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Jameco Part Number 1302158



JAPANESE
ENGLISH

REV.	A	A	A	A	A	A	A	A	A																
SHEET	1	2	3	4	5	6	7	8	9																
REVISE ON PC ONLY										TITLE:															
A	新 規 作 成 RELEASED J2003-2361 '03/03/17 A.IDA										2mm PITCH WIRE TO BOARD CONNECTOR 製品仕様書														
	REV.										THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
	DESCRIPTION																								
DESIGN CONTROL J						STATUS				WRITTEN BY: A.IDA			CHECKED BY: J.MIYAZAWA			APPROVEDBY YO.ITO			DATE: YR/MO/DAY 2003/03/17						
DOCUMENT NUMBER PS-52484-021																				FILE NAME PS52484021.LWP				SHEET 1 OF 9	
ES-40000-3996 REV. A SHEET 3 95/MAR/10 EC U5-0926 DCBRD03.LWP																						W to B 1 EN-37(019)			



PRODUCT SPECIFICATION



LANGUAGE

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【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 以下にて測定する。 (JIS C5402 5.4) Mate connectors, measure by dry circuit, 20mV MAX., 10mA MAX. (JIS C5402 5.4)	20 milliohms maximum
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 DC500V を印加し測定する。 (JIS C5402 5.2 / MIL-STD-202 試験法 302) Mate connectors, measure by applying 500V DC between adjacent terminal and ground. (JIS C5402 5.2 / MIL-STD-202 Method 302)	1000 Megaohms minimum
4-1-3	耐電圧 Voltage Proof	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、AC500V (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 500V AC (r.m.s.) for 1 minute between adjacent terminal and ground. (JIS C5402 5.1 / MIL-STD-202 Method 301)	異状なきこと No Breakdown
4-1-4	圧接部接触抵抗 Contact Resistance on I.D.T. Portion	適合電線を圧接接続し、開放電圧 20mV 以下、短絡電流 10mA にて測定する。 Terminate the applicable wire on to the terminal, measure by dry circuit, 20mV MAX., 10mA.	10 milliohms maximum

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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±3 mm の速さで、挿入、抜去を行う。 Insert and withdraw connectors at the speed rate of 25±3 mm per minute.		第 6 項参照 See para 6.	
4-2-2	圧接部引張り強度 I.D.T Pull Out Force	適合電線を圧接接続し、毎分 25±3 mm の速さで、電線を引張る。 Apply axial pull out force on the wire at the speed rate of 25±3 mm pre minute.	軸方向 Axial Direction	AWG#26	19.6 N {2.0 kgf} minimum
				AWG#28	14.7 N {1.5 kgf} minimum
			垂直方向 Vertical Direction	AWG#26	14.7 N {1.5 kgf} minimum
				AWG#28	11.8 N {1.2 kgf} minimum
4-2-3	ピン保持力 Pin Retention Force	毎分 25±3 mm の速さでピンを軸方向に押す。 Apply axial push force at the speed rate of 25±3 mm per minute.		9.8 N {1.0 kgf} minimum	

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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	繰返し挿抜 Repeated Mate/Un-mate	1 分間に 10 回以下の速さで挿入、抜去を 30 回繰返す。 When mate and un-mated up to 30 cycles repeatedly at a rate of 10 cycles per minute.	接触抵抗 Contact Resistance	40 milliohms maximum
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) Mate connector and measure the temperature rise of contact when the maximum AC rated current is passed. (UL 498)	温度上昇 Temperature Rise	30°C maximum
4-3-3	耐振動性 Vibration Exposure	DC 1mA 通電状態にて、嵌合軸を含む互いに垂直な 3 方向に掃引割合毎分10~55~10 Hz/分、全振幅 1.5mm の振動を各 2 時間加える。 (MIL-STD-202試験法 201) Mate connectors and subject to the following vibration conditions, for a period of 2 hours in each of 3 mutually perpendicular axes, passing DC 1 mA during the test. Amplitude : 1.5 mm P-P Frequency : 10-55-10 Hz in 1 minute. Duration : 2 hours in each of 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	40 milliohms maximum
			瞬断 Discontinuity	1 microsec. maximum
4-3-4	耐衝撃性 Mechanical 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) Mate connectors and subject to the following shock conditions. 3 times of shocks shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 1 mA current during the test. (Total of 18 shocks) Test pulse : Half Sine Peak value : 490 m/s ² (50 G) Duration : 11 ms (JIS C0041/MIL-STD-202 Method 213)	外観 Appearance	異常なきこと No Dmage
			接触抵抗 Contact Resistance	40 milliohms maximum
			瞬断 Discontinuity	1 microsec. maximum

