### **FLEX CONNECTOR SOLUTIONS**

## FLEX CONNECTOR SOLUTIONS INFORMATION

- Web links to product info including performance parameters, drawings, 3D models, etc.
  - www.fciconnect.com/flex
- Documentation
  - Connectors For Flexible Circuitry FFC/FPC/CIC catalog
  - Sample Booklet
  - Documentation available at

www.fci.com or www.fciconnect/flex

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

#### 0.2mm / 0.3mm PITCH SOLUTION

- LC Display to Board and Board to Board connections
- ► Consumer, Data and Medical
- ► Mobile Phone, Mobile Equipment, Optical Drive









#### 0.5mm PITCH SOLUTION

- ► Display & Board to Board connections
- Consumer, Car Multimedia, I&I, Data and Comm
- ► Mobile equipment, IP phone, POS, Car audio & Navigation









#### 1.0mm / 1.25mm / 2.54mm PITCH SOLUTION

- ► Cable to Board and Board to Board connections
- ► Car Multimedia, I&I, and Data
- Car audio, Drive, POS, Printer







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#### FLEX CONNECTOR SOLUTIONS INFORMATION

- ► FCI's Highly reliable
  Gas Tight High
  pressure (GTH)
  contact with a wide
  variation of Zero
  Insertion Force (ZIF)
  and non-ZIF
  options for FFC &
  FPC connector
  solutions.
- FCI provides a robust design providing high cable retention forces. The flipping actuator 0.5mm pitch type facilitates the secure cable assembly with click actuation for automotive multimedia and I&I applications.

#### KEY:

ZIF (SL): Slider action ZIF (FF): Front side flip ZIF (BF): Back side flip

Pitch	Family Name	Height (mm)	Contact Location	ZIF / LIF	Positions Available
0.2mm	XL-D	0,9	Bottom	ZIF (FF)	29
W.T.W	YLL-D	0,9	Bottom	ZIF (FF)	13,15,17,21,23,25,27,29,33,35,39,41,43,45,51
0.3mm	YLL-U	0,9	Тор	Non-ZIF	15,21,23,25,27,31,33,35,37,39,41
V.CON.	OPU-D	2,0	Bottom	ZIF (SL)	38,40,45,50,55,57
	OPU-U	2,0	Тор	ZIF (SL)	32,34,36,40,45,50,55,57
	SFVE	1,2	Тор	ZIF (FF)	18,20,24,28,30
	SFVL-D	0,9	Bottom	ZIF (BF)	4,5,6,7,8,9,12,13
	SFVL-U	0,9	Тор	ZIF (BF)	4,5,6,8
E-ext COM.	SFV-R	1,8	Top, Bottom	ZIF (SL)	4-35
).5mm	SFV-S	4,1	N/A	ZIF (SL)	8,12,16,20,21,22,23,24,25,26,30,32,33
	VHC	2,0	Bottom	ZIF (FF)	35,50,60,70
	VLK	1,3	Bottom	ZIF (FF)	35,45,60
	VLH	1,3	Bottom	ZIF	40,45,50
	VLL	1,2	Bottom	ZIF (BF)	8,10,11,12,14,15,16,18,20,22,24,26,28,30
1001.	VLP	0,7	Bottom	ZIF (BF)	4,8,10
	HFW-R	1,9	Top, Bottom	Non-ZIF	4-30
	HFW-S	5,3	N/A	Non-ZIF	4-30,32
	HLW-R	3,9	Top	Non-ZIF	4-32
W 100	HLW-S	5,9	N/A	Non-ZIF	4-32
.0mm	SFW-R	2,7	Top, Bottom	ZIF (SL)	4-30
	SFW-S	5,3	N/A	ZIF (SL)	4,5,6,8,10,11,12,14,15,16,17,18,20,22,23,24,26,28,30
	SLW-R	4,0	Bottom	ZIF (SL)	4-30
TWW.	SLW-S	5,5	N/A	ZIF (SL)	4-30
.25mm	HLEM-R	4.9/6.0	Side Entry	Non-ZIF	4-40
1.2511111	HLEM-S	4.9/0.0	Top Entry	Non-ZIF	4-40
	Clincher	Standard	receptacle	OOY.CO TY	2-32
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2.54mm	Clincher	Receptac	le with keying feature	Jun J COM.	6-34
	Clincher	Receptac	le with keying & activ	e latch	6-34
	Clincher	Standard	plug	100Y.	3-14
	Duflex	Char	Wire in	Co	ontact and housing

NUMBER

SC-SFW 10

TITLE

#### PRODUCT SPECIFICATION

FCj

PAGE REVISION 1 of 11 Ε

AUTHORIZED BY DATE

M.YAMASHITA 24 Nov 09

CLASSIFICATION

UNRESTRICTED

#### FPC/FFC CONNECTOR (SFW\_\_R-1/2STE\_ LF / SFW\_\_R-1/2STZE\_ LF)

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勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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NUMBER

#### SC-SFW 10

#### PRODUCT SPECIFICATION



TITLE

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FPC/FFC CONNECTOR (SFW\_\_R-1/2STE\_ LF / SFW\_\_R-1/2STZE\_ LF) PAGE REVISION 2 of 11 E AUTHORIZED BY DATE M.YAMASHITA 24 Nov 09 CLASSIFICATION

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		IM MMM.TOO	胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw	COM.TW	
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SC-SFW 10	PRODUCT SPECIFICATION	FCI	
TITLE	DC/EEC CONNECTOR	PAGE 3 of 11	REVISION E
17/1.2	PC/FFC CONNECTOR STE_ LF / SFWR-1/2STZE_ LF)	AUTHORIZED BY M.YAMASHITA	24 Nov 09
CONTA MA	M.1002. COW.LAN MAM.100X.	CLASSIFICATION UNRESTR	ICTED

1. SCOPE

This specification covers the requirements for the connector (SFW\_\_R-1/2ST\_E\_LF) with 1mm spacing to which the edge of FPC(Flexible Printed Circuit) and FFC(Flexible Flat Cable) can be connected by Zero-Insertion-Force method and which copes with automatic mounting and SMT.

