## RAPPROVAL SHEET承認

Customer
客戶名稱：KUK JAE TELE PARTS CO．，LTD．
Description：
產品描述：D－SUB Socket High Density Right Angle Type
Part No．：
客戶編號：
Part No．：
繼德編號：
5510－XXS－XX－XX－F1

Date 日 期：
MAY－02－2008
Rev．版 次：
A

| 經辦（Evaluted） | 審核（Checked） | 核準（Approval） | 客戶承認（Approval） |
| :---: | :---: | :---: | :---: |
| Yang xia | Jeremy Liu | Mike Wu |  |



ISOTTS 16949


## 繼德工業股份有限公司 <br> Neltron Industrial Co．，Ltd．

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# 繼德工業股份有限公司 Neltron Industrial Co．，Ltd． Bill of Approval Sheet 

Product Description：D－SUB Socket High Density Right Angle Type
Product Part NO．：5510－XXS－XX－XX－F1 ate：MAY－02－2008

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## PRODUCT SPECIFICATION

## 1．Scope

This specification covers D－SUB Socket High Density Right Angle Type
2．Product name and part number

| Product Name | Part Number |
| :---: | :---: |
| D－SUB Socket High Density Right Angle Type | $5510-X X S-X X-X X-F 1$ |

3．Material／Finish

| Name | Material | Finish | Color |
| :--- | :--- | :--- | :--- |
| Plastic | PBT（UL94V－0） |  |  |
| Terminal | Phosphor Bronze | Selective Gold Plated |  |
| Shell | Metal Iron | Tin Plated |  |

＊Refer to the drawing．
4．Rating

| Item | Standard |  |
| :---: | :---: | :---: |
| Rated Voltage（MAX．） | $250 ~ V$ |  |
| Rated Current（MAX．） | 3.0 A |  |
| Ambient Temperature <br> Range | $-40^{\circ} \mathrm{C} \sim+85^{\circ} \mathrm{C}$ |  |

＊1：Including terminal temperature rise．

## 5．Performance

## 5－1．Electrical Performance

| Item |  | Test Condition | Requirement |
| :---: | :---: | :--- | :---: |
| $5-1-1$ | Contact <br> Resistance | Mate connectors D－SUB Socket High Density Right <br> Angle Type and measure by dry circuit，20mVMAX．10mA． <br> （JIS C5402 5．4） | $30 \mathrm{~m} \Omega$ MAX |
| $5-1-2$ | Insulation <br> Resistance | Mate connectors D－SUB Socket High Density Right <br> Angle Type and apply 1000V DC between adjacent <br> terminal or ground． <br> （JIS C5402 5．2／MIL－STD－202 Method 302） | $5000 \mathrm{M} \Omega$ MIN |
| $5-1-3$ | Dielectric <br> Strength | Mate connectors D－SUB Socket High Density Right <br> Angle Type and apply 1000V AC（rms）for 1 minute <br> between adjacent terminal or ground． <br> （JIS C5402 5．1／MIL－STD－202 Method 301） | No Breakdown |

## 5－2 Mechanical Performance

| Item |  | Test Condition | Requirement |  |
| :---: | :---: | :--- | :---: | :---: |
| $5-2-1$ | Insertion and <br> Withdrawal | Insert and withdraw connectors at the <br> speed rate of $25 \pm 3 m m / m i n u t e . ~$ | Insertion | Kgf／Pin（Max） |

繼德工業股份有限公司
Neltron Industrial Co．，Ltd．

|  | Force |  | Withdrawal <br> Force | Kgf／Pin（Min） |
| :---: | :--- | :--- | :--- | :--- |
| $5-2-2$ | Terminal <br> Retention Force | Apply axial pull out force at the speed rate of <br> $25 \pm 3 \mathrm{~mm}$ per minute． | kgf MIN |  |

## 5－3．Environmental Performance and Others

| Item | Test Condition |  | Requirement |  |
| :---: | :---: | :---: | :---: | :---: |
| 5－3－1 | Repeated Insertion and Withdrawal | When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute． | Contact Resistance | $30 \mathrm{~m} \Omega$ MAX |
| 5－3－2 | Temperature Rise | Carrying rated current load． （UL 498） | Temperature rise | $20{ }^{\circ} \mathrm{C}$ MAX |
| 5－3－3 | Vibration | ```Amplitude:1.5mm P-P Sweep time:10-55-10 Hz In 1 minute Duration: 2 hours in each of X.Y .Z .axes (MIL-STD-202 Method 201)``` | Appearance | No Damage |
|  |  |  | Contact Resistance | $30 \mathrm{~m} \Omega$ MAX |
|  |  |  | Discontinuity | $1 \mu \mathrm{sec}$. MAX |
| 5－3－4 | Shock | ```490m/\mp@subsup{S}{}{2}}\mathrm{ (50G),3 strokes in each X, Y, Z axes. (JIS C0041/MIL-STD-202 Method 213)``` | Appearance | No Damage |
|  |  |  | Contact Resistance | $30 \mathrm{~m} \Omega$ MAX |
|  |  |  | Discontinuity | $1 \mu \mathrm{sec}$ ．MAX． |
| 5－3－5 | Heat <br> Resistance | $\begin{aligned} & 85 \pm 2^{\circ} \mathrm{C} 48 \text { hours } \\ & \text { (JIS C0021/MIL-STD-202 Method } \\ & 108) \end{aligned}$ | Appearance | No Damage |
|  |  |  | Contact Resistance | 30m $\Omega$ MAX |
| 5－3－6 | Cold <br> Resistance | $-40 \pm 3^{\circ} \mathrm{C} 48$ hours （JIS C0020） | Appearance | No Damage |
|  |  |  | Contact Resistance | $20 \mathrm{~m} \Omega$ MAX |
| 5－3－7 | Humidity | Temperature：$\quad 60 \pm 2^{\circ} \mathrm{C}$Relative Humidity：90～95\％Duration：$\quad 96$ hours（JIS C0022／MIL－STD－202 Method103） | Appearance | No Damage |
|  |  |  | Contact Resistance | $30 \mathrm{~m} \Omega$ MAX |
|  |  |  | Dielectric Strength | Must meet 4－1－3 |
|  |  |  | Insulation Resistance | 5000M 2 MIN |
| 5－3－8 | Temperature Cycling | 5 cycles of： <br> a）$-55^{\circ} \mathrm{C} \quad 30$ minutes <br> b）$+105^{\circ} \mathrm{C} \quad 30$ minutes <br> （JIS C0025） | Appearance | No Damage |
|  |  |  | Contact Resistance | $30 \mathrm{~m} \Omega$ MAX |
| 5－3－9 | Salt Spray | $12 \pm 4$ hours exposure to a salt spray from the $5 \pm 1 \%$ solution at $35 \pm 2^{\circ} \mathrm{C}$ <br> （JIS C0023／MIL－STD－202 Method 101） | Appearance | No Damage |
|  |  |  | Contact Resistance | 20m $\Omega$ MAX |
| 5－3－10 | $\mathrm{SO}_{2} \mathbf{G a s}$ | 24 hours exposure to $50 \pm 5 \mathrm{ppm}$ ． $\mathrm{SO}_{2}$ gas at $40 \pm 2^{\circ} \mathrm{C}$ | Appearance | No Damage |
|  |  |  | Contact Resistance | $30 \mathrm{~m} \Omega$ MAX |
| 5－3－11 | $\mathbf{N H} \mathbf{H}_{3}$ Gas | 40 minutes exposure to $\mathrm{NH}_{3}$ gas evaporating from 28\％Ammonia solution | Appearance | No Damage |
|  |  |  | Contact Resistance | 30 m ת MAX |


