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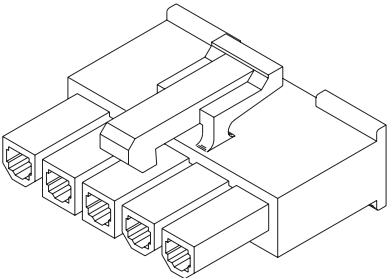
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Jameco Part Number 1968531

4.20mm (.165") Pitch Mini-Fit Jr.™ 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

Packaging: Bag
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
Designed In: Millimeters

Mechanical

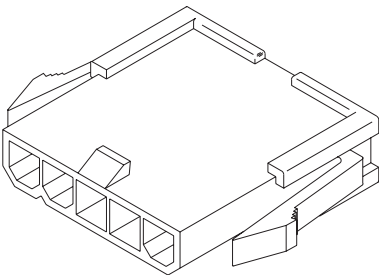
Contact Insertion Force: 1.5kg max.
Contact Retention to Housing: 3.0kg min.

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Operating Temperature: -40 to +105°C

4.20mm (.165") Pitch Mini-Fit Jr.™ 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

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 single row receptacle
Use With: 5558, 30490, 46134 or 46012 terminals
Panel Thickness: .079 to 2.00mm (.031 to 0.80")
Designed In: Millimeters

Mechanical

Contact Insertion Force: 1.5kg max.
Contact Retention to Housing: 3.0kg min.

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Operating Temperature: -40 to +105°C

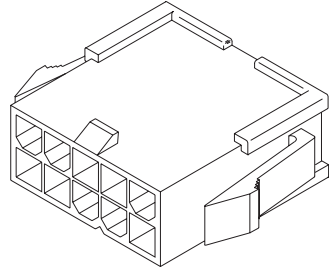
Circuits	Order No.			
	Panel Mount		Free Hanging	
	94V-2	94V-0	94V-2	94V-0
3*	39-01-4032	39-01-4033	39-01-4036	39-01-4037
4	39-01-4042	39-01-4043	39-01-4046	39-01-4047
5	39-01-4052	39-01-4053	39-01-4056	39-01-4057

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

4.20mm (.165") Pitch Mini-Fit Jr.™ 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

Packaging: Bag
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")
Designed In: Millimeters

Mechanical

Contact Insertion Force: 1.5kg max.
Contact Retention to Housing: 3.0kg min.

Physical

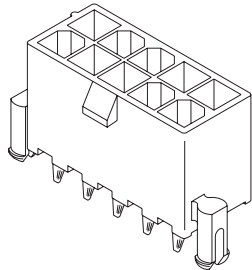
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Operating Temperature: -40 to +105°C

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

Packaging: Tray or tube
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 dual row receptacles
PCB Thickness: 1.60mm (.062")
Process: Wave solder
Designed In: Millimeters

Electrical

Voltage: 600V
Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46083	9.0A	8.0A	7.0A	6.0A

Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 1500V AC
Insulation Resistance: 1000 Megohms min.

Mechanical

Insertion Force to PCB: 5.0kg max.
Durability: 30 cycles

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact: Brass
Plating: Tin or Select Gold
Underplating: Nickel
Operating Temperature: -40 to +105°C

Circuits	Order No.				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	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		
24	39-30-6247	39-30-6248	39-29-9244	39-28-9248	



