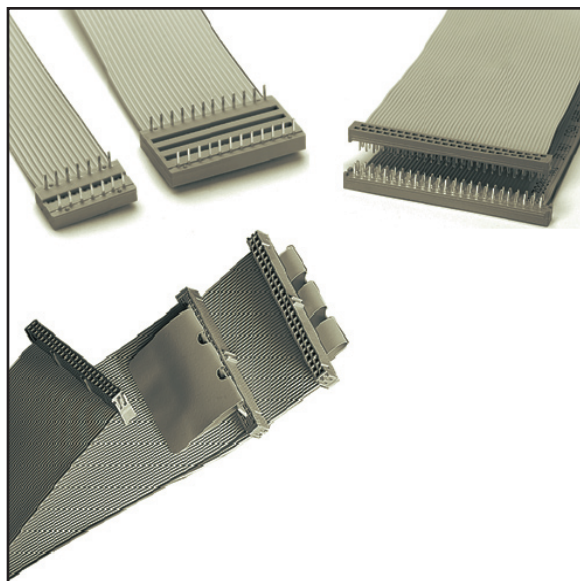


# 3M™ Molded Assembly

.100" x .100"

1M Series



- Available in multiple sizes
- Sockets mate with standard .100" x .100" headers and plugs
- Molded-in strain relief
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: February 29, 2008

TS-2149-D  
Sheet 1 of 2

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## Physical

### Connector:

Technical Specification: TS-0632 for .100" x .100" Molded-On Socket

TS-2153 for .100" x .100" Molded-On PCB

TS-2152 for .100" x .300" or .600" Molded-On DIP

### 26 AWG Cable:

Technical Specification: TS-0066 for .050" Flat Ribbon (solid) Cable, Gray PVC

TS-0063 for .050" Flat Ribbon (stranded) Cable, Gray PVC

TS-0122 for .050" Flat Ribbon (stranded) Cable, Color Coded PVC

### 28 AWG Cable:

Technical Specification: TS-0123 for .050" Flat Ribbon (stranded) Cable, Color Coded PVC

TS-0059 for .050" Flat Ribbon (stranded) High Flex Life Cable, Black PVC

TS-0080 for .050" Flat Ribbon (stranded) Cable, Gray PVC

TS-0058 for .050" Flat Ribbon (stranded) Medium Flex Life Cable, Gray PVC

TS-0419 for .050" Flat Ribbon (solid) Cable, Gray PVC

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## Electrical

**Voltage Rating:** 30 V

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## Environmental

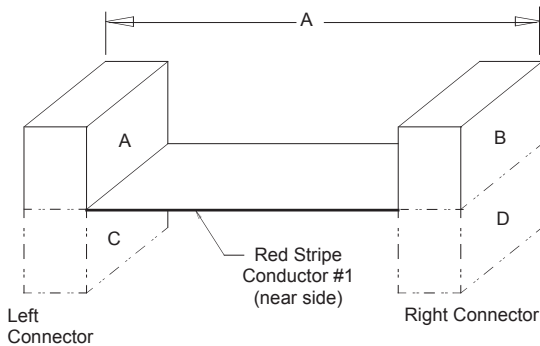
**Temperature Rating:** -20°C to +105°C

UL File No.: E86982

# 3M™ Molded Assembly

.100" x .100"

1M Series



| Length (Dim A) Tolerance |       |      |
|--------------------------|-------|------|
| Min                      | Max   | Tol  |
| 1.7                      | 10.0  | ±0.3 |
| 10.0                     | 20.0  | ±0.5 |
| 20.0                     | 40.0  | ±0.6 |
| 40.0                     | 120.0 | ±1.0 |
| 120.0                    |       | ±2.0 |



Note: A fan-out assembly, with multiple connectors on one end, requires a drawing submittal and review.

| Connector/Pos. | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 34 | 36 | 40 | 44 | 50 | 60 | 64 |
|----------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Socket         | X | X | X  | X  | X  | X  |    | X  | X  | X  |    | X  | X  | X  | X  |    | X  | X  | X  |
| PCB            | X | X | X  |    | X  | X  |    | X  | X  | X  |    | X  | X  | X  | X  | X  | X  | X  | X  |
| .1" x .3" DIP  | X | X |    |    | X  | X  | X  | X  |    |    | X  |    |    |    |    |    |    |    |    |
| .1" x .6" DIP  |   |   |    |    |    |    |    |    | X  |    | X  |    |    |    | X  |    |    |    |    |
| All Cable      | X | X | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  |
| Cable/Pos.     | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 34 | 36 | 40 | 44 | 50 | 60 | 64 |

Note: If "Keying" is required, mark the circuit(s) to key Left Connector (Odd Row)

|                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| 1                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 63 |
| 2                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 64 |
| (Even Row)                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| Right Connector (Odd Row) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 1                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 63 |
| 2                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 64 |
| (Even Row)                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |

## Ordering Information

### Connector Types

#### (Left and Right)

##### Socket, Low Profile (.41")

- 10 = with Military Polarization slots
- 16 = with Centerbump and Military Polarization slots
- 19 = with Dual Bump and Military Polarization slots

##### Socket, Regular Profile (.56")

- 30 = with Military Polarization slots
- 36 = with Centerbump and Military Polarization slots
- 39 = with Dual Bump and Military Polarization slots

##### PCB, 2-Row

- A0 = Straight Matte Sn Solder Tail
- A1 = Retention Matte Sn Solder Tail

##### DIP, .1" x .3"

- B0 = Matte Sn Plating, Straight Solder Tail
- B1 = Matte Sn Plating, Retention Solder Tail
- 50 = 15 Au Plating, Straight Solder Tail
- 51 = 15 Au Plating, Retention Solder Tail
- 60 = 30 Au Plating, Straight Solder Tail
- 61 = 30 Au Plating, Retention Solder Tail

##### DIP, .1" x .6"

- C0 = Matte Sn Plating, Straight Solder Tail
- C1 = Matte Sn Plating, Retention Solder Tail
- 80 = 15 Au Plating, Straight Solder Tail
- 81 = 15 Au Plating, Retention Solder Tail
- 90 = 30 Au Plating, Straight Solder Tail
- 91 = 30 Au Plating, Retention Solder Tail

1M XX XX - XXX - XXXX - XXX.X - XX - XX - XX - X

Number of  
Cable Conductors

### Cable Product Series

- 26 AWG
- 3306 = Solid, PVC
- 3801 = Stranded, PVC
- 3811 = Stranded, PVC, Color Coded
- 28 AWG
- 3302 = Stranded, PVC, Color Coded
- 3319 = Stranded, PVC, High Flex Life
- 3365 = Stranded, PVC
- 3539 = Stranded, PVC, Medium Flex Life
- 3709 = Solid, PVC

### Assembly Length

Tip-to-Tip inches  
(Dim A in inches)  
Example:  
001.7 = 1.7" Min

### Marking

- 0 = No Marking
- 1 = Label - Date Code
- 2 = Inkstamp - Date Code

### Left Right Centerbump Orientation Options

- 0 = None
- 1 = Inside
- 2 = Outside

### Connector Orientation Options (Left and Right)

- AB = Up-Up
- AD = Up-Down
- CB = Down-Up
- CD = Down-Down

### Left Right

#### Connector Feature Options

- 0 = No Pull Tab or Keying Required
- 1 = Pull Tab (Socket only, not available on 6 or 8 Contact Quantity)
- 2 = Keying Required, specify position(s)
- 3 = Pull Tab and Keying Required, specify position(s)

Note: (RIA E1 & C1 apply for all cables and connectors listed)

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Sheet 2 of 2