| 5－3－12 | Solder－ ability | Solder Time： $5 \pm 0.5 \mathrm{sec}$.  <br> Solder Temperature $: 220 \pm 5^{\circ} \mathrm{C}$ Solder <br> Wetting | 95\％of immersed area must show no voids，pin holes |
| :---: | :---: | :---: | :---: |
| 5－3－13 | Resistance To Soldering Heat | Soldering Time： $5 \pm 0.5$ sec． Appearance <br> Solder Temperature $: 220 \pm 5^{\circ} \mathrm{C}$  | No Damage |
| $5-3-14$ | Soldering Profile 5－3－14－1 Manual soldering 5－3－14－2Wave <br> Soldering | Solder temp： $400 \pm 5^{\circ} \mathrm{C}$ <br> Time： $5 \pm 0.5$ sec <br> Soldering temp ： $220 \pm 5^{\circ} \mathrm{C}$ <br> Soldering time ： $5 \pm 0.5 \mathrm{~s}$ <br> Preheating： $150 \pm \mathbf{1 0}^{\circ} \mathrm{C}$ for 1 to $\mathbf{2} \mathbf{~ m i n}$ ． | Supplier to provide measured data into the Table 1. |

## SHINITE ${ }^{\text {TM }}$ PBT

| 㠺質 | METHOD | UNIT | D201 | D201G15 | D201G30 | D202 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 比重 | D792 | －－－ | 1.31 | 1.39 | 1.52 | 1.40 |
| 含水率 | D570 | \％ | 0.09 | 0.07 | 0.07 | 0.08 |
| 模收蹜流動方向挀植方向 | D955 | \％ | $\begin{aligned} & 0,8-2,0 \\ & 0,8-2,0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0,3-0,5 \\ & 0,5-0,9 \end{aligned}$ | $\begin{aligned} & 0,2-0,4 \\ & 0,5-0,9 \end{aligned}$ | $\begin{aligned} & 0,6-1,9 \\ & 0,6-1,9 \end{aligned}$ |
| 抗張強度 | D638 | $\mathrm{kg} / \mathrm{cm}^{2}$ | 550 | 1000 | 1250 | 600 |
| 仲長率 | D638 | \％ | 40 | 4 | 4 | 6 |
| 簷曲強度 | D790 | $\mathrm{kg} / \mathrm{cm}^{2}$ | 850 | 1800 | 2100 | 900 |
| 鸷曲模數 | D790 | $\mathrm{kg} / \mathrm{cm}^{2}$ | 25000 | 52000 | 90000 | 26000 |
| 銜紫強度缺口 | D256 | $\mathrm{kg} \times \mathrm{cm} / \mathrm{cm}$ | 4 | 8 | 10 | 4 |
| 洛式硕度 | D785 | R | 118 | 120 | 120 | 118 |
| 熟顛形温度 | D648 | ${ }^{\circ} \mathrm{C}$ | 65 | 205 | 210 | 70 |
| 酎然性 | UL－94 | $\cdots$ | HB | HB | HB | VO |
| 介笌強度 | D149 | KV／MM | 15 | 15 | 20 | 15 |
| 介等常教 | D150 | $\cdots$ | 3 | 3 | 4 | 3 |
|  | D257 | $\Omega$－CM | $1.00 \mathrm{E}+16$ | $1.00 \mathrm{E}+16$ | $1.00 \mathrm{E}+16$ | $1.00 \mathrm{E}+16$ |


| 胜質 | METHOD | UNIT | D202G15 | D202G20 | D202G30 | E202G15 | E202330 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 此丘 | D792 | －－－ | 1.49 | 1.53 | 1.62 | 1.50 | 1.61 |
| 含水集 | D570 | \％ | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
|  | D955 | \％ | $\begin{aligned} & 0,3-0,5 \\ & 0,5-0,9 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0,3-0,5 \\ & 0,5-0,3 \end{aligned}$ | $\begin{aligned} & 0,2-0,4 \\ & 0,5-0,9 \end{aligned}$ | $\begin{aligned} & 0,3-0,5 \\ & 0,5-0,9 \end{aligned}$ | $\begin{aligned} & 0,2-0,4 \\ & 0,5-0,9 \end{aligned}$ |
| 挍張洂景： | D638 | $\mathrm{kg} / \mathrm{cm}^{2}$ | 950 | 1100 | 1300 | 920 | 1300 |
| 他無率 | D638 | \％ | 4 | 4 | 4 | 4 | 3 |
|  | D790 | $\mathrm{kg} / \mathrm{cm}^{2}$ | 1600 | 1750 | 1950 | 1470 | 2000 |
| 稀曲模欺 | D790 | $\mathrm{kg} / \mathrm{cm}^{2}$ | 60000 | 70000 | 95000 | 56000 | 93000 |
|  | D256 | kg $\times \mathrm{cm} / \mathrm{cm}$ | 6 | 7.5 | 9 | 5.5 | 8.5 |
| 洛式硬媎 | D785 | R | 120 | 120 | 120 | 120 | 120 |
|  | D648 | ${ }^{\circ} \mathrm{C}$ | 200 | 205 | 210 | 205 | 210 |
| 陾舃性： | UL－94 | －－－ | V0 | V0 | Vo | V0 | V0 |
| 介宦強橎 | D149 | KVIMM | 20 | 20 | 20 | 20 | 20 |
| 分分常政 | 0150 | －－－ | 3 | 4 | 4 | 3 | 4 |
|  | D257 | $\Omega$－CM | $1.00 \mathrm{E}+16$ | $1.00 \mathrm{E}+16$ | 1．00E＋16 | $1.00 \mathrm{E}+16$ | 1．00E＋16 |





Test Report No. : CE/2007/B4310A Date : 2007/12/12

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SHINKONG SYNTHETIC FIBERS CORPORATION

The following sample(s) was/were submitted and identified by/on behalf of the client as :

| Sample Description | $:$ | THERMOPLASTIC POLYESTER RESIN |
| :--- | :--- | :--- |
| Style/Item No. | $:$ | SHINITE ${ }^{\bullet}$ PBT E202G15BK |
| Manufacturer Nendor | $:$ | SHINKONG SYNTHETIC FIBERS CORPORATION |
| Country of Origin | $:$ | TAIWAN |
| Sample Receiving Date | $:$ | $2007 / 11 / 16$ |
| Testing Period | $:$ | $2007 / 11 / 16$ TO 2007/11/23 |

## Test Requested

Test Method
: In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
: With reference to IEC 62321, Ed. 1 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
(1) Determination of Cadmium by ICP-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium for non-metallic samples by UVNis Spectrometry.
(5) Determination of PBB and PBDE by GC/MS.

Test Result(s)
Please refer to next page(s).