2. APPLICABLE STANDARDS

JIS C 5402 JIS C 0806 Method for Test of Connectors for Electronic Equipment Packaging of Electronic Components on Continuous Tapes

(Surface Mount Components)

TESTS FOR FLAMMABILITY OF PLASTIC MATERIALS FOR PARTS

IN DEVICES AND APPLIANCES

3. CATALOG NO. STRUCTURE

	<u>SFW 20 R - 1 ST Z E1 LF</u>
Series	0. OM: 3 AM W. 12 COM.
Number of Contacts	OOT. ON THE WAY OF COM
Right Angle ————————————————————————————————————	100 - CONT. AMAJOO W.COV
For FPC/FFC, Contact direction  1: Lower contact type 2: Upper contact type	WINDOX.COM.TW WYW.100X.CO
Cope with automatic mounting & SMT	100 100 100 100 100 100 100 100 100 100
Plating Variation	MM. TOOK CONTAIN M. M. W. 100.5
Blank: Tin plating	WWW. 100X. CONTW WWW. WILLOW
Z : Thin tin plating	WWW.100Y.CO.T.TW WWW.101
Plastic Tape Packaging	WWW. 100X.CO. M. T.M. M. W. W. T.
Lead Free	MM MIN MM

- 4. CONNECTOR SHAPE, DIMENSIONS AND MARTERIALS Refer product drawings.
- 5. ACCOMMODATED CONDUCTORS (FPC/FFC) Refer product drawings.
- 6. PACKAGING CONDITION Refer product drawings.

7. RECOMMENDED MOUNTING PATTERN DIMENSIONS

特力材料886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

Refer product drawings.

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NUMBER **SC-SFW 10** PRODUCT SPECIFICATION PAGE REVISION 4 of 11 Ε FPC/FFC CONNECTOR AUTHORIZED BY DATE (SFW\_\_R-1/2STE\_ LF / SFW\_\_R-1/2STZE\_ LF) M.YAMASHITA 24 Nov 09 CLASSIFICATION UNRESTRICTED

#### 8. RATING

8-1. Voltage

A.C. 100V

D.C. 100V

8-2. Current

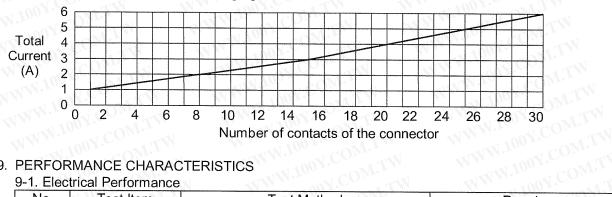
D.C. 1A (Refer to the following note.)

A.C. 1A

8-3. Operating Temperature : -55°C ~ +105°C (Including terminal temperature rise)

NOTE

Allowable maximum current for one contact is 1A. Total allowable current for a whole connector is the value which is shown in the following figure.



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#### 9. PERFORMANCE CHARACTERISTICS

#### 9-1 Flectrical Performance

No.	Test Item	Test Method	Requirements		
9-1-1	Contact resistance	1) Measure contact resistance between V <sub>1</sub> -V <sub>2</sub> by voltage drop method by the following circuit by mating accommodated conductor stipulated in clause 5 after reflow soldering the connector on the P.C.B. and cleaning flux dregs.  Connductor Soldering Portion  V1	<ol> <li>Initial value         <ul> <li>Less than 30mΩ</li> </ul> </li> <li>Contact resistance after the test Is in accordance with the value specified in each test item.</li> </ol>		

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NUMBER	ТҮРЕ	1		
SC-SFW 10	PRODUCT SPECIFICATION	FCI		
TITLE	100 Kerta III WAN 100 K.CO.	PAGE	REVISION	
TW WWF	5 of 11	E		
	AUTHORIZED BY	DATE		
(SFWR-1/2	STE_LF / SFWR-1/2STZE_LF)	M.YAMASHITA	24 Nov 09	
COM.TW WW	W.1007.COM.TW WWW.1007.	CLASSIFICATION UNRESTR	ICTED	
		I.CO.M.TW		
No. Test Iten	n Test Method	Requireme	nte	

No.	Test Item	Test Method	Requirements
$CO_{M}$	TW WY	Measure insulation resistance between adjacent contacts in a connector individual.	1) More than 500MΩ
9-1-2	Insulation resistance	2) Test voltage : D.C. 500V	V.100Y.COM.TW
00X.CC		Read value one minute after applying test voltage.	W.100X.COM.TW
9-1-3	Dielectric withstanding	For one minute, apply A.C. 500V between adjacent contacts in a connector individual.	Free from any short circuit and insulation breakdown.
MN.10	voltage	2) Set current : A.C. 1mA	WWW.100Y.COM.TW

#### 9-2. Mechanical Performance

No.	Test Item	Test Method	Requirements
-2-1	Durability (Slider	Measure contact resistance before and after the test by the method in clause 9-1-1 by mating the accommodated conductor specified in clause 5.	<ol> <li>Initial contact resistance         <ul> <li>Less than 30mΩ</li> </ul> </li> <li>Contact resistance after the test         <ul> <li>Less than 50mΩ</li> </ul> </li> </ol>
	operation)	2) Number of slider open and close : 20 times (Insert and extract the conductor for each opening of the slider.)	Free from any defect such as break etc. on the connector and the conductor.
)-2-2	Vibration (Sinusoidal)	JIS C 60068-2-6 (IEC60068-2-6) 1) Frequency range: 10 ~ 500Hz  2)Amplitude: 0.75mm or Acceleration: 100m/s² 3) Sweep rate: 1 octave / minute  4) Kind of test: Sweep endurance test 5) Test time: 10 cycles	<ol> <li>During the test, no circuit opening for more than 1µs</li> <li>Free from any defect such as break, deformation, loosing and falling off etc. on each portion of the connector.</li> </ol>

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NUMBER TYPE SC-SFW 10 PRODUCT SPECIFICATION TITLE PAGE REVISION 6 of 11 Ε **FPC/FFC CONNECTOR** AUTHORIZED BY DATE (SFW\_ \_R-1/2STE\_ LF / SFW\_ \_R-1/2STZE\_ LF) M.YAMASHITA 24 Nov 09 WW.100X.COM.T MMM.100X.COM. CLASSIFICATION <u>ərformar</u> UNRESTRICTED

