



Type Document	Product Specification	Revised /Edition	G
Date Issued	2010/01/29	Data Revised	2016/08/17
Subject : JS-6350HX JS-6350H-TL/TM/TH JS-6350H-TL1/TM1/TH1 JS-6350WX JS-6350W-TL/TM/TH Pitch : 6.35mm Wire to Wire Power Connector Series.			Issued By: Engineering Dept.

*This specification is referred to 6.35mm series wire to wire Power connector.*

本規格書內容係提供 6.35 mm 系列產品相關參考，  
其用途為電線端相接於電線端動力電源連接器

## -INDEX-

- 1.0 Product Name/Part Number & Drawing Number.(產品名稱 / 產品型號及圖面型號)
- 2.0 Construction/Dimensions/Material & Surface Finish.(材質以及表面鍍層)
- 3.0 Characteristic.(產品特性)
- 4.0 Specimen.(樣本圖示)
- 5.0 Applicable Standards.(適用規範)
- 6.0 Mechanical Performance.(機械性能)
- 7.0 Electrical Performance.(電氣性能)
- 8.0 Environmental Performance.(環境性能)
- 9.0 Insertion Force (I.F.) & Withdrawal Force (W.F.) for user reference(嵌入力與拔出力參考規格)
- 10.0 Remark (備註).

REV. (版次)	Revision Record (改版變更原因)	Date(日期)	ECN No
B	鹽水噴霧週期以電鍍方式區隔為 8 小時與48 小時	2011/05/26	EC2011-05-068
C	1.增列 Lock Yield Strength ; Terminal Insertion Force ; Panel Mount Retention 三項規格 2.參照CSA規範修改Wire Pullout Force(Axial)內容。 3.修改耐電壓為2900V AC 4. 依UL安規申請內容修改操作溫度為-25°C ~+85°C	2011/07/01	EC2011-07-002
D	1.增加耐久性 2.刪除硫化氫 3.修正(EIA-364) 參考規範 4. 依安規認證增列額定電壓 5.增加料 號編碼JS-6350WX-XX ; JS-6350HX-XX	2011/11/04	EC2011-11-002
E	1 增列Nylon 66UL94V-0 P/N (V0)選項 2. 6.1項Insertion Force & Withdrawal Force 修 訂為Per Pin 2.50 Kg/f x Poles No. 3 增列6.2項(CSA C22.2 No.182.3)規範	2013/11/07	EC2013-11-007
F	1增訂8.7項Cold(Low Temperature)耐寒試驗 , EIA-364-59A 2增訂3.5項Storage of Package以及 3.6 項Floor Life	2014/11/27	EC2014-11-027
G	將環境溫度範圍改為-40°C ~+105°C	2016/08/17	EC2016-08-017



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1.0 Product Name/Part Number & Drawing Number(產品名稱 / 產品型號及圖面型號):

Product Name(產品名稱)	Part Number(產品型號)	Drawing Number(圖面型號)
Female Crimp Terminal ( With AWG #18~22 is applied )	JS-6350W-TL	
Female Crimp Terminal ( With AWG #16~20 is applied )	JS-6350W-TM	
Female Crimp Terminal ( With AWG #12~14 is applied )	JS-6350W-TH	
Male Crimp Terminal ( With AWG #18~22 is applied )	JS-6350H-TL	(Solid For 2~5 Circuit )
Male Crimp Terminal ( With AWG #16~20 is applied )	JS-6350H-TM	(Solid For 2~5 Circuit )
Male Crimp Terminal ( With AWG #12~14 is applied )	JS-6350H-TH	(Solid For 2~5 Circuit )
Male Crimp Terminal ( With AWG #18~22 is applied )	JS-6350H-TL1	(Split For 6~15 Circuit )
Male Crimp Terminal ( With AWG #16~20 is applied )	JS-6350H-TM1	(Split For 6~15 Circuit )
Male Crimp Terminal ( With AWG #12~14 is applied )	JS-6350H-TH1	(Split For 6~15 Circuit )
Housing Plug (插頭)	Mated with Female Terminal	JS-6350WF-XXXX / JS-6350WF-XX(V0)
	Mated with Male Terminal	JS-6350WM-XXXX / JS-6350WM-XX(V0)
Housing Receptacle (插座)	Mated with Female Terminal	JS-6350HF-XXXX / JS-6350HF-XX(V0)
	Mated with Male Terminal	JS-6350HM-XXXX / JS-6350HM-XX(V0)