Chenyu Kung / Oper tyon Manager
Signed for and on behalf of SGS TAIWAN LTD.
Chemical Laboratory - Taipei

Test Report
SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN, R. O. C. TEL : +886-3-4932131 Ext. 1732 FAX : +886-3-4915763
Test results by chemical method (Unit: $\mathrm{mg} / \mathrm{kg}$ )

| Test Item (s): | Method | Result | MDL |
| :---: | :---: | :---: | :---: |
|  | (Refer to) | No. 1 |  |
| Cadmium (Cd) | (1) | n.d. | 2 |
| Lead (Pb) | (2) | 14 | 2 |
| Mercury (Hg) | (3) | n.d. | 2 |
| Hexavalent Chromium $\mathrm{Cr}(\mathrm{VI})$ by alkaline extraction | (4) | n.d. | 2 |
| Sum of PBBs | (5) | n.d. | - |
| Monobromobiphenyl |  | n.d. | 5 |
| Dibromobipheryl |  | n.d. | 5 |
| Tribromobiphenyl |  | n.d. | 5 |
| Tetrabromobiphenyl |  | n.d. | 5 |
| Pentabromobipheryl |  | n.d. | 5 |
| Hexabromobiphenyl |  | n.d. | 5 |
| Heptabromobiphenyl |  | n.d. | 5 |
| Octabromobiphenyl |  | n.d. | 5 |
| Nonabromobiphenyl |  | n.d. | 5 |
| Decabromobiphenyl |  | n.d. | 5 |
| Sum of PBDEs (Mono to Nona) (Note 4) |  | n.d. | - |
| Monobromobiphenyl ether |  | n.d. | 5 |
| Dibromobipheryl ether |  | n.d. | 5 |
| Tribromobiphenyl ether |  | n.d. | 5 |
| Tetrabromobiphenyl ether |  | n.d. | 5 |
| Pentabromobiphenyl ether |  | n.d. | 5 |
| Hexabromobiphenyl ether |  | n.d. | 5 |
| Heptabromobiphenyl ether |  | n.d. | 5 |
| Octabromobiphenyl ether |  | n.d. | 5 |
| Nonabromobiphenyl ether |  | n.d. | 5 |
| Decabromobiphenyl ether |  | n.d. | 5 |
| Sum of PBDEs (Mono to Deca) |  | n.d. | - |

## TEST PART DESCRIPTION:

NO. 1 : BLACK PLASTIC PELLETS
Note: 1. $\mathrm{mg} / \mathrm{kg}=\mathrm{ppm}$
2. n.d. $=$ Not Detected
3. $\mathrm{MDL}=$ Method Detection Limit
4. According to $2005 / 717 / \mathrm{EC}$ DecaBDE is exempt.
5. "-" = Not Regulated

## SHINKONG SYNTHETIC FIBERS CORPORATION

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. ( $\mathrm{Cl}^{\beta+}$ test method excluded)
2) Name of the person who made measurement: Troy Chang
3) Name of the person in charge of measurement: Chenyu Kung


| Sample Material | Digestion Acid |
| :--- | :--- |
| Steel, copper, aluminum, solder | Aqua regia, $\mathrm{HNO}_{3}, \mathrm{HCl}, \mathrm{HF}, \mathrm{H}_{2} \mathrm{O}_{2}$ |
| Glass | $\mathrm{HNO}_{3} / \mathrm{HF}$ |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Siver | $\mathrm{HNO}_{3}$ |
| Plastic | $\mathrm{H}_{2} \mathrm{SO}_{4}, \mathrm{H}_{2} \mathrm{O}_{2}, \mathrm{HNO}, \mathrm{HCl}$ |
| Others | Any acid to total digestion |



## Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION

PBBIPBDE analytical FLOW CHART


## SGS

Test Report
No. : CE/2007/B4310A Date : 2007/12/12
Page : 5 of 5
SHINKONG SYNTHETIC FIBERS CORPORATION
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SGS 产考絔鬲
收板田斯

测试！斯
：GC070906038
：200749 月 24 「
：2007年9ノ26H
：2007年9月24H42007的10月8\｜


（1）用ICP 测定镉啲含量
（2）川 ICP 测定探的念星
（3）州 ICP 测定水们含显
（4）时比色厸测定六价铬的合男

測试结果 ：诗参见ト・只
求相符

Signed for and on behalf of SGS－CSTC Ltd．


Sr．Engineer

测试报告

测试纱果（单们：尼克／下克）

| 测试项日 | 参考加法。 | No． 1 | MDL | RoHS弗做 |
| :---: | :---: | :---: | :---: | :---: |
| 雩（Cd） | （1） | N．D． | 2 | 100 |
| W ${ }^{\text {a }}$（ Pb ） | （2） | 18 | 2 | 1000 |
| 永（ Hg ） | （3） | N．D． | 2 | 1000 |
| 渄水等取厸测分价炧（CrVI） | （4） | Negative | $\begin{gathered} \text { 参思 } \\ \text { 源粍 } 4 \end{gathered}$ | \＃ |

## 测试新件描述：

No． 1 们色全禹 1

汗称：1．㞓光 T 克＝ppm
2．N．D．$=$ 木检肘（＜MDL）
3． $\mathrm{MDL}=$ 广厸检测限
4．点测试：
Negative $=$ 木检测到六价脐，Positive $=$ 检测到六价脐；

沸水萃取法：
Negative＝来检测细穴价价
 $0.02 \mathrm{mg} / \mathrm{kg}$

Negative＝明性，表小结朱与RoHS 坚求不种抵触
概以英文版为准。

[^0]测试报告

样品紧片：


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$f(86-20) 82075125$

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共
CUSTOMER
扱 先 同朋番港 有限公司
MESSRS．
製品名 C5191R－H（190－210）
PRODUCTS
寸法 $0.25 \times 305 \times$ L

SIZE
SIZE
SPECIFICATION
化 学 成 分
CIIEMICAL COHPOSITIONS

## CIIEMICAL COHPOSITIONS

 MANAGER OF QUALITY asSurance section

発 行 日 2005 年03月28日 0002
DATE OF ISSUE
䚚品書害号 57166
DELIVERY SHEET NO．
注 文 番 号 NK5－0303
$\begin{array}{ll}\text { CONTRACT NO．} \\ \text { オーダー番愚 } & 03\end{array}$
ORDER NO．

## MECHANICAL AND PHYSICAL PROPERTIES

| $\begin{array}{\|l\|l} \hline \text { 规 格 } \\ \text { SPECIFICATION } \end{array}$ | 引誫強さ TENSILE STRENGTH |  | 硬 さ HARDNESS |  | $\square$ |  |  |  | －－ |  |  | －． | 寸法検青 DIMENSIONAL INSPECTIONS | G00D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{N} / \mathrm{md}$ | \％ | H．V |  |  |  |  |  |  |  | ． |  | 外斍検查 | G000 |
| 輾造番号 MIN | 590 | 8.0 | 190 |  |  |  |  |  |  |  |  |  | SURFACE |  |
| LOT NO．MAX | 685 |  | 210 |  |  |  |  |  |  |  |  |  | INSPECTIONS |  |
| 62512 | 615 | 17.6 | 203.0 |  |  |  |  |  |  |  |  |  | 筬考 REMARKS． |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 冎 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| － |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 

EWE HEREBY CERTIFY THAT THE PRODUCTS DESCRIBED HEREIN HAVE BEEN HANUFACTURED，INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIFICATION AND Q．C．PROCRAK．

Certificate No./즘몀서번호:050929-KCSE-001-001 Date of issue/발형일자:Sep. 30, 2005

Order No./계역번호:000226073:
Supplier/주문자:SSANGYONG CORPORATION
Customer/고객사:GOLDBASE STEEL CO., LTD