PRODUCT SPECIFICATION



LANGUAGE

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【1. 適用範囲 SCOPE】

本仕様書は、NEW MINI. FIT CONNECTOR 殿 に納入する

について規定する。

This specification covers the NEW MINI. FIT CONNECTOR series

【2. 製品名称及び型番 PRODUCT NAME AND PART NUMBER】

製品名称 Product Name		製品型番 Part Number
メス ターミナル (AWG#18~#24) Female Terminal (AWG#18~#24)	無鉛 LEAD FREE	5 5 5 6 G S 7 F
		5 5 5 6 G S L 7 F
メス ターミナル (AWG#22~#28) Female Terminal (AWG#22~#28)	無鉛 LEAD FREE	5 5 5 6 G S 2 7 F
		5 5 5 6 G S 2 L 7 F
オス ターミナル (AWG#18~#24) Male Terminal (AWG#18~#24)	無鉛 LEAD FREE	5 5 5 8 G S 7 F
		5 5 5 8 G S L 7 F
オス ターミナル (AWG#22~#28) Male Terminal (AWG#22~#28)	無鉛 LEAD FREE	5 5 5 8 G S 2 7 F
		5 5 5 8 G S 2 L 7 F
リセプタクル ハウジング (UL 94V-2) Receptacle Housing (UL 94V-2)	無鉛 LEAD FREE	5 5 5 7 - N R
リセプタクル ハウジング (UL 94V-0) Receptacle Housing (UL 94V-0)	無鉛 LEAD FREE	5 5 5 7 - N R - 2 1 0
プラグ ハウジング (UL 94V-2) Plug Housing (UL 94V-2)	無鉛 LEAD FREE	5 5 5 9 - N P
プラグ ハウジング (UL 94V-0) Plug Housing (UL 94V-0)	無鉛 LEAD FREE	5 5 5 9 - N P - 2 1 0

N : 図面参照 Refer to the drawing.

REV.	A																							
SHEET	1~8																							
REVISE ON PC ONLY						TITLE:																		
A		新規作成 RELEASED J2004-3992 '04/06/15 N.AIDA				NEW MINI. FIT CONN.																		
						-LEAD FREE- 製品仕様書																		
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REV.	DESCRIPTION					WRITTEN BY: N.AIDA	CHECKED BY: K.TOJO	APPROVED BY: M.SASAO	DATE: YR/MO/DAY 2004/06/15															
DESIGN CONTROL J						STATUS																		
DOCUMENT NUMBER PS-5557-042												FILE NAME PS5557042.doc	SHEET 1 OF 8											

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【3. 定格及び適用電線 RATINGS AND APPLICABLE WIRES】

項 目 Item	規 格 Standard				
最大許容電圧 Rated Voltage (MAX.)	250 V				
最大許容電流 及び適用電線 Rated Current (MAX.) and Applicable wires	極数	2	4,6	8,10	12-16
	AWG. #18	9.0 A	8.0 A	7.0 A	6.0 A
	AWG. #20	7.0 A	6.0 A	5.0 A	5.0 A
	AWG. #22	5.0 A	4.0 A	4.0 A	4.0 A
	AWG. #24	4.0 A	3.0 A	3.0 A	3.0 A
	AWG. #26	3.0 A	2.0 A	2.0 A	2.0 A
	AWG. #28	2.0 A	1.0 A	1.0 A	1.0 A
使用温度範囲 Ambient Temperature Range		-40°C ~ +105°C ^{*1}			

*1: 通電による温度上昇分も含む。
Including terminal temperature rise.

【4. 性能 PERFORMANCE】

4-1. 電気的性能 Electrical Performance

項 目 Item		条 件 Test Condition	規 格 Requirement
4-1-1	接触抵抗 Contact Resistance	コネクタを嵌合させ、開放電圧 20mV 以下、 短絡電流 10mA にて測定する。 (JIS C5402 5.4) Mate connectors, measure by dry circuit, 20mV MAX., 10mA. (JIS C5402 5.4)	10 milliohm MAX.
4-1-2	絶縁抵抗 Insulation Resistance	コネクタを嵌合させ、隣接するターミナル間及び ターミナル、アース間に、DC 500V を印加し測定する。 (JIS C5402 5.2/MIL-STD-202 試験法 302) Mate connectors, apply 500V DC between adjacent terminal or ground. (JIS C5402 5.2/MIL-STD-202 Method 302)	1000 Megohm MIN.
項 目 Item		条 件 Test Condition	規 格 Requirement