No.	Test Item	Test Method	Requirements
.COM. V.COM 07.CO 007.CO	TW WV LTW W M.TW OM.TW OM.TW	JIS C 60068-2-78 (IEC60068-2-78)  1) Measure contact resistance before and after the test by the method in clause 9-1-1 by using the accommodated conductor specified in clause 5.  2) Measure insulation resistance after	1) Initial contact resistance : Less than 30mΩ  2) Contact resistance after the test : Less than 50mΩ
9-3-1	Damp heat (Steady state)	the test by the method in clause 9-1-2.  3) Bath temperature : 40°C	3) Insulation resistance after the test : More than 100M $\Omega$
	(Gleady state)	4) Bath humidity: 90~95% (Relative humidity)	WWW.100Y.COM.TW
	N 100X COM . N 100X COM . I	<ul><li>5) Period of exposure : 48 hours</li><li>6) Expose conductor and connector in mated condition and leave them</li></ul>	WWW.100Y.COM.TW
W	NW.100X.COM	under normal temperature. (Without insertion and separation)	M.M.M.100X.COM.TA
	MMM.100X.CC	JIS C 60068-2-11 (IEC60068-2-11)  1) Measure contact resistance before and after the test according to the method in clause 9-1-1 by using accommodated conductor specified	1) Initial contact resistance : Less than $30m\Omega$
	MMM.1002	in clause 5.  2) Salt solution concentration : 5%	2) Contact resistance after the test : Less than $50m\Omega$
9-3-2	Salt spray	3) Period of exposure : 48 hours	CONTAN MAN 100X
	MAM.	4) Expose conductor and connector in mated condition and leave them under normal temperature after post treatment.	COM.TW WWW.100X V.COM.TW WWW.100X V.COM.TW WWW.100X WWW.100X WWW.100X

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NUMBER TYPE

SC-SFW 10

TITLE

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#### PRODUCT SPECIFICATION

FPC/FFC CONNECTOR

(SFW\_\_R-1/2STE\_ LF / SFW\_\_R-1/2STZE\_ LF)

FCi

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AUTHORIZED BY DATE

> M.YAMASHITA 24 Nov 09

No.	Test Item	I TOUT CO	Test Meth	nod W	Requirements
	Change of temperature	and after to method accommod 5.  2) One cycle follow and 1 2 3 4 3 Expose compated co	(IEC60068 contact re the test ac in clause 9 odated condition of temperature of temperature)  Femp.(°C)  -55±3  25±2  85±2  25±2  onductor a	3-2-14) sistance before cording to the cordinal side.  Time (min.)  30  2 ~ 3  30  2 ~ 3  and connector in dileave them	<ol> <li>Initial contact resistance : Less than 30mΩ</li> <li>Contact resistance after the test : Less than 50mΩ</li> <li>Free from any defect such as crack, warping and deformatic etc. on each portion of the connector.</li> </ol>

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NUMBER	ТҮРЕ	<u>FW</u>		
SC-SFW 10	PRODUCT SPECIFICATION	FCI		
TITLE FPC/FFC	CONNECTOR 8 of 11		REVISION E	
Wr.	F / SFWR-1/2STZE_ LF)	AUTHORIZED BY M.YAMASHITA	24 Nov 0	
COWILL MANYING	Y.COM. TW WWW.100Y.	CLASSIFICATION UNRESTR	ICTED	

No.	r performance Test Item	Test Method	Requirements
9-4-1	Soldering (Posistance to	<ul> <li>JIS C 60068-2-58 (IEC60068-2-58)</li> <li>1) Solder by setting reflow bath on the following condition.</li> <li>2) Preheating: 150~180°C, 120±5s</li> <li>3) Soldering: 220°C min. 60s max.</li> <li>4) Peak: 245°C min. 20s max.</li></ul>	<ol> <li>Contact resistance after the test: Less than 50mΩ</li> <li>Insulation resistance after the test: More than 100MΩ</li> <li>No short circuit and insulation Breakdown for dielectric withstanding voltage test after this test.</li> <li>Free from any damage on performance and contact performance after soldering.</li> </ol>
上 上	券 特 力 材 料 88 生特力电子(上海) 86 生特力电子(深圳) 86	6-21-34970699 6-755-83298787	TIME to reflow soldering profile

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	WWW.100Y.COM	NTW NTW
SC-SFW 10	PRODUCT SPECIFICATION	ON FC)
(SFWR-	FPC/FFC CONNECTOR 1/2STE_ LF / SFWR-1/2STZE_ LF)	PAGE   REVISION
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MI	N WWW	100X.COM.TW WW.100	
No.	Test Item	Test Method	Requirements
	TW WW TW W  I.TW W  II.TW W  IM.TW	<ul> <li>JIS C 60068-2-58 (IEC60068-2-58)</li> <li>1) Solder by setting reflow bath on the following condition.</li> <li>2) Preheating: 150~180°C, 60~120s</li> </ul>	Actual soldered area must be more than 95% of the dipped area intended to be soldered.
	CON.TW	3) Soldering: 225°C min., 20±5s (Peak 235°C max.) (See Diagram B) Note: Temperature must be measured at contact terminal portion and peak temperature on the upper surface of P.C.B must be less	勝 特 力 材 料 886-3-5753176
	O. COMIT	than 260°C.	胜特力电子(上海) 86-21-3497069
	Soldering	4) Solder paste to be used is	胜特力电子(深圳) 86-755-83298
9-4-2	(Solderability)	JIS Z 3282	Http://www.100y.com.tw
	(Reflow)	Sn96.5Ag3.0Cu0.5	MAN. TO COM.
M. M.	WWW.100X.COM WWW.100X.COM WWW.100X.COM WWW.100X.CO WWW.100X.C WWW.100X.C WWW.100X.C	Diagram B  C  Score   Control   Cont	Peak 235°C  20s  20±5s  TIME  olderability profile
9-4-3	Conductor retention force (Reference)	Measure initial retention force after inserted and locked by using accommodated conductor specified in clause 5.	More than     0.88N/contact for FPC     (More than 90gf/contact for FPC)      More than     0.68N/contact for FFC     (More than 70gf/contact for FFC)

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SC-SFW 10	N.100Y.CO	PRODUCT SPECIFICATION	FCJ	
TITLE	W.100Y.	VEEC CONNECTOR		REVISION
M.TN NY			AUTHORIZED BY	DATE
(SFWR	-1/2STE_ L	M.YAMASHITA	24 Nov 09	
.com.TW	M.M.Y.100	X.COM.TW WWW.100X	CLASSIFICATION UNRESTR	ICTED

#### 10. INDICATION AND PACKAGING

#### 10-1. Indication

- 1) Catalog number and lot number are not indicated on the connector.
- 2) Catalog number and quantity shall be indicated on the surface of the package box.

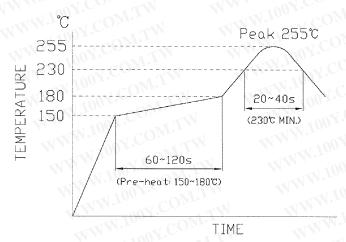
#### 10-2. Packaging

1) The connector individuals are packed by tapes with specified quantity in accordance with [JIS C 0806 "Packaging of Electronic Components on Continuous Tapes (Surface Mount components)" ] and put into package box in accordance with FCI packaging specification.