PO No. 주문번호: ${ }^{2260711)}$ (6571
Commodity/푿명:CR COlL
Spec \& Type'규격:JIS G3141 SPCC-SD

Tensity Test Direction: Longitudinal, Gauge Length : 50 mn (Rectangular),
Division - Lladia Analysis "Tr(Trece)
Chemical Composition Unit $-2 \times 1 / 100,-3 \times 1 / 1000,-A \times 1 / 110000,-5 \times 1,100000$
We hereby certify the the material herein pas den made in accordagotwithithe hider and topgitmation



## Test Report

No. CANEC0801144001
Date: 22 Mar 2008
Payg 1 of 3

## CIXI ZHANGQI IIENG FENG WUU JIN FACTORY <br> NEAR DF NO. 329 NATIONAL HIGHWAY ZHANGOI TOWN CIXI CITY ZHEJIANG PROVINCE CHINA

The following sample(s) wasiwere submitted and identified on betralf of the clients as : thar uware fitting

SGS Job No.
Glient Refcrence Informalion Date of Sample Received
Testing Period

10914687-GZ
screw aquare Base stud
2 亿 Jul 2007
26 Jul 2007-01 Aug 2007
To determinc the Cadrrium, Lead, Mercury \& Hexavalent Chromlum cunlent in the submitted sample.

With referencs to IEC 62321 Ed. 1 111/54/CDV Procesdures for the Determination of Levels of Regutated Substancer in Electrolectwical Products.
(1) Determination of Cadmium by ICP. Determination of Lead by IGP.
Determinatlon of Mercuty by ICP
(2) Delermination of Hexavalent Chromium by Colorimustric Method.

Please reter to next page(s).

Signed for and on behalf of GGS-CGTC Itd.


Huang Fang. Sunny
Sr. Engineer







## Test Report

Test results by chemical method (Unit : mg/kg)

| Tost Iterm(s) | Method (Reter to) | No. 1 | MDL |
| :---: | :---: | :---: | :---: |
| Cadmium( Cd d) | (1) | 11 | 2 |
| Lead (Pb) | (1) | 25978 | 2 |
| Mercury ( Hg ) | (1) | N.[]. | 2 |
| Hexavaient Chromium (CrVI) by builing water | (2) | Negative | tiee Nate 4 |

## Note:

1. $\mathrm{mg} / \mathrm{kg}=\mathrm{ppm}$
2. N.D. $=$ Not Lletected ( $<\mathrm{MDL}$ )

3 MDL $=$ Method Delection Limit

## 4. Spol-lest:

Negative $=$ Absence of CrVI cualing, Positive $=$ Presence of Cr'VI coating:
(The tosted samples should be further verified by boiling-wal-er-extraction method if the spot tost result cannot be contirmed)
Boiling-water-extraction:
Negative - Absence of CrVI conating
Positive $=$ Presence of Cri/l coaling, the detected connentration in boiling-waler-bextraction solution is equal or greater than $0.02 \mathrm{mg} / \mathrm{kg}$ with $50 \mathrm{~cm}^{2}$ gample surlace area.
5. Results \& photn(s) of this report reler lo test report CANECOTO0150200.

## Test Part Description

No. 1 Silvery metal part

[^1]Sample photo：

## CANEC0801144001



No． 1
SGS authenticate the photo on oniginal report only









1 肬 $\angle, ~ 4 \leq 9 F=1: 5$

|  |  |  | THICKNESS MEASUREMENT |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MEAN TOP COAT |  | $=1.06 \mathrm{u}^{\prime \prime}$ |  |  |  |  |
| STD, DEVIATION |  | $=0.176 \mathrm{u}^{\prime \prime}$ |  |  |  |  |
| NO. OF MEAS. |  | $=10$ |  |  |  |  |
| MEAN INT COAT |  | $=54.321 \mathrm{u}^{\prime \prime}$ |  |  |  |  |
| STD, DEVIATION |  | $=3.454 u^{\prime \prime}$ |  |  |  |  |
| NO. OF MEAS. |  | $=10$ |  |  |  |  |
|  |  |  |  |  | Au | Ni |
| T meas |  | $=10 \mathrm{~s}$ | $\mathrm{N}=$ | 1 | THICKNESS $=1.08 \mathrm{u}^{\prime \prime}$ | 52.59u" |
| LOCATE SPECIMEN |  |  | $\mathrm{N}=$ | 2 | THICKNESS $=1.01 \mathrm{u}{ }^{\text {" }}$ | 54.39u" |
| TO MEASURE | PRESS | " GO " | $\mathrm{N}=$ | 3 | THICKNESS $=1.05 \mathrm{u}^{\prime \prime}$ | 53.54u" |
|  |  |  | $\mathrm{N}=$ | 4 | THICKNESS=1.06u" | 55.96u" |
| $\mathrm{Xt} 1=0.009$ | $\mathrm{Xn}=$ | 0.079 | $\mathrm{N}=$ | 5 | THICKNESS=1.04u" | 53.12u" |



Test Report
No．CANEC0800111003
Date： 16 Jan 2008
Page 1 of 3

## SHENZHEN HONGJUN HARDWARE CO．，LTD． <br> NO．3，DALANG INDUSTRY AREA，HONGXING VILLAGE SONGGANG TOWN，BAO＇AN DISTRICT，SHENZHEN CHINA

The following samples）was／were submitted and identified on behalf of the clients as ：
AU PLATING

| SGS Job No． | $:$ | $10787280-$ SK |
| :--- | :---: | :--- |
| SGS Internal Reference No． | $:$ | 4.3 |
| Date of Sample Received | $:$ | 11 Jan 2008 |
| Testing Period | $:$ | 11 Jan 2008－16 Jan 2008 |

Test Requested ：To determine the Cadmium，Lead，Mercury \＆Hexavalent Chromium content in the submitted sample．

Test Method

Signed for and on behalf of SGS－CSTC Ltd．

Huang Fang，Sunny
Sr．Engineer

With reference to IEC 62321 Ed． 1 111／54／CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products．
（1）Determination of Cadmium by ICP． Determination of Lead by ICP． Determination of Mercury by ICP．
（2）Determination of Hexavalent Chromium by Colorimetric Method．

Test Results ：Please refer to next pages）．


Test Report

Test results by chemical method（Unit ：mg／kg）
$\left.\begin{array}{l}\text { Test Item（s）} \\ \text { Cadmium（Cd）} \\ \text { Lead（Pb）} \\ \text { Mercury }(\mathrm{Hg}) \\ \text {（Refer to）}\end{array}\right)$

## Test Part Description

No． 1 Golden／silvery plated metal

Test Report
Sample photo：

## CANEC0800111003



No． 1

SGS authenticate the photo on original report only
＊＊＊End of Report＊＊＊

This Test Repertisissued by the Company subject to its General Conditions of Service printed overleaf or available on request and accessible at www．s．sobrh．Attention is drawn to the limitations of liability，indemnification and jurisdictional issues defined therein．Unless otherwise stated the respg shown in thise st report refer only to the sample（s）tested．This test report cannot be reproduced，except in full，without prior written permisffon of the Compaty．Any unauthorized alteration，forgery or falsification of the content or appearance of this report is unlawful and offendes mas त्रrosecuse to the fullest extent of the law．

