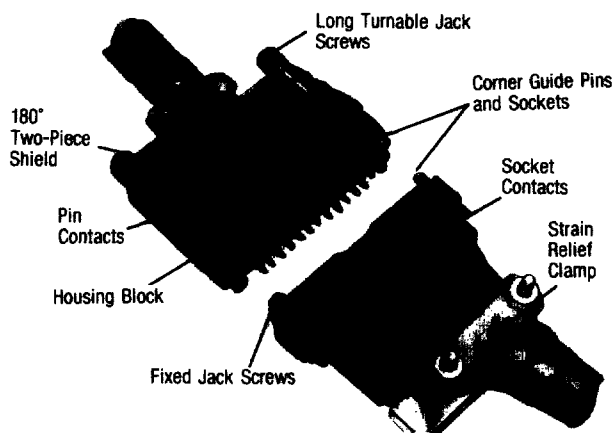


# Wire-to-Wire Connectors

## AMP "M" Series Connectors

During the past ten years millions of "M" Series products have proven their quality, reliability and economy in commercial and military applications. "M" Series connectors have been used successfully in diverse fields of application ranging from sophisticated computers to rugged truck transmissions. A variety of contacts, including screw machine, stamped and formed makes application possible in all major industries. Connector blocks for these contacts are molded in either phenolic and in configurations ranging from six to one hundred and sixty positions. Applying tooling, hardware and accessory items for all connectors makes "M" Series the most versatile and complete product line in the industry.



### Contacts

Type II, Size#16—Pin Diameter 1.5mm (Current rating: 13.0 ampere)



Pin



Socket

| Wire Range |                 | Wire Ins. Dia. | Finish           | Part No. of Loose Piece Contact |          | Part No. of Hand Tool |
|------------|-----------------|----------------|------------------|---------------------------------|----------|-----------------------|
| AWG        | mm <sup>2</sup> |                |                  | Pin                             | Socket   |                       |
| 32-30      | 0.03~0.05       | 0.76~1.22      | Sel. Gold/Nickel | 201555-1                        | 201554-1 | 90118                 |
|            |                 | 1.22~1.65      |                  | 201334-1                        | 201332-1 |                       |
| 28-24      | 0.08~0.22       | 0.89~1.40      |                  | 201611-1                        | 201613-1 | 45099                 |
|            |                 | 1.40~2.16      |                  | 201330-1                        | 201328-1 |                       |
| 24-20      | 0.20~0.56       | 1.02~1.57      |                  | 201578-1                        | 201580-1 | 45099 or 90281-1*     |
|            |                 |                |                  |                                 |          |                       |

\* Spring material is stainless steel, contact body material is copper alloy  
Insertion Tool No.: 200893-2. Extraction Tool No.: 305183-J.

Type III(+), Size #16—Pin Diameter 1.57mm (Current rating: 13.0 ampere)



Pin



Socket

| Wire Range |                 | Wire<br>Ins.<br>Dia. | Finish*          | Part Number of Contact |          |             |          | Part<br>No. of<br>Hand<br>Tool     | Part<br>No. of<br>Extraction<br>Tool |
|------------|-----------------|----------------------|------------------|------------------------|----------|-------------|----------|------------------------------------|--------------------------------------|
| AWG        | mm <sup>2</sup> |                      |                  | Strip Form             |          | Loose Piece |          |                                    |                                      |
|            |                 |                      |                  | Pin                    | Socket   | Pin         | Socket   |                                    |                                      |
| 26-24      | 0.12~0.22       | 0.89~1.40            | Sel. Gold/Nickel | 170249-2               | 170251-2 | 170250-1    | 170252-1 | 755327-1<br>or<br>90277-1          |                                      |
|            |                 |                      | Gold             | 66106-5                | 66108-5  | 66107-1     | 66109-1  |                                    |                                      |
|            |                 |                      | Tin              | 66106-6                | 66108-6  | 66107-2     | 66109-2  |                                    |                                      |
| 24-20      | 0.20~0.56       | 1.02~2.03            | Sel. Gold/Nickel | 170245-2               | 170247-2 | 170246-1    | 170248-1 | 755327-1<br>or<br>90067<br>90277-1 | 305183-J                             |
|            |                 |                      | Gold             | 66102-6                | 66104-6  | 66103-1     | 66105-1  |                                    |                                      |
|            |                 |                      | Tin              | 66102-7                | 66104-7  | 66103-2     | 66105-2  |                                    |                                      |
| 18-16      | 0.75~1.42       | 2.03~2.54            | Sel. Gold/Nickel | 170241-2               | 170243-2 | 170242-1    | 170244-1 | 90067                              |                                      |
|            |                 |                      | Gold             | 66098-6                | 66100-6  | 66099-1     | 66101-1  |                                    |                                      |
|            |                 |                      | Tin              | 66098-7                | 66100-7  | 66099-2     | 66101-2  |                                    |                                      |

\* Spring material is stainless steel.

