

龍豐實業有限公司  
Dragon City Ind.,Ltd.

# 技术特性规格书

# Specifications

## 斯卡特插口系列

## Scart Connentor-Series

产品名称：斯卡特插口

**Product Name:** Scart Connentor

型 号:

**Model (Part No):** CS-101-EN, CS-102-EN

规 格:

**Specification:**

公司地址：香港火炭黄竹洋街1-3號裕昌中心15字樓C&D室  
Address: Flat C&D,15/F., Yue cheung Centre,  
1-3 Wong ChukYeung St.,Fotan, Hong Kong.  
电话: 852-26870351 传真: 852-26870363  
TEL: 852-26870351 FAX: 852-26870363  
E-mail: sales@dragoncity.com.hk  
<http://www.sales@dragoncity.com.hk>

1. Scope 适用范围

This specs is suitable for Scart connector, which is suitable for input/output of audio/video signal, used as connection part.

本技术特性规格书, 适用于斯卡特插口。产品适用于音频、视频信号的输入输出, 作接插使用。

2. Construction 外观尺寸

The external dimensions of this product and its internal tolerances are based on relevant drawings.

本产品外形及内部结构配合(公差)尺寸, 均以图纸为准。

3. Material 材料

Refer to the material sheet showed in the drawing.

均以图纸所列材料为准。

4. Applied environment 使用环境

(1) Temperature 温度: -40°C ~ 70°C

(2) Relative humidity 相对湿度: <90% ~ 95% (55°C ± 2°C)

5. Electrical properties 电气性能指标

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
5.1.	Rating load 额定负荷	DC 30V .	0.5A	
5.2	Dielectric strength 耐压 (抗电强度)	AC 500V(50 Hz ~ 60Hz) 1min 2mA	No abnormality, no breakdown, no over arc. 无异常、无击穿、飞弧	
5.3	Contact resistance 接触电阻	Frequency: 1000Hz; Current < 100mA; Voltage: 20mV 频率在 1000Hz 情况下, 电流 ≤ 20mA, 电压 ≤ 20mV	≤ 30m Ω	
5.4	Insulation resistance 绝缘电阻	Applying DC 100V Between pin And out conductor and test it after 1min. 端子与外导体之间 DC100V 1min 漏电流 2mA.	≥ 50M Ω	

6. Mechanical properties 机械性能指标

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
6.1	Insertion force 插入力	Use standard plug. Measure it after 3 times of insertion. 使用标准插头, 插入 3 次后测定。	30 N ~ 50N	
	Extraction force 拔出力	Use standard plug. Measure it after 3 times of extraction. 使用标准插头, 拔出 3 次后测定。	20 N ~ 50N	

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
6.2	Terminal strength 端子强度	Apply 5N static load, 1min in any direction. 加入 5N 的静负荷, 1min, 任何方向。 Bend the terminal pin twice in each directions with 5N static load. 用 5N 静荷重沿两个方向弯折端子两次。	Appearance: no damaging and desquamating. 外观: 无损伤、脱落	
			Contact resistance: $\leq 50 \text{ m}\Omega$ 接触电阻: $\leq 50 \text{ m}\Omega$	
			Insulation resistance: $\geq 50 \text{ M}\Omega$ 绝缘电阻: $\geq 50 \text{ M}\Omega$	
			Voltage withstanding: AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧	
6.3	Mechanical life 机械寿命	Inserting and extracting 1000 times without load at the speed of 10 cycles~20 cycles per minute. 在无负荷情况下插拔 1000 次, 插拔速度: 10 次/min~20 次/min	Appearance: no deforming and loosening 外观: 无变形、松动	
			Contact resistance: $\leq 50 \text{ m}\Omega$ 接触电阻: $\leq 50 \text{ m}\Omega$	
			Insulation resistance: $\geq 50 \text{ M}\Omega$ 绝缘电阻: $\geq 50 \text{ M}\Omega$	
			Voltage withstanding: AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧	
			Insertion force: 30 N~50N 插入力: 30 N~50N	
			Extraction force: 20 N~50N 拔出力: 20 N~50N	

