

Mini-Fit® General Overview

Mini-Fit Jr.™

The Mini-Fit Jr. was specifically developed for positive locking, wire-to-wire and wire-to-board applications. It is available in single row and dual row versions. The system offers the widest range of circuit sizes.

Mini-Fit BMI™

For blind-mating applications, the Mini-Fit BMI was introduced. The receptacle housing is self-aligning and will move up to 0.050" in the x and y axes, when properly installed in a panel. The system is suitable for panel-to-panel, panel-to-board or board-to-board applications. It features wave-solderable headers, reflow-solderable headers and press-fit headers.

Mini-Fit TPA™

This version of the Mini-Fit family was uniquely designed to assure that the terminals are fully seated in the receptacle and plug housings and cannot back out. The system is for positive locking, wire-to-wire and wire-to-board applications.

Mini-Fit Plus HCS™

The Mini-Fit Plus HCS was designed for high current applications as it is capable of handling current loads of as much as 12.OA. The gold-plated terminals and headers are hot-pluggable; i.e., ideal for applications that require hot mating and unmating of connectors. This is the most flexible Mini-Fit system since it is offered in Mini-Fit Jr, Mini-Fit BMI and Mini-Fit TPA design formats.

Mini-Fit Plus HMC™

The Mini-Fit Plus High Mating Cycle specializes in applications that require hundreds of mating cycles. It is also blind-mating. Solutions for panel-to-panel, panel-to-board and board-to-board applications exist.

Mini-Fit RTC™

Mini-Fit RTC, reflow temperature capable headers were designed for use in lead free processing environments. They are made from high temperature LCP and mate with standard Mini-Fit Jr. receptacles.

Mini-Fit H2O

The Mini-Fit H2O is IP 67 rated for waterproof applications. The housings are made from a UV stable material making them suitable for outdoor applications. Mini-Fit H2O has integral seals that keep moisture and dust out. Seals are preinstalled by Molex to lower applied costs.

Family	Description	Current Rating (Smallest Circuit)	Current Rating (Largest Circuit)	Housing Lock	Configurations	Agency Approvals	Circuit Sizes	Wire Gauge	Flammability
Mini-Fit Plus HCS	Mini-Fit Plus HCS (High Current System) is capable of carrying up to 12A per circuit. The terminals fit in all Mini-Fit Jr, BMI, and TPA plugs and receptacles.	12A [†]	11A [†]	Positive or None	W-to-W W-to-B B-to-B	Pending	2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24	16, 18-20	94V-0
Mini-Fit Plus HMC	Mini-Fit Plus HMC (High Mating Cycle) is capable of being mated and unmated hundreds of times and still able to provide reliable electrical connections. It is available only in the BMI format.	9A [§]	6A [§]	None	W-to-W W-to-B B-to-B	Pending	4, 6, 10, 14, 18, 24	16, 18-20, 22-24	94V-0
Mini-Fit Jr.	Mini-Fit Jr connectors are suitable for positive locking high current/high density applications.	9A [†]	6A [†]	Positive	W-to-W W-to-B	UL CSA TUV	2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24	16, 18-20, 22-24	94V-2, 94V-0
Mini-Fit TPA	Mini-Fit TPA (Terminal Position Assurance) connectors assure the terminals are fully seated in their housing and cannot back out for added reliability.	9A [†]	6A [†]	Positive	W-to-W W-to-B	UL CSA TUV	2, 4, 6, 8, 10, 12, 16	16, 18-20, 22-24	94V-0
Mini-Fit BMI	Mini-Fit BMI (Blindmate Interface) connectors are designed for applications that require blind-mating of PCBs, daughtercards, or subassemblies.	9A [†]	6A [†]	None	W-to-W W-to-B B-to-B	UL CSA TUV	4, 6, 10, 14, 18, 24	16, 18-20, 22-24	94V-2, 94V-0
Mini-Fit BMI (SMC)	Mini-Fit BMI (SMC) are surface mount compatible headers suitable for high temperature reflow processes. They mate to the standard Mini-Fit BMI crimp receptacle or PCB receptacle to allow blind mating.	9A [†]	6A [†]	None	W-to-W W-to-B B-to-B	UL CSA TUV	4, 6, 10, 14, 18, 24	16, 18-20, 22-24	94V-0
Mini-Fit BMI (CPI)	Mini-Fit BMI (CPI) are press fit vertical headers suitable for high temperature reflow processes. They mate to the standard Mini-Fit BMI crimp receptacle or PCB receptacle to allow blind mating.	7A [†]	5A [†]	None	W-to-W W-to-B B-to-B	UL CSA TUV	4, 6, 10, 14, 18, 24	16, 18-20, 22-24	94V-0
Mini-Fit PCIe	Mini-Fit PCIe connectors feature a unique polarization scheme so they are suitable for PCI Express® high end graphic card applications only.	8A ^{**}	8A ^{**}	Positive	W-to-B	None	6	16, 18-24, 22-28	94V-0
Mini-Fit RTC	Mini-Fit RTC headers can withstand high temperature solder processes. Compatible with lead free solder processes.	12.OA	11.OA	Positive	W-to-B	Pending	4, 6, 8, 10, 12, 24	16, 18-20, 22-24	94V-0
Mini-Fit H2O	Mini-Fit H2O is IP 67 rated for weatherproof, waterproof applications.	9.OA	9.OA	Positive	W-to-W	Pending	2	18-20	94V-0