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4-1-3	耐電圧 Dielectric Strength	コネクタを嵌合させ、隣接するターミナル間及びターミナル、アース間に、AC 1500V（実効値）を1分間 印加する。 (JIS C5402 5.1/MIL-STD-202 試験法 301) Mate connectors, apply 1500V AC(rms) between for 1 minute between adjacent terminal or ground. (JIS C5402 5.1/MIL-STD-202 Method 301)	異常なきこと No Breakdown
4-1-4	圧着部接触抵抗 Contact Resistance on Crimped Portion	ターミナルに適合電線を圧着し、開放電圧 20mV 以下、短絡電流 10mA にて測定する。 Crimp the applicable wire on to the terminal, measure by dry circuit, 20mV MAX., 10mA.	5 milliohm MAX.

4-2. 機械的性能 Mechanical Performance

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-2-1	挿入力 及び抜去力 Insertion and Withdrawal Force	毎分 25±3mm の速さで挿入、抜去を行う。 Insert and withdraw connectors at the speed rate of 25±3mm/minute.	第6項参照 Refer to paragraph 6	
4-2-2	圧着部 引張り強度 Crimping Pull Out Force	圧着されたターミナルを治具に固定し、電線を軸方向に 毎分 25±3mm の速さで引張る。 (JIS C5402 6.8) Fix the crimped terminal and apply axial pull out force on the wire at the speed rate of 25±3mm/minute. (JIS C5402 6.8)	AWG. #18	88.2 N {9.0kgf} MIN.
			AWG. #20	58.8 N {6.0kgf} MIN.
			AWG. #22	39.2 N {4.0kgf} MIN.
			AWG. #24	29.4 N {3.0kgf} MIN.
			AWG. #26	19.6 N {2.0kgf} MIN.
			AWG. #28	9.8 N {1.0kgf} MIN.
4-2-3	ターミナル 挿入力 Terminal Insertion Force	圧着されたターミナルをハウジングに挿入する。 Insert the crimped terminal into the housing.	14.7 N {1.5kgf} MAX.	
項 目 Item		条 件 Test Condition	規 格 Requirement	

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4-2-4	ターミナル 保持力 Terminal/ Housing Retention Force	圧着されたターミナルをハウジングに装着し、電線を軸方向に 毎分 25±3mm の速さで引張る。 Apply axial pull out force at the speed rate of 25±3mm / minute on the terminal assembled in the housing.	29.4 N {3.0kgf} MIN.
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4-3. その他 Environmental Performance and Others

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-1	繰り返し挿抜 Repeated Insertion / Withdrawal	1分間 10回以下 の速さで挿入、抜去を 30回 繰り返す。 When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute.	接触抵抗 Contact Resistance	20 milliohm MAX.
4-3-2	温度上昇 Temperature Rise	コネクタを嵌合させ、最大許容電流を通電し、コネクタの温度上昇分を測定する。(UL 498) Carrying rated current load. (UL 498)	温度上昇 Temperature Rise	30°C MAX.
4-3-3	耐振動性 Vibration	DC 1mA 通電状態にて、嵌合軸を含む互いに垂直な 3方向 に 掃引割合 10~55~10Hz/分、全振幅 1.5mm の振動を 各2時間 加える。 (MIL-STD-202 試験法 201) Amplitude: 1.5 mm P-P Sweep time: 10-55-10 Hz in 1 minute Duration: 2 hours in each X.Y.Z axes (MIL STD-202 Method 201)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
			瞬 断 Discontinuity	1.0 microsecond MAX.
4-3-4	耐衝撃性 Shock	DC 1mA 通電状態にて、嵌合軸を含む互いに垂直な 6方向 に、490 m/s ² {50G} の衝撃を 各3回 加える。 (JIS C0041/MIL-STD-202 試験法 213) 490 m/s ² {50 G}, 3 strokes in each X,Y,Z axes. (JIS C0041/MIL-STD-202 Method 213)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
			瞬 断 Discontinuity	1.0 microsecond MAX.

