

Configuration of Documents

P/N	Documents	No.	Title	CAT.No.
SFW_S-2ST(M)E9LF	Specification	SC-SFWS03		
	Connector dwg.	JSA96516	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR	SFW__S-2ST__LF
		JSA96517	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR	SFW__S-2ST__LF
		JSA96518	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR	SFW__S-2STM__LF
		JSA97526	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.	SFW__S-2ST_E9LF
SFW_S-6ST(M)E9LF	Cable dwg.	JSA97527	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR	SFW__S-2ST_E9LF
		JSA93340	RECOMMENDED CABLE	SFW__S-2ST__LF
		JSA93341	RECOMMENDED CABLE	SFW__S-2ST__LF
	Manual	BJM-SFWS101		
	Specification	SC-SFWS04		
	Connector dwg.	JSA96521	CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR	SFW__S-6ST__LF
		JSA96522	1mm SPACING SURFACE MOUNT CIC CONNECTOR	SFW__S-6ST__LF
		JSA96523	1mm SPACING SURFACE MOUNT CIC CONNECTOR	SFW__S-6STM__LF
		JSA97528	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.	SFW__S-6ST_E9LF
		JSA97529	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR	SFW__S-6ST_E9LF
	Cable dwg.	JSA93904	RECOMMENDED CABLE	SFW__S-6ST__LF
	Manual	BJM-SFWS102		

mat'l. code		surface 58		tolerance		projection		product family		58SF		CODE	
ltr	ecn no	dr	date	ISO 1302	ISO 406	ISO 1101	ISO 1101	product family	58SF	JP			
A	J09-0202	M.Y	2009-5-25	tolerances unless otherwise specified		linear		SFW_S Documents Configuration		(1mm Spacing connector)			
angles		linear		scale		mm		dwg no		sheet 1 of 1		size	
								JSA97525		A4			
dr		engr		chr		appd		type		Product Customer Drawing		Rev.	
												A	
sheet index		revision		sheet		sheet							
A		1											

CAT. NO. & DIMENSIONS

NOTE3	NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)		
			A ±0.2	B ±0.2	C ±0.2
	4	SFW4S-2ST__LF	10.4	5.24	3
	5	SFW5S-2ST__LF	11.4	6.24	4
	6	SFW6S-2ST__LF	12.4	7.24	5
*	7	SFW7S-2ST__LF	13.4	8.24	6
	8	SFW8S-2ST__LF	14.4	9.24	7
*	9	SFW9S-2ST__LF	15.4	10.24	8
	10	SFW10S-2ST__LF	16.4	11.24	9
	11	SFW11S-2ST__LF	17.4	12.24	10
*	12	SFW12S-2ST__LF	18.4	13.24	11
	13	SFW13S-2ST__LF	19.4	14.24	12
	14	SFW14S-2ST__LF	20.4	15.24	13
	15	SFW15S-2ST__LF	21.4	16.24	14
	16	SFW16S-2ST__LF	22.4	17.24	15
	17	SFW17S-2ST__LF	23.4	18.24	16
*	18	SFW18S-2ST__LF	24.4	19.24	17
*	19	SFW19S-2ST__LF	25.4	20.24	18
	20	SFW20S-2ST__LF	26.4	21.24	19
*	21	SFW21S-2ST__LF	27.4	22.24	20
	22	SFW22S-2ST__LF	28.4	23.24	21
	23	SFW23S-2ST__LF	29.4	24.24	22
	24	SFW24S-2ST__LF	30.4	25.24	23
*	25	SFW25S-2ST__LF	31.4	26.24	24
	26	SFW26S-2ST__LF	32.4	27.24	25
*	27	SFW27S-2ST__LF	33.4	28.24	26
	28	SFW28S-2ST__LF	34.4	29.24	27
	29	SFW29S-2ST__LF	35.4	30.24	28
	30	SFW30S-2ST__LF	36.4	31.24	29
*	31	SFW31S-2ST__LF	37.4	32.24	30
*	32	SFW32S-2ST__LF	38.4	33.24	31