[^2]Test Report

SHENZHEN HONGJUN HARDWARE CO．，LTD．<br>NO．3，DALANG INDUST．RY AREA，HONGXING VILLAGE SONGGANG TOWN，BAO＇AN DISTRICT，SHENZHEN<br>CHINA

The following sample（s）was／were submitted and identified on behalf of the clients as ：
NI PLATING

| SGS Job No． | $:$ | $10787280-$ SZ |
| :--- | :---: | :--- |
| SGS Internal Reference No． | $:$ | 4.4 |
| Date of Sample Received | $:$ | 11 Jan 2008 |
| Testing Period | $:$ | 11 Jan 2008－16 Jan 2008 |

Test Requested

Test Method

Test Results

To determine the Cadmium，Lead，Mercury \＆Hexavalent Chromium content in the submitted sample．

With reference to IEC 62321 Ed． 1 111／54／CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products．
（1）Determination of Cadmium by ICP． Determination of Lead by ICP． Determination of Mercury by ICP．
（2）Determination of Hexavalent Chromium by Colorimetric Method． Please refer to next page（s）．

Signed for and on behalf of SGS－CSTC Ltd．


Huang Fang，Sunny
Sr ．Engineer

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Test results by chemical method（Unit ：mg／kg）

| Test Item（s） | Method <br> （Refer to） | $\underline{\text { No．} 1}$ | MDL |
| :--- | :---: | :---: | :---: |
| Cadmium $(\mathrm{Cd})$ | $(1)$ | N．D． | 2 |
| Lead $(\mathrm{Pb})$ | $(1)$ | 19 | 2 |
| Mercury $(\mathrm{Hg})$ | $(1)$ | N．D． | 2 |
| Hexavalent Chromium（CrVI）by boiling water | $(2)$ | Negative | See Note 4 |
| extraction |  |  |  |

## Note：

1． $\mathrm{mg} / \mathrm{kg}=\mathrm{ppm}$
2．N．D．$=$ Not Detected（＜MDL）
3．MDL $=$ Method Detection Limit
4．Spot－test：
Negative $=$ Absence of CrVI coating，Positive $=$ Presence of CrVI coating；
（The tested sample should be further verified by boiling－water－extraction method if the spot test result cannot be confirmed．）
Boiling－water－extraction：
Negative＝Absence of CrVI coating
Positive＝Presence of CrVI coating；the detected concentration in boiling－water－extraction solution is equal or greater than $0.02 \mathrm{mg} / \mathrm{kg}$ with $50 \mathrm{~cm}^{2}$ sample surface area．

## Test Part Description

No． 1 Silvery plated metal

Sample photo：

## CANEC0800111004



No． 1

SGS authenticate the photo on original report only
＊＊＊End of Report＊＊＊

Test Report
No．CANEC0800111001
Date： 16 Jan 2008
Page 1 of 3

## SHENZHEN HONGJUN HARDWARE CO．，LTD． <br> NO．3，DALANG INDUSTRY AREA，HONGXING VILLAGE SONGGANG TOWN，BAO＇AN DISTRICT，SHENZHEN CHINA

The following sample（s）was／were submitted and identified on behalf of the clients as ：
MATTE SN PLATING

| SGS Job No． | $:$ | $10787280-$ SZ |
| :--- | :---: | :--- |
| SGS Internal Reference No． | $:$ | 4.1 |
| Date of Sample Received | $:$ | 11 Jan 2008 |
| Testing Period | $:$ | 11 Jan 2008－16 Jan 2008 |

Test Requested ：To determine the Cadmium，Lead，Mercury \＆Hexavalent Chromium content in the submitted sample．

Test Method

Test Results ：Please refer to next page（s）．

Signed for and on behalf of SGS－CSTC Ltd．


Huang Fang，Sunny
S̃r．Engineer

Test results by chemical method（Unit ：mg／kg）

| Test Item（s） | Method <br> （Refer to） | No． 1 | MDL |
| :--- | :---: | :---: | :---: |
| Cadmium $(\mathrm{Cd})$ | $(1)$ | N．D． |  |
| Lead $(\mathrm{Pb})$ | $(1)$ | 18 | 2 |
| Mercury $(\mathrm{Hg})$ | $(1)$ | N．D． | 2 |
| Hexavalent Chromium（CrVI）by boiling water | $(2)$ | Negative | See Note 4 |
| extraction |  |  |  |

## Note：

1． $\mathrm{mg} / \mathrm{kg}=\mathrm{ppm}$
2．N．D．$=$ Not Detected（＜MDL）
3．MDL $=$ Method Detection Limit
4．Spot－test：
Negative $=$ Absence of CrVI coating，Positive $=$ Presence of CrVI coating；
（The tested sample should be further verified by boiling－water－extraction method if the spot test result cannot be confirmed．）
Boiling－water－extraction：
Negative $=$ Absence of CrVI coating
Positive＝Presence of CrVI coating；the detected concentration in boiling－water－extraction solution is equal or greater than $0.02 \mathrm{mg} / \mathrm{kg}$ with $50 \mathrm{~cm}^{2}$ sample surface area．

## Test Part Description

No． 1 Silvery plated metal

## Sample photo：

## CANEC0800111001



No． 1

## SGS authenticate the photo on original report only <br> ＊＊＊End of Report＊＊＊

ECBT 2．E144392<br>Connectors for Use in Data，Signal，Control and Power A pplications－Component

Page Bottom

Connectors for Use in Data，Signal，Control and Power A pplications－Component

See General Information for Connectors for Use in Data，Signal，Control and Power Applications－Component

# NELTRON INDUSTRIAL CO LTD 

E144392
2ND FL
184 CHENG－TEH RD，SEC 4
SHIH－LIN，TAIPEI 111 TAIWAN

Wire to board connectors，Cat．Nos．1310，1311， 5289 H followed by -02 thru－15；Cat．Nos． $8982 \mathrm{H}, 8980 \mathrm{H}, 8981 \mathrm{H}$ followed by－ 04；Cat．Nos．2317RB，2317RJ，2317SB，2317SJ，2318HB，2318HJ，2417RJ，2417SJ，2418HJ followed by－02 thru－15；Cat．No． 2226A followed by－01 thru－40；Cat．No．2226B followed by－02 thru－80；Cat．No． 2221 followed by－06，-12 ；Cat．No． 2222 followed by－06；Cat．No． 2220 followed by -02 thru－16；Cat．Nos．2217R，2217S，2219R，2219S followed by -02 thru -15 ；Cat．No．2218H followed by－01 thru－15；Cat．No．2026A followed by－01 thru－40；Cat．No．2026B followed by－02 thru－80；Cat．No． 4400 followed by－44；Cat．No． 4401 followed by $-10,-14,-16,-20,-24,-26,-30,-34,-40,-50,-60,-64$ ；Cat．No． 4402 followed by $-10,-14,-16$ ， 20，－26，－34，－40，－44，－50，－60，－64；Cat．No． 4403 followed by－10，－14，－16，－20，－26，－30，－34，－40，－50，－60；Cat．No． 4404 followed by－14，－16，－18，－20；Cat．No． 4405 followed by－10，－14，－16，－20，－26；Cat．No． 4406 followed by $-10,-14,-16,-20,-24,-$ $26,-30,-34,-40,-50,-60,-64$ ；Cat．No． 4501 followed by $-20,-26,-32,-34,-40,-50,-52,-60,-68,-80,-100 ;$ Cat．No． 1200 followed by－03 thru－09；Cat．No． 1005 followed by－50，－100．