7.Soldering properties 焊接性能

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
7.1	Solder-ability 可焊性试验	Solder bath method : Temperature: $235^{\circ} \text{C} \pm 5^{\circ} \text{C}$ Flux dipping time 3 seconds Time: $3 \text{ s} \pm 0.5 \text{ s}$ 使用焊槽法: 温度: $235^{\circ} \text{C} \pm 5^{\circ} \text{C}$ ; 时间: $3 \text{ s} \pm 0.5 \text{ s}$	Dipping time $\leq 3 \text{ s}$ 焊接润滑时间 $\leq 3 \text{ s}$	
			Solder covered surface $\geq 95\%$ 接线端沾锡面积 $\geq 95\%$	

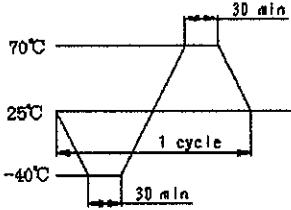
No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
7.2	Soldering withstanding 耐焊性试验	Solder bath method : Temperature: 260° C±5° C Flux dipping time 3 seconds Time: 10s±0.5s 使用焊槽法: 温度: 260° C ±5° C; 时间: 10s±0.5s	Appearance: terminal no loosening 外观: 端子无松动	
			Contact resistance: ≤50 m Ω 接触电阻: ≤50 m Ω	
			Insulation resistance: ≥50M Ω 绝缘电阻: ≥50M Ω	
			Voltage withstanding: AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧	
			Insertion force: 30 N~50N 插入力: 30 N~50N	
			Extraction force: 20 N~50N 拔出力: 20 N~50N	

8.Durability 耐久性能

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
8.1	Heat withstanding 耐热性	Temperature: 70° C± 2° C, keep 96 hours and measure after one hour recovery in standard atmospheric conditions. 温度在 70° C±2° C, 保持 96h 在标准大气 条件下, 恢复 1h 后测 试。	Appearance: no deforming and loosening 外观: 无变形、松动	
			Contact resistance: ≤50 m Ω 接触电阻: ≤50 m Ω	
			Insulation resistance: ≥50M Ω 绝缘电阻: ≥50M Ω	
			Voltage withstanding: AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧	
			Insertion force: 30 N~50N 插入力: 30 N~50N	
			Extraction force: 20 N~50N 拔出力: 20 N~50N	

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
8.2	Humidity withstanding 耐湿性	Temperature:40° C ± 2° C, Relative humidity:90%~95% Time:96hours Measure after one hour recovery in standard atmospheric conditions. 温度:40° C±2° C, 相对湿度: 90%~95% 时间:96h 在标准大气条件下, 恢复 1h 测试。	Appearance: no deforming and loosing 外观: 无变形、松动	
			Contact resistance: ≤50 m Ω 接触电阻: ≤50 m Ω	
			Insulation resistance: ≥50M Ω 绝缘电阻: ≥50M Ω	
			Voltage withstanding: AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧	
			Insertion force: 30 N~50N 插入力: 30 N~50N	
			Extraction force: 20 N~50N 拔出力: 20 N~50N	
8.3	Vibration withstanding 耐振性	Frequency:10~55Hz/min Double amplitude:1.5mm In 3 intersectional axis,2 hours each axis, total 6 hours. 频率:10-55Hz/分 双振幅:1.5mm 三个互相垂直的轴线上,每个轴线 2h,总共 6h 振动。	Appearance: no deforming and loosing 外观: 无变形、松动	
			Contact resistance: ≤50 m Ω 接触电阻: ≤50 m Ω	
			Insulation resistance: ≥50M Ω 绝缘电阻: ≥50M Ω	
			Voltage withstanding: AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧	
			Insertion force: 30~50N 插入力: 30~50N	
			Extraction force: 20~50N 拔出力: 20~50N	

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
8.4	Shock withstanding 耐冲击	Acceleration:9.81m/s <sup>2</sup> (75G) Sustaining repulse:6ms In 3 intersection axis,6 surfaces,3 shocks each surface, total 18 times of shock. 加速度 9.81 m/s <sup>2</sup> (100G) 持续脉冲: 6ms 三个互相垂直的轴线上,六个面,每个面冲击 3 次,总共 18 次冲击.	Appearance: no deforming and loosing 外观: 无变形、松动	
			Contact resistance: ≤50 mΩ 接触电阻: ≤50 mΩ	
			Insulation resistance: ≥50MΩ 绝缘电阻: ≥50MΩ	
			Voltage withstanding : AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧	
			Insertion force: 30~50N 插入力: 30~50N	
			Extraction force: 20~50N 拔出力: 20~50N	
8.5	Cold withstanding 耐寒性	Temperature:-25±3° C, Time:96hours Measure after one hour recovery in standard atmospheric conditions. 温度:-25±3° C, 时间:96h 在标准大气条件下, 恢复 1h 测试.	Appearance: no deforming and loosing 外观: 无变形、松动	
			Contact resistance: ≤50 mΩ 接触电阻: ≤50 mΩ	
			Insulation resistance: ≥50MΩ 绝缘电阻: ≥50MΩ	
			Voltage withstanding : AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧	
			Insertion force: 30~50N 插入力: 30~50N	
			Extraction force: 20~50N 拔出力: 20~50N	

