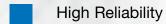
Utility
Connectors

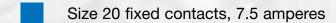
GF / GFPL SERIES PROFESSIONAL QUALITY UTILITY CONNECTORS



FIXED CONTACT / LOW PROFILE





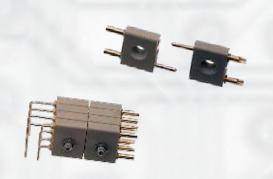


Low Profile, countersink side mounting holes.

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.





UL Recognized:

• Ul File # F49351

TECHNICAL CHARACTERISTICS

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.

Straight and right angle (90°) printed board mount - 0.64 mm [0.025 inch] termination diameter.

Locking Systems: Friction.

Polarization: Gender positioning of contacts.

Mechanical Operations:

Open Entry Contacts: 500 operations per IEC 60512-5. **Closed Entry Contacts:** 1,000 operations per IEC 60512-5.

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 0.5mm² [20 AWG] wire maximum.

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 to +125°C.

Damp Heat, Steady State: 21 days

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

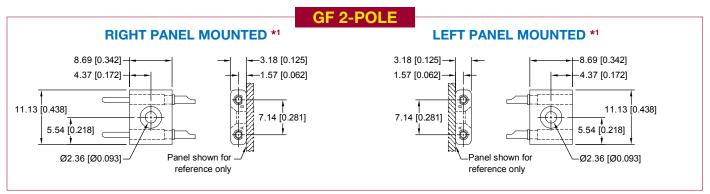
GF / GFPL SERIES PROFESSIONAL QUALITY UTILITY CONNECTORS

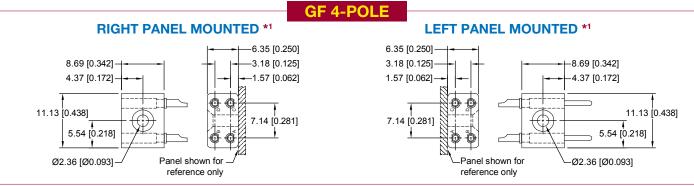
Utility Connectors

FIXED CONTACT / LOW PROFILE

INSULATOR DIMENSIONS

MALE OR FEMALE CONTACTS MAY BE POPULATED IN ANY POSITION

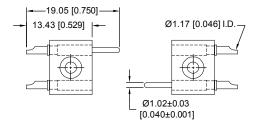




NOTE: *1 When viewing the connector from the rear with the "A" contact position down, the panel on the left dictates "L" Code while the panel on the right dictates "R" code. See ordering information page "Step 5".

SOLDER CUP TERMINATION CODE SC

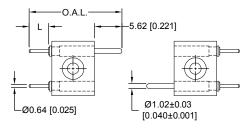
Typical part number: GF1M1FASCL



Typical part number: GF1M1FBSCR

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

Typical part number: GF1M1FADS3L



Typical part number: GF1M1FBDS3R

CONTACT CODE	٦	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]		