P．C．B connectors，Cat．No． 2162 followed by $-16,-18,-20,-24$ ；Cat．No． 2227 followed by $-08,-14,-16,-18,-20,-24,-28,-40$ ； Cat．No． 6605 followed by－72；Cat．No． 6602 followed by－30，－60；Cat．Nos．1007， 1008 followed by $-14,-20,-26,-30,-40,-50,-$ 60，－68，－80，－100；Cat．No． 6601 followed by $-20,-28,-32,-44,-52,-68,-84$ ；Cat．No． 6603 followed by $-68,-84,-85,-114,-121,-$ 132；Cat．No． 1201 followed by -03 thru－08；Cat．No． 1202 followed by -05 ；Cat．No．2416S followed by $-20,-26,-32,-34,-40,-50$ ， $-52,-60,-68,-80,-100 ;$ Cat．Nos．2216R，2216S followed by－10，－12，－14，－16，－20，－24，－26，－30，－34，－40，－50，－56，－60，－64； Cat．Nos．2516R，2516S followed by $-20,-26,-32,-34,-40,-50,-52,-60,-68,-80,-100 ;$ Cat．Nos．2223R， $2223 S$ followed by -02 thru－21；Cat．No． 2323 followed by -02 thru－20；Cat．No． 2316 S followed by $-10,-14,-16,-20,-26,-30,-34,-40,-50,-60,-64 ;$ Cat．No． 2525 followed by $-10,-12,-20,-30,-40,-50,-60,-80,-100,-120$ ；Cat．No． 2314 S followed by $-20,-26,-32,-34,-40,-50$ ， $-52,-60,-68,-80,-100 ;$ Cat．No． 2224 followed by -02 thru -15 ；Cat．Nos． $2211 R, 2211 S$ followed by -01 thru -40.

Cat．Nos．2213R，2213S followed by－02 thru－80；Cat．No．2212S followed by－02 thru－40；Cat．No．2214S followed by -02 thru -80 ； Cat．Nos．2215R，2215S followed by $-10,-12,-16,-18,-20,-26,-30,-34,-40,-50,-60 ;$ Cat．No． 2225 followed by $-36,-44,-50,-$ 62，－80，－86，－100；Cat．No．2207S followed by -02 thru－ 80 ；Cat．Nos．2208R， 2208 S followed by -02 thru－ 80 ；Cat．No． 2209 S followed by－01 thru－40；Cat．Nos．2210R，2210S followed by－01 thru－40；Cat．No．2206S followed by－01 thru－30；Cat．No． 41612 followed by－32，－48，－64，－96．

Mini jumpers，Cat．Nos．2205， 2228 followed by－02．

Wire to wire connectors，Cat．No． 8182 followed by－04；Cat．Nos． 5005,5006 followed by $-01,-02,-03,-04 A,-04 B,-05,-06,-$ 09，－12，－15．

D－Sub connectors，Cat．Nos．5514P，5514R followed by－13；Cat．Nos．5512P，5512S followed by $-15,-26,-44,-62$ ；Cat．No． 5511 followed by－09，－15，－25；Cat．No． 5510 followed by－15；Cat．Nos．5509P，5509S followed by $-15,-26,-62$ ；Cat．Nos．5508P，5508S followed by $-15,-26,-44,-62$ ；Cat．Nos．5506P，5506S followed by－09，－15，－25，－37；Cat．Nos．5504PF1，5504SF1，5504SF2， 5505F1，5505F2，5503S， 5503 P followed by $-09,-15,-25,-37$ ；Cat．Nos．5501P，5501S， 5502 followed by $-09,-15,-19,-23,-25,-$ 37，－50．

Centronic connectors，Cat No． 5701 followed by－14，－24，－36；Cat．Nos．5702，5703， 5706 followed by－40；Cat．No． 5704 followed by－30；Cat．No． 5707 followed by－20．

Scart connectors，Cat．Nos．1109，1111， 1113 followed by－21；Cat．Nos．1009，1011， 1013 followed by－21；Cat．Nos．1114R， 1114S followed by -21 ．

Connectors，Model No． 1002 S followed by 30，40，50， 60 or 68 ；Model No．1003－P－50；Model No． 1010 followed by 50 or 68 ， followed by P－PN；Model No． 1211 followed by 04， 06 or 08，followed by 04， 06 or 08；Model No． 1223 followed by－ 04 thru 30， followed by 02 or 03；Model No．1224S followed by 04 thru 27；Model No．1224SM followed by 04 thru 30；Model No．1230S followed by 04 thru 15；Model No．1230R followed by 04 thru 30；Model No．1250HM followed by 02 thru 15；Model No．1251SM followed by 02 thru 15；Model No．1251RM followed by 02 thru 15；Model No． 1251 S followed by 02 thru 15，followed by SMD；Model No．1251R followed by 02 thru 15，followed by SMD；Model No．1310H followed by 02 thru 15；Model No．1394－06；Model No． 1778 followed by $16,20,22,24,28,30,32,40,42,48,52,54,56$ or 64 ，followed by 03,04 or 06 ；Model No． 1778 MC followed by $16,20,24,28,30$ ， $40,42,48,52,56$ or 64 ，followed by 03，04， 06 or 075 ；Model No．1999P followed by 04 thru 80 ；Model No． 1999 S followed by 04 thru 120，followed by A1，A2 or A3，followed by B1，B2 or B3；Model No．2006H followed by 01，thru 06；Model No．2006S followed by 01 thru 05；Model No． 2010 followed by 10 thru 12，followed by H1，H2，H3 or H4；Model No．2011－10；Model No． 2016 followed by $10,12,14,16,20,22,24,26,30,34,36,40,44,50,60,64$ or 68 ；Model No． 2018 followed by P or R，followed by 02 thru 12 ； Model No．2099P followed by 04 thru 10；Model 2099S followed by 04 thru 14；Model No．2100P followed by 06 thru 20；Model 2100S followed by 04 thru 10；Model No． 2110 followed by $20,30,40,50,60,80$ or 100 ，followed by 34 or 44 ，followed by MM；Model No． 2114 followed by R，H or S，followed by 02 thru 10；Model No．2150－08；Model No． 2198 S followed by 10，24，30，40，44，50，60，70， 80， 90 or 100，followed by A1 or A2；Model No．2199SA followed by 04 thru 30，followed by 01 thru 03；Model No．2199SB followed by 02 thru 10，followed by A1，A2 or A3，followed by B1 or B2，followed by C1 or C2；Model No．2199R followed by 0 or 5 ，followed by 04 thru 30，followed by A1，A2 or A3，followed by B1 or B2，followed by C1 or C2；Model No．2200SA followed by 05 thru 50 ，followed by A1 or A2；Model No．2200SB followed by 10 thru 50，followed by A1 or A2；Model No． 2204 followed by S or R，followed by 02 thru 30；Model No．2206SA followed by 01 thru 36，followed by 46；Model No．2206SB followed by 02 thru 16，followed by 46；Model No． 2206PA followed by 01 thru 36，followed by 739；Model No．2206PB followed by 02 thru 50，followed by 739；Model No．2227MC followed by $06,08,10,14,16,18,20,22,24,28,32,36,40,42,48$ or 64 ，followed by 03,06 or 09 ；Model No． 2233 followed by $S$ or R，followed by 03 thru 120；Model No． 2317 followed by SEH or REH，followed by 02 thru 15；Model No． 2317 followed by RM or SM，followed by 02 thru 10；Model No． 2318 followed by HM or HEH，followed by 02 thru 15；Model No． 2323 followed by R or S， followed by 04 thru 23，followed by A or B；Model No． 1016 followed by 09 or 15；Model No．2007H followed by 02 thru 06 ；Model No． 2007S followed by 02 thru 05；Model No．2324S followed by 04 thru 22；Model No．2324R followed by 03 thru 30；Model No．2392－ 5100；Model No． 2417 followed by SB or RB，followed by 02 thru 08；Model No． 2418 HB followed by 02 thru 15；Model No．3750R followed by 02 thru 12；Model No． 3750 S followed by 02 or 03 ；Model No． 3920 followed by 02，03，04，06， 09 or 12 ；Model No． 3921 followed by 02，03，04，06， 09 or 12；Model No． 41815 followed by R，S or BE，followed by 02 thru 10；Model No． 4407 followed by 10，14，16，20，26，34，40，50， 60 or 64 ；Model No． 4408 followed by 10，12，16，20，24，26，30，34， 40 or 44；Model Nos．5075AS－ 04，5075BR－04，5075AR－08B，5075AR－04；Model No．5197H followed by 02 thru 12；Model No． 5197 followed by S or R，followed by 02 thru 04，may be followed by 01；Model No．5504F3－09P；Model No．5513S followed by 3W3，5W1，7W2，8W8，11W1 or 13W3； Model No．5515－13W3；Model No． 5557 followed by 02，04，06，08，10，12，14，16， 18 or 20；Model No． 5559 followed by 02，04，06， $08,10,12$ or 14 ；Model No． 5566 S followed by $02,04,06,08,10,12,14,16,18$ or 20 ；Model No． 5569 R followed by $02,04,06,08$ ， 10，12，14，16， 18 or 20，may be followed by 01；Model No． 6127 followed by S or P，followed by 02 thru 31；Model No．6604P followed by 01 thru 40，followed by 9．1，10．0，10．6， 12.1 or 13.7 ；Model No． 6604 S followed by 01 thru 40，may be followed by WR； Model No．6610－321；Model No．6610P－321，6615－168－LE；Model No． 8981 followed by SA，SM or R，followed by 04；Model No． 8982S followed by 02 thru 08；Model No．SQJ followed by 24S，26S，28S，28L，32S or 40L；Model No．4410－40．

