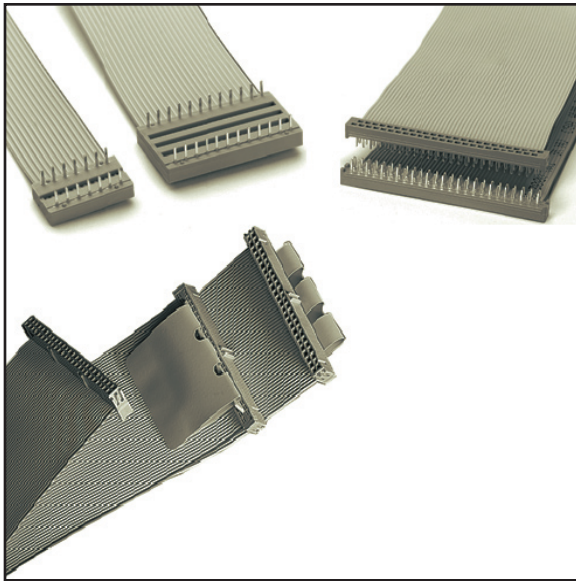


3M™ Molded Assembly

.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

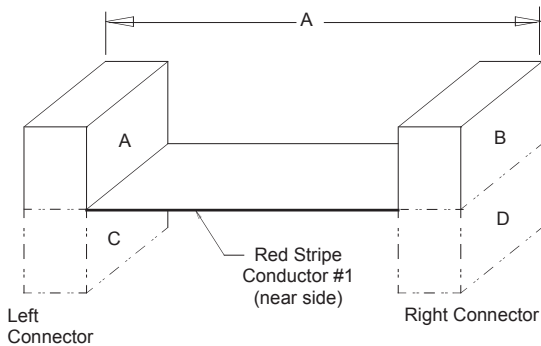
Temperature Rating: -20°C to +105°C

UL File No.: E86982

3M™ 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) | | | | | | | | | | | | | | | | | | | | | |
| <Red Cable Stripe | | | | | | | | | | | | | | | | | | | | | |
| 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



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