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項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-5	耐熱性 Heat Resistance	コネクタを嵌合させ、105±2℃ の雰囲気中に 96時間 放置後取り出し、1～2時間 室温に 放置する。 (JIS C0021/MIL-STD-202 試験法 108) 105±2℃, 96 hours (JIS C0021/MIL-STD-202 Method 108)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
4-3-6	耐寒性 Cold Resistance	コネクタを嵌合させ、-40±3℃ の雰囲気中に 96時間 放置後取り出し、1～2時間 室温に 放置する。 (JIS C0020) -40±3℃, 96 hours (JIS C0020)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
4-3-7	耐湿性 Humidity	コネクタを嵌合させ、60±2℃、相対湿度 90～95% の雰囲気中に 96時間 放置後取り出 し、1～2時間 室温に放置する。 (JIS C0022/MIL-STD-202 試験法103) Temperature: 60±2℃ Relative Humidity: 90 to 95% Duration: 96 hours (JIS C0022/MIL-STD-202 Method 103)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
			耐 電 圧 Dielectric Strength	4-1-3項満足こと Must meet 4-1-3
			絶縁抵抗 Insulation Resistance	100 Megohm MIN.
4-3-8	温度サイクル Temperature Cycling	コネクタを嵌合させ、-55℃ に 30分、+105℃ に 30分、これを 1サイクル とし、5サイクル 繰り返す。但し、温度移行時間は、5分以内 と する。試験後 1～2時間 室温に放置する。 (JIS C0025) 5 cycles of : a) -55℃ 30 minutes b) +105℃ 30 minutes (JIS C0025)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.

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項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-9	塩水噴霧 Salt Spray	コネクタを嵌合させ、 $35\pm2^{\circ}\text{C}$ にて、重量比 $5\pm1\%$ の塩水を 48 ± 4 時間 噴霧し、試験後 常温で水洗いした後、室温で乾燥させる。 (JIS C0023/MIL-STD-202 試験法 101) 48 ± 4 hours exposure to a salt spray from the $5\pm1\%$ solution at $35\pm2^{\circ}\text{C}$. (JIS C0023/MIL-STD-202 Method 101)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
4-3-10	亜硫酸ガス SO_2 Gas	コネクタを嵌合させ、 $40\pm2^{\circ}\text{C}$ にて $50\pm5\text{ppm}$ の亜硫酸ガス中に 24時間 放置する。 24 hours exposure to $50\pm5\text{ppm}$. SO_2 gas at $40\pm2^{\circ}\text{C}$.	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.

() : 参考規格 Reference Standard

【5. 外観形状、寸法及び材質 PRODUCT SHAPE, DIMENSIONS AND MATERIALS】

図面参照 Refer to the drawing.

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【6. 挿入力及び抜去力 INSERTION / WITHDRAWAL FORCE】

極数 No. of CKT.	単位 Unit	挿入力（最大値） Insertion Force (MAX.)			抜去力（最小値） Withdrawal Force (MIN.)		
		初回 1st	6回目 6th	30回目 30th	初回 1st	6回目 6th	30回目 30th
2	N {kgf}	8.8 {0.9}	7.8 {0.8}	7.8 {0.8}	0.7 {0.07}	0.7 {0.07}	0.7 {0.07}
4	N {kgf}	17.6 {1.8}	15.6 {1.6}	15.6 {1.6}	1.4 {0.14}	1.4 {0.14}	1.4 {0.14}
6	N {kgf}	26.4 {2.7}	23.5 {2.4}	23.5 {2.4}	2.1 {0.21}	2.1 {0.21}	2.1 {0.21}
8	N {kgf}	35.3 {3.6}	31.3 {3.2}	31.3 {3.2}	2.8 {0.28}	2.8 {0.28}	2.8 {0.28}
10	N {kgf}	44.1 {4.5}	39.2 {4.0}	39.2 {4.0}	3.5 {0.35}	3.5 {0.35}	3.5 {0.35}
12	N {kgf}	52.9 {5.4}	47.0 {4.8}	47.0 {4.8}	4.2 {0.42}	4.2 {0.42}	4.2 {0.42}
14	N {kgf}	61.8 {6.3}	54.9 {5.6}	54.9 {5.6}	4.8 {0.49}	4.8 {0.49}	4.8 {0.49}
16	N {kgf}	70.6 {7.2}	62.7 {6.4}	62.7 {6.4}	5.5 {0.56}	5.5 {0.56}	5.5 {0.56}