[†]Mini-Fit Plus Crimp Terminals: 46083 (Female) and 46134 (Male)

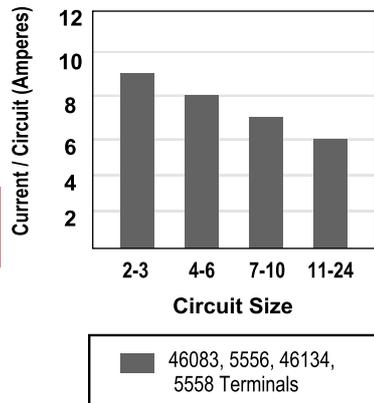
[‡]Mini-Fit Plus HCS Crimp Terminals: 45750 (Female) and 46012 (Male)

[§]Mini-Fit High Cycle Crimp Terminals: 46018 (Female) and 46098 (Male)

^{**}Mini-Fit Crimp Terminals: 5556 (Female)

*Note: PCI Express is a registered trademark of the Peripheral Component Interchange Special Interest Group (PCI-SIG).

4.20mm (.165") Pitch Mini-Fit Jr™ Connector System

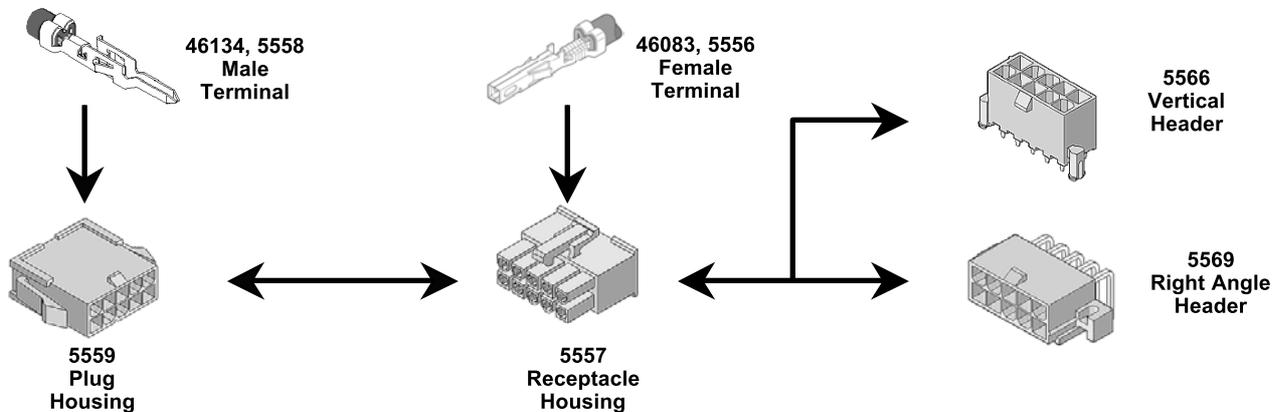
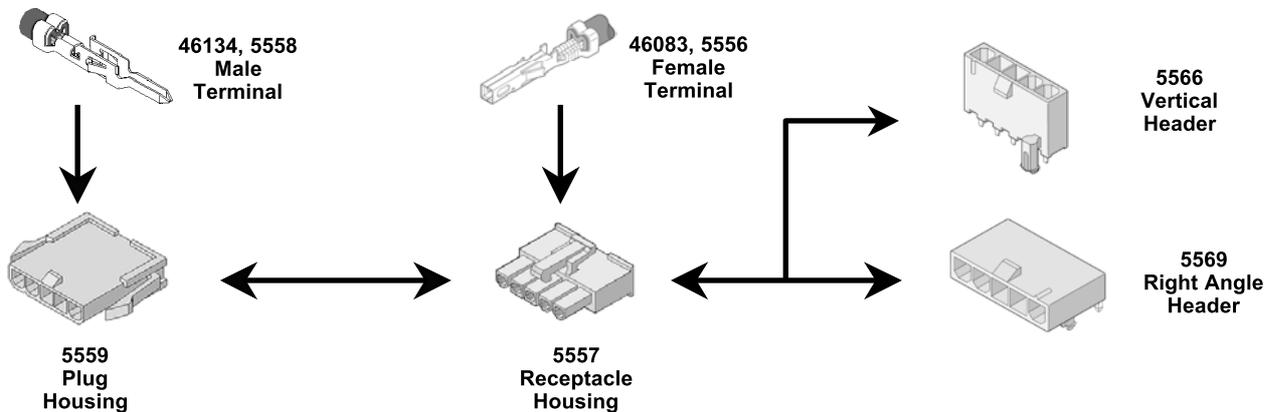