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
8.6	Temperature cycle 温度循环	<p>Decrease from 25°C to -40°C in 30 minutes; then increase from -40°C to 70°C to complete one cycle. Total 5 cycles. Measure after 24 hours of recovery in standard atmospheric conditions.</p> <p>在 30min 内温度从 25°C 减少到 -40°C; 在 30min 温度再从 -40°C 增加到 70°C 为一个循环 共循环 5 次 在标准大气条件下</p> 	<p>Appearance: no deforming and loosing 外观: 无变形、松动</p> <p>Contact resistance: <math>\leq 50 \text{ m}\Omega</math> 接触电阻: <math>\leq 50 \text{ m}\Omega</math></p> <p>Insulation resistance: <math>\geq 50 \text{ M}\Omega</math> 绝缘电阻: <math>\geq 50 \text{ M}\Omega</math></p> <p>Voltage withstanding : AC500V, 2 mA, 1min, no breakdown, no over arc. 耐压: AC500V, 2 mA, 1min 无击穿、无飞弧</p> <p>Insertion force: 30~50N 插入力: 30~50N</p> <p>Extraction force: 20~50N 拔出力: 20~50N</p>	
8.7	Salt spray test 盐雾试验	<p>According to JIS C5028 Test time: 72 hours After keeping in standard condition for 16 hours, measure it.</p> <p>参考 JIS C5028 保持在标准大气条件下 16 小时后, 去进行测量。</p>	<p>Appearance: no deforming and loosing 外观: 无变形、松动</p> <p>Contact resistance: <math>\leq 50 \text{ m}\Omega</math> 接触电阻: <math>\leq 50 \text{ m}\Omega</math></p>	
8.8	Sulfuring test 硫化试验	<p>H<sub>2</sub>S density: 3 ± 1ppm Temperature: 40 ± 2°C Humidity: 75 ± 5%(RH) After keeping in above surrounding for 96 hours, then measure.</p> <p>硫化氢浓度: 3 ± 1ppm 温度: 40 ± 2°C 湿度: 75 ± 5%(RH) 保持在上述条件环境中 96 小时后, 去进行测量。</p>	<p>Appearance: no deforming and loosing 外观: 无变形、松动</p> <p>Contact resistance: <math>\leq 50 \text{ m}\Omega</math> 接触电阻: <math>\leq 50 \text{ m}\Omega</math></p>	

No. 序号	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo 备注
8.9	Ammonia gas test 氨气试验	Refer to CESM0010 2. RANK A for 72 hours. 参考 CESM0010 2. RANK A, 试验 72 小时	Appearance: no deforming and loosing 外观: 无变形、松动	
8.10	Tri-mixed gas comb.test 三种气体混合试验	<p>H<sub>2</sub>S density:0.5ppm NO<sub>2</sub> density:1ppm SO<sub>2</sub> density:1ppm Temperature:40±2°C Humidity:75±2%(RH) After keeping in above surrounding for 96 hours,take out and leave it temperature 70±2°C for 5 hours,then measure it.</p> <p>硫化氢浓度: 0.5ppm 二氧化氮浓度: 1ppm 二氧化硫浓度: 1ppm 温度: 40±2°C 湿度: 75±2%(RH) 保持在上述环境中 96 小时后, 取出放在 70±2°C 条件下 5 小时后, 去进行测量。</p>	<p>Appearance: no deforming and loosing 外观: 无变形、松动</p> <hr/> <p>Contact resistance: ≤50 mΩ 接触电阻: ≤50 mΩ</p>	

9. This product should meet EU RoHS related requirement.

本产品应满足 EU RoHS 要求。