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	A	SEE SHEET 1 OF 8		
	REV.	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DOCUMENT NUMBER PS-5557-042			FILE NAME PS5557042.doc
EN-37-1(019				

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PRODUCT SPECIFICATION

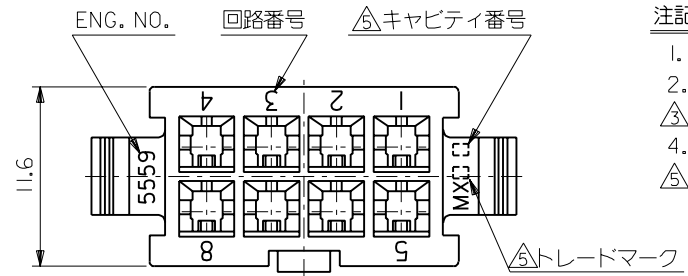


LANGUAGE

JAPANESE
ENGLISH

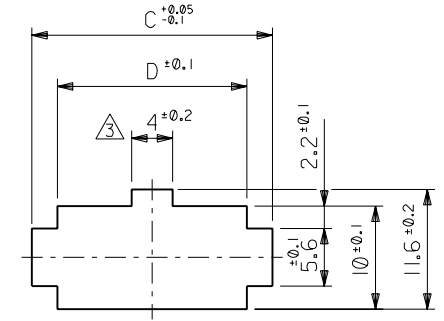
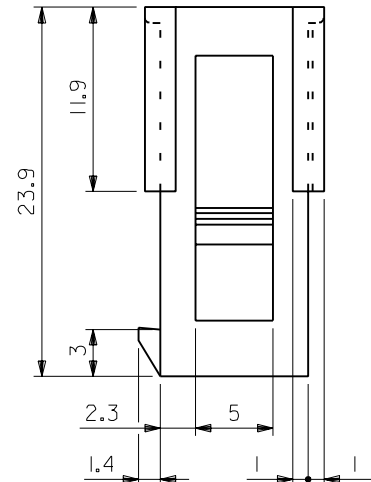
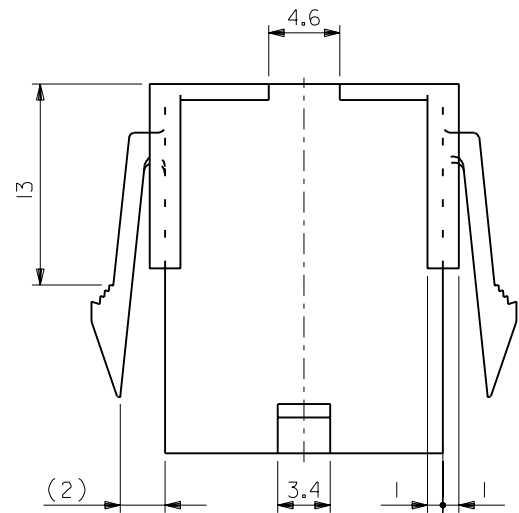
REV.	REV. RECORD	DATE	EC NO.	WRTTN:	CH'K:
A	RELEASED	'04/06/15	J2004-3992	N.AIDA	K.TOJO

	REVISE ON PC ONLY		TITLE: NEW MINI. FIT CONN. -LEAD FREE-製品仕様書		
	A	SEE SHEET 1 OF 8			
	REV.	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
DOCUMENT NUMBER PS-5557-042				FILE NAME PS5557042.doc	SHEET 8 OF 8
EN-37-1(019					