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ENGLISHEnvironmental Performance and Others (Continued)

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、 $105\pm 2^{\circ}\text{C}$ 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) Mate connectors and expose to $105\pm 2^{\circ}\text{C}$ for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. (JIS C0021/MIL-STD-202 Method 108)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	40 milliohms maximum
4-3-6	耐 寒 性 Cold Resistance	コネクタを嵌合させ、 $-40\pm 3^{\circ}\text{C}$ 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) Mate connectors and expose to $-40\pm 3^{\circ}\text{C}$ for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. (JIS C0020)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	40 milliohms maximum
4-3-7	耐 湿 性 Humidity Exposure	コネクタを嵌合させ、 $60\pm 2^{\circ}\text{C}$ 、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) Mate connectors and expose to $60\pm 2^{\circ}\text{C}$, relative humidity 90 to 95% for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours,after which the specified measurements shall be performed. (JIS C0022/MIL-STD-202 Method 103)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	40 milliohms maximum
			耐電圧 Voltage Proof	4-1-3項満足のこと Must meet 4-1-3
			絶縁抵抗 Insulation Resistance	100 Megaohms minimum

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Environmental Performance and Others (Continued)

項 目 Item		条 件 Test Condition	規 格 Requirement	
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) Mate connectors and subject to the following conditions for 5 cycles. Upon completion of the exposure period, the specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 1 cycle a) -55℃ . . . 30 minutes b) +105℃ . . . 30 minutes Transit time shall be within 5 minutes. (JIS C0025)	外観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	40 milliohms maximum
4-3-9	塩水噴霧 Salt Spray Exposure	コネクタを嵌合させ、35±2℃にて5±1%重量比の塩水を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) Mate connectors and expose to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water, after which the specified measurements shall be performed. NaCl solution Concentration : 5±1% Spray time : 48±4 hours Ambient temperature : 35±2℃ (JIS C0023/MIL-STD-202 Method 101)	外観 Apperance	著しい腐食なきこと There shall be no remarkable corrosion
			接触抵抗 Contact Resistance	40 milliohms maximum

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Environmental Performance and Others (Continued)

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-10	亜硫酸ガス SO ₂ Gas	コネクタを嵌合させ、40±2℃にて 50±5 ppm の亜硫酸ガス中に、24時間放 置する。 Mate connectors and expose to 50±5 ppm SO ₂ Gas, ambient temperature 40±2 °C for 24 hours.	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	40 milliohms maximum
4-3-11	半 田 付 け 性 Solderability	ターミナルまたはピンをフラックスに浸 し、本体取り付け基準面より1.2 mm 迄、 245±3 ℃の半田に2~3秒 浸す。 使用半田：Sn-3Ag-0.5Cu Soldering Time: 2~3 second Solder Temperature: 245±3 ℃ Solder: Sn-3Ag-0.5Cu	濡 れ 性 Solder Wetting	浸漬面積の 90% 以上 90% of immersed area must show no voids, pin holes
4-3-12	半 田 耐 熱 性 Resistance to Soldering Heat	<u>フロー半田 Flow soldering method</u> ターミナルまたはピンを本体取り付け基 準面より1.2 mm 迄、260±5℃の半田に 5±0.5秒 浸す。 Terminal into melted solder as follows. Soldering Time: 5±0.5 second Solder Temperature: 260±5 ℃	外 観 Appearance	端子ガタ、 割れ等 異常なきこと No Damage
		<u>手半田 Soldering iron method</u> 半田付け部を370~400℃の半田ゴテにて 5秒MAX.異常加圧のないように加熱する Bit Time: 5 second MAX. Bit Temperature: 370~400 ℃ Without too much pressure to the terminal.		

() : 参考規格 Reference Standard

{ } : 参考単位 Reference Unit

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

図面参照 Refer to the drawing.