2.0 Construction/Dimensions/Material & Surface Finish(材質以及表面鍍層):

Part Name(零件名稱)	Material(材質)	Surface Finish(表面鍍層)
Crimp Terminal 柳壓端子	Brass	Stamping after tin plated (先電鍍後衝壓)
Housing (電線端連接器)	Nylon 66	UL 94V-0 or UL 94V-2
Plug (插頭) Receptacle (插座)		

3.0 Characteristic(產品特性):

Item(項目)	Standard(標準規範)	
3.1 額定電流 Rated Current	Single Row	2~5 Circuit <b>12 Amps</b> Max. (With UL1015 AWG #12 is applied )
	Triple Row	6~15 Circuit <b>9 Amps</b> Max. (With UL1007 AWG #16 is applied )
3.2 額定電壓 Rated Voltage	<b>600V AC/DC</b>	
3.3 Ambient Temperature Range 環境與操作溫度範圍	(操作使用溫度與濕度範圍) Operating Temp. : <b>-40°C~+105°C ; 85% R.H. Max</b> Including 30°C Terminal Temperature Rise at rated Current , (包括定額電流內，端子所產生 30°C 以下溫昇)	
3.4 Applicable Wire 適用電線	3.4.1	(金屬導體之型號) Conductor Construction Size: AWG #12~#22
	3.4.2	(電線絕緣材質外徑) Wire Insulation O.D.: 1.60mm~4.10mm
3.5 Storage of Package 包裝未拆封之保存	Temperature and Humidity Condition 溫濕度條件	
	Term 保存期限	Temperature 溫度 : <b>-10°C~+40°C</b> Percentage Humidity 相對濕度 : <b>70 % Max</b>
	Housing	<b>2 Years</b>
	Crimp Terminal	<b>1 Year</b>



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3.6	Floor Life 拆封後使用期限	Crimp Terminal	3 Months
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Note: 嵌合面板適用厚度 Applicable Panel Thickness: 0.76~2.29 mm

4.0 Specimen(樣本圖示) :

Part Name / Part Number / Picture or Photograph 零件名稱 / 零件型號 / 樣本圖示			
Female Crimp Terminal JS-6350W-TL/TM/TH		Male Crimp Terminal JS-6350H-TL/TM/TH JS-6350H-TL1/TM1/TH1	
Housing (Plug) JS-6350WX		Housing (Receptacle) JS-6350HX	

5.0 Applicable Standards(適用規範):

ANSI/EIA 364 ; EIA/ECA 364 Testing method for electrical connectors.

電子連接器，所適用之 ANSI/EIA 364 ; EIA/ECA 364 測試規範

6.0 Mechanical Performance(機械性能):

Item(項目)	Test Condition(測試條件)	Requirement(規格)
6.1 Insertion & Withdrawal Force 嵌入力與拔出力	Insert and withdrawal with connectors at the speed rate of 25.4 ± 3 mm /minute. 連接器兩端動合，以每一分鐘 25.4 ± 3mm 的速率，作嵌入與拔出往返測試 (EIA/ECA 364-13D) <b>( Excluding Thumb Latch 不包含指壓活動卡榫結合力 )</b>	Refer to 9.1 Table1. 參照第 9.1 項 表格 1
6.2 Wire Pullout Force(Axial) 電線脫離端子包覆之拔出力	Pull out the cable from with contact terminal at the speed rate of 25.4 ± 3 mm/minute. 對端子所包覆電線，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出力 (CSA C22.2 No.182.3)	(UL 1015) AWG#12 size wire <b>15.88kgf/Min.(156N 牛頓)</b> (UL 1015) AWG#14 size wire <b>11.34kgf/Min.(111N 牛頓)</b> (UL 1007) AWG#16 size wire <b>9.08kgf/Min.(89N 牛頓)</b> (UL 1007) AWG#18 size wire <b>9.08kgf/Min.(89N 牛頓)</b> (UL 1007) AWG#20 size wire <b>4.54kgf/Min.(44.5N 牛頓)</b> (UL 1007) AWG#22 size wire <b>3.63kgf/Min.(35.6N 牛頓)</b>



