

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 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 μ " [0.76 μ m] Gold

Second Wipe Area,
Underplating and U-Slot 100 μ " [2.54 μ 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_{DC}

Withstanding Voltage: 500 V_{RMS} at Sea Level

Environmental

Temperature Rating: -55°C to +105°C

UL File No.: E68080



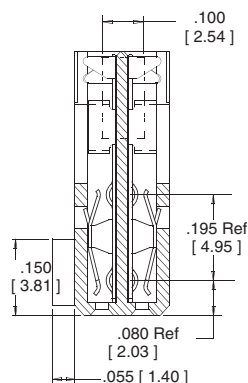
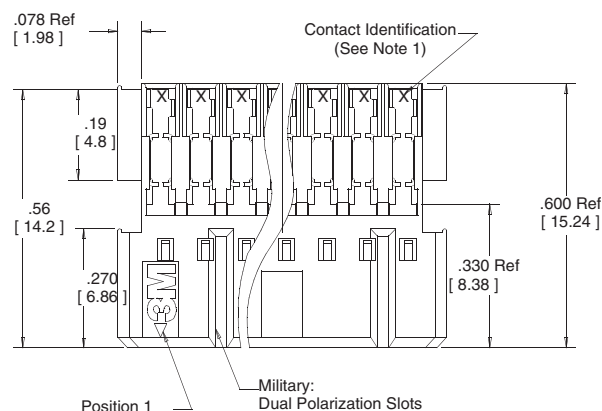
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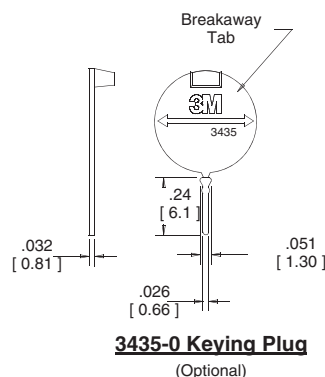
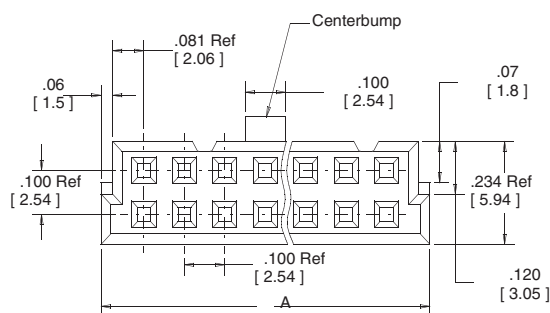
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| Contact Quantity | Dimension A ± .006 [± 0.15] |
|------------------|----------------------------------|
| 10 | 0.680 [17.27] |
| 14 | 0.880 [22.35] |
| 16 | 0.980 [24.89] |
| 20 | 1.180 [29.97] |
| 24 | 1.380 [35.05] |
| 26 | 1.480 [37.59] |
| 30 | 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:

1. Contact Wire size Identification:
"6" - 26 and 28 AWG
"2" - 22 and 24 AWG
2. Insulation O.D. = .054 [1.37] Max
3. 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.
4. Other sizes, polarizations and plating options are available as a special order. Higher minimum quantities and lead times will apply.

Inch
[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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