Features

- Positive Locking**
 Receptacle housing is equipped with a locking thumb latch. Each plug housing or header features a locking ramp. When mated, the latch and ramp prevent the connectors from accidental unmating.
- Configurations**
 The receptacle housings, plug housings and headers allow designs for wire-to-wire or wire-to-board applications.
- Polarized Mating Geometry**
 The receptacle housings and PCB receptacles are polarized with the plug housings and headers to minimize the chance of mismatching the connectors.
- Polarizing Pegs**
 Optional polarizing pegs orient the headers on the PCB so they are not inserted backwards and then hold the headers to the PCB during the wave soldering process.
- Lead-free**
 Mini-Fit Jr connectors are lead-free.
- MFBL**
 Molex offers make first, break last header options

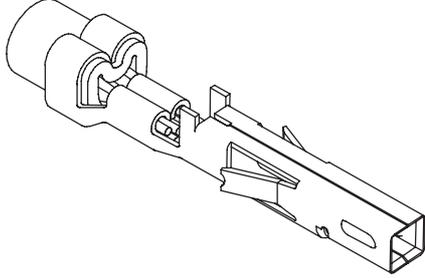
Specifications

Current Rating: 9.0A max. (16 AWG wire)
 Voltage Rating: 600V
 Contact Resistance:
 10 milliohms max. (initial)
 Wire Range:
 16 AWG
 18 to 20 AWG
 22 to 24 AWG
 Plating Options: Tin or Select Gold
 Housing Material: 6/6 nylon, UL 94V-2 or UL 94V-0
 Agency Approvals: UL, CSA, TUV



4.20mm (.165") Pitch Mini-Fit Plus™ Terminal

46083
Crimp, Female



Features and Benefits

- Post-plated contacts for superior electrical performance over time
- Reliable elongated dimple which provides full and consistent engagement between female box terminal and male pin

Reference Information

Product Specification: PS-46083-001
Application Specifications: ATS-639002600
ATS-639002800

UL File No: E29179
CSA File No: LR19980
TUV License No: R75142
Use With: 5557, 30067, 42474 and 44516 receptacles

Electrical

Current: 10.0 max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Force: 14.7N max. per contact
Unmating Force: 1.0N min. per contact
Normal Force: 0.49N min. per contact
Mating Cycles: Tin—30 cycles
Gold—100 cycles

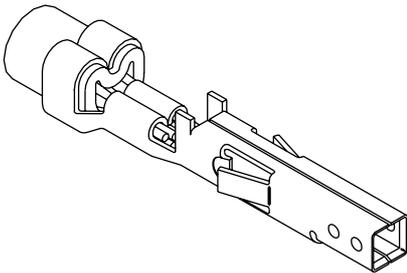
Physical

Contact Material: Brass or Phosphor Bronze
Wire Size: 16-24 AWG (See Product and Application Tooling specifications for complete crimping guidelines.)

Base Material	Plating	Wire Range AWG	Reel	Bag	Lead-free
Brass	Tin	16	46083-3111	46083-3112	Yes
		18-20	46083-1111	46083-1112	
		22-24	46083-2111	46083-2112	
	30µL Select Gold	16	46083-3211	46083-3212	
		18-20	46083-1211	46083-1212	
		22-24	46083-2211	46083-2212	
Phosphor Bronze	Tin	16	46083-3121	46083-3122	
		18-20	46083-1121	46083-1122	
		22-24	46083-2121	46083-2122	
	30µL Select Gold	16	46083-3221	46083-3222	
		18-20	46083-1221	46083-1222	
		22-24	46083-2221	46083-2222	

4.20mm (.165") Pitch Mini-Fit® Family Terminal

5556
Crimp, Female



Features and Benefits

- Four gas-tight points of contact

Reference Information

Product Specification: PS-5556-001
Application Specifications: ATS-639002600
ATS-639002800

UL File No: E29179
CSA File No: LR19980
TUV License No: R75142
Use With: 5557, 30067, 42474 and 44516 receptacles

Electrical

Current: 9.0 max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Force: 14.7N max. per contact
Unmating Force: 1.0N min. per contact
Normal Force: 0.49N min. per contact
Mating Cycles: 30 cycles

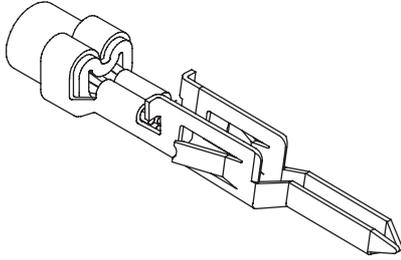
Physical

Contact Material: Brass or Phosphor Bronze
Wire Size: 16-24 AWG (See Product and Application Tooling specifications for complete crimping guidelines.)