#### 11. REMARKS

- 11-1. Please refer to the "Handling procedures and remarks" before use.
- 11-2. Retention force for accommodated conductor specified in clause 9-4-3 differs due to its kind, structure and surface treatment of conductor. Therefore, the value of retention force specified in the clause for performance is reference value.
- 11-3. Since this connector can not be used for CIC (Conductor such as sliver paste, carbon etc.) as accommodated conductor, please consult us separately.

#### 12. RECOMMENDED REFLOW PROFILE



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Diagram C. Recommended reflow temperature profile

Note: Please check the reflow soldering condition for your own application beforehand due to different conditions with soldering devices, P.C. Boards, etc.

No moisture treatment before reflow process.

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NUMBER	TYPE TO THE TOTAL COMP.		
SC-SFW 10	PRODUCT SPECIFICATION	FCi	
TITLE	MAIN TOOL CO.	PAGE	REVISION
FPC/FFC	CONNECTOR	11 of 11	E
WI.	F / SFWR-1/2STZE_ LF)	AUTHORIZED BY	DATE
(31 WK-1/231L_ L	1 / 3 / W K- 1/23 1 ZE_ LF)	M.YAMASHITA	24 Nov 09
CON.1 W. INW.100	A COMT	CLASSIFICATION UNRESTR	ICTED

# 13. REVISION RECORD

RE	/. PAGE	DESCRIPTION	ECR#	DATE
<u>.</u> ((	All	New release	J03-0327	04 Sep 03
Α	All All	Spec update	J05-0055	07 Feb 05
В	5	Correct solder operation to slider operation	J06-0080	01 Mar 06
OC	All 3	Revise format of product spec.  Operating Temperature change from -55°C ~ +85°C to -55°C ~ +105°C	S07-0192	21 Mar 07
D	All	Revise spec for lead-free solder Add "Diagram A" Resistance to Reflow Soldering Profile. Add "Diagram B" Solderability Profile. Add "Diagram C" Recommended Reflow Profile.	J09-0371	16 Oct 09
E	11	Corrected paragraph Number.	J09-0410	24 Nov 09

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GS-01-001

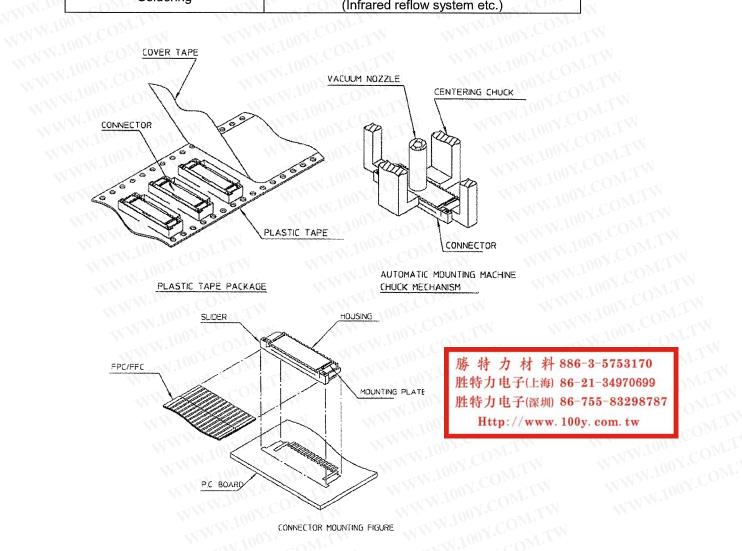
WW.100Y.COM.TW

NUMBER GS-20-129	APPLICATION SPECIFICATION	TEN TEN	FCJ
Handling	Procedures and Remarks for 1.0mm Pitch	PAGE 1 of 6	REVISION
COM.TW	FPC/FFC Connector SFWR-1/2STLF	M.YAMASHITA	26 OCT 09
CONT.TW	WWW.100X.CO.W.TW WWW.100X	CLASSIFICATION UNRESTR	ICTED

#### MOUNTING METHOD OF THE CONNECTOR ON P.C.BOARD

This connector applies the construction which copes with automatic mounting and SMT. Therefore please proceed reflow soldering after mounting it on P. C. Board by automatic mounting machine.

Package style of connector	Plastic tape which cope with  JIS C 0806
Automatic mounting machine	One by one system
Soldering	Reflow soldering (Infrared reflow system etc.)



NOTE) Please refer to the drawings attached to the specification for details of dimensions etc.

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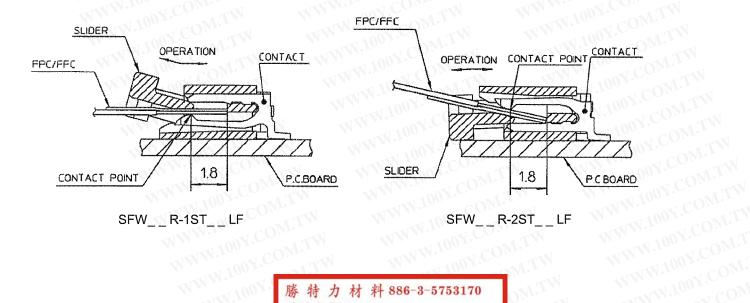
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> PDM: Rev:A STATUS: Released Printed: Nov 28, 2010

NUMBER  GS-20-129	APPLICATION SPECIFICATION	EM.	FC
_	s and Remarks for 1.0mm Pitch	PAGE 2 of 6	REVISION
	/FFC Connector R-1/2STLF	M.YAMASHITA	26 OCT 0
COM.TM MMM.	100X.COM.TW WWW.100X.	CLASSIFICATION UNRESTR	ICTED

#### 2. BASIC OPERATION PROCEDURES OF CONNECTOR

TW V		TW WWW. 100Y.
Works	Nº	Operating Procedure
WTI	2-1	Provide open status by pulling slider
Connecting of conductor	2-2	Match connecting side of conductor to connecting side of connector
Conductor	2-3	Fix temporarily by inserting conductor into card slot
J.CONLTW	2-4	Provide lock status by pressing slider into
WI DIO TY	2-5	Provide open status by pulling slider
Removing of conductor	2-6	Extract conductor to upper slant direction against P.C. Board



