# Wire-to-Board, .100 [2.54] Centerline Products

## Wire Sizes

| Wire Size | | Product Family |
|---|---|---|
| AWG | [mm²] | |
| 20 | 0.5-0.6 | Locking Clip, Mod. IV, IV.v, V, MT, Short Point |
| 22-30 | 0.3-0.05 | Locking Clip, Mod. IV, IV.v, V, MTE, MT, Short Point |
| 32 | 0.03 | Mod. IV, IV.v, V, Short Point |

## Contact Platings

| Platings | Product Family |
|---|---|
| **.000015** [0.00038] Gold | Mod. IV, IV.v, V, MTE, MT, Short Point |
| **.000030** [0.00076] Gold | Locking Clip, Mod. IV, IV.v, V, MTE, MT, Short Point |
| **.000050** [0.00127] Gold | Locking Clip, Mod. IV, IV.v, V, MT |
| Tin | Locking Clip, Mod. IV, IV.v, V, MTE, MT, Short Point |

## Mating Post Lengths

| Post Lengths | Product Family |
|---|---|
| **.210-.283** [5.33-7.19] | Mod. IV (**.600** [15.24] Profile Height) |
| **.205-.283** [5.21-7.19] | Mod. IV.v (**.600** [15.24] Profile Height) |
| **.185-.283** [4.70-7.19] | Mod. V (**.600** [15.24] Profile Height) |
| **.256-.323** [6.50-8.20] | Mod. IV (**.645** [16.38] Profile Height) |
| **.251-.323** [6.38-8.20] | Mod. IV.v (**.645** [16.38] Profile Height) |
| **.231-.323** [5.87-8.20] | Mod. V (**.645** [16.38] Profile Height) |
| **.222-.273** [5.64-6.93] | MT Assembly with Standard Pressure Contacts |
| **.200-.273** [5.08-6.93] | MT Assembly with High Pressure Contacts |
| **.200-.250** [5.08-6.35] | MTE Assembly |
| **.169-.259** [4.29-6.58] | Short Point Connector Assembly |
| **.273-.350** [6.93-8.89] | Locking Clip (Connector Assembly) |
| **.200-.277** [5.08-7.04] | Locking Clip (Single Contact) |

## Application Tooling

| Application Tooling Description | Product Family | | | | | |
|---|---|---|---|---|---|---|
| | Mod. IV, IV.v, V | MT | Locking Clip | MTE | Short Point | Level V |
| Manual Hand Tools (Wire Crimp) | • | | • | • | • | |
| Manual Hand Tools (IDC) | | • | | • | | • |
| AMP-O-MATIC Stripper/Crimper Machines with Applicator | • | | • | | • | |
| CHAMPOMATOR Model 2.5 Machine | | • | | | | • |
| CHAMPOMATOR Model 3A Machine | | • | | | | |
| AMP-O-LECTRIC Machines with Applicator | • | | • | | • | |
| Pneumatic Hand Tools | • | • | • | • | • | • |
| IDC Electric Power Unit | | | | • | | |
| Tube-Fed Ribbon Cable Machine | | | | • | | |
| AMPOMATOR CLS Machines | • | | • | | • | |
| Discrete Wire Machine | | • | | | | • |
| Manual Arbor Tool | | • | | | | • |
| Pneumatic Arbor Tool | | • | | | | • |





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## Board-to-Board Solutions Guide, .100 [2.54] Centerline Products

| Problem or Concern | Tyco Electronics' Potential Solution | Single-Row Vertical Headers and Receptacles (Page Ref.) | Single-Row Right-Angle Headers, Horizontal Receptacles (Page Ref.) | Double-Row Vertical Headers and Receptacles (Page Ref.) | Double-Row Right-Angle Headers, Horizontal Receptacles (Page Ref.) |
|---|---|---|---|---|---|
| Headers Float Off Board Soldering Operation | **HEADERS** Retention Feature: | | | | |
| | Unshrouded | 102 | 103 | 198 | 199 |
| | Shrouded | — | — | 104, 199 | 105, 200 |
| Header Contacts Damaged During Manufacturing Operation or In-Field Use | Shrouded **HEADERS:** Standard Profile | 115 | 116 | 117-121 | 122-128 |
| Board/Backplane Requires High Temperature Surface-Mount Compatibility | Press-Fit ACTION PIN POST **HEADERS:** | | | | |
| | Unshrouded | 146 | — | 147 | — |
| | Shrouded | — | — | 148, 149, 199 | — |
| | Machine Applied Posts | 163, 164 | | | |
| | Surface-Mount Compatible Thru-Hole: **HEADERS:** | | | | |
| | Unshrouded | 102* | 103* | 104* | 105* |
| | Shrouded (Low Profile) | — | — | 130*, 137* | 138* |
| | **RECEPTACLES** | — | — | 196* | 195* |
| | Surface-Mount: | | | | |
| | **HEADERS** | 109* | — | 110 | — |
| | **RECEPTACLES** | 187, 188 | 172 | 189-192 | 173 |
| Application Requires Board Guidance, Polarization and/or Blind-Mate Capability | Two-Piece Family: w/Guide Posts: | | | | |
| | **HEADERS** | — | — | 198, 199 | 200 |
| | **RECEPTACLES** | — | — | 196* | 195* |
| Reduction in Parallel Board-to-Board Stack Height Necessary (Refer to Parallel Stack Guide on Page 62.) | Mod IV Low Profile **RECEPTACLES:** | | | | |
| | **TOP ENTRY:** | | | | |
| | Thru-Hole | 178 | — | 179, 180* | — |
| | Surface-Mount | — | — | — | — |
| | **BOTTOM ENTRY:** | | | | |
| | Thru-Hole | 177 | — | — | — |
| | Surface-Mount | — | — | — | — |
| | **DUAL ENTRY** | | | | |
| | Thru-Hole | 181 | — | 182-184 | — |
| | Surface Mount | 187, 188 | — | 189-192 | — |
| Soldering Problems with Thru-Hole Bottom Entry Receptacles (Must Mask Post Holes in Board During Soldering Operation) | **RECEPTACLES:** Bottom Entry Outrigger (Separate Holes for Receptacle Leads and Mating Leads) | 181 | — | 182 | — |
| Application Requires Connectors to be End-to-End Stackable on .100 [2.54] Grid | End-to-End Stackable: | | | | |
| | **HEADERS** (Unshrouded): | | | | |
| | Thru-Hole | 93, 102 | 94, 95, 103* | 96, 97, 104* | 98. 99. 105 |
| | Thru-Hole* | 102* | 103* | 104* | 108* |
| | Surface-Mount | 109* | — | 110* | — |
| | **RECEPTACLES:** | | | | |
| | Thru-Hole | 175, 177, 178, 181 | 169* | 176, 179, 180*, 182*, 183, 184 | 170 |
| | Surface Mount | 188 | 172 | 191, 192 | 173 |

***High temperature compatible version, refer to page ref. listed.**

## Wire-to-Board Solutions Guide, .100 [2.54] Centerline Products

| Customer Requirement | Tyco Electronics' Potential Solution | Catalog Page(s) |
|---|---|---|
| Application Requires Guidance, Polarization | Mod IV Polarized Housing | 220 |
| | MTE Latched Receptacle and Header | 230, 231, 244-250 |
| | MT with Polarizing Covers | 256-258 |
| | Short Point Polarized Housing | 224 |
| Wire-to-Wire Application | Mod IV Receptacle Contacts and Pins | 211-213 |
| Wire-to-Wire Application (Latched) | MTE Latched Receptacle and Shrouded Pin Assembly | 230, 231, 236, 237 |
| Wire-to-Wire Application (Through Panel) | MTE Panel Mount | 242 |
| High Vibration and Shock Applications | Locking Clip Contacts and Housings | 207-209 |
| Printed Circuit Board Polarization | MTE Header with PC Board Orientation Peg | 248, 249 |
| Board Requires Surface Mount Capability | MTE Surface Mount Headers | 251, 252 |
| | MTE High Temperature Compatible Headers | 249, 250 |
| Need to mate to AMP-LATCH Eject Headers | Mod IV Ejection Housing | 220 |
| Need to Minimize Strain to Cable | MT with Eject Covers | 256-259 |
| | Mod IV Housing with Strain Relief | 218, 219 |
| Application Requires Self-Retaining Contacts | Locking Clip Contacts | 207, 298 |
| Header Secured to Board During/Prior to Soldering | MTE Headers with Post Retention or Holddowns | 244-250 |
| Mate to Unshrouded Header with Retention Requirements | Mod IV plain Housing with Mod V Contacts | 213, 214, 216 |
| | MTE with High Pressure Contacts | 234, 235 |
| Multiple Cables to be Common to One Header | MTE Coupling Shroud, Double- or Single-Row | 240, 241 |
| Right-Angle Cable Dress | MT with Hermaphroditic Covers | 229, 256, 257, 259 |
| Application Requires Crimp Contacts and MTE Housings | Short Point Contacts | 222 |
| Housings and End-to-End and Side-to-Side Stackable | Short Point Double-Row Housing, MTE Plain Housing | 223, 228, 229 |
| Connector Must Mate to Post Lengths of .169 [4.29] Min. | Short Point Contacts | 222 |