Contact Material	Wire Size (AWG)	Plating	Order No. 5556		Lead-free
			Reel	Bag	
Brass	16	Tin	39-00-0077	39-00-0078	Yes
	18-24		39-00-0038	39-00-0039	
Phosphor Bronze	16		39-00-0079	39-00-0080	
	18-24		39-00-0059	39-00-0060	

4.20mm (.165") Pitch Mini-Fit Plus™ Terminal

46134
Crimp, Male



Features and Benefits

- Post-plated contacts for superior electrical performance over time
- Locking tangs assure high contact retention to the housing

Reference Information

Product Specification: PS-46083-001
Application Specifications: ATS-639002600
ATS-639002800

UL File No: E29179
CSA File No: LR19980
TUV License No: R75142
Use With: 5559, 42475 and 30068 plug housings

Electrical

Current: 10.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Force: 14.7N max. per contact
Unmating Force: 1.0N max. per contact
Normal Force: 0.49N min. per contact
Mating Cycles: Tin—30 cycles
Gold—100 cycles

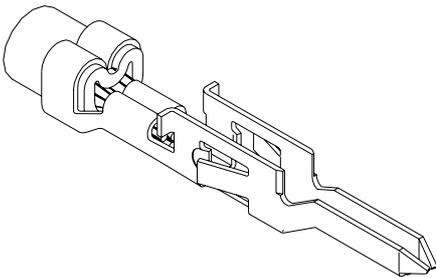
Physical

Contact Material: Brass or Phosphor Bronze
Wire Size: 16-24 AWG (See Product and Application Tooling specifications for complete crimping guidelines.)

Base Material	Plating	Wire Range AWG	Reel	Bag	Lead-free
Brass	Tin	16	46134-3111	46134-3112	Yes
		18-20	46134-1111	46134-1112	
		22-24	46134-2111	46134-2112	
	30µt Select Gold	16	46134-3211	46134-3212	
		18-20	46134-1211	46134-1212	
		22-24	46134-2211	46134-2212	
Phosphor Bronze	Tin	16	46134-3121	46134-3122	
		18-20	46134-1121	46134-1122	
		22-24	46134-2121	46134-2122	
	30µt Select Gold	16	46134-3221	46134-3222	
		18-20	46134-1221	46134-1222	
		22-24	46134-2221	46134-2222	

4.20mm (.165") Pitch Mini-Fit® Family Terminal

5558
Crimp, Male



Features and Benefits

- Crimp terminal for use in all Mini-Fit, Jr., BMI and TPA plug housings

Reference Information

Product Specification: PS-5556-001
Application Specifications: ATS-639002600
ATS-639002800

UL File No: E29179
CSA File No: LR19980
TUV License No: R75142
Use With: 5559, 42475 and 30068 plug housings

Electrical

Voltage: 600V
Current: 9.0A max.
Contact Resistance: 10 milliohms max.

Mechanical

Mating Force: 14.7N max. per contact
Unmating Force: 1.0N max. per contact
Normal Force: 0.49N min. per contact
Mating Cycles: 30 cycles

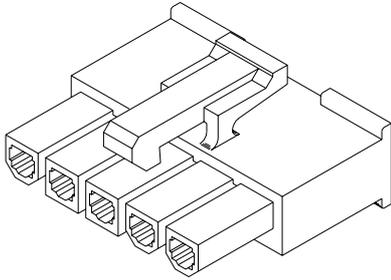
Physical

Contact Material: Brass or Phosphor Bronze (See applicable product specification.)
Wire Size: 16-24 AWG (See Product and Application Tooling specifications for complete crimping guidelines.)

Contact Material	Wire Size (AWG)	Plating	Order No.		Lead-free
			Reel	Bag	
Brass	16	Tin	39-00-0081	39-00-0082	Yes
	18-24		39-00-0040	39-00-0041	
Phosphor Bronze	16		39-00-0083	39-00-0084	
	18-24		39-00-0061	39-00-0062	

4.20mm (.165") Pitch Mini-Fit Jr.™ Crimp Terminal Receptacle

5557
Single Row



Circuits	Order No.	
	94V-2	94V-0
3*	39-01-4030	39-01-4031
4	39-01-4040	39-01-4041
5	39-01-4050	39-01-4051

*3-circuit receptacle designed for first-mate/last-break applications

Features and Benefits

- Low profile design to accommodate height constraints
- Fully isolated terminals to protect contacts from damage
- For wire-to-wire or wire-to-board applications

Reference Information

Product Specification: PS-5556-001
 UL File No: E29179
 CSA File No: LR19980
 TUV License No: R75142
 Mates With: 5559, 5566 and 5569 single row connectors
 Use With: 5556, 46083 or 45750 terminals

Electrical

See Crimp Terminal page.