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Form E-3334 Rev F GS-01-001

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NUMBER	TYPE		
GS-20-129	APPLICATION SPECIFICATION		rg
TITLE Handling Dr.	and Bemarks for 1 0mm Bitch	PAGE 3 of 6	REVISION
nanuling Pi	ocedures and Remarks for 1.0mm Pitch FPC/FFC Connector	AUTHORIZED BY	DATE
	SFWR-1/2STLF	M.YAMASHITA	26 OCT 09
COM	WWW. 100X COM TW WWW. 100X	CLASSIFICATION UNRESTR	RICTED

Nº	Procedure	Remarks
3-1	Cream Solder Printing Print cream solder with adequate quantity on P.C. B pattern. <recommended cream="" solder=""> • JIS Z 3282 Sn96.5Ag3.0Cu0.5 • Stencil thickness: 0.15 ~ 0.2mm.</recommended>	<ul> <li>Please refer to the drawing attached to the specification for recommended P.C.B pattern dimensions.</li> <li>Please print cream solder with adequate quantity by adjusting thickness of stencil.</li> </ul>
3-2	Mounting on P.C. Board  By using automatic mounting machine (One by one system) which copes with plastic tape, mount the connector on predetermined position on P.C. Board coated with cream solder.	<ul> <li>Please confirm carefully mounting accuracy of automatic mounting machine and dimensional accuracy of P.C.B.</li> <li>Use by selecting adequate one for vacuum nozzle diameter and centering chuck shape of automatic mounting machine.</li> </ul>
3-3	Reflow soldering  1) Soldering method Solder by using reflow bath. <recommended condition="" soldering="">  Peak 255°C  230  Peak 255°C  Peak 250°C  Peak 250°</recommended>	<ul> <li>Please check the reflow soldering condition for your own application beforehand due to different conditions with soldering devices, P.C. Boards, etc.</li> <li>No moisture treatment before reflow process.</li> </ul>
	Recommended reflow temperature profile  Note) Temperature shown above indicates it of contact terminal portion.	勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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Printed: Nov 28, 2010

NUMBER <b>GS-20-129</b>	APPLICATION SPECIFICATION		FC
Handling P	rocedures and Remarks for 1.0mm Pitch FPC/FFC Connector	PAGE 4 of 6 AUTHORIZED BY	REVISION A DATE
	SFW_R-1/2ST_LF	M.YAMASHITA	26 OCT
COMP	MMM. ON COM THE WAY.	CLASSIFICATION UNRESTR	ICTED

Nº	Procedure	Remarks
	Connection of conductor (FPC/FFC)  1) Provide open status by operating slider. In this case, operate both edges of slider by all means. (Slider is fixed by keeping lift up condition on the slant.)  OPERATION  OPERATION  OPERATION	When providing open status by operating slider, operate the both edges parallel until they stop perfectly.
	SFWR-1STLF SFWR-2STLF	<ul> <li>Make conductor vertically against slider by all means at the condition of being slider locked by inserting conductor.</li> </ul>
3-4	3) Insert conductor from the inserting window of	
	connector parallel until it fits against. (In this condition, conductor is fixed temporarily.)  4) After confirming that the conductor is inserted correctly, lock slider. In this case, confirm that both edges are locked securely by operating both edges of	At the condition of being slider locked, adjust so as not to have any gap at connecting portion of slider and main body.
	slider.  OPERATION  OPERATION	
	SFWR-1STLF SFWR-2STLF	Do not put excess force on conductor and connector at the condition of being conductor mated.

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Form E-3334 Rev F

GS-01-001

Printed: Nov 28, 2010

NUMBER GS-20-129	APPLICATION SPECIFICATION	TW	FS
TITLE		PAGE	REVISION
Handling P	rocedures and Remarks for 1.0mm Pitch	5 of 6	A
V Wr.	FPC/FFC Connector	AUTHORIZED BY	DATE
	SFWR-1/2STLF	M.YAMASHITA	26 OCT 09
COMP	MMM. 100X.CO.M.TM MMM. 100X.	CLASSIFICATION UNRESTR	ICTED

Nº	Procedure	Remarks
3-5	Removing of conductor (FPC/FFC)  1) Provide open status by operating slider. In this case, operate both edges of slider by all means. Also, for SFWR-1STLF (Lower contacts type), operate by turning minus driver after putting into the slot for operating fixture.  TURNING EDGE OF (-) DRIVER	Excessive operation may cause breakage of slider.
	Extract conductor to upper slant direction against     P.C.Board.	<ul> <li>Remove conductor after making slider open status perfectly.</li> </ul>

#### 4. OTHER REMARKS

- Do not insert lead other then FFC, FPC, and probe etc. directly into contacting portion.
   Since CIC (Conductor such as silver paste, carbon etc.) can not be used for this product, please consult us separately.
- 2) Do not make any soldering in the condition of being conductor mated.
- 3) Operating force of slider may become larger considerably if number of conductors increase.

#### 5. STORAGE OF CONNECTOR

- Avoid the places where dust, oil and water etc. are splashed or have direct sunshine.
   Solderability may be deteriorated if the connector is stocked for long time under high temperature, high humidity.
- 2) Preferable stock condition

Temperature : Less than 30℃

Humidity : Less than 60% (Relative Humidity)

Period: Within 3 months

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Form E-3334 Rev F GS-01-001

Printed: Nov 28, 2010

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NUMBER	TYPE	W	FC
GS-20-129	APPLICATION SPECIFICATION		
<sup>मामाह</sup> Handlinç	g Procedures and Remarks for 1.0mm Pitch	PAGE 6 of 6	REVISION A
	FPC/FFC Connector	AUTHORIZED BY	DATE
	SFWR-1/2ST LF	M.YAMASHITA	26 OCT (