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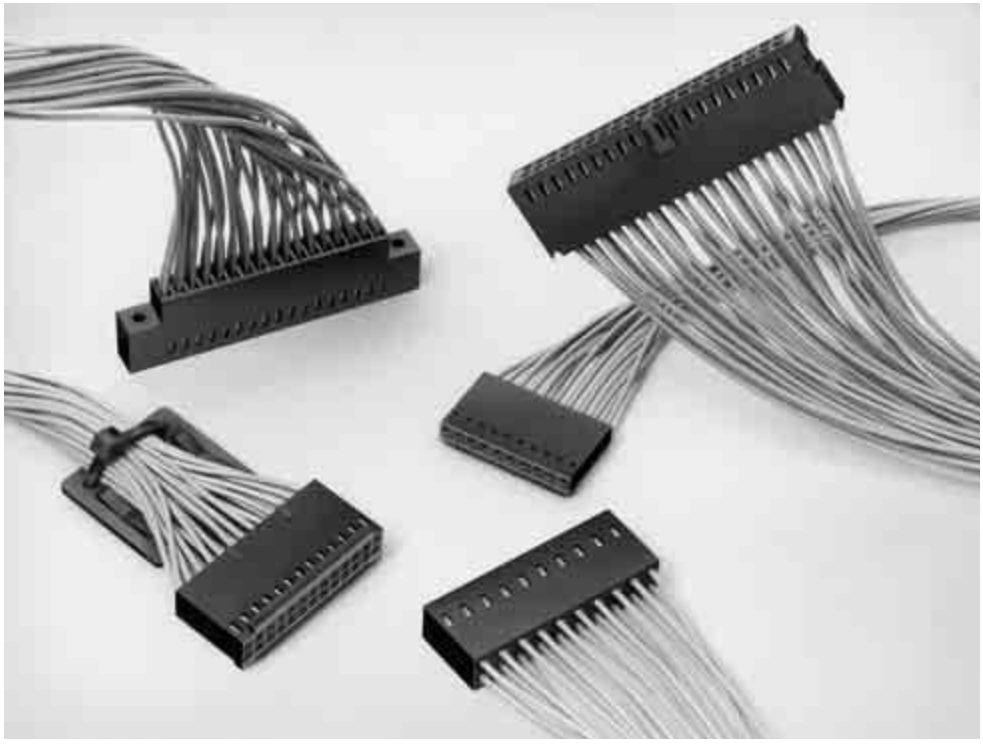
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
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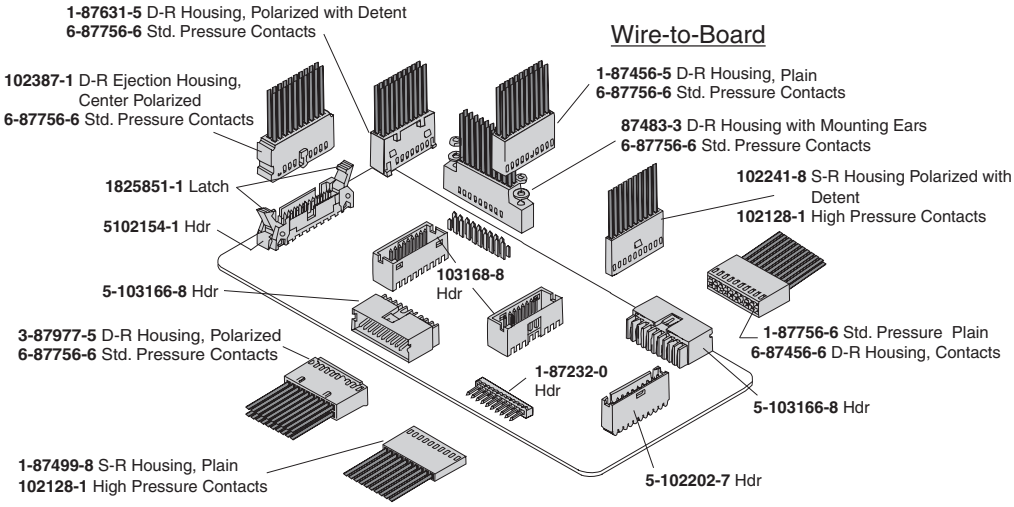
# Mod IV Wire-Applied Contacts and Housings



## Product Facts

- **Terminates 32-20 AWG [0.03-0.6mm²] discrete wire**
- **Contacts have insulation support**
- **Choice of three contact mating pressures**
- **Available in a variety of gold and tin platings**
- **Receptacles mate with .025 [0.64] square or round posts**
- **Dual cantilever contact beam with built-in anti-overstress feature for reliable matings**
- **Housings accept a variety of receptacle and pin contacts**
- **Housing sizes range up to 100 positions**
- **Housing configurations include single- and double-rows on .100 [2.54] centerlines**
- **Housing options include detent latching, polarization and bonded strain relief/ pull tabs**
- **Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476**
- **Certified by Canadian Standards Association, File No. LR 7189**






## Performance Characteristics

**Contact Current Rating** — 3 amperes

**Termination Resistance** — 12 milliohms (max.) — Beryllium copper contacts

20 milliohms (max.) — Copper-tin-phosphor bronze contacts

**Durability** — Ref. Product Specification 108-25020

**Note:** All part numbers are RoHS compliant.



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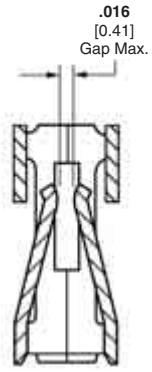
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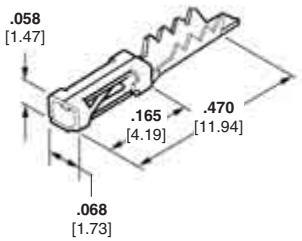
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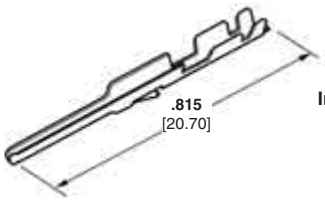
# Mod IV Pin and Receptacle Contacts

## Crimp Snap-In (No-strip) Receptacles and Crimp Snap-In Pins with Insulation Support (Standard Pressure)




**Standard Pressure Configuration**




### Crimp Snap-In (No-strip) Receptacles

| Ins. Dia. Range | Finish | Part Nos. | | Heavy Duty Miniature Applicator No. for AMP-O-LECTRIC Machine* | Hand Tool Part No. |
|---|---|---|---|---|---|
| | | Strip Form | Loose Piece | | |
| **.040-.055** [1.02-1.40] | Plating A | 87107-5 | 102348-2 | 567307-2 | 90381-1 |
| | Plating C | 87107-6 | 102348-3 | | |

### Crimp Snap-In Pins with Insulation Support

| Wire Size Range | | Ins. Dia. (Max.) | Finish | Part Nos. | | Heavy Duty Miniature Applicator No. for AMP-O-LECTRIC Machine* | Hand Tool Part No. | |
|---|---|---|---|---|---|---|---|---|
| AWG | [mm²] | | | Strip Form | Loose Piece | | Premium | Commercial |
| 26-22 | 0.12-0.4 | **.061** [1.55] | Plating A | 102095-3 | 102107-2 | 466812-2 | 91517-1 | 58641-1† |
| | | | Plating B | 102095-2 | 102107-1 | | | |
| | | | Plating C | 5-102095-4 | 5-102107-3 | | | |

*For use with AMP-O-LECTRIC Model "K" machines. Call the Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 270), as well as other bench machines and fully automatic AMPOMATOR lead making machines.
†PRO-CRIMPER II hand tool frame with die set assembly.
Die Set Part No. 58641-2

### Material and Finish

Beryllium copper, phosphor bronze, or copper-tin-phosphor bronze (see charts), plated as follows:

**Plating A** — Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

**Plating B** — Selectively plated .000015 [0.00038] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

**Plating C** — .000100-.000200 [0.00254-0.00508] tin over .000030 [0.00076] nickel on entire contact

### Related Product Data

**Housings Used With** — pages 214-220

**Performance Characteristics** — page 210

**Application Tooling** — page 270-272

**Technical Documents** — pages 276-278

**Product Specification**
108-25007, 108-25019, 108-25020, 108-25021

**Application Specification**
114-25003, 114-25016

**Additional header sizes are available; minimum order quantities may apply. Consult Tyco Electronics.**

**Note:** All part numbers are RoHS compliant.





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# Mod IV Receptacle Contacts

## Crimp Snap-In Receptacles with Insulation Support (Standard, Intermediate and High Pressure)

### Material and Finish

Beryllium copper, phosphor bronze or copper-tin-phosphor bronze (see charts, on following page), plated as follows:

**Plating A** — Duplex plated .000030 [0.00076] gold on contact area, .000100-.000200 [0.00254-0.00508] tin on crimp area, with entire contact underplated .000050 [0.00127] nickel

**Plating B** — Duplex plated .000015 [0.00038] gold on contact area, .000100-.000200 [0.00254-0.00508] tin on crimp area, with entire contact underplated .000050 [0.00127] nickel

**Plating D** — Selectively plated .000050 [0.00127] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

**Plating E** — Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

**Plating F** — Selectively plated .000015 [0.00038] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

**Plating G** — .000100-.000200 [0.00254-0.00508] tin over .000030 [0.00076] nickel on entire contact

### Related Product Data

**Housings Used With** — pages 214-220

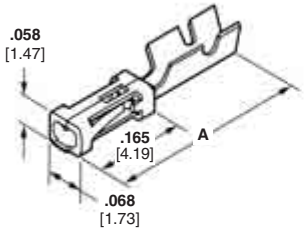
**Performance Characteristics** — page 210

**Application Tooling** — pages 270-272

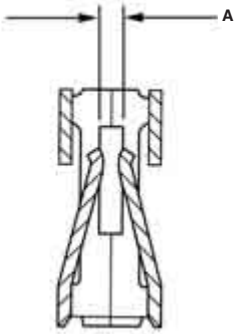
### Technical Documents — pages 277, 278

**Product Specification**
108-25007, 108-25019, 108-25020, 108-25021

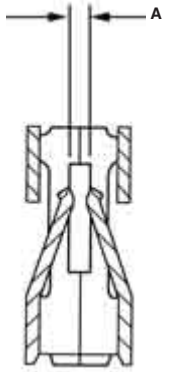
**Application Specification**
114-25003, 114-25016



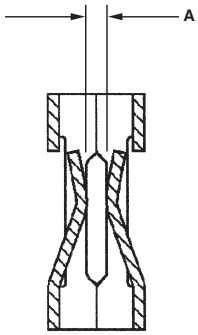

Standard Pressure




Intermediate Pressure




High Pressure




| | Mating Force | Unmating Force | A-Gap Dimension |
|---|---|---|---|
| Standard Pressure | 9 oz. Max. | 1.5 oz. Min. | .008/.014 |
| Intermediate Pressure | 16 oz. Max. | 2 oz. Min. | .008/.014 |
| High Pressure | 20 oz. Max. | 3 oz. Min. | .013±.002 |





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## Mod IV Receptacle Contacts (Continued)

