



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

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

項目 Item	規格 Standard	
最大許容電圧 Rated Voltage(MAX.)	125 V	
最大許容電流 及び適用電線 Rated Current(MAX.) and Applicable Wires	AWG #22	2.5 A
	AWG #24	2.0 A
	AWG #26	1.5 A
	AWG #28	1.0 A
	AWG #30	0.5 A
使用温度範囲 Ambient temperature Range	- 4 0 ° C ~ + 1 0 5 ° C (通電による温度上昇分も含む。) (Including terminal temperature rise.)	

[AC (実効値 rms) /DC]
被覆外径 : φ 1.4mm maximum
Insulation O.D.

REVISE ON PC ONLY

A

JC2000-0480
RELEASED
N.ITO
'01/01/30

REV.

DESCRIPTION

TITLE:

2.0 WIRE TO WIRE CHECKER CONNECTOR

製品仕様書

THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO
MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DOCUMENT NUMBER

PS-51225-003

FILE NAME

PS000040.LWP

SHEET

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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にて測定する。 (JIS C5402 5.4) Mate connectors, measure by dry circuit, 20mV MAX., 10mA. (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, apply 500V DC between adjacent terminal and ground. (JIS C5402 5.2 / MIL-STD-202 Method 302)	1000 Megohms minimum
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(rms) 500V (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 (rms) for 1 minute between adjacent terminal and 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 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 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±3 mm の速さで引張る。 (JIS C5402 6.8) Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of 25±3 mm per minute. (JIS C5402 6.8)	AWG #22	39.2 N {4.0 kgf } minimum
			AWG #24	29.4 N { 3.0 kgf } minimum
			AWG #26	19.6 N {2.0 kgf } minimum
			AWG #28	9.8 N {1.0 kgf } minimum
			AWG #30	4.9 N {0.5 kgf } minimum
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.		9.8 N {1.0 kgf } maximum
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±3 mm の速さで引張る。 Apply axial pull out force at the speed rate of 25 ± 3 mm per minute on the terminal assembled in the housing.		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 Insertion / Withdrawal	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	耐熱性 Heat Resistance	コネクタを嵌合させ、105±2°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±2°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
4-3-4	耐寒性 Cold Resistance	コネクタを嵌合させ、-40±3°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±3°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

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項目 Item		条件 Test Condition	規格 Requirement	
4-3-5	耐湿性 Humidity Exposure	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) Mate connectors and expose to 60±2℃, 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 Dielectric Strength	4-1-3項満足のこと Must meet 4-1-3
			絶縁抵抗 Insulation Resistance	100 Megaohms minimum
4-3-6	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3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 3 minutes. (JIS C0025)	外観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	40 milliohms maximum

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項目 Item		条件 Test Condition	規格 Requirement	
4-3-7	塩水噴霧 Salt Spray Exposure	コネクタを嵌合させ、 $35\pm 2^{\circ}\text{C}$ にて $5\pm 1\%$ 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 : $5\pm 1\%$ Spray time : 48 ± 4 hours Ambient temperature : $35\pm 2^{\circ}\text{C}$	外観 Apperance	異常なきこと No Damage
			接触抵抗 Contact Resistance	40 milliohms maximum
4-3-8	亜硫酸ガス SO ₂ Gas	コネクタを嵌合させ、 $40\pm 2^{\circ}\text{C}$ 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 $40\pm$ 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

() : 参考規格 Reference Standard

{ } : 参考単位 Reference Unit

【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 (MAX.)			抜去力 (最小値) Withdrawal (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}	35.2 {3.6}	33.3 {3.4}	33.3 {3.4}	1.0 {0.10}	1.0 {0.10}	1.0 {0.10}
3	N {kgf}	43.1 {4.4}	40.1 {4.1}	40.1 {4.1}	1.5 {0.15}	1.5 {0.15}	1.5 {0.15}
4	N {kgf}	50.9 {5.2}	47.0 {4.8}	47.0 {4.8}	2.0 {0.2}	2.0 {0.2}	2.0 {0.2}
5	N {kgf}	58.8 {6.0}	53.9 {5.5}	53.9 {5.5}	2.5 {0.25}	2.5 {0.25}	2.5 {0.25}
8	N {kgf}	76.4 {7.8}	68.6 {7.0}	68.6 {7.0}	4.0 {0.40}	4.0 {0.40}	4.0 {0.40}

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