#### **REVISION RECORD**

REV.	PAGE	DESCRIPTION	ECR#	DATE
V.A	All	New release	J09-0378	26 OCT 09
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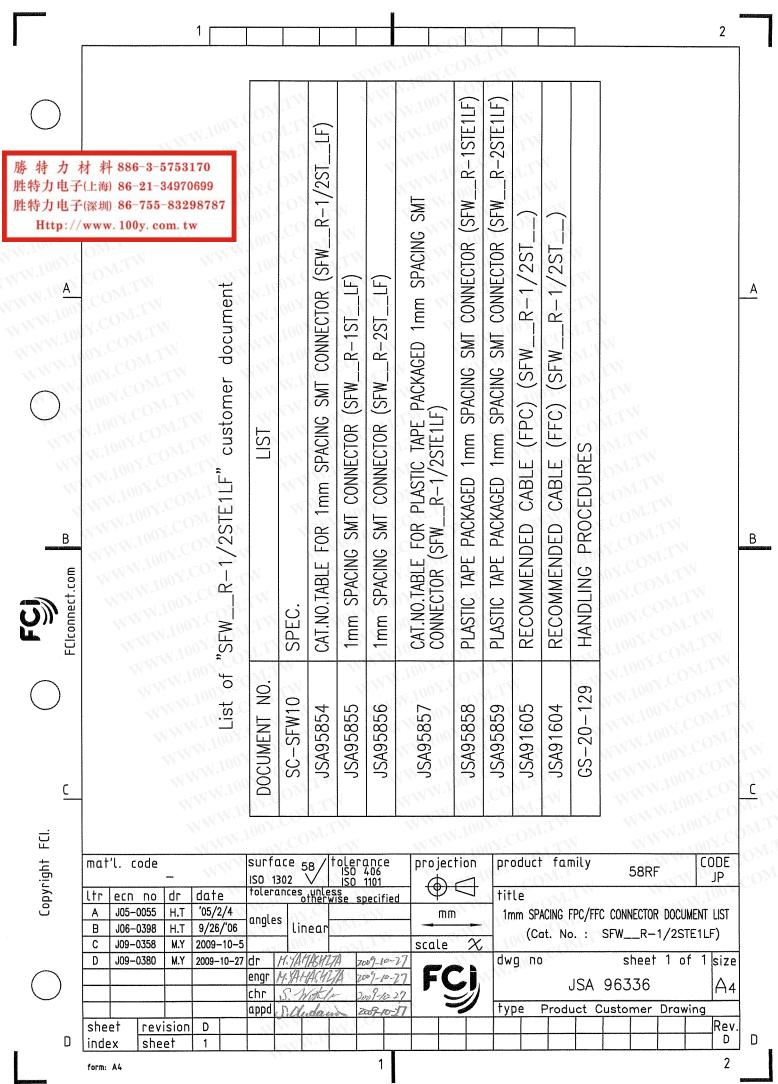
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STATUS: Released

Printed: Nov 01, 2009



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CONTACTS (n)	CAT. NO.	A ± 0.2	B ± 0.2	C ± 0.2	D ± 0.1
4	SFW4R-1/2STLF	9.8	8.6	3.0	5.3
5	SFW5R-1/2STLF	10.8	9.6	4.0	6.3
6	SFW6R-1/2STLF	11.8	10.6	5.0	7.3
7	SFW7R-1/2STLF	12.8	11.6	6.0	8.3
4 . 4 .	A LINE	_			1

CAT. NO. SFW (n) R -1 ST --LF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

- 1. LOWER CONTACT TYPE
- 2. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT)

PACKAGE STYLE

LEAD FREE

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NOTES

- 1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
- 2. SEE PART DRAWINGS FOR DIMENSIONS A~D.