CAT. NO. SFW (n) S - 2 ST - - - LF

SERIES

NO. OF CONTACTS

STRAIGHT TYPE

FOR FPC / FFC

VARIATION

STM : FOR AUTOMATIC MOUNTING (SMT)
WITH MOUNTING PLATE

ST : FOR AUTOMATIC MOUNTING (SMT)
WITHOUT MOUNTING PLATE

PACKAGE STYLE

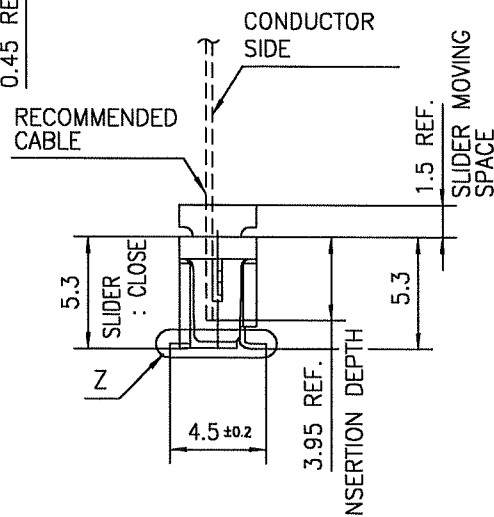
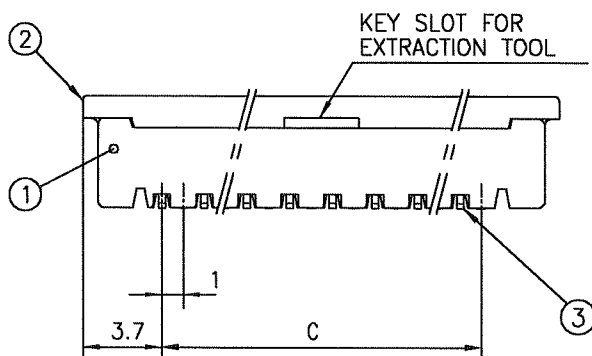
LEAD FREE

NOTES

- THIS PRODUCT IS THE CONNECTOR, DESIGNED TO TERMINATE FPC/FFC AND COPER WITH AUTOMATIC MOUNTING (SMT).
- SEE PART DRAWINGS FOR DIMENSIONS A.B.C.
- PLEASE CONSULT US IN CASE OF USING PARTS WITH * MARK

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101		projection		product family 58SF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (CAT.No.SFW__S-2ST__LF)			
A	J05-0377	H.T	2005-6-22	angles	linear						
B	J05-0547	H.T	2005-8-30			scale X		dwg no sheet 1 of 1 size JSA 96516 A4			
C	J06-0430	H.T	2006-10-19								
D	J07-0407	H.T	2007-8-9	dr	engr	FCI		type Product Customer Drawing			
				chr	appd						
sheet index	revision	D	1								Rev. D

SC-SFWS 03 JSA96517 96518 96519 96520 93340 93341
form: A4



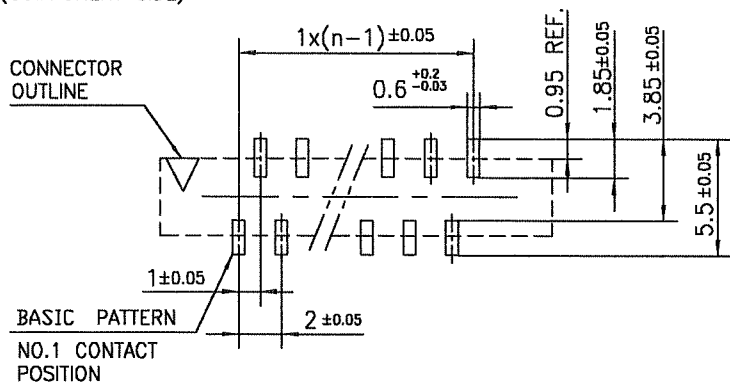
PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	GLASS FILLED THERMOPLASTIC RATED. (UL94V-0)	1	COLOR : BROWN
2	SLIDER		1	COLOR : BLACK
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN Ni UNDER PLATED(LEAD FREE)

