

# 3M™ Molded-On Connectors

Description	.100" x .100" Molded-on Socket, Low and High Profile	.100" x .100" Molded-on Two-Row, PCB, Standard and Retention Contacts	.100" x .300" and .100" x .600" Molded-on DIP, Standard and Retention Contacts	2 mm x 2 mm Molded-on Socket, Low Profile	2 mm x 2 mm Molded-on Two-Row, PCB, Low Profile
Cable Pitch	.050" (1.27 mm)	.050" (1.27 mm)	.050" (1.27 mm)	1 mm (0.039")	1 mm (0.039")
Physical					
Insulation Material	Glass Filled Polyester (PBT)- Flammability Rating: UL 94V0	Glass Filled Polyester (PBT)- Flammability Rating: UL 94V0	Glass Filled Polyester (PBT)- Flammability Rating: UL 94V0	Glass Filled Polyester (PBT)- Flammability Rating: UL 94V0	Glass Filled Polyester (PBT)- Flammability Rating: UL 94V0
Color	Gray	Gray	Gray	Gray	Gray
Contact Material	Copper Alloy	Copper Alloy	Copper Alloy	Copper Alloy	Copper Alloy
Plating	In Socket Wiping Area, 30 μ" [ 0.76 μm ] Gold, Underplated with 50-150 μ" [ 1.27-3.81 μm ] Nickel	300-400 μ" [ 7.62-10.16 mm ] Matte Tin, Underplated with 50-150 μ" [ 1.27-3.81 μm ] Nickel	300-400 μ" [ 7.62-10.16 μm ] Matte Tin or 15 μ" [ 0.38 μm ] or 30 μ" [ 0.76 μm ] Gold, Underplated with 50-150 μ" [ 1.27-3.81 μm ] Nickel	Wiping Area, 30 μ" Average Gold, Underplate and U-Slot: 50-150 μ" [ 1.27-3.81 μm ] Nickel	300-400 μ" [ 7.62-10.16 μm ] Matte Tin, Underplate and U-Slot: 50-150 μ" [ 1.27-3.81 μm ] Nickel
Marking	Low Profile: 3M logo and Orientation Triangle High Profile: Orientation Triangle	3M logo	3M logo and Orientation Triangle	3M logo and Orientation Triangle	3M logo
Wire Accomodation	26 & 28 AWG Solid or Stranded	26 & 28 AWG Solid or Stranded	26 & 28 AWG Solid or Stranded	28 AWG Stranded	28 AWG Stranded
Electrical					
Current Rating	1A	1A	1A	1A	1A
Insulation Resistance	>1 x 10 <sup>9</sup> Ω	>1 x 10 <sup>9</sup> Ω	>1 x 10 <sup>9</sup> Ω	>1 x 10 <sup>9</sup> Ω	>1 x 10 <sup>9</sup> Ω
Withstanding Voltage	1000V	1000V	1000V	1000V	1000V
Environmental					
Temperature Rating	-55°C to 105°C	-55°C to 105°C	-55°C to 105°C	-55°C to 105°C	-55°C to 105°C
Technical Data Sheet Number	TS-0632	TS-2153	TS-2152	TS-0525	TS-2151

UL Recognized for US and Canadian Markets File E86982

## Molded-On Sockets Mating Chart

Part Number	Technical Sheet	Boardmount Header	Technical Sheet	Pinless Header	Technical Sheet	Wiremount Plug	Technical Sheet
1M Series Sockets (10, 16, 19, 30, 36, 39)	TS-2149	2500 Series	TS-0770	6400 Series	TS-0161	4600 Series	TS-0086
		3000 Series	TS-0771 TS-0772 TS-0478				
		303 Series	TS-0818				
		N4600 Series	TS-0168				
2M AA Series	TS-2150	1512 Series	TS-0808				
2M AB Series							
2M AC Series	TS-2150	1512 Series 1552 Series	TS-0808 TS-2199				
2M AD Series							