Mechanical

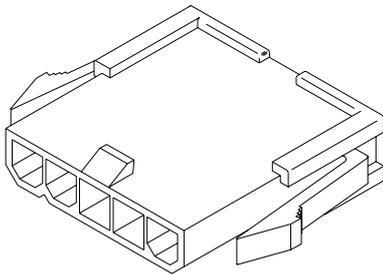
Locking: Positive

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0

4.20mm (.165") Pitch Mini-Fit Jr.™ Crimp Terminal Housing Plug

5559
Single Row, with and
Without Panel Mount Ears



Features and Benefits

- Wire-to-wire plug for panel-mounted or free-hanging applications
- Available with and without panel mounting ears
- Positive housing locks to mate with Mini-Fit Jr. receptacle
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-5556-001
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No.: R75142
 Mates With: 5557 single row receptacles
 Use With: 5558, 30490, 46134 or 46012 terminals
 Panel Thickness: .079 to 2.00mm (.031 to 0.80")

Electrical

See Crimp Terminal page.

Mechanical

Locking: Positive

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0

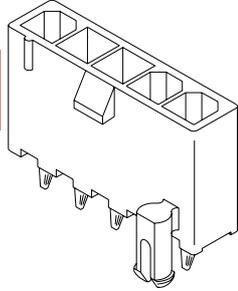
Circuits	Order No.			
	Panel Mount		Free Hanging	
	94V-2	94V-0	94V-2	94V-0
3*	39-01-4032	39-01-4033	39-01-4036	39-01-4037
4	39-01-4042	39-01-4043	39-01-4046	39-01-4047
5	39-01-4052	39-01-4053	39-01-4056	39-01-4057

*3-circuit plug designed for first-mate/last-break applications

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5566

Vertical, Single Row With Pegs



Features and Benefits

- Positive housing locks to mate with Mini-Fit Jr. single row receptacle
- Fully isolated terminals to protect contacts from damage
- Peg-mounted vertical headers for increased board retention
- Drain holes are standard to allow washing of PCB after processing (contact Molex for headers without drain holes)

Reference Information

Product Specification: PS-5556-001
UL File No: E29179
CSA File No: LR19980
TUV License No: R75142
Mates With: 5557 Single row receptacles
Use With: 5556 and 46083 terminals

Electrical

Current: 9.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Cycles: 30 cycles

Physical

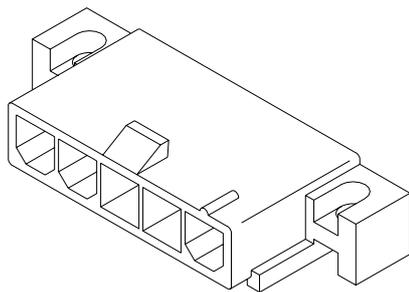
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact Material: Brass

Circuits	Order No.				Tail Length	Lead-free
	Tin Plated		Select Gold Plated (30µ")			
	94V-2	94V-0	94V-2	94V-0		
3	39-30-5039	39-30-6030	39-30-2037	39-30-2038	3.5mm (0.14")	Yes
4	39-30-5049	50-30-4466	39-30-2047	39-30-2048		
5		50-30-4467		39-30-2058		

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5569

Right Angle, Single Row With Flanges



Features and Benefits

- Flanges allow for screw-in retention to board-mounted headers
- Low profile is ideal for power applications with space constraints

Reference Information

Product Specification: PS-5556-001
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 single row receptacle
Use With: 5556, 46083 and 45750 terminals

Electrical

Current: 12.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating cycles: 30 cycles

Physical

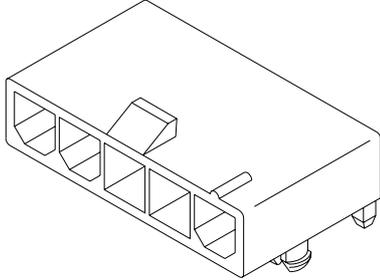
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact Material: Brass

Circuits	Order No.				Tail Length	Lead-free
	Tin Plated		Select Gold Plated			
	94V-2	94V-0	94V-2	94V-0		
3	39-30-6039	39-30-7030	39-30-4037	39-30-4038	3.6mm	Yes
4	39-30-6049		50-30-4443			

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5569

Right Angle, Single Row With Pegs



Features and Benefits

- Pegs provide increased board retention
- Ideal for low profile power applications
- Positive housing locks to mate with Mini-Fit Jr. single row receptacles
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-5556-001
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 single row receptacles
Use With: 5556, 46083 and 45750 terminals

Electrical

Current: 12.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating cycles: 30 cycles

Physical

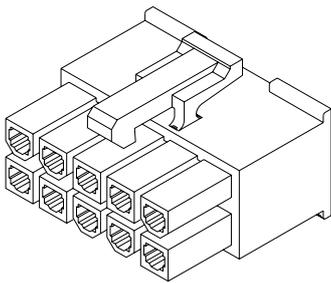
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact Material: Brass