3. A AC SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

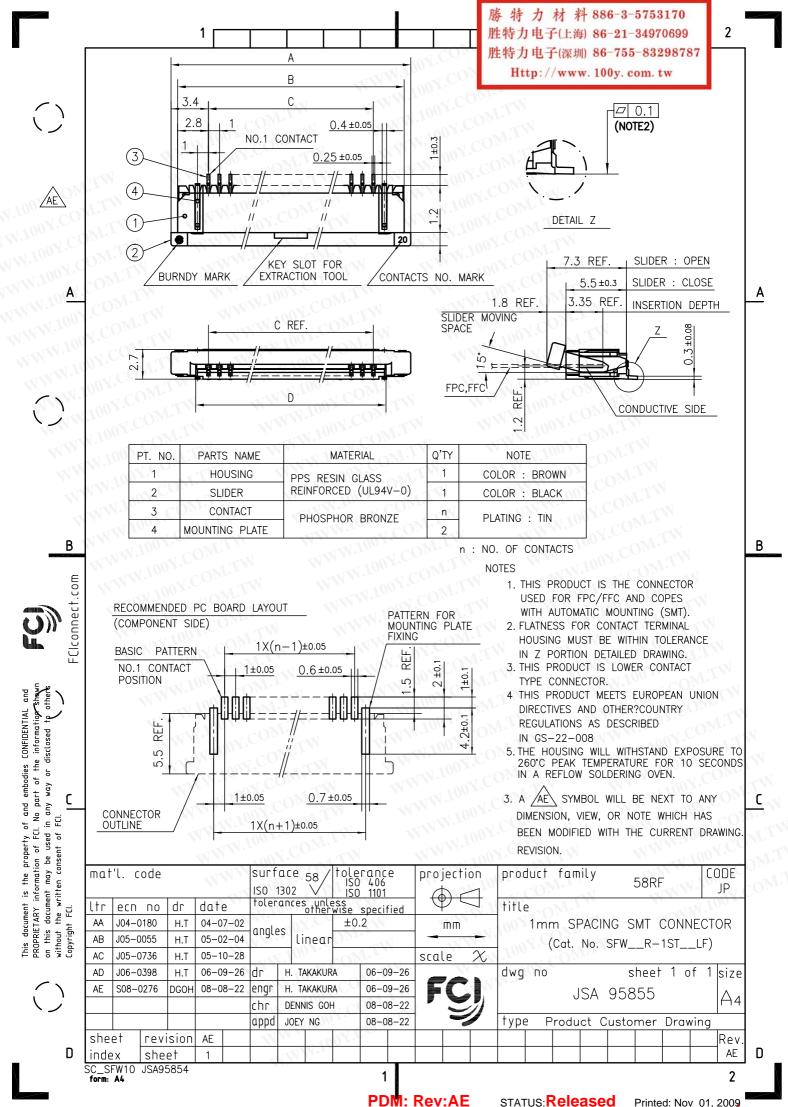
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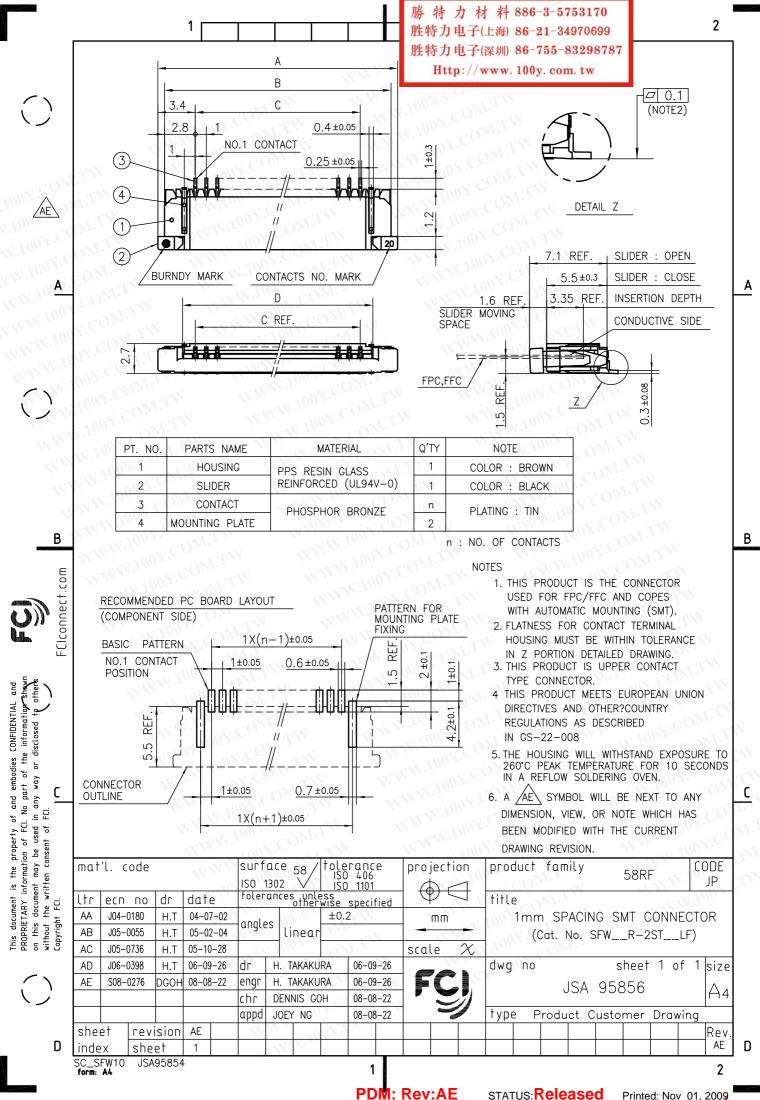
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4	SFW4R-1/2STE1 LF	20.4	16	WW.
5	SFW5R-1/2STE1_LF	28.4	24	J WW
6	SFW6R-1/2STE1 LF	28.4	24	- TXV
7	SFW7R-1/2STE1 LF	28.4	24	11/1
8	SFW8R-1/2STE1 LF	28.4	24	11
9	SFW9R-1/2STE1 LF	28.4	24	
10	SFW10R-1/2STE1 LF	28.4	24	
.11	SFW11R-1/2STE1 LF	28.4	24	_
12	SFW12R-1/2STE1 LF	28.4	24	
13	SFW13R-1/2STE1 LF	36.4	32	28.4
14	SFW14R-1/2STE1 LF	36.4	32	28.4
15	SFW15R-1/2STE1 LF	36.4	32	28.4
16	SFW16R-1/2STE1 LF	36.4	32	28.4
1-17	SFW17R-1/2STE1 LF	48.4	44	40.4
18	SFW18R-1/2STE1 LF	48.4	44	40.4
19	SFW19R-1/2STE1 LF	48.4	44	40.4
20	SFW20R-1/2STE1 LF	48.4	44	40.4
21	SFW21R-1/2STE1 LF	48.4	44	40.4
22	SFW22R-1/2STE1 LF	48.4	44	40.4
23	SFW23R-1/2STE1 LF	48.4	44	40.4
24	SFW24R-1/2STE1 LF	48.4	44	40.4
25	SFW25R-1/2STE1 LF	48.4	44	40.4
26	SFW26R-1/2STE1 LF	48.4	44	40.4
27	SFW27R-1/2STE1 LF	48.4	44	40.4
28	SFW28R-1/2STE1 LF	60.4	56	52.4
29	SFW29R-1/2STE1 LF	60.4	56	52.4
30	SFW30R-1/2STE1 LF	60.4	56	52.4

CAT. NO. SFW (n) R = 1 ST E1 SERIES NAME NO. OF CONTACTS RIGHT ANGLE TYPE FOR FPC/FFC, CONTACT DIRECTION 1. LOWER CONTACT TYPE 2. UPPER CONTACT TYPE FOR AUTOMATIC MOUNTING (SMT) TAPE PACKAGING LEAD FREE

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NOTES

- 1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
- 2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
- 3. SEE PART DRAWINGS FOR DIMENSIONS E~G.

