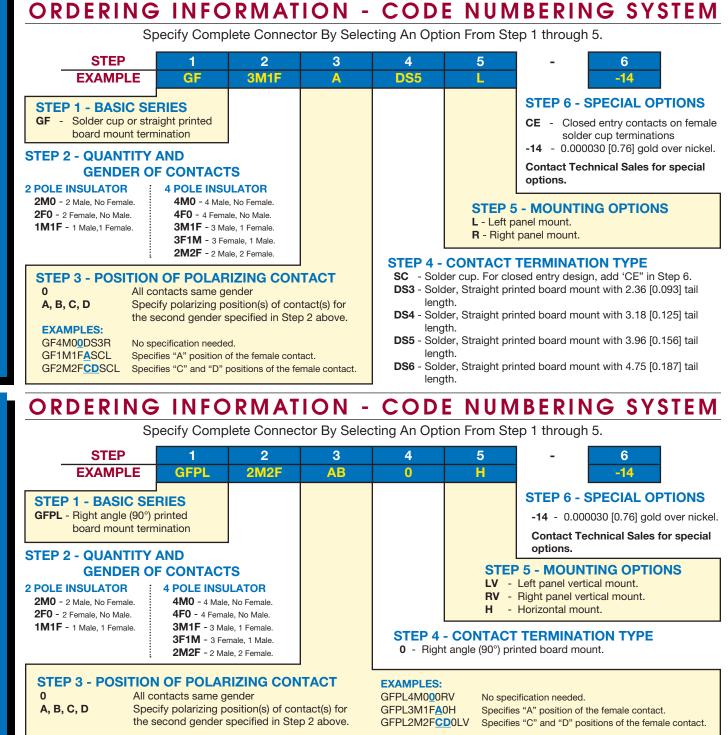
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