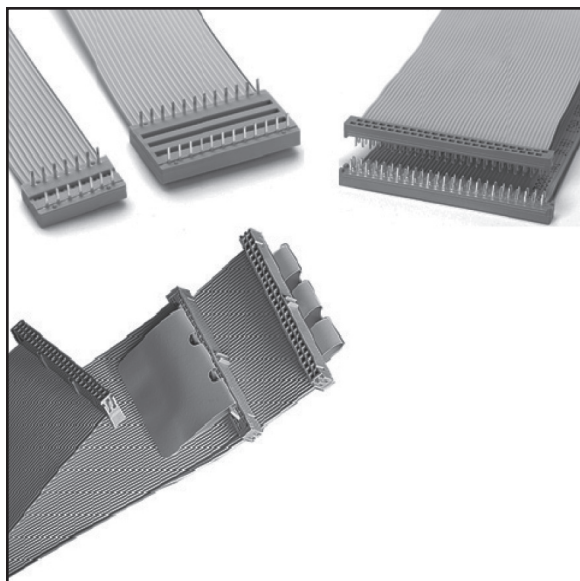


3M™ Molded Assembly

.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: June 8, 2018

TS-2149-E
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-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

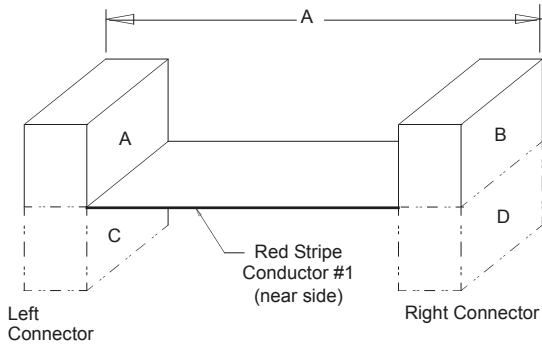
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3M™ Molded Assembly

.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 |
| <Red Cable Stripe | | | | | | | | | | | | | | | | | | | | | |
| (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
 - 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-E
Sheet 2 of 2



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