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

極数 No. of Circuit	単位 Unit	挿入力 (最大値) Insertion Force (maximum)			抜去力 (最小値) Withdrawal (minimum)		
		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}	35.2 {3.6}	33.3 {3.4}	33.3 {3.4}	4.5 {0.45}	4.0 {0.40}	3.5 {0.35}
3	N {kgf}	43.1 {4.4}	40.1 {4.1}	40.1 {4.1}	5.4 {0.55}	4.9 {0.50}	4.5 {0.45}
4	N {kgf}	50.9 {5.2}	47.0 {4.8}	47.0 {4.8}	6.9 {0.70}	5.9 {0.60}	4.9 {0.50}
5	N {kgf}	58.8 {6.0}	53.9 {5.5}	53.9 {5.5}	7.9 {0.80}	6.4 {0.65}	5.4 {0.55}
6	N {kgf}	64.6 {6.6}	58.8 {6.0}	58.8 {6.0}	8.9 {0.90}	6.9 {0.70}	5.9 {0.60}
7	N {kgf}	70.5 {7.2}	63.7 {6.5}	63.7 {6.5}	9.8 {1.00}	7.4 {0.75}	6.4 {0.65}
8	N {kgf}	76.4 {7.8}	68.6 {7.0}	68.6 {7.0}	10.8 {1.10}	7.9 {0.80}	6.9 {0.70}
9	N {kgf}	82.3 {8.4}	73.5 {7.5}	73.5 {7.5}	11.8 {1.20}	8.4 {0.85}	7.4 {0.75}
10	N {kgf}	88.2 {9.0}	78.4 {8.0}	78.4 {8.0}	12.8 {1.30}	8.9 {0.90}	7.9 {0.80}
11	N {kgf}	94.0 {9.6}	83.3 {8.5}	83.3 {8.5}	13.8 {1.40}	9.4 {0.95}	8.4 {0.85}
12	N {kgf}	99.9 {10.2}	88.2 {9.0}	88.2 {9.0}	14.7 {1.50}	9.8 {1.00}	8.9 {0.90}
13	N {kgf}	105.8 {10.8}	93.1 {9.5}	93.1 {9.5}	15.7 {1.60}	10.3 {1.05}	9.4 {0.95}
14	N {kgf}	111.7 {11.4}	98.0 {10.0}	98.0 {10.0}	16.7 {1.70}	10.8 {1.10}	9.8 {1.00}
15	N {kgf}	117.6 {12.0}	102.9 {10.5}	102.9 {10.5}	17.7 {1.80}	11.3 {1.15}	10.3 {1.05}

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CONNECTOR**製品仕様書**THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO
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DWG. NO. SD-53324-003