### Standard Pressure (Mod IV)

| Wire Size Range AWG | Wire Size Range [mm²] | Ins. Dia. (Max.) | Dimension A | Material | Finish | Part Nos. Strip Form | Part Nos. Loose Piece | Heavy Duty Miniature Applicator for AMP-O-LECTRIC Machine* | Applicator for Stripper/ Crimper Machine | Hand Tool Part Nos. Premium | Hand Tool Part Nos. Commercial |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32-27 | 0.03-0.1 | **.040** [1.02] | **.445** [11.30] | Cu-Sn-Ph Bz | Plating A | 5-102316-8 | 6-102316-4 | 466655-2 | 466921-1 | 91541-1 | — |
| | | | | Cu-Sn-Ph Bz | Plating B | 5-102316-6 | 6-102316-3 | | | | |
| | | | | Be Cu | Plating D | 1-102917-1 | 1-102917-2 | | | | |
| | | | | Be Cu | Plating E | 102917-1 | 102917-2 | | | | |
| | | | | Be Cu | Plating F | 102917-5 | 102917-6 | | | | |
| | | | | Cu-Sn-Ph Bz | Plating G | 102316-5 | 1-102316-2 | | | | |
| 26-22 | 0.12-0.4 | **.061** [1.55] | **.445** [11.30] | Cu-Sn-Ph Bz | Plating A | 6-87756-7 | 6-87756-8 | 466571-2 | 466918-1 | 91517-1 | 58641-1† |
| | | | | Cu-Sn-Ph Bz | Plating B | 6-87756-2 | 6-87756-6 | | | | |
| | | | | Cu-Sn-Ph Br | Plating G | 87756-6 | 87756-7 | | | | |
| | | | | Be Cu | Plating D | 1-87666-6 | 87667-5 | | | | |
| | | | | Be Cu | Plating E | 87666-2 | 87667-2 | | | | |
| | | | | Be Cu | Plating F | 87666-5 | 87667-5 | | | | |
| | | | | Be Cu | Plating G | 87666-3 | 87667-3 | | | | |
| 24-20 | 0.2-0.6 | **.069** [1.75] | **.470** [11.94] | Cu-Sn-Ph Bz | Plating A | 6-87523-8 | 6-87523-9 | 466562-2 | 466905-1 | 91516-1 | — |
| | | | | Cu-Sn-Ph Bz | Plating B | 2-87523-3 | 2-87523-4 | | | | |
| | | | | Be Cu | Plating E | 85969-8 | 86016-2 | | | | |
| | | | | Be Cu | Plating F | 85969-6 | 86016-5 | | | | |
| | | | | Cu-Sn-Ph Br | Plating G | 87523-5 | 87523-6 | | | | |
| | | | | Be Cu | Plating G | 85969-9 | 86016-3 | | | | |

### Intermediate Pressure (Mod IV.v)

| Wire Size Range AWG | Wire Size Range [mm²] | Ins. Dia. (Max.) | Dimension A | Material | Finish | Part Nos. Strip Form | Part Nos. Loose Piece | Heavy Duty Miniature Applicator for AMP-O-LECTRIC Machine* | Applicator for Stripper/ Crimper Machine | Hand Tool Part Nos. Premium | Hand Tool Part Nos. Commercial |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32-27 | 0.03-0.1 | **.040** [1.02] | **.445** [11.30] | Cu-Sn-Ph Bz | Plating A | 5-102920-1 | 5-102920-2 | 466655-2 | 466921-1 | 91541-1 | — |
| | | | | Be Cu | Plating E | 102918-1 | 102918-2 | | | | |
| 26-22 | 0.12-0.4 | **.061** [1.55] | **.445** [11.30] | Cu-Sn-Ph Bz | Plating A | 5-103171-4 | 5-103171-5 | 466571-2 | 466918-1 | 91517-1 | 58641-1† |
| | | | | Cu-Sn-Ph Bz | Plating B | 5-103171-1 | 5-103171-2 | | | | |
| | | | | Be Cu | Plating E | 102548-5 | 102548-6 | | | | |
| | | | | Be Cu | Plating F | 102548-1 | 102548-3 | | | | |
| 24-20 | 0.2-0.6 | **.069** [1.75] | **.470** [11.94] | Cu-Sn-Ph Bz | Plating A | 2-87195-3 | 2-87195-6 | 466562-2 | 466905-1 | 91516-1 | — |
| | | | | Cu-Sn-Ph Bz | Plating B | 2-87195-4 | 2-87195-5 | | | | |
| | | | | Be Cu | Plating E | 86492-6 | 87046-3 | | | | |
| | | | | Be Cu | Plating F | 86492-2 | 87046-1 | | | | |
| | | | | Be Cu | Plating G | 86492-9 | 87046-4 | | | | |

### High Pressure (Mod V)**

| Wire Size Range AWG | Wire Size Range [mm²] | Ins. Dia. (Max.) | Dimension A | Material | Finish | Part Nos. Strip Form | Part Nos. Loose Piece | Heavy Duty Miniature Applicator for AMP-O-LECTRIC Machine* | Applicator for AMP-O-MATIC Stripper/Crimper Machine | Hand Tool Part Nos. |
|---|---|---|---|---|---|---|---|---|---|---|
| 32-27 | 0.03-0.1 | **.040** [1.02] | **.445** [11.30] | Ph Bz | Plating E | 103455-1 | 103455-2 | 466655-2 | 466921-1 | 91541-1 |
| 26-22 | 0.12-0.4 | **.061** [1.55] | **.445** [11.30] | Ph Bz | Plating E | 87809-1 | 102128-1 | 466571-2 | 466918-1 | 91517-1 |
| | | | | Ph Bz | Plating G | 87809-2 | 102128-2 | | | |
| 24-20 | 0.2-0.6 | **.069** [1.75] | **.470** [11.94] | Ph Bz | Plating E | 87309-9 | 1-87309-4 | 466562-2 | 466905-1 | 91516-1 |
| | | | | Ph Bz | Plating G | 87309-8 | 1-87309-3 | | | |

*For use with AMP-O-LECTRIC Model "K" machines. Call the Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 270), as well as other bench machines and fully automatic AMPOMATOR lead making machines.
**Contact material is phosphor bronze.
†PRO-CRIMPER II hand tool frame with die set assembly.
Die Set Part No. 58641-2

**Note:** All part numbers are RoHS compliant.





Catalog 1307819
Revised 8-08

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

# Mod IV Wire-Applied Housings, Single-Row, .100 [2.54] Centerline

## Non-Polarized



### Material

Black thermoplastic, flame retardant

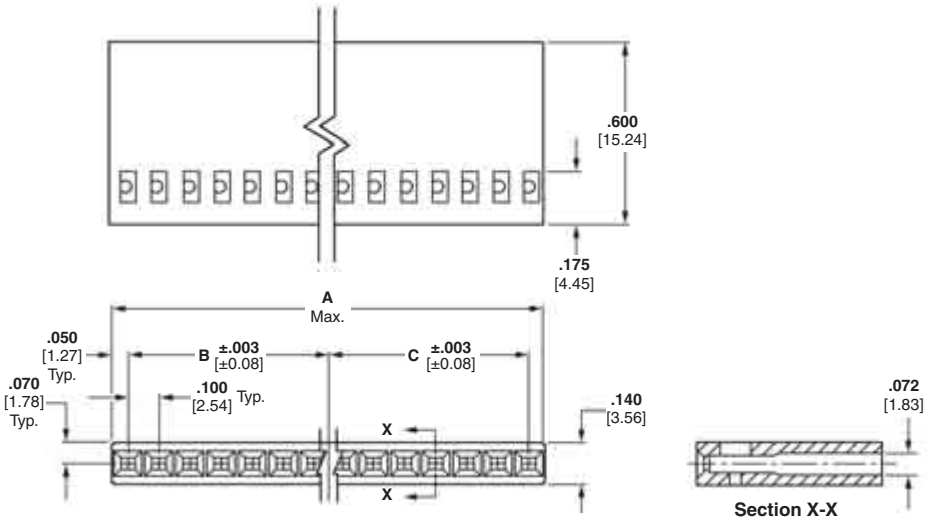
### Related Product Data

**Contacts** — pages 211-213
**Mateable Headers and Posts** — pages 93-95, 101-103

### Technical Documents — pages 277, 278

**Product Specification**
108-25007, 108-25019, 108-25020, 108-25021

**Application Specification**
114-25003, 114-25016




| No. of Pos. | Dimensions A | B | C | Part No. Stamped* | Unstamped** |
|---|---|---|---|---|---|
| 1 | **.105** [2.67] | — | — | — | 7-87499-2 |
| 2 | **.205** [5.21] | **.100** [2.54] | — | 87499-3 | 87499-4 |
| 3 | **.305** [7.75] | **.100** [2.54] | **.100** [2.54] | 87499-5 | 87499-6 |
| 4 | **.405** [10.29] | **.200** [5.08] | **.100** [2.54] | 87499-7 | 87499-8 |
| 5 | **.505** [12.83] | **.200** [5.08] | **.200** [5.08] | 87499-9 | 1-87499-0 |
| 6 | **.605** [15.37] | **.300** [7.62] | **.200** [5.08] | 1-87499-1 | 1-87499-2 |
| 7 | **.705** [17.91] | **.300** [7.62] | **.300** [7.62] | 87499-1 | 87499-2 |
| 8 | **.805** [20.45] | **.400** [10.16] | **.300** [7.62] | 1-87499-3 | 1-87499-4 |
| 9 | **.905** [22.99] | **.400** [10.16] | **.400** [10.16] | 1-87499-5 | 1-87499-6 |
| 10 | **1.005** [25.53] | **.500** [12.70] | **.400** [10.16] | 1-87499-7 | 1-87499-8 |
| 11 | **1.105** [28.01] | **.500** [12.70] | **.500** [12.70] | 1-87499-9 | 2-87499-0 |
| 12 | **1.205** [30.61] | **.600** [15.24] | **.500** [12.70] | 2-87499-1 | 2-87499-2 |
| 13 | **1.305** [33.15] | **.600** [15.24] | **.600** [15.24] | 2-87499-3 | 2-87499-4 |
| 14 | **1.405** [35.69] | **.700** [17.78] | **.600** [15.24] | 2-87499-5 | 2-87499-6 |
| 15 | **1.505** [38.23] | **.700** [17.78] | **.700** [17.78] | 2-87499-7 | 2-87499-8 |
| 16 | **1.605** [40.77] | **.800** [20.32] | **.700** [17.78] | 2-87499-9 | 3-87499-0 |
| 17 | **1.700** [43.18] | **.800** [20.32] | **.800** [20.32] | — | 3-87499-2 |
| 18 | **1.805** [45.85] | **.900** [22.86] | **.800** [20.32] | — | 3-87499-4 |
| 19 | **1.900** [48.26] | **.900** [22.86] | **.900** [22.86] | — | 3-87499-6 |
| 20 | **2.005** [50.93] | **1.000** [25.40] | **.900** [22.86] | 3-87499-7 | 3-87499-8 |
| 21 | **2.100** [53.34] | **1.000** [25.40] | **1.000** [25.40] | — | 4-87499-0 |
| 22 | **2.205** [56.01] | **1.100** [27.94] | **1.000** [25.40] | — | 4-87499-2 |
| 23 | **2.300** [58.42] | **1.100** [27.94] | **1.100** [27.94] | — | 4-87499-4 |
| 24 | **2.400** [60.96] | **1.200** [30.48] | **1.100** [27.94] | — | 4-87499-6 |
| 25 | **2.500** [63.50] | **1.200** [30.48] | **1.200** [30.48] | — | 4-87499-8 |
| 26 | **2.605** [66.17] | **1.300** [33.02] | **1.200** [30.48] | — | 5-87499-0 |
| 27 | **2.700** [68.58] | **1.300** [33.02] | **1.300** [33.02] | — | 5-87499-2 |
| 28 | **2.800** [71.12] | **1.400** [35.56] | **1.300** [33.02] | — | 5-87499-4 |
| 29 | **2.900** [73.66] | **1.400** [35.56] | **1.400** [35.56] | — | 5-87499-6 |
| 30 | **3.005** [76.33] | **1.500** [38.10] | **1.400** [35.56] | — | 5-87499-8 |
| 31 | **3.100** [78.74] | **1.500** [38.10] | **1.500** [38.10] | — | 6-87499-0 |
| 32 | **3.200** [81.28] | **1.600** [40.64] | **1.500** [38.10] | — | 6-87499-2 |
| 33 | **3.300** [83.82] | **1.600** [40.64] | **1.600** [40.64] | — | 6-87499-4 |
| 34 | **3.400** [86.36] | **1.700** [43.18] | **1.600** [40.64] | — | 6-87499-6 |
| 35 | **3.500** [88.98] | **1.700** [43.18] | **1.700** [43.18] | — | 6-87499-8 |
| 36 | **3.600** [91.44] | **1.800** [45.72] | **1.700** [43.18] | — | 7-87499-0 |