Circuits	Order No.				Tail Length	Lead-free
	Tin Plated		Select Gold Plated			
	94V-2	94V-0	94V-2	94V-0		
3	39-30-7031	39-30-7032	39-30-4031	39-30-4032	3.6mm	Yes
4	39-30-7041	39-30-7042	50-30-4438	50-30-4441		
5	39-30-7051	39-30-7052	50-30-4439	50-30-4442		

4.20mm (.165") Pitch Mini-Fit Jr.™ Crimp Terminal Housing Receptacle

5557

Dual Row



Features and Benefits

- Positive housing lock for secure mating retention
- Fully isolated terminals to protect contacts from damage
- Thumbblatch for easy unmating

Reference Information

Product Specification: PS-5556-001
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5559, 5566, 5569, 42404, 42440, 42475, 43810, 43879 and 44068 dual row connectors
Use With: 5556, 46083 or 45750 terminals

Electrical

See Crimp Terminal page.

Mechanical

Locking: Positive

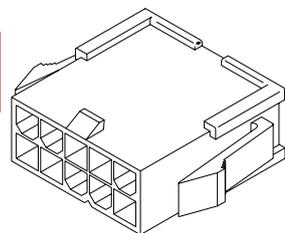
Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0

Circuits	Order No.		Circuits	Order No.	
	94V-2	94V-0		94V-2	94V-0
2	39-01-2020	39-01-2025	14	39-01-2140	39-01-2145
4	39-01-2040	39-01-2045	16	39-01-2160	39-01-2165
6	39-01-2060	39-01-2065	18	39-01-2180	39-01-2185
8	39-01-2080	39-01-2085	20	39-01-2200	39-01-2205
10	39-01-2100	39-01-2105	22	39-01-2220	39-01-2225
12	39-01-2120	39-01-2125	24	39-01-2240	39-01-2245

4.20mm (.165") Pitch Mini-Fit Jr.™ Crimp Terminal Housing Plug

5559
Dual Row
With and without Panel Mount Ears



Features and Benefits

- Wire-to-wire plug for panel-mounted or free-hanging applications
- Positive housing locks to mate with Mini-Fit Jr. receptacle
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-5556-001
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 dual row receptacle
Use With: 5558, 30490, 46134 or 46012 terminals
Panel Thickness: .079 to 2.00mm (.031 to 0.80")

Electrical

See Crimp Terminal page.

Mechanical

Locking: Positive

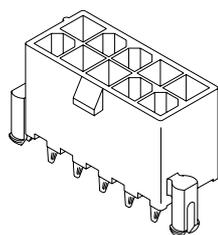
Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0

Circuits	Order No.			
	Panel Mount		Free Hanging	
	94V-2	94V-0	94V-2	94V-0
2	39-01-2021	39-01-2026	39-01-3023	39-01-3029
4	39-01-2041	39-01-2046	39-01-3043	39-01-3049
6	39-01-2061	39-01-2066	39-01-3063	39-01-3069
8	39-01-2081	39-01-2086	39-01-3083	39-01-3089
10	39-01-2101	39-01-2106	39-01-3103	39-01-3109
12	39-01-2121	39-01-2126	39-01-3123	39-01-3129
14	39-01-2141	39-01-2146	39-01-3143	39-01-3149
16	39-01-2161	39-01-2166	39-01-3163	39-01-3169
18	39-01-2181		39-01-3183	
20	39-01-2201			
22	39-01-2221			
24	39-01-2241	39-01-2246		

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5566
Vertical, Dual Row
With Pegs, with Drain Holes



Features and Benefits

- Board-mounting pegs provide polarization during placement on the PCB and increased retention during soldering process
- Positive housing locks to mate with Mini-Fit Jr. receptacle
- Fully isolated terminals to protect contacts from damage
- Drain holes are standard to allow washing of PCB after processing (contact Molex for headers without drain holes)

Reference Information

Product Specification: PS-5556-001
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 dual row receptacle
Use With: 5556 and 46083 terminals

Electrical

Current: 19.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Cycles: 30 cycles

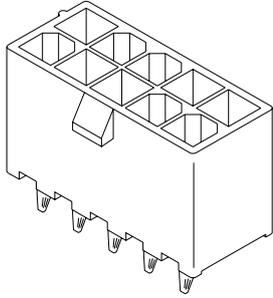
Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact Material: Brass