F

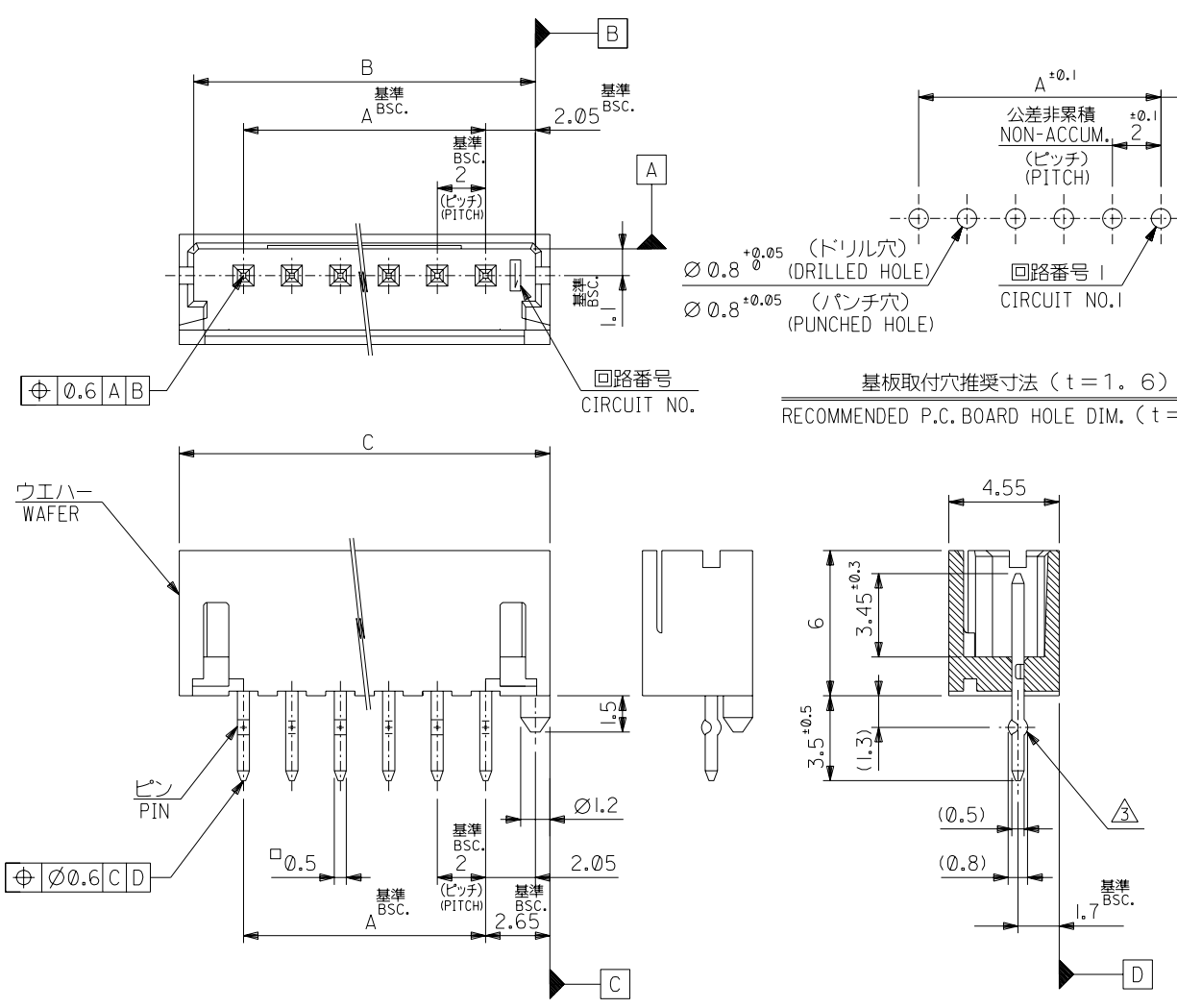
D

V

C

B

DO NOT SCALE DRAWING



注記 NOTES

1. 嵌合相手 : 51090-***00, 52484-***1*
MATES WITH
2. 材質
MATERIAL
ウエハー : ガラス入り 66ナイロン
UL 94V-0 色 : 表参照
WAFER : GLASS FILL 66 NYLON
UL94V-0, COLOR : SEE CHART
ピン : 黄銅、スズメッキ
PIN : BRASS, PRE-TINNED

△ キンクは全ピンに交互に付加。2極はキンク無し。
SET KINK ALTERNATELY TO ALL CIRCUITS.
CIRCUIT 2 HAS NO KINK.

△ 製品番号
MATERIAL NO.
53324-***6*

極数CIRCUIT SIZE 色COLOR

ナチュラル (白) NATURAL (WHITE)	0
赤 RED	2
黄 YELLOW	3
青 BLUE	4

無鉛
LEAD FREE

15	33.3	32.1	28	53324-156*
14	31.3	30.1	26	-146*
13	29.3	28.1	24	-136*
12	27.3	26.1	22	-126*
11	25.3	24.1	20	-116*
10	23.3	22.1	18	-106*
9	21.3	20.1	16	-096*
8	19.3	18.1	14	-086*
7	17.3	16.1	12	-076*
6	15.3	14.1	10	-066*
5	13.3	12.1	8	-056*
4	11.3	10.1	6	-046*
3	9.3	8.1	4	-036*
2	7.3	6.1	2	53324-026*
極数 CKT.	C	B	A	△ MATERIAL NO. MODEL NO.

EC NO. DRWN: CHK'K: APPR:			EC NO. DRWN: CHK'K: APPR:			EC NO. DRWN: CHK'K: APPR:			EC NO. DRWN: CHK'K: APPR:			RELEASED ECNNO. J2003-2361 DRWN: A.IDA CHK'K: JMIYAZAWA APPR: YO.ITO			DESCRIPTION MATERIAL 材料 注記参照 SEE NOTES	GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差			SCALE 5-1		DESIGN UNITS mm INCH ☒ mm ☐ INCH		THIRD ANGLE PROJECTION ☐ mm INCH ☐ INCH mm ONLY		REVISE ON CAD ONLY			
												FINISH 仕上げ	10 UNDER 未満 ±0.2			DRAWN BY & DATE A.IDA '03/03/13		TITLE: 2.0 WIRE TO BOARD CONN. WAFER ASS'Y (ST.)										
													10 OVER 30 UNDER 以上 未満 ±0.25			CHECKED BY & DATE J. Miyazawa '03/03/13												
													30 OVER 以上 ±0.3			APPROVED BY & DATE Y.Oto '03/03/13												
									WIRE RANGE 適用電線範囲			ANGLE 角度 ±3°		CAD FILENAME SD-53324-003.S01		MATERIAL NO. SEE CHART		DRAWING NO. SD-53324-003		SHEET NO. 1 OF 1								
0															REV	INS. RANGE 被覆外径		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.										SIZE B