*Cavity identification, part number and date code stamped on housing where size permits.
**No marking on housing.
**Notes:** 1. Strain reliefs are available and may be purchased separately. Consult Tyco Electronics.
2. Contact **Extraction/Lance Reset Tool No. 843996-3.**

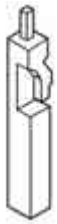
**Note:** All part numbers are RoHS compliant.

## Keying Plugs



**Part No. 86286-1**
(Plugs into standard or intermediate pressure receptacle contact)

**Material** — Natural color nylon



**Part No. 87077-2**
(Plugs directly into housing)





Catalog 1307819
Revised 8-08

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

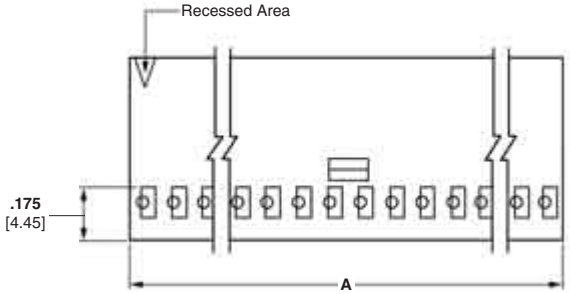
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

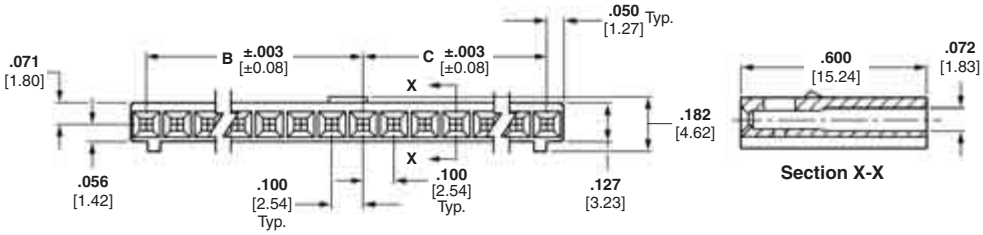
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## Mod IV Wire-Applied Housings, Single-Row, .100 [2.54] Centerline (Continued)

### Polarized (with Detent Latching)






### Material

Black thermoplastic, flame retardant

### Related Product Data

**Contacts** — pages 211-213

**Mateable Headers and Posts** — pages 115, 116

**Flexible Film Connectors, Single-Row Pin Assemblies** — Catalog 82007

### Technical Documents — pages 277, 278

**Product Specification**
108-25007, 108-25019, 108-25020, 108-25021

**Application Specification**
114-25003, 114-25016

| No. of Pos. | Dimensions A | B | C | Part Nos. Unstamped* |
|---|---|---|---|---|
| 3 | **.300** [7.62] | **.100** [2.54] | **.100** [2.54] | 102241-1 |
| 4 | **.400** [10.16] | **.200** [5.08] | **.100** [2.54] | 102241-2 |
| 5 | **.500** [12.70] | **.200** [5.08] | **.200** [5.08] | 102241-3 |
| 6 | **.600** [15.24] | **.300** [7.62] | **.200** [5.08] | 102241-4 |
| 7 | **.700** [17.78] | **.300** [7.62] | **.300** [7.62] | 102241-5 |
| 8 | **.800** [20.32] | **.400** [10.16] | **.300** [7.62] | 102241-6 |
| 9 | **.900** [22.86] | **.400** [10.16] | **.400** [10.16] | 102241-7 |
| 10 | **1.000** [25.40] | **.500** [12.70] | **.400** [10.16] | 102241-8 |
| 11 | **1.100** [27.94] | **.500** [12.70] | **.500** [12.70] | 102241-9 |
| 12 | **1.200** [30.48] | **.600** [15.24] | **.500** [12.70] | 1-102241-0 |
| 13 | **1.300** [33.02] | **.600** [15.24] | **.600** [15.24] | 1-102241-1 |
| 14 | **1.400** [35.56] | **.700** [17.78] | **.600** [15.24] | 1-102241-2 |
| 15 | **1.500** [38.10] | **.700** [17.78] | **.700** [17.78] | 1-102241-3 |
| 16 | **1.600** [40.64] | **.800** [20.32] | **.700** [17.78] | 1-102241-4 |
| 17 | **1.700** [43.18] | **.800** [20.32] | **.800** [20.32] | 1-102241-5 |
| 18 | **1.800** [45.72] | **.900** [22.86] | **.800** [20.32] | 1-102241-6 |
| 19 | **1.900** [48.26] | **.900** [22.86] | **.900** [22.86] | 1-102241-7 |
| 20 | **2.000** [50.80] | **1.000** [25.40] | **.900** [22.86] | 1-102241-8 |
| 21 | **2.100** [53.34] | **1.000** [25.40] | **1.000** [25.40] | 1-102241-9 |
| 22 | **2.200** [55.88] | **1.100** [27.94] | **1.000** [25.40] | 2-102241-0 |
| 23 | **2.300** [58.42] | **1.100** [27.94] | **1.100** [27.94] | 2-102241-1 |
| 24 | **2.400** [60.96] | **1.200** [30.48] | **1.100** [27.94] | 2-102241-2 |
| 25 | **2.500** [63.50] | **1.200** [30.48] | **1.200** [30.48] | 2-102241-3 |
| 26 | **2.600** [66.04] | **1.300** [33.02] | **1.200** [30.48] | 2-102241-4 |
| 27 | **2.700** [68.58] | **1.300** [33.02] | **1.300** [33.02] | 2-102241-5 |
| 28 | **2.800** [71.12] | **1.400** [35.56] | **1.300** [33.02] | 2-102241-6 |
| 29 | **2.900** [73.66] | **1.400** [35.56] | **1.400** [35.56] | 2-102241-7 |
| 30 | **3.000** [76.20] | **1.500** [38.10] | **1.400** [35.56] | 2-102241-8 |
| 31 | **3.100** [78.74] | **1.500** [38.10] | **1.500** [38.10] | 2-102241-9 |
| 32 | **3.200** [81.28] | **1.600** [40.64] | **1.500** [38.10] | 3-102241-0 |
| 33 | **3.300** [83.82] | **1.600** [40.64] | **1.600** [40.64] | 3-102241-1 |
| 34 | **3.400** [86.36] | **1.700** [43.18] | **1.600** [40.64] | 3-102242-2 |
| 35 | **3.500** [88.90] | **1.700** [43.18] | **1.700** [43.18] | 3-102241-3 |
| 36 | **3.600** [91.44] | **1.800** [45.72] | **1.700** [43.18] | 3-102241-4 |

*No marking on housing.
**Note:** Contact **Extraction/Lance Reset Tool No. 843996-3.**

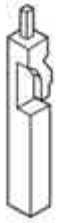
**Note:** All part numbers are RoHS compliant.