† For simple repair and servicing, we recommend the use of Tool P/N 90277-1 for #26-10 AWG wire.  
Product specification: 108-10001

## Wire-to-Wire Connectors AMP "M" Series Connector Kits

| No. of Pos. | Part No. of Connector Kit | Part No. of Hardware Kit |                        |                           |                      |                        |                   |                     |
|-------------|---------------------------|--------------------------|------------------------|---------------------------|----------------------|------------------------|-------------------|---------------------|
|             |                           | Block<br>(1 ea.)         | Fixed Screw<br>(1 ea.) | Turnable Screw<br>(1 ea.) | Guide Pin<br>(2 ea.) | Cable Clamp<br>(1 ea.) | Shield<br>(1 ea.) | Pin Hood<br>(1 ea.) |
| 14          | 171315-1*                 | DM(Wire Side)            | 201355-1               | 170992-1(SS Male)         |                      |                        |                   |                     |
|             | 171315-3*                 |                          |                        | 170993-1(SS Female)       |                      |                        |                   |                     |
|             | 171316-1                  | M (Panel Side)           | 201298-1               | 170986-1(Male)            |                      |                        |                   |                     |
|             | 171316-2                  |                          |                        | 170987-1(Female)          |                      |                        |                   |                     |
|             | 171316-3                  |                          |                        |                           |                      |                        |                   |                     |
| 20          | 171317-1*                 | DM(Wire Side)            | 201356-1               | 170992-1(SS Male)         |                      |                        |                   | 170916-2(In./Op.)   |
|             | 171317-2*                 |                          |                        | 170993-1(SS Female)       |                      |                        |                   |                     |
|             | 171317-3*                 | M (Panel Side)           | 200346-2               | 170986-1(Male)            |                      |                        |                   | 170916-2(In./Op.)   |
|             | 171318-1                  |                          |                        | 170987-1(Female)          |                      |                        |                   |                     |
|             | 171318-2                  |                          |                        |                           |                      |                        |                   |                     |
| 26          | 171319-4*                 | DM(Wire Side)            | 201359-1               | 170992-1(SS Male)         |                      | 170926-1(S)            |                   | 171446-2(Ex./Cl.)   |
|             | 171319-5**                |                          |                        | 170993-1(SS Female)       |                      |                        |                   |                     |
|             | 171319-7**                | M (Panel Side)           | 200512-2               | 170990-1(L Male)          |                      |                        | 171060-1(S, 180°) | 171446-2(Ex./Cl.)   |
|             | 171320-1                  |                          |                        | 170991-1(L Female)        |                      |                        |                   |                     |
|             | 171320-2                  |                          |                        |                           |                      |                        |                   |                     |
| 34          | 171320-3                  | DM(Wire Side)            | 201357-1               | 170992-1(SS Male)         | 171082-1(Pin)        | 171037-1(S)            |                   | 170913-2(Ex./Cl.)   |
|             | 171320-4                  |                          |                        | 170993-1(SS Female)       |                      |                        |                   |                     |
|             | 171321-5**                | M (Panel Side)           | 200838-2               | 170990-1(L Male)          | 171083-1(Socket)     | 171037-1(S)            | 171032-1(S, 180°) | 170913-2(Ex./Cl.)   |
|             | 171321-7**                |                          |                        | 170991-1(L Female)        |                      |                        |                   |                     |
|             | 171322-1                  |                          |                        |                           |                      |                        |                   |                     |
| 41          | 171322-2                  | DM(Wire Side)            | 202135-2               | 170992-1(SS Male)         |                      |                        | 202160-1(S, 180°) | 171150-2(Ex./Op.)   |
|             | 171322-3                  |                          |                        | 170993-1(SS Female)       |                      |                        |                   |                     |
|             | 171323-5**                | M (Panel Side)           | 201302-1               | 170990-1(L Male)          |                      |                        |                   | 171150-2(Ex./Cl.)   |
|             | 171323-7**                |                          |                        | 170991-1(L Female)        |                      |                        |                   |                     |
|             | 171324-1                  |                          |                        |                           |                      |                        |                   |                     |
| 50          | 171325-4***               | DM(Wire Side)            | 201358-1               | 170992-1(SS Male)         | 171082-1(Pin)        | 171057-1(S)            |                   | 171207-2(Ex./Cl.)   |
|             | 171325-5**                |                          |                        | 170993-1(SS Female)       |                      |                        |                   |                     |
|             | 171325-7**                | M (Panel Side)           | 200277-2               | 170990-1(L Male)          | 171083-1(Socket)     | 171057-1(S)            | 171050-2(S, 180°) | 171207-2(Ex./Cl.)   |
|             | 171326-1                  |                          |                        | 170991-1(L Female)        |                      |                        |                   |                     |
|             | 171326-2                  |                          |                        |                           |                      |                        |                   |                     |
| 50          | 171326-3                  | DM(Wire Side)            | 201358-1               | 170992-1(SS Male)         | 171082-1(Pin)        | 171057-1(S)            |                   | 171207-2(Ex./Cl.)   |
|             | 171326-4                  |                          |                        | 170993-1(SS Female)       |                      |                        |                   |                     |
|             | 171326-5**                | M (Panel Side)           | 201358-1               | 170990-1(L Male)          | 171083-1(Socket)     | 171057-1(S)            | 171050-2(S, 180°) | 171207-2(Ex./Cl.)   |
|             | 171326-6**                |                          |                        | 170991-1(L Female)        |                      |                        |                   |                     |
|             | 171326-7**                |                          |                        |                           |                      |                        |                   |                     |

Contact part numbers marked ■ on wire side and panel side cannot be mated together.