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
6.3 Crimp Terminal Retention Force ( in Housing ) 鉗壓端子與膠座之間 拔出力	Axial pullout force on the terminal in the plug housing at the speed rate of 25.4 ± 3 mm per minute. 對於已經存在於膠座當中鉗線端子，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出出力 (EIA/ 364-05)	單一接觸點 Per Contact 最小容許值 <b>6.75kgf/Min.</b>
6.4 Crimp Terminal Insertion Force ( into Housing ) 鉗壓端子與膠座之間 嵌入力	Insert the crimped terminal into the plug housing at the speed rate of 25.4 ± 3 mm per minute. 將已鉗線之端子 以每一分鐘 25.4 ± 3 mm 速率嵌入膠座當中	單一接觸點 Per Contact 最大容許值 <b>0.90kgf/Max.</b>
6.5 Thumb Latch Yield Strength 活動卡榫降伏力	Mate connectors and pull apart until both lock break . record the maximum force. 將連接器組裝之後 再行卸除直到兩側卡榫脫離，並記錄其最大拔出出力	最小容許值 <b>15.9 kgf/Min.</b>
6.6 Panel Mount Retention 有耳插座與嵌合面板間 拔出力	Full mate and then unmate the Connectors at a rate of 25.4 ± 3 mm per minute. 將插座緊密地嵌入面板當中，然後再以每一分鐘 25.4 ± 3 mm 速率將插座與面板脫離，並量測最終拔出出力	最小容許值 <b>34.0kgf/Min.</b>

**7.0 Electrical Performance(電氣性能) :**

Item(項目)	Test Condition(測試條件)	Requirement(規格)
7.1 (Low –Signal Level) Contact Resistance (低階信號) 接觸阻抗	A maximum voltage of 20mV and a maximum current of 100mA are applied to the mate connector. (EIA/ECA 364-23C) 對組合狀態下連接器，於其兩端施以最大測試電壓 20mV 以及最大測試電流 100mA ( Does not include wire resistance 不包含電線阻抗 )	Contact Resistance: <b>20 milliohms Max.</b> 最大容許值. 20 毫歐姆
7.2 Insulation Resistance 絕緣阻抗	Apply 500V D/C for 1 minute between adjacent contacts to measure the insulation resistance. (EIA 364-21C) 對相鄰兩接觸導體，於一分鐘時間內施予 500V D/C 電壓，並量測其間絕緣阻抗值	Insulation Resistance: <b>Initial 1000 megohms Min</b> 最初容許值. 1000 兆歐姆



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
7.3 Withstanding Voltage 耐電壓	Apply <b>2900V A/C (rms)</b> for 1 minute and the leakage current shall not exceed <b>0.5mA</b> to the adjacent terminal and ground of the mate connectors. (EIA 364-20C) 對組合狀態下連接器，於其相鄰兩導體末端各施以電壓 <b>2900V A/C</b> (實效值) 時間 1 分鐘，且漏電流必須小於 <b>0.5mA</b> (毫安培)	No breakdown or flashover. 無損毀或者產生火花