### Keying Plugs



**Part No. 86286-1**
(Plugs into standard or intermediate pressure receptacle contact)

**Material** — Natural color nylon



**Part No. 87077-2**
(Plugs directly into housing)





Catalog 1307819
Revised 8-08

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

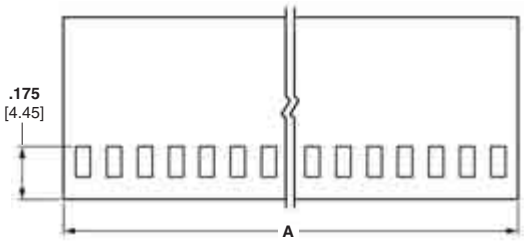
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

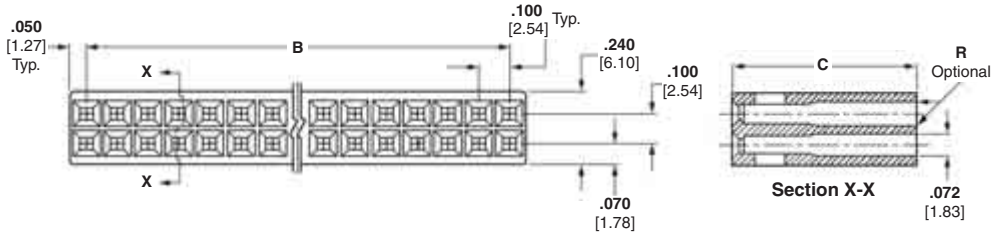
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

# Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline

## Non-Polarized






### Material

Black thermoplastic, flame retardant

### Related Product Data

**Contacts** — pages 211-213

**Mateable Headers and Posts** — pages 96-99, 104, 105, 117-120

### Technical Documents — pages 277, 278

**Product Specification**
108-25007, 108-25019, 108-25020, 108-25021

**Application Specification**
114-25003, 114-25016

| No. of Pos. | Dimensions | | Part Nos. | | |
|---|---|---|---|---|---|
| | | | C = .600 [15.24] | | C = .645 [16.38] |
| | A | B | Stamped* | Unstamped** | Unstamped** |
| 2 | **.100** [2.54] | — | — | 5-87456-3 | — |
| 4 | **.200** [5.08] | **.100** [2.54] | 5-87456-0 | 4-87456-9 | 2-86177-5 |
| 6 | **.300** [7.62] | **.200** [5.08] | 87456-2 | 87456-1 | 1-86177-8 |
| 8 | **.400** [10.16] | **.300** [7.62] | 87456-4 | 87456-3 | 2-86177-0 |
| 10 | **.500** [12.70] | **.400** [10.16] | 87456-6 | 87456-5 | 1-86177-2 |
| 12 | **.600** [15.24] | **.500** [12.70] | 87456-8 | 87456-7 | 1-86177-3 |
| 14 | **.700** [17.78] | **.600** [15.24] | 1-87456-0 | 87456-9 | 1-86177-4 |
| 16 | **.800** [20.32] | **.700** [17.78] | 1-87456-2 | 1-87456-1 | 1-86177-5 |
| 18 | **.900** [22.86] | **.800** [20.32] | 1-87456-4 | 1-87456-3 | 1-86177-6 |
| 20 | **1.000** [25.40] | **.900** [22.86] | 1-87456-6 | 1-87456-5 | 86177-1 |
| 22 | **1.100** [27.94] | **1.000** [25.40] | — | 1-87456-7 | 86177-2 |
| 24 | **1.200** [30.48] | **1.100** [27.94] | 2-87456-0 | 1-87456-9 | 86177-3 |
| 26 | **1.300** [33.02] | **1.200** [30.48] | 2-87456-2 | 2-87456-1 | 86177-4 |
| 28 | **1.400** [35.56] | **1.300** [33.02] | 2-87456-4 | 2-87456-3 | 86177-5 |
| 30 | **1.500** [38.10] | **1.400** [35.56] | 2-87456-6 | 2-87456-5 | 86177-6 |
| 32 | **1.600** [40.64] | **1.500** [38.10] | 2-87456-8 | 2-87456-7 | 86177-7 |
| 34 | **1.700** [43.18] | **1.600** [40.64] | 3-87456-0 | 2-87456-9 | 86177-8 |
| 36 | **1.800** [45.72] | **1.700** [43.18] | 3-87456-2 | 3-87456-1 | 86177-9 |
| 38 | **1.900** [48.26] | **1.800** [45.72] | — | 3-87456-3 | 1-86177-0 |
| 40 | **2.000** [50.80] | **1.900** [48.26] | 3-87456-6 | 3-87456-5 | 1-86177-1 |
| 42 | **2.100** [53.34] | **2.000** [50.80] | 4-87456-4 | 4-87456-3 | — |
| 44 | **2.200** [55.88] | **2.100** [53.34] | 3-87456-8 | 3-87456-7 | 1-86177-7 |
| 48 | **2.400** [60.96] | **2.300** [58.42] | 6-87456-0 | 5-87456-9 | 2-86177-3 |
| 50 | **2.500** [63.50] | **2.400** [60.96] | 4-87456-0 | 3-87456-9 | 2-86177-1 |
| 52 | **2.600** [66.04] | **2.500** [63.50] | 4-87456-2 | 4-87456-1 | 1-86177-9 |
| 54 | **2.700** [68.58] | **2.600** [66.04] | — | 4-87456-5 | — |
| 56 | **2.800** [71.12] | **2.700** [68.58] | — | 6-87456-1 | — |
| 58 | **2.900** [73.66] | **2.800** [71.12] | — | 6-87456-3 | — |
| 60 | **3.000** [76.20] | **2.900** [73.66] | 5-87456-2 | 5-87456-1 | — |
| 64 | **3.200** [81.28] | **3.100** [78.74] | 6-87456-6 | 6-87456-5 | — |
| 66 | **3.300** [83.82] | **3.200** [81.28] | 5-87456-4 | 5-87456-7 | — |
| 70 | **3.500** [88.90] | **3.400** [86.36] | — | 5-87456-5 | 2-86177-4 |
| 72 | **3.600** [91.44] | **3.500** [88.90] | 4-87456-8 | 4-87456-7 | — |

*Cavity identification, part number and date code stamped on housing where size permits.
**No marking on housing.

**Notes:** 1. Strain reliefs are available and may be purchased separately. Consult Tyco Electronics.
2. Contact **Extraction/Lance Reset Tool No. 843996-3.**

**Note:** All part numbers are RoHS compliant.

### Keying Plugs



**Part No. 86286-1**
(Plugs into standard or intermediate pressure receptacle contact)

**Material** — Natural color nylon



**Part No. 87077-1**
(for .645 high housings)
**Part No. 87077-2**
(for .600 high housings)
(Plugs directly into housing)





Catalog 1307819
Revised 8-08

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

# Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline (Continued)

## Polarized



### Material

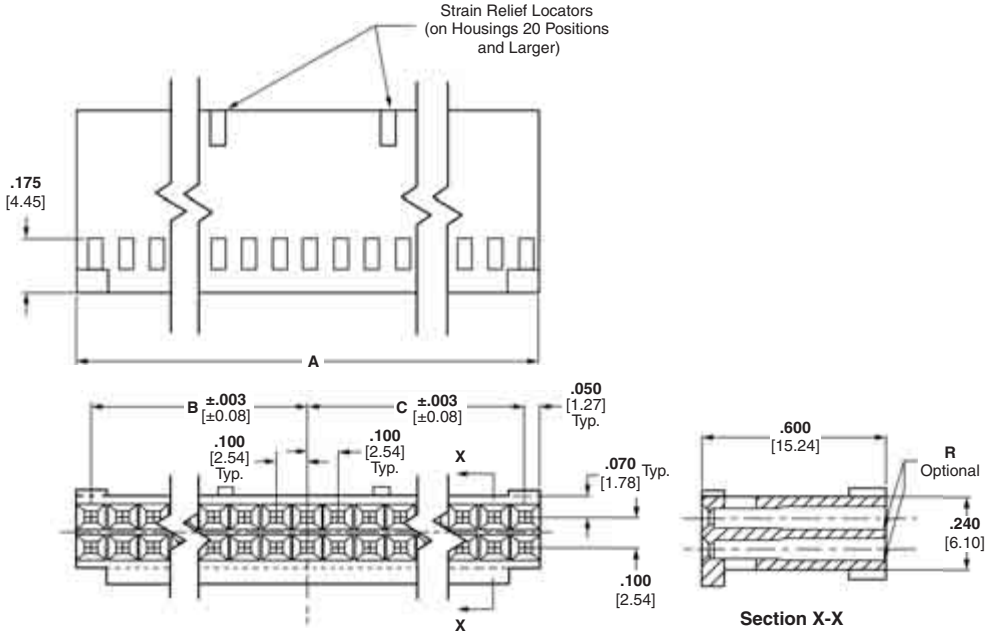
Black thermoplastic, flame retardant

### Related Product Data

**Contacts** — pages 211-213
**Mateable Headers and Posts**— pages 117-131

### Technical Documents — pages 277, 278

**Product Specification**
108-25007, 108-25019, 108-25020, 108-25021
**Application Specification**
114-25003, 114-25016




| No. of Pos. | Dimensions | | | Part Nos. | |
|---|---|---|---|---|---|
| | A | B | C | Stamped* | Unstamped** |
| 6 | **.300** [7.62] | **.100** [2.54] | **.100** [2.54] | 87977-1 | 2-87977-8 |
| 8 | **.400** [10.16] | **.200** [5.08] | **.100** [2.54] | 87977-2 | 2-87977-9 |
| 10 | **.500** [12.70] | **.200** [5.08] | **.200** [5.08] | 87977-3 | 3-87977-0 |
| 12 | **.600** [15.24] | **.300** [7.62] | **.200** [5.08] | 87977-4 | 3-87977-1 |
| 14 | **.700** [17.78] | **.300** [7.62] | **.300** [7.62] | 87977-5 | 3-87977-2 |
| 16 | **.800** [20.32] | **.400** [10.16] | **.300** [7.62] | 87977-6 | 3-87977-3 |
| 18 | **.900** [22.86] | **.400** [10.16] | **.400** [10.16] | — | 3-87977-4 |
| 20 | **1.000** [25.40] | **.500** [12.70] | **.400** [10.16] | 87977-8 | 3-87977-5 |
| 22 | **1.100** [27.94] | **.500** [12.70] | **.500** [12.70] | — | 3-87977-6 |
| 24 | **1.200** [30.48] | **.600** [15.24] | **.500** [12.70] | 1-87977-0 | 3-87977-7 |
| 26 | **1.300** [33.02] | **.600** [15.24] | **.600** [15.24] | 1-87977-1 | 3-87977-8 |
| 28 | **1.400** [35.56] | **.700** [17.78] | **.600** [15.24] | — | 3-87977-9 |
| 30 | **1.500** [38.10] | **.700** [17.78] | **.700** [17.78] | — | 4-87977-0 |
| 32 | **1.600** [40.64] | **.800** [20.32] | **.700** [17.78] | — | 4-87977-1 |
| 34 | **1.700** [43.18] | **.800** [20.32] | **.800** [20.32] | — | 4-87977-2 |
| 36 | **1.800** [45.72] | **.900** [22.86] | **.800** [20.32] | — | 4-87977-3 |
| 38 | **1.900** [48.26] | **.900** [22.86] | **.900** [22.86] | — | 4-87977-4 |
| 40 | **2.000** [50.80] | **1.000** [25.40] | **.900** [22.86] | 1-87977-8 | 4-87977-5 |
| 42 | **2.100** [53.34] | **1.000** [25.40] | **1.000** [25.40] | — | 4-87977-6 |
| 44 | **2.200** [55.88] | **1.100** [27.94] | **1.000** [25.40] | — | 4-87977-7 |
| 48 | **2.400** [60.96] | **1.200** [30.48] | **1.100** [27.94] | — | 5-87977-6 |
| 50 | **2.500** [63.50] | **1.200** [30.48] | **1.200** [30.48] | 2-87977-1 | 4-87977-8 |
| 52 | **2.600** [66.04] | **1.300** [33.02] | **1.200** [30.48] | — | 4-87977-9 |
| 54 | **2.700** [68.58] | **1.300** [33.02] | **1.300** [33.02] | — | 5-87977-0 |
| 56 | **2.800** [71.12] | **1.400** [35.56] | **1.300** [33.02] | — | 5-87977-8 |
| 58 | **2.900** [73.66] | **1.400** [35.56] | **1.400** [35.56] | — | 6-87977-0 |
| 60 | **3.000** [76.20] | **1.500** [38.10] | **1.400** [35.56] | 2-87977-4 | 5-87977-1 |
| 64 | **3.200** [81.28] | **1.600** [40.64] | **1.500** [38.10] | — | 6-87977-2 |
| 66 | **3.300** [83.82] | **1.600** [40.64] | **1.600** [40.64] | — | 5-87977-2 |
| 70 | **3.500** [88.90] | **1.700** [43.18] | **1.700** [43.18] | — | 5-87977-3 |
| 72 | **3.600** [91.44] | **1.800** [45.72] | **1.700** [43.18] | — | 5-87977-4 |

