PROFESSIONAL QUALITY, MICROMINIATURE, FIXED CONTACT CIRCLE HEX CONNECTORS

Size 22 Signal/Power Contacts

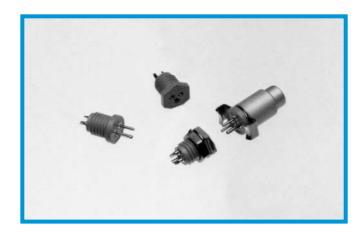
High Performance Construction

Polarization and Locking Accessories

U.L. Recognized File #E49351

MGH Series connectors are microminiature, high reliability connectors. They are available with three contacts for providing polarization: two contacts at 0.030 inch [0.76 mm] diameter, and one contact at 0.040 inch [1.02 mm] diameter. The MGH Series is rated to three amperes per contact. Spacing between contacts is 0.102 inch [2.59 mm], and the face diameter of the connector is 0.312 inch [7.92 mm].

MGH Series connectors are ideally applied where limited space is a concern. MGH Series connectors can be



used as cable connectors, panel-mounted connectors, or probes. Constructed of high performance materials, MGH Series connectors are widely used in medical, industrial, military, and automotive applications.



TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass-filled DAP per ASTM-D-

5948, Type SDG-F. Green color is

standard.

Fixed Contacts: Copper alloy, gold flash over nickel.

Hoods: Aluminum with yellow or black

anodize.

Lock Rings and Lock Springs: Copper alloy with zinc plate and

chromate seal.

MECHANICAL CHARACTERISTICS:

Fixed Contacts:

Male: Two (2) Size 22: 0.030 inch

[0.76 mm] diameter contacts, and one (1) Size 20: 0.040 inch [1.02mm] diameter contact.

Female: Open entry.

Contact Retention in Insulator: 6 lbs. [26.5 N], minimum.

Contact Termination: 0.027 inch [0.69 mm] inte

0.027 inch [0.69 mm] internal diameter on solder style contact for 24 AWG [0.25 mm²] wire maximum

Locking Systems: Friction, lock spring with lock ring. **Polarization:** 0.040 inch [1.02 mm] diameter

male contact in position "A". **Mechanical Operations:** 250 operations per IEC 512-5.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: See temperature rise curve on

page 13.

Initial Contact Resistance: 0.012 ohms, maximum.

Flash over Voltage: 1,500 VAC [rms].

Test Voltage: 1,000 VAC [rms].

Insulation Resistance: 5 G ohms, minimum.

Clearance and Creepage

Distance: 0.021 inch [0.53 mm], minimum.

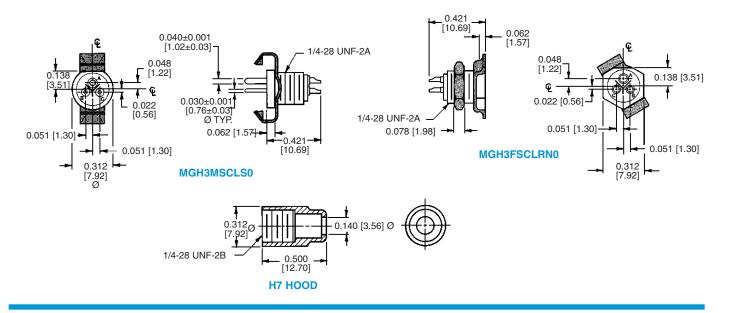
Working Voltage: 250 VAC [rms].

CLIMATIC CHARACTERISTICS:

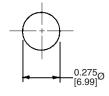
Temperature Range: -55°C to +125°C.

Damp Heat, Steady State: 21 days.

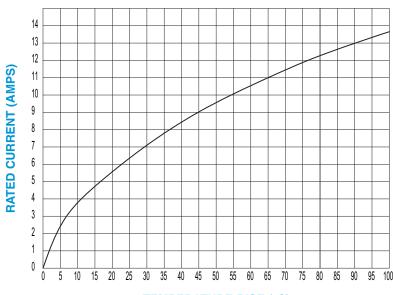
TYPICAL ASSEMBLIES



PANEL CUT-OUT DIMENSIONS



TEMPERATURE RISE CURVE



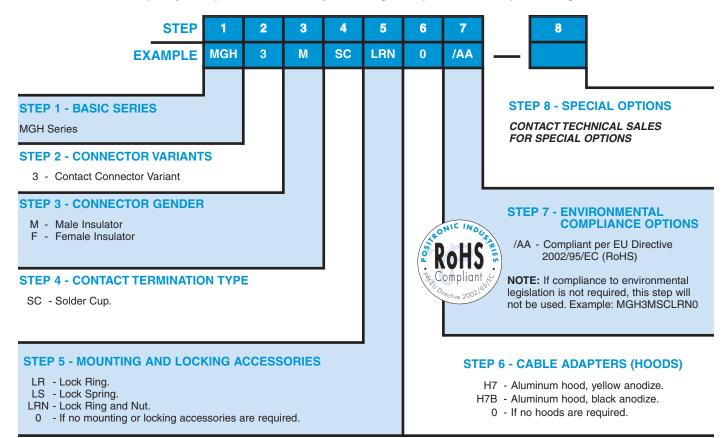
Temperature curve developed using MGH3FSC00 and MGH3MSC00 connectors terminated with 24 awg wire. All contacts under load. Tested in accordance with U.L. 1977.

PROFESSIONAL QUALITY, FIXED CONTACT MINIATURE CIRCLE-HEX CONNECTORS

Circle Hex

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 6



NOTE: Once you have made a connector selection, contact
Technical Sales if you would like to receive a drawing in DXF, PDF
format or a 3-dimensional IGES, STEP, or SOLIDWORKS file.