Models 5589，5321，5592， 5594.

Cat．No．1223，followed by 03 thru 32，followed by T or G；Cat．No．1224R，followed by 03 thru 30；Cat．No．1226，followed by 04 thru 50，followed by T or G；Cat．No．1227，followed by S，R or SM，followed by 03 thru 30；Cat．No．1253R，followed by 02 thru 16 ， $18,20,22,24,26,28$ or 30 ，followed by T or G；Cat．No．1255R，followed by 02 thru 15，20， 25 or 30；Cat．No．1600，followed by S or R，followed by 02 thru 15 or 20，followed by T or G；Cat．Nos．2000P，2001S，followed by 10，12，14，16，18，20，22，24，26，28， $30,32,34,36,38,40,50,60,70,80,100,120$ ，followed by G；Cat．No．2017，followed by SM，S or R，followed by 10，12，14，16， 20，22，24，26，30，34，40，44，50，60，followed by G；Cat．Nos．2208，2213，followed by DI，S，R，SM or SMDI，followed by 02，04， $06,08,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72$, $74,76,78$ or 80 ，followed by G，T or SG；Cat．No．2209，followed by SM1，SM or S，followed by 2 thru 15，18，20，23，25，28，30，33， 35， 38 or 40 ，followed by G，SG，SV or T；Cat．No．2210，followed by DI，S，R，SM or SMDI，followed by $02,04,06,08,10,12,14$ ， $16,18,20,22,24,26,28,30,32,34,36,38$ or 40 ，followed by G，T or SG；Cat．No．2212TBA，followed by 01 thru 40 ，followed by G；Cat．Nos．2214R，2214TBA，followed by $04,06,08,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48$ ， $50,52,54,56,58,60,62,64,66,68,70,72,74,76,78$ or 80 ，followed by G；Cat．Nos．2217R1，2217S1，followed by 02 thru 20 ， followed by T or G；Cat．Nos．2217R2，2217S2，followed by 02，04，06，08，10，12，14，16，18，20，22，24，26，28，30，32，34，36，38 or 40 ，followed by $T$ or G；Cat．No．2316，followed by SM，R or S，followed by $06,08,10,12,14,16,20,24,26,30,34$ or 40 ， followed by G，T or SG；Cat．Nos．4409AP，4409A，4409，4409SM，followed by 04，06，08，10，12，14，16，18，20，22， 24 or 26.

## Low voltage connectors，Cat．No．2350SM－ 02 ．

Cat．No．225SM followed by 20，followed by 01；Cat．No． 1226 followed by 30，followed by 02 or 03；Cat．No．1254SMB followed by 10，20， 30 or 40；Cat．Nos．1394S－06，1394R－06；Cat．No．1394SM followed by 04；Cat．No．1394UR followed by 06；Cat．No． 1500 followed by $S$ or R，followed by 2 thru 10；Cat．No．2000P，followed by 14G，20G，30G，32G，36G，40G or 50G，followed by 233 ；Cat． No．2001S，followed by 14G，20G，30G，32G，36G，40G or 50G，followed by 220；Cat．No．2212BR followed by 30，followed by G or T； Cat．No．2212SM followed by 40G，followed by 75；Cat．No．2214SM followed by 70G，followed by 75；Cat．No．2214BR followed by 26 ，followed by G or T；Cat．No．2214DS followed by 20 ，followed by 66 ；Cat．No． 2214 TB followed by $2,4,6,8,10,12,14,16,18$ or 20；Cat．No． 2214113 followed by 64G，followed by 1A，1B，2B，3B，1C，2C，3C or 4C；Cat．No．2227P followerhlay？

32G，followed by 03 or 06；Cat．No．2228P followed by 2 thru 10；Cat．No．2234S followed by 96；Cat．No． 2316113 followed by 64G， followed by A，B or C；Cat．No．231682－3404 followed by 001 thru 006；Cat．No． 2317 followed by SD or RD，followed by 2，3，4，5，6， $7,8,9,10,11,12,13,14,15$ or 16 ；Cat．No． 2325 followed by $18 / 36,20 / 40,22 / 44,28 / 56,30 / 60,36 / 72,40 / 80,43 / 86$ or $50 / 100$ ， followed by L1 or L2；Cat．No．2392－5100；Cat．No．2400SM followed by 02， 03 or 04，maybe followed by T1，T2 or T3；Cat．No． 2417 followed by SJ or RJ，followed by 10，12，14，16，18，20，22，24，26，28， 30 or 32 ，followed by PHD；Cat．No． 2425 followed by 40 ， $44,56,60,86$ or 100，followed by L1 or L2；Cat．No． 2525 followed by 200；Cat．No．2526－242－SLOT1；Cat．No．2710－06 followed by one alphanumeric digit；Cat．No．4110SM followed by 07，followed by A1，A2 or A3，followed by M；Cat．No．4120SM followed by 09； Cat．No．4130SM followed by 10；Cat．Nos．5075BMR－04－SM，5075BMR－05－SM，5075AMR1－04－SM；Cat．No．5075BS followed by 04， followed by WH；Cat．No．5075AUR followed by 04；Cat．Nos．5075ARP－04，5075ARP－04－SMD；Cat．No． 5198 followed by S or R， followed by 2 thru 10；Cat．No．6604SB followed by 40WR；Cat．No．6801S followed by 50，followed by 70；Cat．No．6831S followed by 40；Cat．No． 7520 SL followed by 50P，followed by A，B，C or D；Cat．No． 7520 followed by 50P，followed by T1B3；Cat．Nos．ICA－ 501－006，ICA－501－008．