8.0 Environmental Performance(環境性能) :

Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.1 Durability 耐久性	Mate Connectors up <b>50 Cycles</b> at a maximum rate of <b>10 cycles Per minute</b> prior to environmental test (EIA/ECA 364-09C ) 以組合狀態下連接器且未經環境測試，依每分鐘內進行10次嵌入與拔出之最大速率，連續 <b>50</b> 次嵌入與拔出往返測試	(After the test) Contact resistance : <b>40 mΩ Max</b> 經耐久性試驗後接觸阻抗 最大容許值. 40 毫歐姆
8.2 Temperature Rise (Via Current Cycling) 溫昇 (經由電流循環操作)	Mate connector . measure the temperature rise of contact when the maximum rated current is passed 以組合狀態下連接器，通過最大容許電流 量測其導體溫度上昇值 (EIA 364-70B Conditions 1 . Method 1)	Mate connectors <b>Temperature Rise:</b> <b>+30°C/Max.</b> 組合狀態下之連接器溫度上昇 最大容許值+30°C
8.3 Vibration 耐振動	A mated connector shall be mounted on a printed Circuit board and subjected to a vibration test of the following conditions. During the test, test current continuity shall be checked. After the test, contact resistance shall be measured. 以組合狀態下連接器焊接於電路板作為試驗樣品,依照隨附如下規格要求,進行耐振動試驗，試驗過程中確認是否產生不連續電流(斷電)現象，並於試驗過後量測其接觸阻抗。(EIA/ECA 364-28E-Condition I) Frequency(頻率) : 10~55~10 Hz/minute. Amplitude (振幅) : 1.5 mm P-P Direction (方向) :1. Axis of up and down.上下軸向(Y 軸) 2. Axis of right the left. 左右軸向(X 軸) 3. Axis of front and back.前後軸向(Z 軸)	Initial Contact Resistance : <b>20 milliohms Max.</b> 接觸阻抗最初容許值 20 毫歐姆 (After the test) Contact Resistance: <b>40 milliohms Max.</b> 經耐振動試驗後接觸阻抗 最大容許值 40 毫歐姆 No discontinuity current is longer than 1 microsecond. 電流中斷現象， 時間不可多於 1 微秒





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Item(項目)		Test Condition(測試條件)	Requirement(規格)
8.4	Humidity (Steady State) 恆溫恆濕	<p>A mated connector shall be placed in a humidity chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured.</p> <p>(EIA 364-31B Conditions II. Method A)</p> <p>以組合狀態下連接器放置於恆定溫度與濕度的空間，依照隨附如下規格要求，進行恆溫恆濕試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。</p> <p>Temperature(溫度) : 40±2°C.            Relative Humidity(相對濕度) : 90%~95% (RH).            Period(週期) : 96 hours continuously. (持續 96 小時)</p>	<p>(After the test)</p> <p>Contact Resistance:  <b>40 milliohms Max.</b>            經恆溫恆濕試驗後接觸阻抗            最大容許值. 40 毫歐姆</p>
			<p>(After the test)</p> <p>Insulation Resistance :  <b>100 Megohms Min.</b>            經恆溫恆濕試驗後絕緣阻抗            最小容許值. 100 兆歐姆</p>
			<p>經恆溫恆濕試驗後耐電壓</p> <p>(After the test)</p> <p>Withstanding Voltage:  <b>2900V A/C for 1 minute</b></p>
8.5	Thermal Shock 冷熱衝擊	<p>A mated connector shall be subjected to a thermal shock test of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured.</p> <p>以組合狀態下連接器作為試驗樣品，依照隨附如下規格要求，進行冷熱衝擊試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。</p> <p>(EIA/ECA 364-32D)</p> <p>One Cycle Consists Of:  <b>-55°C+0/-3°C for 30 minutes. → Room Temp. 5 minutes</b>  <b>85°C+3/-0°C for 30 minutes. → Room Temp. 5 minutes</b></p> <p>Total Cycles: 5 Cycles. 以-55°C+0/-3°C溫度持續 30 分鐘，經室溫 5 分鐘，而後再以 85°C+3/-0°C溫度持續 30 分鐘，再經室溫 5 分鐘，構成一次冷熱循環，總計循環次數 5 次。</p>	<p>Same as paragraph 8.4            同 8.4 章節</p>