n : NO. OF CONTACTS

NOTES

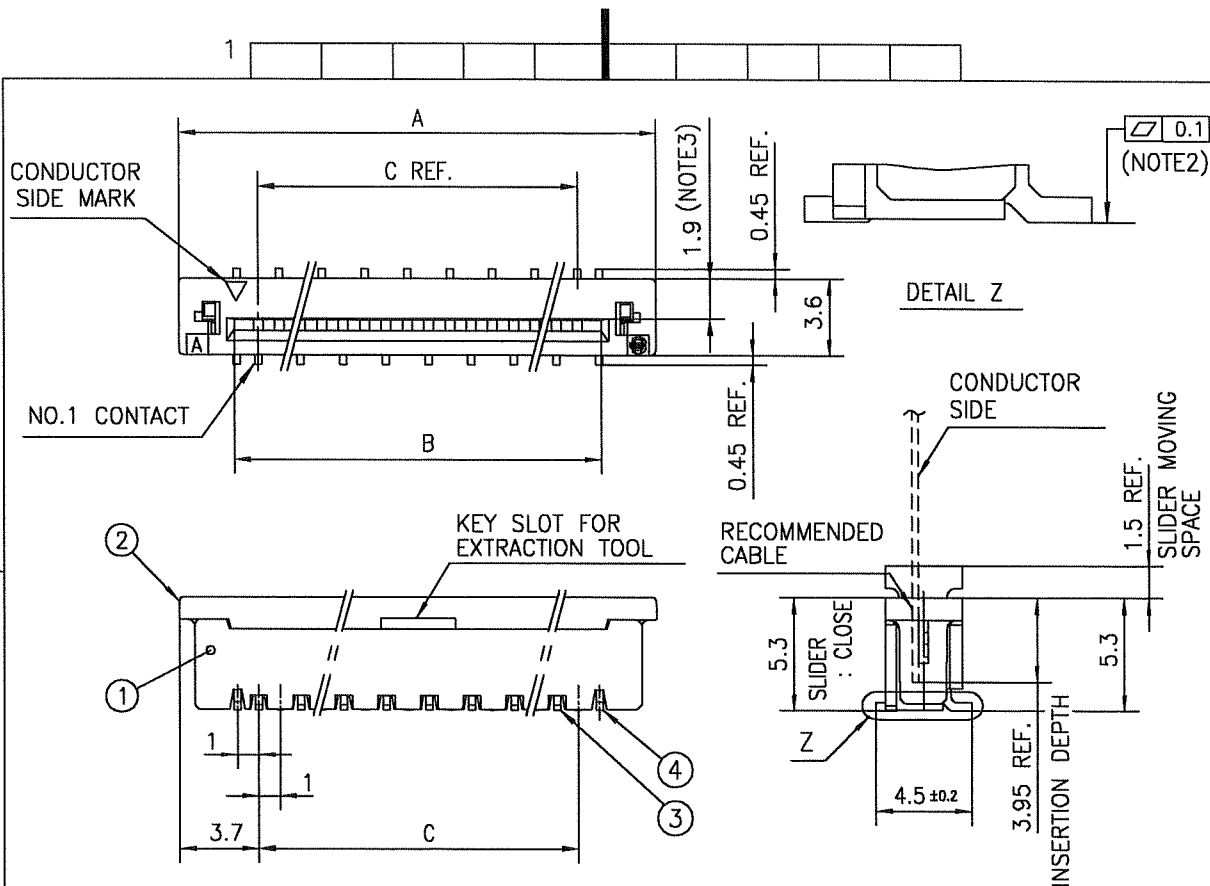
1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS DIMENSION IS SPACE FOR THE NOZZLE OF MOUNTER.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



mat'l. code				surface 58	tolerance	projection	product family	58SF	CODE
				ISO 1302	ISO 406				JP
				tolerances unless otherwise specified					
ltr	ecn no	dr	date	angles	linear	mm	title		
A	J05-0377	H.T	6/22/05				1mm SPACING SURFACE MOUNT		
B	J05-0731	H.T	10/28/05				FPC/FFC CONNECTOR		
C	J06-0430	H.T	10/19/06				(CAT.No.SFW__S-2ST__LF)		
				dr	10/19/06	FCI	dwg no		sheet 1 of 1
				enr	10/19/06		JSA 96517		size
				chr	10/19/06				A4
				appd	10/19/06		type Product Customer Drawing		
sheet index	revision	C							Rev
	sheet	1							c