Utility
Connectors

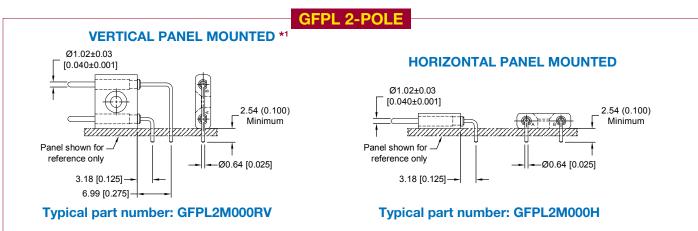
GF / GFPL SERIES PROFESSIONAL QUALITY UTILITY CONNECTORS

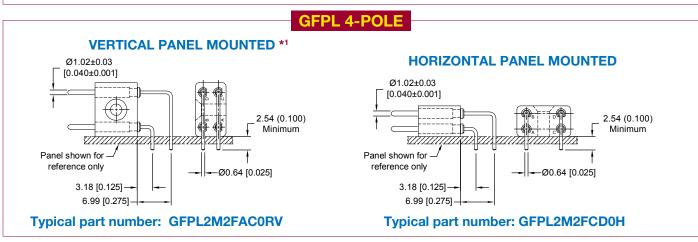


FIXED CONTACT / LOW PROFILE

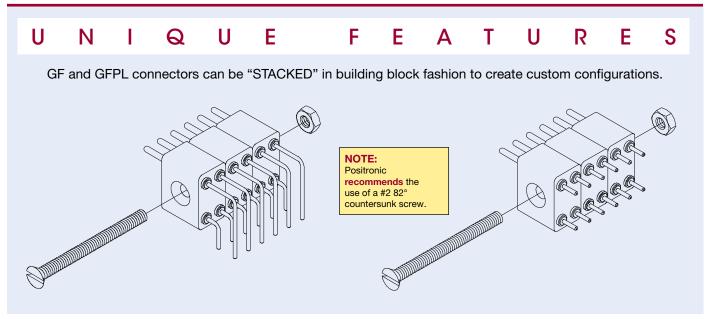
RIGHT ANGLE (90°) PRINTED BOARD MOUNT TERMINATION

AVAILABLE IN VERTICAL OR HORIZONTAL MOUNTS





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".





GF / GFPL SERIES PROFESSIONAL QUALITY UTILITY CONNECTORS

FIXED CONTACT / LOW PROFILE

Utility Connectors

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 through 5.

STEP	1	2	3	4	5] -	6		
EXAMPL	.E GF	3M1F	A	DS5	L]	-14		
STEP 2 - QUANT	r straight printed t termination TTY AND R OF CONTAC 4 POLE INS 4 M0 - 4 Mal 4F0 - 4 Fem	JLATOR e, No Female. ale, No Male. ale, 1 Female. emale, 1 Male.		CTED 4	L - Left p R - Right	STEP 6 - SPECIAL OPTIONS CE - Closed entry contacts on female solder cup terminations -14 - 0.000030 [0.76] gold over nickel. Contact Technical Sales for special options. 6 - MOUNTING OPTIONS anel mount. panel mount.			
STEP 3 - POSITION OF POLARIZING CONTACT 0 All contacts same gender A, B, C, D Specify polarizing position(s) of contact(s) for the second gender specified in Step 2 above. EXAMPLES: GF4M00DS3R No specification needed. GF1M1FASCL Specifies "A" position of the female contact. GF2M2FCDSCL Specifies "C" and "D" positions of the female contact.				 STEP 4 - CONTACT TERMINATION TYPE SC - Solder cup. For closed entry design, add 'CE" in Step 6. DS3 - Solder, Straight printed board mount with 2.36 [0.093] tail length. DS4 - Solder, Straight printed board mount with 3.18 [0.125] tail length. DS5 - Solder, Straight printed board mount with 3.96 [0.156] tail length. DS6 - Solder, Straight printed board mount with 4.75 [0.187] tail length. 					

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 through 5.

	STEP	1	2	3	4	5] -	6	
-	EXAMPLE	GFPL	2M2F	AB	0	Н		-14	
STEP 1 - BASIC SERIES GFPL - Right angle (90°) printed board mount termination STEP 2 - QUANTITY AND GENDER OF CONTACTS 2 POLE INSULATOR 2M0 - 2 Male, No Female. 2F0 - 2 Female, No Male. 1M1F - 1 Male, 1 Female. 3M1F - 3 Male, 1 Female. 3F1M - 3 Female, 1 Male. 2M2F - 2 Male, 2 Female.					LV - RV - H -	STEP 6 - SPECIAL OPTIONS -14 - 0.000030 [0.76] gold over nickel. Contact Technical Sales for special options. 2 5 - MOUNTING OPTIONS Left panel vertical mount. Right panel vertical mount. Horizontal mount. TERMINATION TYPE nted board mount.			
STEP 3 - POSITION OF POLARIZING CONT 0 All contacts same gender A, B, C, D Specify polarizing position(s) of cont the second gender specified in Step			ntact(s) for	EXAMPLES: GFPL4M000RV No specification needed. GFPL3M1FAOH Specifies "A" position of the female contact. GFPL2M2FCD0LV Specifies "C" and "D" positions of the female					

Positronic | Americas

1325 N Eldon Ave Springfield MO 65803 USA +1 800 641 4054 info@connectpositronic.com

Positronic | Europe

46 route d'Engachies F-32020 Auch Cedex 9 France +33 5 6263 4491 contact@connectpositronic.com

Positronic | Asia

3014A Ubi Rd 1 #07-01 Singapore 408703 +65 6842 1419 singapore@connectpositronic.com

Sales Offices

Positronic has local sales representation all over the world. For the nearest sales office visit www.connectpositronic.com/sales