*Cavity identification, part number and date code stamped on housing where size permits.
**No marking on housing or strain relief.
**Notes:** 1. Strain reliefs are available and may be purchased separately. Consult Tyco Electronics.
2. Contact **Extraction/Lance Reset Tool No. 843996-3.**

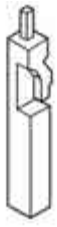
**Note:** All part numbers are RoHS compliant.

## Keying Plugs



**Part No. 86286-1**
(Plugs into standard or intermediate pressure receptacle contact)

**Material** — Natural color nylon



**Part No. 87077-2**
(Plugs directly into housing)





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UK: 44-8706-080-208

# Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline (Continued)

## Polarized (with Detent Latching, with and without Strain Relief/Pull Tab)



### Material

Black thermoplastic, flame retardant

### Related Product Data

**Contacts** — pages 211-213
**Mateable Headers and Posts** — pages 117-125, 127-133

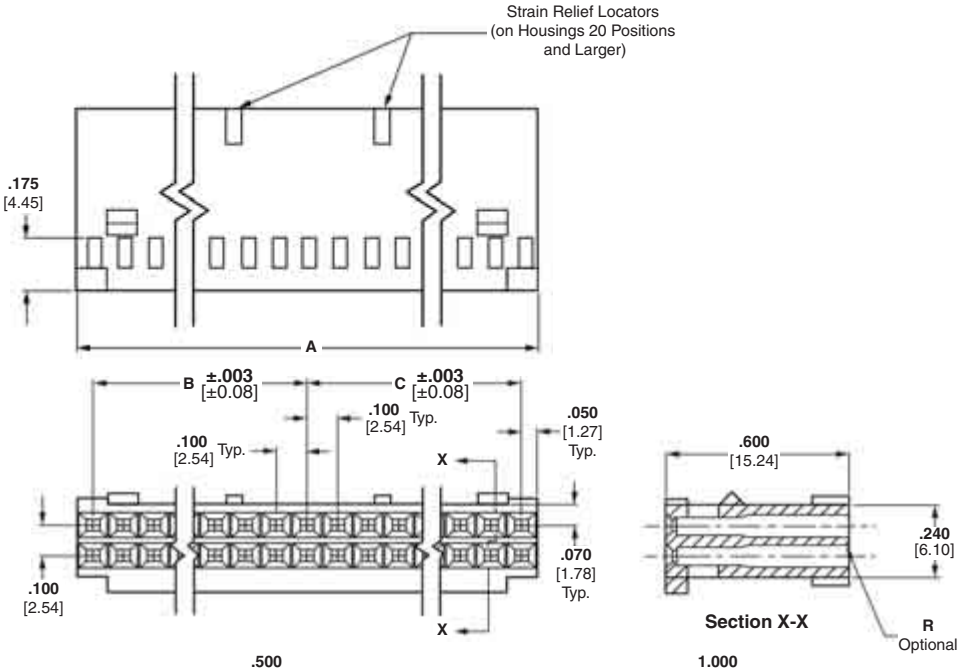
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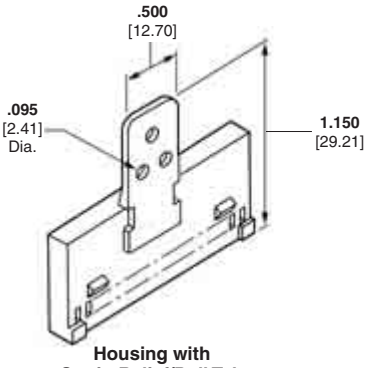
pages 277, 278

**Product Specification**
108-25007, 108-25019, 108-25020, 108-25021

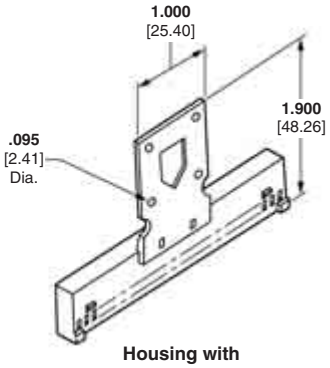
**Application Specification**
114-25003, 114-25016






**Housing with Strain Relief/Pull Tab**
**Strain Relief Part No. 87921-1**
(10 thru 18 positions)




**Housing with Strain Relief/Pull Tab**
**Strain Relief Part No. 87710-1**
(20 positions and larger)

## Keying Plugs



**Part No. 86286-1**
(Plugs into standard or intermediate pressure receptacle contact)

**Material** — Natural color nylon



**Part No. 87077-2**
(Plugs directly into housing)

| No. of Pos. | Dimensions | | | No. of Detents | Part Nos. | | |
|---|---|---|---|---|---|---|---|
| | | | | | Without Strain Relief | | With Strain Relief |
| | A | B | C | | Stamped* | Unstamped** | Stamped* |
| 6 | **.300** [7.62] | **.100** [2.54] | **.100** [2.54] | 1 | 87631-2 | 87631-1 | — |
| 8 | **.400** [10.16] | **.200** [5.08] | **.100** [2.54] | 1 | 87631-4 | 87631-3 | — |
| 10 | **.500** [12.70] | **.200** [5.08] | **.200** [5.08] | 1 | 87631-6 | 87631-5 | 87922-1 |
| 12 | **.600** [15.24] | **.300** [7.62] | **.200** [5.08] | 1 | 87631-8 | 87631-7 | 87922-2 |
| 14 | **.700** [17.78] | **.300** [7.62] | **.300** [7.62] | 1 | 1-87631-0 | 87631-9 | 87922-3 |
| 16 | **.800** [20.32] | **.400** [10.16] | **.300** [7.62] | 1 | 1-87631-2 | 1-87631-1 | 87922-4 |

*Cavity identification, part number and date code stamped on housing and/or strain relief where size permits.
**No marking on housing or strain relief.
**Notes:** 1. The Strain Relief/Pull Tab can be bonded to any thermoplastic connector housing.
2. Strain reliefs may be purchased separately.
3. Contact **Extraction/Lance Reset Tool No. 843996-3.**

**Note:** All part numbers are RoHS compliant.



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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline (Continued)

| No. of Pos. | Dimensions | | | No. of Detents | Part Nos. | | |
|---|---|---|---|---|---|---|---|
| | A | B | C | | Without Strain Relief | | With Strain Relief |
| | | | | | Stamped* | Unstamped** | Stamped* |
| 18 | **.900** [22.86] | **.400** [10.16] | **.400** [10.16] | 1 | 1-87631-4 | 1-87631-3 | 87922-5 |
| 20 | **1.000** [25.40] | **.500** [12.70] | **.400** [10.16] | 2 | 1-87631-6 | 1-87631-5 | 87733-1 |
| 22 | **1.100** [27.94] | **.500** [12.70] | **.500** [12.70] | 2 | 1-87631-8 | 1-87631-7 | — |
| 24 | **1.200** [30.48] | **.600** [15.24] | **.500** [12.70] | 2 | 2-87631-0 | 1-87631-9 | 87733-3 |
| 26 | **1.300** [33.02] | **.600** [15.24] | **.600** [15.24] | 2 | 2-87631-2 | 2-87631-1 | 87733-4 |
| 28 | **1.400** [35.56] | **.700** [17.78] | **.600** [15.24] | 2 | 2-87631-4 | 2-87631-3 | — |
| 30 | **1.500** [38.10] | **.700** [17.78] | **.700** [17.78] | 2 | 2-87631-6 | 2-87631-5 | 87733-6 |
| 32 | **1.600** [40.64] | **.800** [20.32] | **.700** [17.78] | 2 | 2-87631-8 | 2-87631-7 | 87733-7 |
| 34 | **1.700** [43.18] | **.800** [20.32] | **.800** [20.32] | 2 | 3-87631-0 | 2-87631-9 | 87733-8 |
| 36 | **1.800** [45.72] | **.900** [22.86] | **.800** [20.32] | 2 | 3-87631-2 | 3-87631-1 | — |
| 38 | **1.900** [48.26] | **.900** [22.86] | **.900** [22.86] | 2 | — | 3-87631-3 | — |
| 40 | **2.000** [50.80] | **1.000** [25.40] | **.900** [22.86] | 2 | 3-87631-6 | 3-87631-5 | 1-87733-1 |
| 42 | **2.100** [53.34] | **1.000** [25.40] | **1.000** [25.40] | 2 | 3-87631-8 | 3-87631-7 | — |
| 44 | **2.200** [55.88] | **1.100** [27.94] | **1.000** [25.40] | 2 | 4-87631-0 | 3-87631-9 | — |
| 48 | **2.400** [60.96] | **1.200** [30.48] | **1.100** [27.94] | 2 | — | 5-87631-9 | — |
| 50 | **2.500** [63.50] | **1.200** [30.48] | **1.200** [30.48] | 2 | 4-87631-2 | 4-87631-1 | 1-87733-4 |
| 52 | **2.600** [66.04] | **1.300** [33.02] | **1.200** [30.48] | 2 | — | 4-87631-3 | — |
| 54 | **2.700** [68.58] | **1.300** [33.02] | **1.300** [33.02] | 2 | 4-87631-6 | 4-87631-5 | — |
| 58 | **2.900** [73.66] | **1.400** [35.56] | **1.400** [35.56] | 2 | — | 6-87631-3 | — |
| 60 | **3.000** [76.20] | **1.500** [38.10] | **1.400** [35.56] | 2 | 5-87631-2 | 5-87631-1 | 1-87733-7 |
| 64 | **3.200** [81.28] | **1.600** [40.64] | **1.500** [38.10] | 2 | 6-87631-6 | 6-87631-5 | — |
| 66 | **3.300** [83.82] | **1.600** [40.64] | **1.600** [40.64] | 2 | — | 5-87631-3 | — |
| 70 | **3.500** [88.90] | **1.700** [43.18] | **1.700** [43.18] | 2 | — | 5-87631-5 | — |
| 72 | **3.800** [96.52] | **1.800** [45.72] | **1.700** [43.18] | 2 | 5-87631-8 | 5-87631-7 | — |

*Cavity identification, part number and date code stamped on housing and/or strain relief where size permits.
**No marking on housing or strain relief.