Circuits	Order No.				Tail Length	Lead-free
	Tin Plated		Gold Plated (30µ")			
	94V-2	94V-0	94V-2	94V-0		
2	39-30-6027	39-30-6028	39-29-9024	39-28-9028	3.5mm	Yes
4	39-30-6047	39-30-6048	39-29-9044	39-28-9048		
6	39-30-6067	39-30-6068	39-29-9064	39-28-9068		
8	39-30-6087	39-30-6088	39-29-9084	39-28-9088		
10	39-30-6107	39-30-6108	39-29-9104	39-28-9108		
12	39-30-6127	39-30-6128	39-29-9124	39-28-9128		
14	39-30-6147	39-30-6148	39-29-9144	39-28-9148		
16	39-30-6167	39-30-6168	39-29-9164	39-28-9168		
18	39-30-6187	39-30-6188	39-29-9184	39-28-9188		
20	39-30-6207	39-30-6208	39-29-9204	39-28-9208		
22	39-30-6227	39-30-6228	39-29-9224	39-28-9228		
24	39-30-6247	39-30-6248	39-29-9244	39-28-9248		

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5566 Vertical, Dual Row Without Pegs, without Drain Holes



Features and Benefits

- Positive housing locks to mate with Mini-Fit Jr. receptacle
- Fully isolated terminals to protect contacts from damage
- Drain hole option available, contact Molex

Reference Information

Product Specification: PS-5556-001
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 dual row receptacle
Use With: 5556 and 46083 terminals

Electrical

Current: 19.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Cycles: 30 cycles

Physical

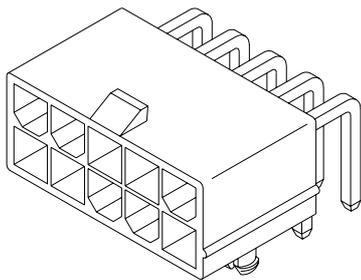
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact Material: Brass

Circuits	Order No.		Plating	Tail Length	Lead-free
	94V-2	94V-0			
2	39-28-1023	39-28-8020	Tin	3.5mm	Yes
4	39-28-1043	39-28-8040			
6	39-28-1063	39-28-8060			
8	39-28-1083	39-28-8080			
10	39-28-1103	39-28-8100			
12	39-28-1123	39-28-8120			

Circuits	Order No.		Plating	Tail Length	Lead-free
	94V-2	94V-0			
14	39-28-1143	39-28-8140	Tin	3.5mm	Yes
16	39-28-1163	39-28-8160			
18	39-28-1183	39-28-8180			
20	39-28-1203	39-28-8200			
22	39-28-1223	39-28-8220			
24	39-28-1243	39-28-8240			

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5569 Right Angle, Dual Row with Pegs



Features and Benefits

- Board mounting pegs provide polarization during placement on PCB and increased board retention during solder processing
- Low profile for space constraints
- Positive housing locks
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-5556-001
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 dual row receptacles
Use With: 5556, 46083 and 45750 terminals

Electrical

Current: 12.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Cycles: 30 cycles

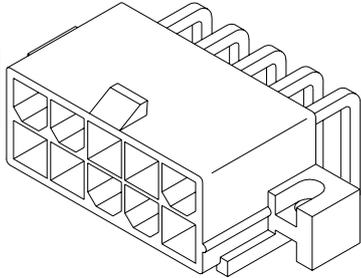
Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact Material: Brass

Circuits	Order No.				Tail Length	Lead-free
	Tin Plated		Select Gold Plated (30µm)			
	94V-2	94V-0	94V-2	94V-0		
2	39-30-7025	39-30-7026	39-30-0023	39-30-0024	3.6mm	Yes
4	39-30-7045	39-30-7046	39-30-0043	39-30-0044		
6	39-30-7065	39-30-7066	39-30-0063	39-30-0064		
8	39-30-7085	39-30-7086	39-30-0083	39-30-0084		
10	39-30-7105	39-30-7106	39-30-0103	39-30-0104		
12	39-30-7125	39-30-7126	39-30-0123	39-30-0124		
14	39-30-7145	39-30-7146	39-30-0143	39-30-0144		
16	39-30-7165	39-30-7166	39-30-0163	39-30-0164		
18	39-30-7185		39-30-0183			
20	39-30-7205	39-30-7206	39-30-0203	39-30-0204		
22	39-30-7225					
24	39-30-7245	39-30-7246	39-30-0243	39-30-0244		

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5569
Right Angle, Dual Row
With Flanges



Features and Benefits

- Flanges allow for screw-in retention to board-mounted header
- Low profile for space constraints
- Positive housing locks

Reference Information

Product Specification: PS-5556-001
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 dual row receptacles
Use With: 5556, 46083 and 45750 terminals

Electrical

Current: 12.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Cycles: 30 cycles

Physical

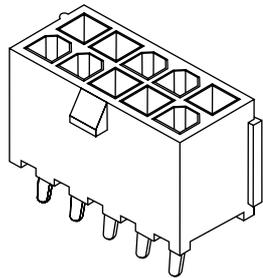
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact Material: Brass

Circuits	Order No.		Plating	Tail Length	Lead-free
	94V-2	94V-0			
2	39-29-1028	39-29-1027	Tin	3.5mm	Yes
4	39-29-1048	39-29-1047			
6	39-29-1068	39-29-1067			
8	39-29-1088	39-29-1087			
10	39-29-1108	39-29-1107			
12	39-29-1128	39-29-1127			