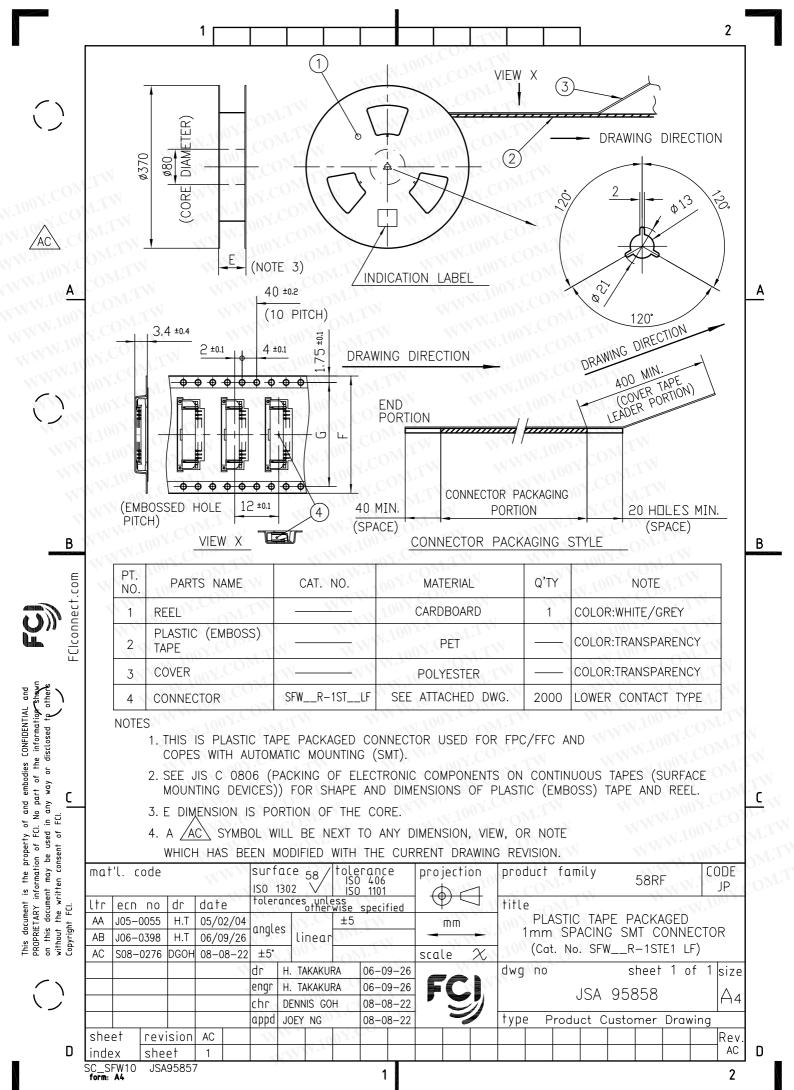
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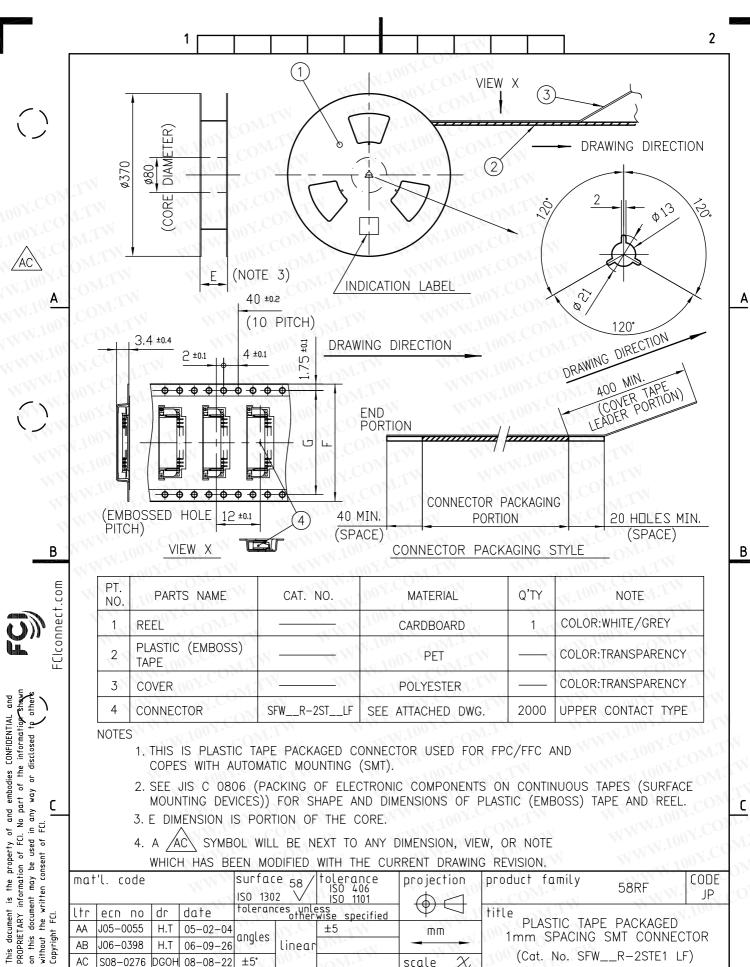
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- 3. E DIMENSION IS PORTION OF THE CORE.
- SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

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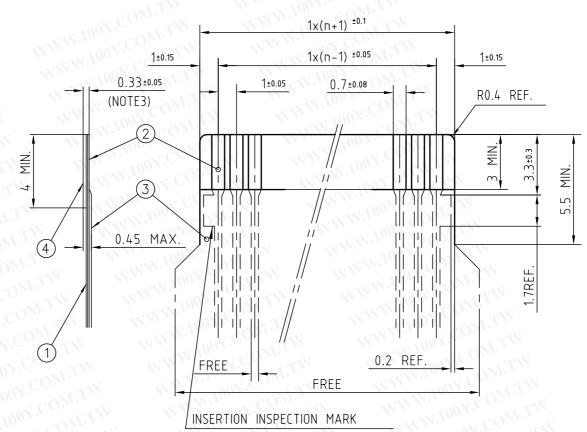
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В

RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTOR



PT. NO.	PARTS NAME	MATERIAL	THICKNESS (um)
1,10	BASE FILM	POLYIMIDE OR POLYESTER OR EQUAL	25
2	CONDUCTOR	COPPER FOIL(PLATING:SOLDER 1um MIN.)	35 W
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUAL	1007.COM.TW
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUAL	188

NOTES

- 1. NO BURR AT EACH PORTION.
- 2. NO PEELING IN COMMON USE.
- 3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.
- 4. A AC SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

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AB	J06-0398	H.T	06-09-26	ungte	l	inear	LOW.		J	TIN NO.			(Cat. No. SFWR-1/2_					/2	_)		
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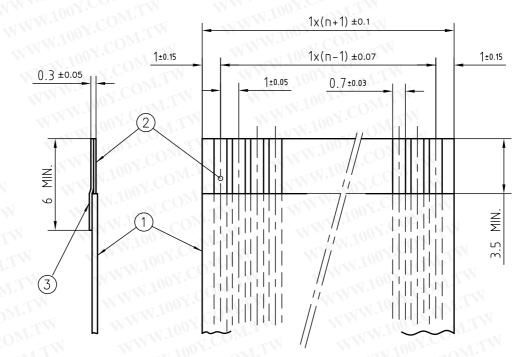
PDM: Rev:AC

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787

Http://www.100y.com.tw

RECOMMENDED CABLE (FFC)

n: NO. OF CONDUCTOR



PT. NO.	PARTS NAME	MATERIAL	NOTE
WW 100	INSULATOR	FLAME RESISTING POLYESTER OR EQUAL	WWW.roov.COM.TW
2	CONDUCTOR	COPPER FOIL	PLATING:TIN OR SOLDER 1um MIN.
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUAL	WWW.100X.CO.

NOTES

- 1. NO BURR AT EACH PORTION.
  - 2. NO PEELING IN COMMON USE.
  - 3. A AC SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

mat	mat'l. code			surface 58/tolerance ISO 406					project	tion	product family					58F	ODE			
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AB	J06-0398	H.T	06-09-26	ungte	<u> </u>	inear	near			41	(Cat. No. SFWR-1/2)									
AC	S08-0276	DGOH	08-08-22		1.10	Or.		$V_{i,I}$	- 1	scale	$\chi$	100		OM	. r .					
			V	dr	Н.	TAKAKU	RA	06-09-	-26		N N	dwg	по			S	heet	1 o	f 1	size
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