**Notes:** 1. The Strain Relief/Pull Tab can be bonded to any thermoplastic connector housing.
2. Strain reliefs may be purchased separately.
3. Contact **Extraction/Lance Reset Tool No. 843996-3.**



**Note:** All part numbers are RoHS compliant.



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Japan: 81-44-844-8013
UK: 44-8706-080-208

# Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline (Continued)

## Center Polarized



### Material

Black thermoplastic, flame retardant

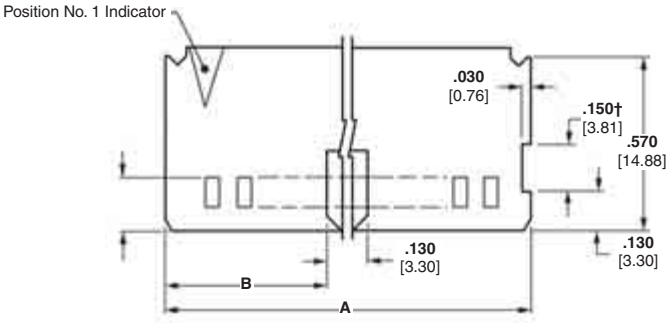
### Related Product Data

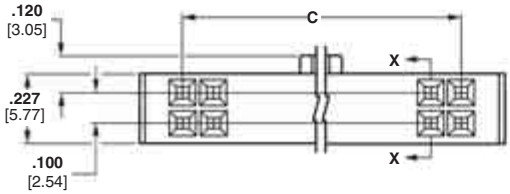
**Contacts** — pages 211-213
**Mateable Headers and Posts** — **AMP-LATCH Low Profile Headers, Shrouded** — pages 135-140

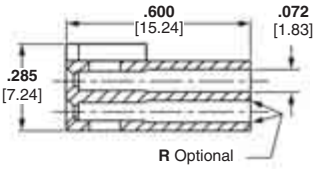
### Technical Documents — pages 277, 278

**Product Specification**
108-25007, 108-25019, 108-25020, 108-25021

**Application Specification**
114-25003, 114-25016




**Section X-X**

| No. of Pos. | Dimensions A | B | C | Part Nos. (Stamped*) |
|---|---|---|---|---|
| 8 | **.580** [14.73] | **.225** [5.72] | **.300** [7.62] | 1-102387-4 |
| 10 | **.680** [17.27] | **.275** [6.98] | **.400** [10.16] | 102387-1 |
| 14 | **.880** [22.35] | **.375** [9.53] | **.600** [15.24] | 102387-2 |
| 16 | **.980** [24.89] | **.425** [10.80] | **.700** [17.78] | 102387-3 |
| 20 | **1.180** [29.97] | **.525** [13.34] | **.900** [22.86] | 102387-4 |
| 22 | **1.280** [32.51] | **.575** [14.61] | **1.000** [25.40] | 1-102387-5 |
| 24 | **1.380** [35.05] | **.625** [15.88] | **1.100** [27.94] | 102387-5 |
| 26 | **1.480** [37.59] | **.675** [17.15] | **1.200** [30.48] | 102387-6 |
| 30 | **1.680** [42.67] | **.775** [19.69] | **1.400** [35.56] | 102387-7 |
| 34 | **1.880** [47.75] | **.875** [22.23] | **1.600** [40.64] | 102387-8 |
| 40 | **2.180** [55.37] | **1.025** [26.04] | **1.900** [48.26] | 102387-9 |
| 44 | **2.380** [60.45] | **1.125** [28.58] | **2.100** [53.34] | 1-102387-3 |
| 50 | **2.680** [68.07] | **1.275** [32.39] | **2.400** [60.96] | 1-102387-0 |
| 60 | **3.180** [80.77] | **1.525** [38.74] | **2.900** [73.66] | 1-102387-1 |
| 64 | **3.380** [85.85] | **1.625** [41.28] | **3.100** [78.74] | 1-102387-2 |

*Cavity identification and Tyco Electronics stamped on housing.
†Non-functional slot is used for gating purposes during injection molding process. This gating feature is not inherent in all production molds. Therefore, the depicted slot will only be present on housings produced on mold tooling requiring this gating feature.
**Note:** Contact **Extraction/Lance Reset Tool No. 843996-3.**

## Keying Plugs



**Part No. 86286-1**
(Plugs into standard or intermediate pressure receptacle contact)

**Material** — Natural color nylon



**Part No. 87077-2**
(Plugs directly into housing)

**Note:** All part numbers are RoHS compliant.





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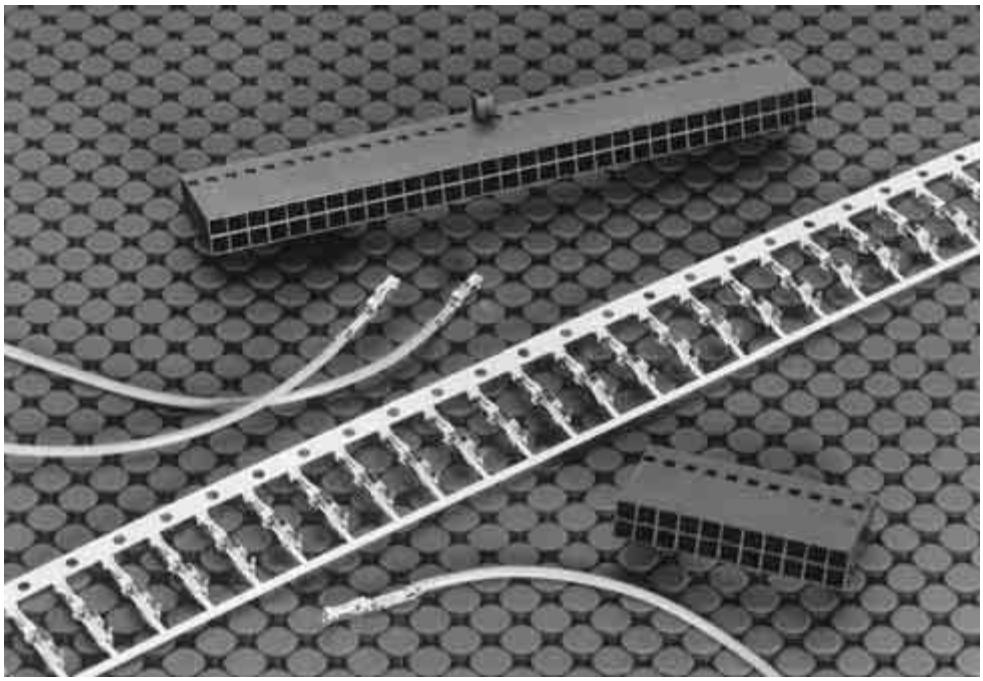
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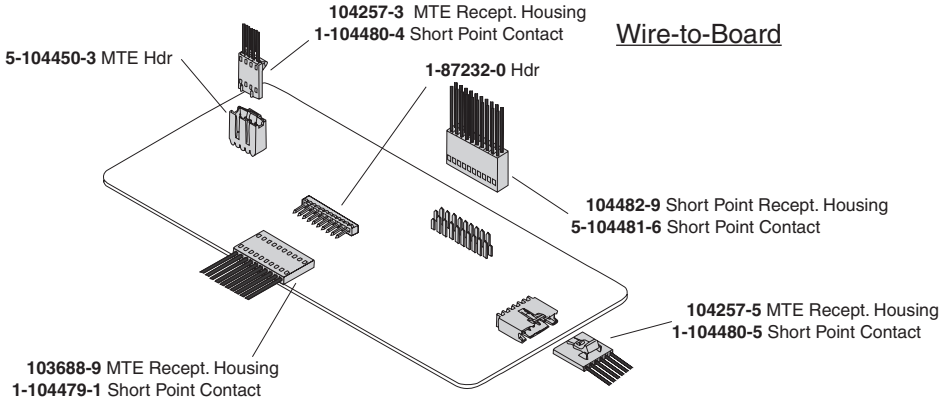
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Japan: 81-44-844-8013
UK: 44-8706-080-208

# Short Point, Crimp Snap-In Wire-Applied Contacts and Housings

## Product Facts

- **Short point of contact mates with .169 [4.29] to .259 [6.58] long post**
- **Double-row housings are end-to-end and side-to-side stackable**
- **Terminates 32-20 AWG [0.03-0.6 mm²] discrete wire**
- **Contacts have insulation support to accept a maximum insulation diameter of .060 [1.52]**
- **Available with .000015 [0.00038] or .000030 [0.00076] gold duplex, or tin plating**
- **Mates with .025 [0.64] square posts**
- **Dual cantilever contact beams for reliable matings**
- **Locking retention latch provides approximately 3 lb [13.34 N] of retention force**
- **Unique locking latch design helps prevent latch from protruding through latch window**
- **Contacts snap into AMPMODU MTE single-row housings**
- **Double-row housing configurations include .100 [2.54] centerline, plain and polarized**
- **Housing sizes range from 4 to 52 positions**
- **Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476**
- **Certified by Canadian Standards Association, File No. LR7189**
- **Produced under a Quality Management System certified to ISO 9001**
  A copy of the certificate is available upon request






AMPMODU Short Point receptacle contacts are designed to mate with .025 [0.64] square posts. They will mate with posts as short as .169 [4.29].

