

# 3M™ Polarized Wiremount Socket

.100" × .100" 2 row for .100" Pitch Notched Flat Cable or Discrete Wire

CHG Series



- Military/DIN 41612 compatibility
- Two row, polarized body
- Mates to 3M long latch/eject headers and plugs
- 12 standard sizes, 10-64 positions
- Twin slot IDC provides four points of contact
- Exclusive L/H 4-wipe contact
- 3435-0 keying plug is optional - order separately
- Accepts discrete wire or notched ribbon cable
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 and C1 Apply)

Date Modified: January 2, 2012

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## Physical

### Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

### Contact:

Material: Copper Alloy

### Plating:

Option P

First Wipe Area: 30  $\mu$ " [0.76  $\mu$ m] Gold

Second Wipe Area,  
Underplating and U-Slot 100  $\mu$ " [ 2.54  $\mu$ m ] Nickel

Wire Accommodation: See Ordering Information for Options

Marking: 3M Logo and Orientation Triangle

## Electrical

| Current Rating: | 1 Line | 4 Adjacent Lines | All Lines |
|-----------------|--------|------------------|-----------|
| 22 AWG          | 4.5    | 3.0              | 1.5       |
| 24 AWG          | 3.75   | 2.5              | 1.25      |
| 26 AWG          | 3.5    | 2.0              | 1.0       |
| 28 AWG          | 3.5    | 2.0              | 1.0       |

Rating Conditions: EIA-364-070 Method 2, 30°C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed current derating curves.

Insulation Resistance:  $> 1 \times 10^9$  at 500 V<sub>DC</sub>

Withstanding Voltage: 500 V<sub>RMS</sub> at Sea Level

## Environmental

Temperature Rating: -55°C to +105°C

UL File No.: E68080

**3M**

Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnectors.com>

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| Contact Quantity | Dimension A<br>± .006 [ ± 0.15 ] |
|------------------|----------------------------------|
| 10               | 0.680 [ 17.27 ]                  |
| 14               | 0.880 [ 22.35 ]                  |
| 16               | 0.980 [ 24.89 ]                  |
| 20               | 1.180 [ 29.97 ]                  |
| 24               | 1.380 [ 35.05 ]                  |
| 26               | 1.480 [ 37.59 ]                  |
| 30               | 1.680 [ 42.68 ]                  |
| 34               | 1.880 [ 47.75 ]                  |
| 40               | 2.180 [ 55.37 ]                  |
| 50               | 2.680 [ 68.07 ]                  |
| 60               | 3.180 [ 80.77 ]                  |
| 64               | 3.380 [ 85.85 ]                  |



**Notes:**

- Contact Wire size Identification:  
"6" - 26 and 28 AWG  
"2" - 22 and 24 AWG
- Insulation O.D. = .054 [ 1.37 ] Max
- Recommended to be mated to a .100" x .100" Pin Strip Header with either a .235" [ 5.97 ] or a .318" [ 8.08 ] mating pin length:  
929 Series, 2400 Series and 2300 Series.
- Other sizes, polarizations and plating options are available as a special order. Higher minimum quantities and lead times will apply.

| Inch<br>[mm]           |     |      |       |
|------------------------|-----|------|-------|
| Tolerance Unless Noted |     |      |       |
|                        | .0  | .00  | .000  |
| Inch                   | ±.1 | ±.01 | ±.005 |

[ ] Dimensions for Reference Only



## Ordering Information

**CHG-20XX-X01010-KXX**

Contact Quantity  
(See Table 1)

Polarization Options:  
J = with Centerbump (Standard)  
S = without Centerbump (Special Order)

Wire Size Options:  
C = 26 and 28 AWG Solid and Stranded  
E = 22 AWG Stranded and 24 AWG Solid or Stranded

\*Plating Options:  
P = Gold (RIA E1 and C1 apply)

Application Tools: For discrete wire: 3586-12 Pistol Grip and 3624-42 Assembly.  
For notched flat cable: 3335 Press (or equivalent), 3739-CHGA Locator Plate.

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RIA-2217B-E

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