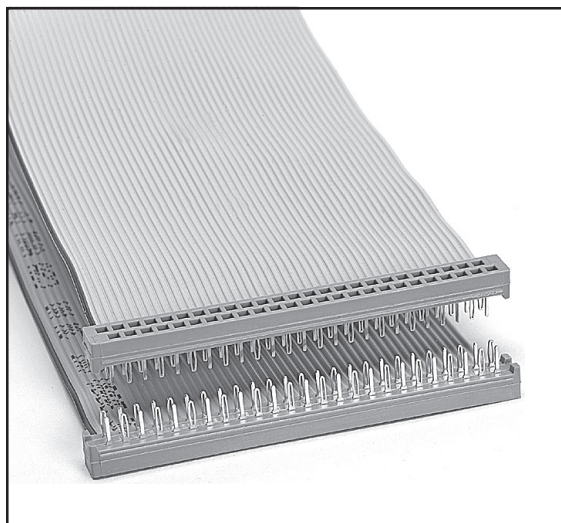


3M™ Molded PCB

.100" × .100" Cable Assembly Connector, 2 Row

878 Series



- Part of a complete cable assembly
- Mates with industry standard .100 inch × .100 inch board pattern
- One piece, molded-on construction with integral strain relief
- Standard and retention contacts available
- Low profile permits close PC board spacing
- Closed end construction
- Modular tooling allows customized designs
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3M.com/Interconnects for compliance information (RIA E1 & C1 apply)

Date Modified: September 14, 2009

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Sheet 1 of 2

Physical

Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

Contact:

Material: Copper Alloy

Plating:

Underplating & U-Slot: 50 - 150 μ " [1.27 - 3.81 μ m] Nickel

Contact Tail: 300 - 400 μ " [7.62 - 10.16 μ m] Matte Tin

Wire Accommodation: 26 and 28 AWG Solid or Stranded

Marking: 3M Logo

Note: The location and thickness of the contact plating is determined by the part number. Refer to ordering information.

Electrical

Current Rating: 1 A

Insulation Resistance: $> 1 \times 10^9 \Omega$ at 500 V_{DC}

Withstanding Voltage: 1,000 V_{RMS} at Sea Level

Note: Unbalanced is measured between ground-signal-ground conductors.

Environmental

Temperature Rating: -55°C to +105°C

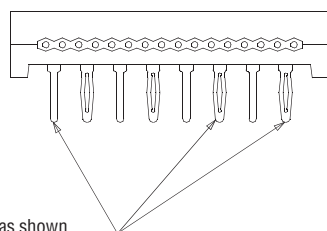
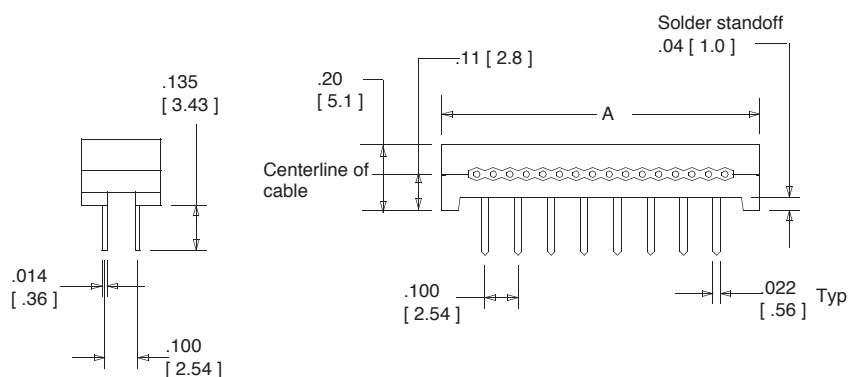
UL File No.: E86982

3M™ Molded PCB

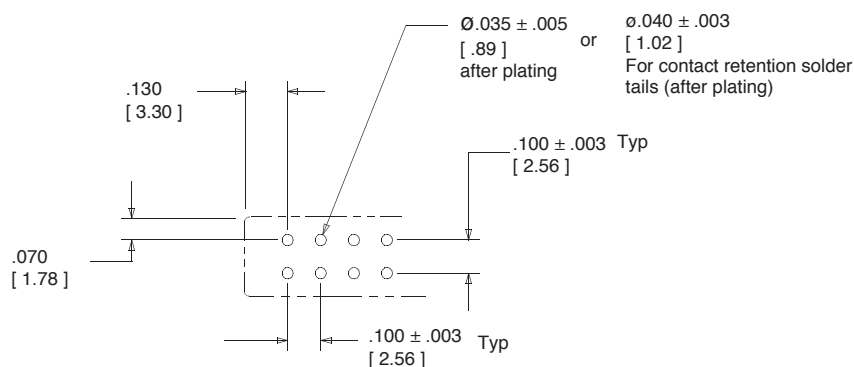
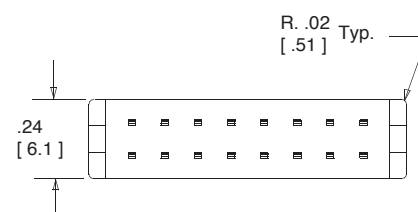
.100" × .100" Cable Assembly Connector, 2 Row

878 Series

Number of Contacts	Dimension A
06	.46 [11.7]
08	.56 [14.2]
10	.66 [16.8]
14	.86 [21.8]
16	.96 [24.4]
20	1.16 [29.5]
24	1.36 [34.5]
26	1.46 [37.1]
30	1.66 [42.1]
34	1.86 [47.2]
36	1.96 [49.8]
40	2.16 [54.9]
44	2.36 [59.9]
50	2.66 [67.6]
60	3.16 [80.3]
64	3.36 [85.3]



Retention contacts oriented as shown every other contact with the first and second row order shifted by one contact. (Orientation is not based on Delta location and may vary from connector to connector)



Recommended Mounting Hole Pattern

(Shown from mounting side of board)

Inch [mm]	Tolerance Unless Noted
.0	.00 .000
Inch	$\pm .1$ $\pm .01$ $\pm .005$

[] Dimensions for Reference Only



Ordering Information

See TS-2149 technical drawing for Ordering Information on a complete cable assembly.

TS-2153-B
Sheet 2 of 2

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