Circuits	Order No.		Plating	Tail Length	Lead-free
	94V-2	94V-0			
14	39-29-1148	39-29-1147	Tin	3.5mm	Yes
16	39-29-1168	39-29-1167			
18	39-29-1188	39-29-1187			
20	39-29-1208	39-29-1207			
22	39-29-1228	39-29-1227			
24	39-29-1248	39-29-1247			

4.20mm (.165") Pitch Mini-Fit Jr.™ Wire-to-Board Header

87427
Vertical without Flanges
High Temperature Material



Features and Benefits

- Molded in high temperature, surface mount compatible material
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-87427-0001
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5557 dual row receptacles
Use With: 5556, 46083 and 45750 terminals

Electrical

Current: 12.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Cycles: 30 cycles

Physical

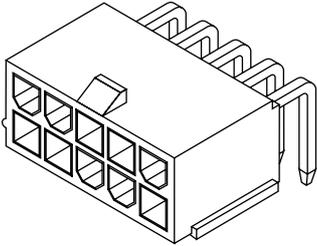
Housing: 4/6 Nylon, UL 94V-0
Contact Material: Brass

Circuits	Order No.		Tail Length	Lead-free
	Tin Over Nickel Plating	Tin Over Copper Plating		
2	87427-0242	87427-0243	3.3mm	Yes
4	87427-0442	87427-0443		
6	87427-0642	87427-0643		
8	87427-0842	87427-0843		
10	87427-1042	87427-1043		
12	87427-1242	87427-1243		

Circuits	Order No.		Tail Length	Lead-free
	Tin Over Nickel Plating	Tin Over Copper Plating		
14	87427-1442	87427-1443	3.3mm	Yes
16	87427-1642	87427-1643		
18	87427-1842	87427-1843		
20	87427-2042	87427-2043		
22	87427-2242	87427-2243		
24	87427-2442	87427-2443		

4.20mm (.165") Pitch Mini-Fit Jr.™ Wire-to-Board Header

87427
Right Angle without Flanges
High Temperature Material



Features and Benefits

- Molded in high temperature, surface mount compatible material
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-87427-0001
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5557 dual row receptacle
Use With: 5556, 46083 and 45750 terminals

Electrical

Current: 12.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Cycles: 30 cycles

Physical

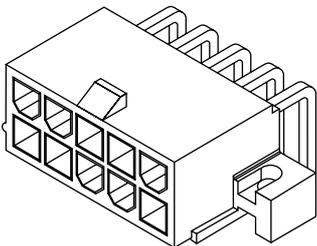
Housing: Nylon 4/6, UL 94V-0
Contact Material: Brass

Circuits	Order No.		Tail Length	Lead-free
	Tin Over Nickel Plating	Tin Over Copper Plating		
2	87427-0202	87427-0203	3.3mm	Yes
4	87427-0402	87427-0403		
6	87427-0602	87427-0603		
8	87427-0802	87427-0803		
10	87427-1002	87427-1003		
12	87427-1202	87427-1203		

Circuits	Order No.		Tail Length	Lead-free
	Tin Over Nickel Plating	Tin Over Copper Plating		
14	87427-1402	87427-1403	3.3mm	Yes
16	87427-1602	87427-1603		
18	87427-1802	87427-1803		
20	87427-2002	87427-2003		
22	87427-2202	87427-2203		
24	87427-2402	87427-2403		

4.20mm (.165") Pitch Mini-Fit Jr.™ Wire-to-Board Header

87427
Right Angle with Flange
High Temperature Material



Features and Benefits

- Molded in high temperature, surface mount compatible material
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-87427-0001
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5557 dual row receptacle
Use With: 5556, 46083 and 45750 terminals

Electrical

Current: 12.0A max. (See applicable product specification.)
Voltage: 600V
Contact Resistance: 10 milliohms max.

Mechanical

Mating Cycles: 30 cycles

Physical

Housing: 4/6 Nylon, UL 94V-0
Contact Material: Brass

Circuits	Order No.		Tail Length	Lead-free
	Tin Over Nickel Plating	Tin Over Copper Plating		
2	87427-0212	87427-0213	3.3mm	Yes
4	87427-0412	87427-0413		
6	87427-0612	87427-0613		
8	87427-0812	87427-0813		
10	87427-1012	87427-1013		
12	87427-1212	87427-1213		

Circuits	Order No.		Tail Length	Lead-free
	Tin Over Nickel Plating	Tin Over Copper Plating		
14	87427-1412	87427-1413	3.3mm	Yes
16	87427-1612	87427-1613		
18	87427-1812	87427-1813		
20	87427-2012	87427-2013		
22	87427-2212	87427-2213		
24	87427-2412	87427-2413		