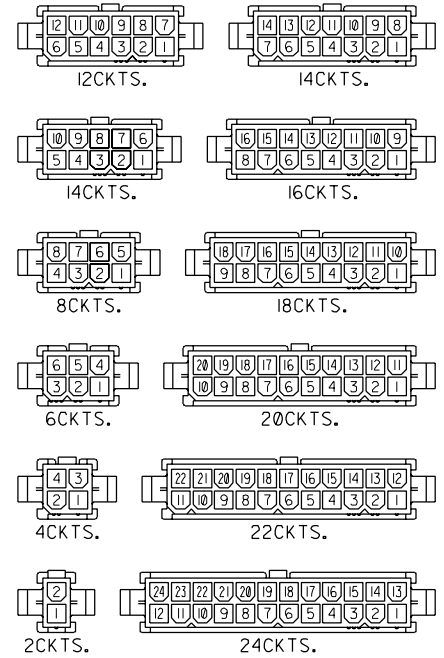
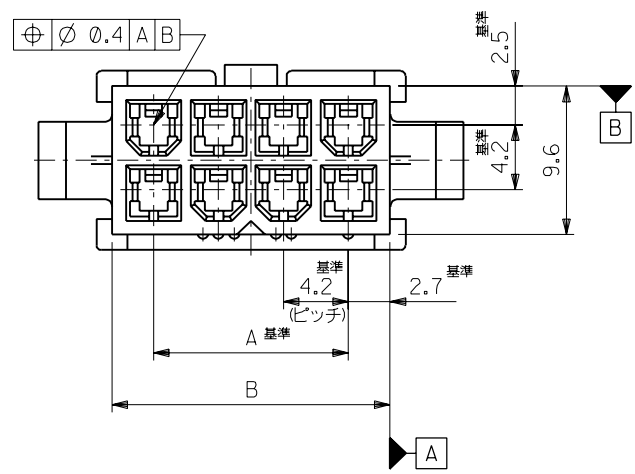


注記

1. 適用ターミナル : 5558 シリーズ
2. 嵌合相手 : 5557-NR
3. 2極に限り4mm 寸法はD寸法にて可とする。
4. パネルスロットの打抜き方向はハウジングの挿入方向と同一のこと。
5. トレードマーク : MX プラス 1 文字のアルファベットにて構成
キャビティ番号 : 1 桁 ~ 2 桁の数字にて構成



パネルスロット寸法 (パネル厚 0.8 - 2.0)



極数別レイアウト図 (SCALE : 1-1)

52.1	57.0	51.6	46.2	39-01-2241	5559-24P	24
47.9	52.8	47.4	42.0	↑ -2221	↑ -22P	22
43.7	48.6	43.2	37.8	↑ -2201	↑ -20P	20
39.5	44.4	39.0	33.6	↑ -2181	↑ -18P	18
35.3	40.2	34.8	29.4	↑ -2161	↑ -16P	16
31.1	36	30.6	25.2	↑ -2141	↑ -14P	14
26.8	31.8	26.4	21	↑ -2121	↑ -12P	12
22.6	27.6	22.2	16.8	↑ -2101	↑ -10P	10
18.4	23.4	18	12.6	↑ -2081	↑ -08P	8
14.2	19.2	13.8	8.4	↑ -2061	↑ -06P	6
10	15	9.6	4.2	↑ -2041	↑ -04P	4
5.8	10.8	5.4	—	39-01-2021	5559-02P	2
D	C	B	A	EDP NO.	ENG. NO.	極数

				材料 MATERIAL		MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
				ナイロン66, UL94V-2		REVISE ONLY ON CAD SYSTEM	
				仕上げ FINISH		TITLE 名称	
				適用電線範囲 WIRE RANGE		NEW MINI. FIT CONNECTOR	
				被覆外径 INS. RANGE		CRIMP PIN HOUSING	
				DRAWN BY '88/10/17 H.HIRAMOTO		CHK'D BY '01/08/20 K.ASAKAWA	
				APP'D BY '01/08/20 T.YAMAGUCHI		尺度 SCALE 3 - 1	
				DR. CHK. DATE		DWG. NO. SD-5559-NP	
				REVISION RECORD		REV H	
				GENERAL TOLERANCES			