Abbreviations in parentheses after part numbers stand for: SS=short short; S=short; L=Long; EXL=extra long; Open/Inside=Open end type for inside connection; Open/outside=Open end type for outside connection; Closed/outside=Closed end type for outside connection.

Kit part numbers marked \* are supplied with all components assembled and packaged.

Those marked \*\* have movable screws assembled into the block, and those marked \*\*\* have movable screws and pin hood assembled into the block.

Applicable contacts include Type II #16 (long), Type III(+) #16, Type IV and subminiature Coaxicon (Multimate).

## Wire to-Wire Connectors AMP "M" Series Connector Kits

| No.<br>of<br>Pos. | Part No. of<br>Connector<br>Kit | Part No. of Hardware Kit                       |                                    |                              |                                   |                           |                   |                        |
|-------------------|---------------------------------|------------------------------------------------|------------------------------------|------------------------------|-----------------------------------|---------------------------|-------------------|------------------------|
|                   |                                 | Block<br>(1 ea.)                               | Fixed<br>Screw<br>(1 ea.)          | Turnable<br>Screw<br>(1 ea.) | Guide<br>Pin<br>(2 ea.)           | Cable<br>Clamp<br>(1 ea.) | Shield<br>(1 ea.) | Pin<br>Hood<br>(1 ea.) |
| 75                | ■171327-4**                     | DM(Wire Side)<br>201310-1                      | —                                  | 170992-1(SS Male)            | 171084-1(Pin)                     | 171077-1(S)               | —                 | 171212-2(Ex./Cl.)      |
|                   | 171327-5**                      |                                                |                                    | 170993-1(SS Female)          | 171085-1(Socket)                  |                           |                   |                        |
|                   | 171327-7**                      |                                                |                                    | 170994-1(EXL Male)           | 170970-2(Pin)                     |                           |                   |                        |
|                   | 171328-1                        | M (Panel Side)<br>201311-1                     | 170986-1(Male)<br>170987-1(Female) | —                            | 171084-1(Pin)<br>171085-1(Socket) | 171077-1(S)               | —                 | 171212-2(Ex./Cl.)      |
|                   | ■171328-2                       |                                                |                                    |                              |                                   |                           |                   |                        |
|                   | 171328-3                        |                                                |                                    |                              |                                   |                           |                   |                        |
|                   | ■171328-4                       |                                                |                                    |                              |                                   |                           |                   |                        |
|                   | —                               | DM(Wire Side)<br>201345-1                      | —                                  | 170992-1(SS Male)            | 171084-1(Pin)                     | 171007-1(S)               | —                 | 171005-2(Ex./Cl.)      |
|                   | 171329-5**                      |                                                |                                    | 170993-1(SS Female)          | 171085-1(Socket)                  |                           |                   |                        |
|                   | ■171329-6***                    |                                                |                                    | 170994-1(EXL Male)           | 170970-2(Pin)                     |                           |                   |                        |
| 104               | 171330-1                        | M (Panel Side)<br>201037-1                     | 170986-1(Male)<br>170987-1(Female) | —                            | 171084-1(Pin)<br>171085-1(Socket) | 171007-1(S)               | —                 | 171005-2(Ex./Cl.)      |
|                   | 171330-3                        |                                                |                                    |                              |                                   |                           |                   |                        |
|                   | ■171330-4                       |                                                |                                    |                              |                                   |                           |                   |                        |
|                   | —                               | With Turnable Screw<br>(Wire Side)<br>201692-4 | —                                  | —                            | 171218-1(Pin)                     | 1                         | —                 | 170952-2(Ex./Cl.)      |
|                   | 171331-5                        |                                                |                                    |                              | 171219-1(Socket)                  |                           |                   |                        |
|                   | 171332-1                        | With Fixed Screw<br>(Panel Side)<br>201532-4   | —                                  | —                            | 171218-1(Pin)<br>171219-1(Socket) | —                         | —                 | 170952-2(Ex./Cl.)      |
|                   | 171332-3                        |                                                |                                    |                              |                                   |                           |                   |                        |
|                   | ■171332-4                       |                                                |                                    |                              |                                   |                           |                   |                        |
|                   | —                               | With Turnable Screw<br>(Wire Side)<br>202799-2 | —                                  | —                            | 170970-2(Pin)                     | —                         | —                 | 203744-4(Ex./Cl.)      |
|                   | 171334-1                        |                                                |                                    |                              | 170971-2(Socket)                  |                           |                   |                        |
| 160               | 171334-3                        | With Fixed Screw<br>(Panel Side)<br>202800-2   | —                                  | —                            | 171084-1(Pin)                     | —                         | —                 | —                      |
|                   | 171334-3                        |                                                |                                    |                              | 171085-1(Socket)                  |                           |                   |                        |

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