Cat．No． 1320 H followed by 02 thru 12；Cat．No． 5560 followed by $02,04,06,08,10,12,14,16$ or 18；Cat．No． 5561 followed by $02,04,06,08,10,12,14,16$ or 18 ；Cat．No． 5561 S followed by $02,04,06,08,10,12,14,16,18$ ；Cat．No． 5561 S followed by 02 ， $04,06,08,10,12,14,16$ or 18 ，followed by T，followed by SM or SM1；Cat．No． 5561 followed by $02,04,06,08,10,12,14,16$ ， 18；Cat．No．5561R followed by 02，04，06，08，10，12，14， 16 or 18 ，followed by T，followed by SM，SM1 or SM2；Cat．No．9200P followed by 4B，6，9， 12 or 15；Cat．No．9200R followed by 4B，6，9， 12 or 15；Cat．No． 9635 P，followed by 09,12 or 15 ；Cat．No． 9635 R followed by 09， 12 or 15；Cat．No． 2363 P followed by $01,02,06,04,05,06,09,12$ or 15 ，followed by A，followed by 01 or blank；Cat．No．2363R followed by 01，02，06，04，05，06，09， 12 or 15，followed by A，followed by 01；Cat．Nos．2650P－08，2650R－ 08.

Cat．No． 1320 H，followed by 02 thru 12；Cat．No． 5560 ，followed by $02,04,06,08,10,12,14,16$ or 18 ；Cat．No． 5561 ，followed by $02,04,06,08,10,12,14,16$ or 18 ；Cat．No． $5561 S$ ，followed by $02,04,06,08,10,12,14,16,18$ ；Cat．No． $5561 S$ ，followed by 02 ， $04,06,08,10,12,14,16$ or 18 ，followed by T，followed by SM or SM1；Cat．No． $5561 R$ ，followed by 02，04，06，08，10，12，14，16， 18；Cat．No． 5561 ，followed by $02,04,06,08,10,12,14,16$ or 18 ，followed by T，followed by SM，SM1 or SM2；Cat．No．9200P， followed by 4B，6，9， 12 or 15；Cat．No． 9200 R，followed by 4B，6，9， 12 or 15；Cat．No．9635P，followed by 09， 12 or 15；Cat．No． $9635 R$ ，followed by 09， 12 or 15 ；Cat．No．2363P，followed by $01,02,06,04,05,06,09,12$ or 15 ，followed by A，followed by 01 or blank；Cat．No． 2363 R，followed by $01,02,06,04,05,06,09,12$ or 15 ，followed by A，followed by 01 ；Cat．Nos．2650P－08，2650R－ 08.

Connectors，Cat．No．1253H，followed by 02 thru 16，18，20，22，24，26， 28 or 30；Cat．Nos．1254HA，1254RA，1254SA and 2114H， followed by 02 thru 15；Cat．No． 1254 HB ，followed by 10，20， 30 or 40；Cat．No． 1255 H ，followed by 02 thru 10，12，20， 25 or 30； Cat．No． 1600 H and 2220 H ，followed by 02 thru 20 ；Cat．No． 1600 HB and 1600 RMB ，followed by $20,30,40$ or 50 ；Cat．No． 1600 SMB ， followed by $12,14,16,18,20,22,24,26,28,30,40$ or 50 ，followed by CR or blank；Cat．No． 1602 H ，followed by $08,14,20$ or 30 ； Cat．Nos．2004P and 2004S，followed by 10，14，16，20，24，26，30，32，34，36，40，46，50，60， 70 or 80，followed by G；Cat．Nos． 2005P and 2005S，followed by 31 or 41 ；Cat．Nos． 2010 and 2011 ，followed by $10,12,14,16,18,20,22,24,26,28,30,32,34,36$ ， $38,40,50,60,68,70,80,90$ ，followed by G；Cat．Nos．2065P and 2065S，followed by 10，20，30，40， 50 or 52 ，followed by G；Cat． Nos．2199RA and 2199SA，followed by 02 thru 50，followed by G；Cat．Nos．2199R0 and 2199R5，followed by 02，04，06，08，10，12， $14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80$ ， $82,84,86,88,90,92,94,96,98$ or 100，followed by G；Cat．Nos．2199SB and 2200SB，followed by 04，06，08，10，12，14，16，18， $20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86$ ， 88，90，92，94，96，98，100，followed by G；Cat．No．2207SM，followed by 04，06，08，10，12，14，16，18，20，22，24，26，28，30，32， $34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78$ or 80 ，followed by G；Cat．No．2211， followed by DI or SM，followed by 02 thru 40，followed by G，T or SG；Cat．No．2212111，followed by 02 thru 40，followed by G， followed by 1A，1B，1C，2B，2C，3B，3C or 4C；Cat．Nos．2212R and 2212TB，followed by 02 thru 40，followed by G，SG or T；Cat．No． 2801SM，followed by 02 thru 05，followed by G；Cat．Nos．5560A and 5561A，followed by 02 thru 12；Cat．No．4409AS，followed by $04,06,08,10,12,14,16,18,20,22,24$ and 26 ；Cat．No． 5075 ABMR，followed by 05 ，followed by SM or SM1；Cat．Nos． 5198 H ， followed by 02 thru 10；Cat．No．5289，followed by R or S，followed by 02 thru 12；Cat．No．5504F1RS，followed by 09，15，25 or 37， followed by S；Cat．Nos．5513P－13W3，5513S－13W3，5514P－13W3，5514S－13W3，5515P－13W3 and 5515S－13W3；Cat．Nos．5518R－ 24－1M15，5518R－24－5M15，5518S－24－5M15；Cat．No．6604PB，followed by 04，06，08，10，12，14，16，18，20，22，24，26，28，30，32， $34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78$ or 80 ，followed by G or T；Cat．Nos． $6803 S$ and 6832 S ，followed by $04,06,08,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58$ ， $60,62,64,66,68,70,72,74,76,78$ or 80 ，followed by G，SG or T；Cat．Nos． 6831 S and 7801 R ，followed by 02 thru 40 ；Cat．No． 68335 ，followed by $04,06,08,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60$ ， $62,64,66,68,70,72,74,76,78$ or 80 ；Cat．No．6850，followed by R，S or SM，followed by 02 thru 50 ，followed by G or T；Cat．No． 6852 ，followed by R1 or S1，followed by $04,06,08,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48$ ， $50,52,54,56,58,60,62,64,66,68,70,72,74,76,78$ or 80 ，followed by G or T；Cat．No．6853，followed by R1 or S1，followed by $04,06,08,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70$ ， 72，74，76， 78 or 80；Cat No．8982R，followed by 02 thru 04.

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