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Item(項目)		Test Condition(測試條件)	Requirement(規格)
8.6	Heat Aging 高溫老化試驗	A mated connector shall be placed in a heat oven of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. 以組合狀態下連接器放置於加熱烤箱當中，依照隨附如下規格要求，進行高溫老化試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗。 (EIA 364-17B Conditions 3 . Method A ) Temperature(溫度) : 105±2°C Period(週期): 96 hours continuously . (持續 96 小時)	Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆 (After the test) Contact Resistance : 40 milliohms Max. . 經高溫老化試驗後接觸阻抗 最大容許值. 40 毫歐姆
8.7	Cold 耐寒試 (Low Temperature)	A mated connector shall be placed in a cold chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. 以組合狀態下連接器放置於低溫空間內，依照隨附如下規格要求，進行耐寒試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗。 (EIA 364-59A Condition D ; Condition 4 ) Temperature(溫度) : -40±3°C. Period(週期): 96 hours continuously . (持續 96 小時)	Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆 (After the test) Contact Resistance : 40 milliohms Max. . 經耐寒試驗後接觸阻抗 最大容許值. 40 毫歐姆
8.8	Salt Spray 鹽水噴霧	A mated connector shall be subjected to a Salt Spray test of the following conditions. After the test , the specimen shall be washed with running water and dried naturally before the measurement of contact resistance. 以組合狀態下連接器作為試驗樣品，依照隨附如下規格要求，進行鹽水噴霧試驗，試驗過後將樣品用清水沖洗並經過自然風乾，而後量測其接觸阻抗。 (EIA 364-26B Conditions B) Density(鹽水密度): 5 % in weight. Temperature(溫度): 35±2°C. Period(週期): Terminal or contact (Stamping after tin plated for 8 hours ) ; Terminal or contact (Stamping before tin plated for 48 hours) 端子或導體(先電鍍後沖壓 8 小時) ; 端子或導體 (先沖壓後電鍍 48 小時)	Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆 (After the test) Contact Resistance: 40 milliohms Max. 經鹽水噴霧試驗後接觸阻抗 最大容許值. 40 毫歐姆

Notes : Flowing Mixed Gas (EIA 364-65A) shall be conduct by Customer request 混合流動氣體測試依照客戶需求



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<b>Type Document</b>	<b>Product Specification</b>	<b>Revised /Edition</b>	<b>G</b>
<b>Date Issued</b>	<b>2010/01/29</b>	<b>Data Revised</b>	<b>2016/08/17</b>
<b>Subject : JS-6350HX JS-6350H-TL/TM/TH JS-6350H-TL1/TM1/TH1 JS-6350WX JS-6350W-TL/TM/TH Pitch : 6.35mm Wire to Wire Power Connector Series.</b>			<b>Issued By: Engineering Dept.</b>

**9.0 Tables & Attachments**

**9.1 Table 1. Insertion Force (I.F.) & Withdrawal Force (W.F.) for user reference:**

**Unit : Kg/f**

No. of Circuits  極數	AT INITIAL 首次嵌入與拔出(初始值)		AT 50 <sup>TH</sup> 50 次嵌入與拔出之後	No. of Circuits  極數	AT INITIAL 首次嵌入與拔出(初始值)		AT 50 <sup>TH</sup> 50 次嵌入與拔出之後
	I.F. (MAX) 嵌入力	W.F. (MIN) 拔出力	W.F. (MIN) 拔出力		I.F. (MAX) 嵌入力	W.F. (MIN) 拔出力	W.F. (MIN) 拔出力
	<b>02</b>	<b>5.00</b>	<b>0.46</b>		<b>0.32</b>	<b>06</b>	<b>15.00</b>
<b>03</b>	<b>7.50</b>	<b>0.68</b>	<b>0.48</b>	<b>09</b>	<b>22.50</b>	<b>2.04</b>	<b>1.42</b>
<b>04</b>	<b>10.00</b>	<b>0.92</b>	<b>0.64</b>	<b>12</b>	<b>30.00</b>	<b>2.74</b>	<b>1.92</b>
<b>05</b>	<b>12.50</b>	<b>1.16</b>	<b>0.80</b>	<b>15</b>	<b>37.50</b>	<b>3.44</b>	<b>2.40</b>

**10.0Remark(備註) :** Any change or revision for the product specification will not be announced in advance.

Please contact our sales representative for the latest information.

有關規格書內容經變更或改版，如未能夠及時發佈與通知，煩請連絡我司業務人員以提供產品最新資訊

**Reviewed:** Tom Shih **Approved:** Erin Chou **Verified:** Tom Lee