Short Point double-row housings are end-to-end and side-to-side stackable on .100 [2.54] centers. Contacts also can be used in single-row AMPMODU MTE housings to provide a complete wire-crimp system, or to serve as replacement contacts.

## Performance Characteristics

**Contact Current Rating** — 3 amperes

**Termination Resistance** — 12 milliohms (max.)

**Durability** — Ref. Product Specification 108-1472

**Note:** All part numbers are RoHS compliant.





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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

# Short Point Crimp Snap-In Receptacle Contacts

## Material and Finish

Copper alloy C7025, plated as follows:

**Plating A** — Duplex plated .000030 [0.00076] min. gold on contact area, .000050 [0.00127] min. tin in crimp area, with entire contact underplated .000050 [0.00127] min. nickel

**Plating B** — Duplex plated .000015 [0.00038] min. gold on contact area, .000050 [0.00127] min. tin in crimp area, with entire contact underplated .000050 [0.00127] min. nickel

**Plating C** — .000100 [0.00254] min. tin over .000050 [0.00127] min. nickel on entire contact

## Related Product Data

**Performance Characteristics** — page 221

**Housings used in** — Short Point—pages 223, 224

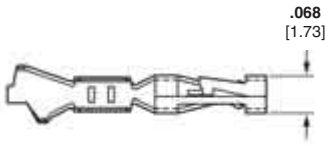
**AMPMODU MTE Unloaded Housings** — pages 228-233

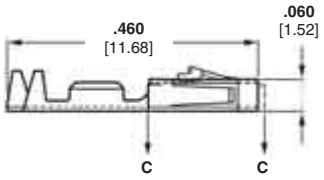
**Application Tooling** — page 270-272

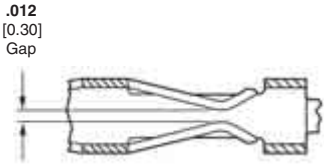
**Technical Documents** — pages 276-278

**Product Specification**
108-1472

**Application Specification**
114-25038




**Section C - C**



**Keying Plug**
**Part No. 104072-1**
Ten plugs are supplied per strip.
Order quantity reflects the number of strips required.



**Extraction/Lance Reset Tool No. 843477-1**

| Wire Size Range AWG | Wire Size Range [mm²] | Ins. Dia. Range | Finish | Contact Part No. (Standard Pressure) Strip Form | Contact Part No. (Standard Pressure) Loose Piece | Quick-Change Applicator for AMP-O-LECTRIC Machine* | Applicator for AMP-O-MATIC Stripper/Crimper Machine | Hand Tool Nos. |
|---|---|---|---|---|---|---|---|---|
| 32-28 | 0.03-0.08 | **.025-.060** [0.64-1.52] | Plating A | 1-104481-1 | 1-104481-3 | 567296-2 | 466980-1 | 91518-1 |
| | | | Plating B | 1-104481-0 | 1-104481-2 | | | |
| | | | Plating C | 5-104481-2 | 5-104481-6 | | | |
| 26-22 | 0.13-0.3 | **.025-.060** [0.64-1.52] | Plating A | 1-104480-3 | 1-104480-6 | 567297-2 | 466981-1 | 91518-1 |
| | | | Plating B | 1-104480-2 | 1-104480-5 | | | |
| | | | Plating C | 1-104480-7 | 1-104480-4 | | | |
| 24-20 | 0.2-0.5 | **.025-.060** [0.64-1.52] | Plating A | 1-104479-0 | 1-104479-3 | 567298-2 | 466982-1 | 91551-1 |
| | | | Plating B | 104479-9 | 1-104479-2 | | | |
| | | | Plating C | 104479-8 | 1-104479-1 | | | |

*For use with Model "K" machines. Call the Tooling/Technical Assistance Center (1-800-722-1111) for part nos. of applicators for use with the Model "G" machines (shown on page 288), as well as other bench machines and fully automatic AMPOMATOR lead making machines.

**Note:** All part numbers are RoHS compliant.





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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

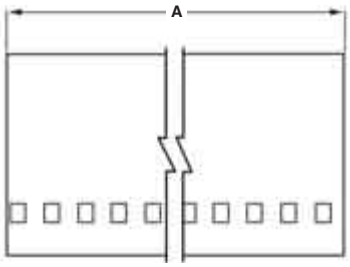
Dimensions are shown for reference purposes only. Specifications subject to change.

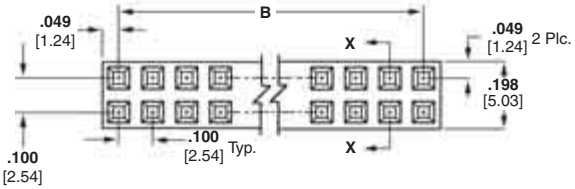
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

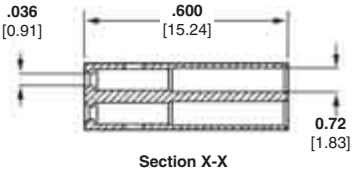
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

# Short Point Wire-Applied Housings, Double-Row, Non-Polarized, .100 x .100 [2.54 x 2.54] Centerline






## Material

Black thermoplastic, flame retardant, 94V-0 rated

## Related Product Data

**Performance Characteristics** — page 221

**Contacts** — page 222

**Mateable Headers** — pages 104, 105

**Technical Documents** — pages 276-278

**Product Specification**
108-1472

**Application Specification**
114-25038

| No. of Pos. | Dimensions | | Housing Part No. |
|---|---|---|---|
| | A | B | |
| 4 | **.198** [5.03] | **.100** [2.54] | 104482-1 |
| 6 | **.298** [7.57] | **.200** [5.08] | 104482-2 |
| 8 | **.398** [10.11] | **.300** [7.62] | 104482-3 |
| 10 | **.498** [12.65] | **.400** [10.16] | 104482-4 |
| 12 | **.598** [15.19] | **.500** [12.70] | 104482-5 |
| 14 | **.698** [17.73] | **.600** [15.24] | 104482-6 |
| 16 | **.798** [20.27] | **.700** [17.78] | 104482-7 |
| 18 | **.898** [22.81] | **.800** [20.32] | 104482-8 |
| 20 | **.998** [25.35] | **.900** [22.86] | 104482-9 |
| 22 | **1.098** [27.89] | **1.000** [25.40] | 1-104482-0 |
| 26 | **1.298** [32.97] | **1.200** [30.48] | 1-104482-1 |
| 28 | **1.398** [35.51] | **1.300** [33.02] | 1-104482-2 |
| 30 | **1.498** [38.05] | **1.400** [35.56] | 1-104482-3 |
| 32 | **1.598** [40.59] | **1.500** [38.10] | 1-104482-4 |
| 34 | **1.698** [43.13] | **1.600** [40.64] | 1-104482-5 |
| 36 | **1.798** [45.67] | **1.700** [43.18] | 1-104482-6 |
| 38 | **1.898** [48.21] | **1.800** [45.72] | 1-104482-7 |
| 40 | **1.998** [50.75] | **1.900** [48.26] | 1-104482-8 |
| 44 | **2.198** [55.83] | **2.100** [53.34] | 1-104482-9 |
| 52 | **2.598** [65.99] | **2.500** [63.50] | 2-104482-0 |

**Note:** All part numbers are RoHS compliant.





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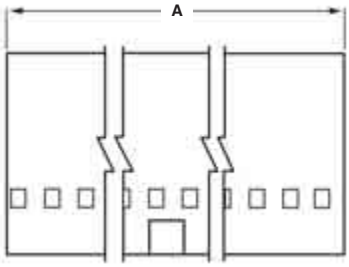
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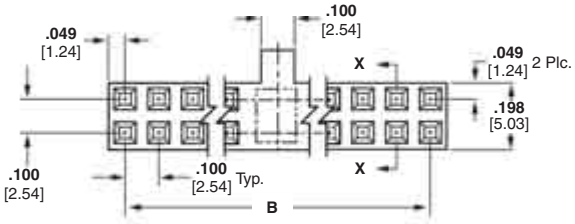
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

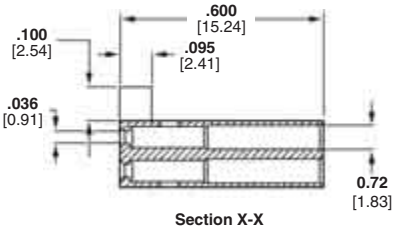
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

# Short Point Wire-Applied Housings, Double-Row, Polarized, .100 x .100 [2.54 x 2.54] Centerline






## Material

Black thermoplastic, flame retardant, 94V-0 rated

## Related Product Data

**Performance Characteristics** — page 221

**Contacts** — page 222

**Mateable Headers** — pages 104, 105, 135-138

**Technical Documents** — pages 276-278

**Product Specification**
108-1472

**Application Specification**
114-25038

| No.of Pos. | Dimensions | | Housing Part No. |
|---|---|---|---|
| | A | B | |
| 8 | **.398** [10.11] | **.300** [7.62] | 104483-1 |
| 10 | **.498** [12.65] | **.400** [10.16] | 1-104483-1 |
| 12 | **.598** [15.19] | **.500** [12.70] | 1-104483-2 |
| 14 | **.698** [17.73] | **.600** [15.24] | 104483-9 |
| 18 | **.898** [22.81] | **.800** [20.32] | 104483-2 |
| 20 | **.998** [25.35] | **.900** [22.86] | 104483-3 |
| 26 | **1.298** [32.97] | **1.200** [30.48] | 104483-4 |
| 30 | **1.498** [38.05] | **1.400** [35.56] | 104483-5 |
| 38 | **1.898** [48.21] | **1.800** [45.72] | 104483-6 |
| 50 | **2.498** [63.45] | **2.400** [60.96] | 1-104483-3 |
| 52 | **2.598** [65.99] | **2.500** [63.50] | 1-104483-0 |
| 54 | **2.698** [68.53] | **2.600** [66.04] | 104483-7 |
| 64 | **3.198** [81.23] | **3.100** [78.74] | 104483-8 |

**Note:** Other sizes can be made available on request.

**Note:** All part numbers are RoHS compliant.





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Dimensions are shown for reference purposes only. Specifications subject to change.

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Mexico: 01-800-733-8926
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