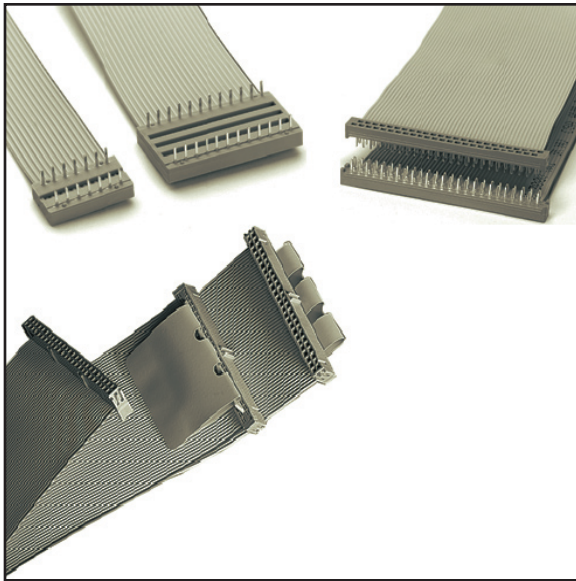


# 3M™ Molded Assembly

.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

---

## 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

---

## Electrical

**Voltage Rating:** 30 V

---

## Environmental

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

UL File No.: E86982

**3M**

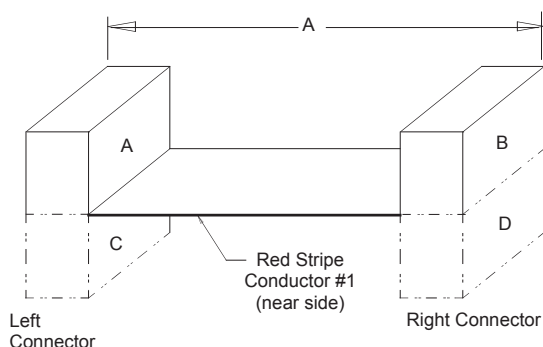
Electronic Solutions Division  
Interconnect Solutions  
<http://www.3M.com/interconnects/>

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

# 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)

TS-2149-D  
Sheet 2 of 2



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

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**