SC-SFWS 03 JSA96516
form: A4



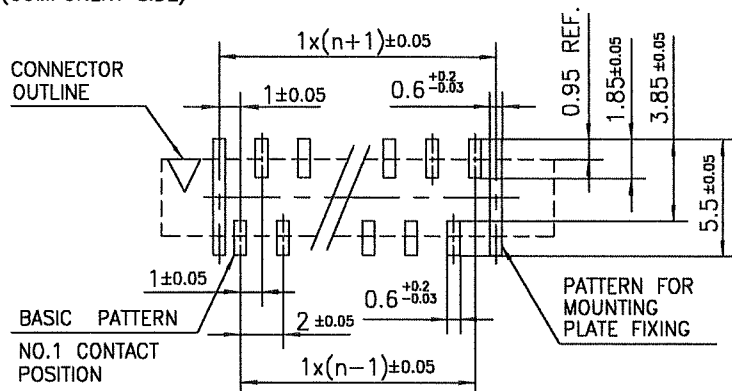
PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	GLASS FILLED THERMOPLASTIC RATED. (UL94V-0)	1	COLOR : BROWN
2	SLIDER		1	COLOR : BLACK
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN Ni UNDER PLATED(LEAD FREE)
4	MOUNTING PLATE	BRASS	2	

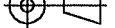
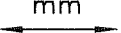
n : NO. OF CONTACTS

NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPS WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS DIMENSION IS SPACE FOR THE NOZZLE OF MOUNTER.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



mat'l. code				surface 58 ☒ tolerance ISO 406		projection 	product family 58SF		CODE JP		
				ISO 1302 ☒ ISO 1101							
ltr	ecn no	dr	date	tolerances unless otherwise specified				title 1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (CAT.No.SFW__S-2STM__LF)			
A	J05-0377	H.T	6/22/05	angles	linear	±0.2					
B	J05-0731	H.T	10/28/05								
C	J06-0430	H.T	10/19/06			scale $\propto$	dwg no sheet 1 of 1 size A4				
				dr	<i>K. Shoupe</i> 10/19/06						
				enr	<i>K. Shoupe</i> 10/19/06						
				chr	<i>K. Shoupe</i> 10/19/06						
				appd	<i>J. Dacore</i> 10/20/06						
sheet index	revision sheet	C 1								Rev. c	

SC-SFWS 03 JSA96516
form: A4

CAT. NO. & DIMENSIONS

(NOTE4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
			D MAX.	E ± 0.3	F ± 0.1
	4	SFW4S-2ST_E9LF	30.4	24	—
	5	SFW5S-2ST_E9LF	30.4	24	—
	6	SFW6S-2ST_E9LF	30.4	24	—
*	7	SFW7S-2ST_E9LF	30.4	24	—
	8	SFW8S-2ST_E9LF	30.4	24	—
*	9	SFW9S-2ST_E9LF	30.4	24	—
	10	SFW10S-2ST_E9LF	30.4	24	—
	11	SFW11S-2ST_E9LF	30.4	24	—
*	12	SFW12S-2ST_E9LF	38.4	32	28.4
	13	SFW13S-2ST_E9LF	38.4	32	28.4
	14	SFW14S-2ST_E9LF	38.4	32	28.4
	15	SFW15S-2ST_E9LF	38.4	32	28.4
	16	SFW16S-2ST_E9LF	50.4	44	40.4
	17	SFW17S-2ST_E9LF	50.4	44	40.4
*	18	SFW18S-2ST_E9LF	50.4	44	40.4
*	19	SFW19S-2ST_E9LF	50.4	44	40.4
	20	SFW20S-2ST_E9LF	50.4	44	40.4
*	21	SFW21S-2ST_E9LF	50.4	44	40.4
	22	SFW22S-2ST_E9LF	50.4	44	40.4
	23	SFW23S-2ST_E9LF	50.4	44	40.4
	24	SFW24S-2ST_E9LF	50.4	44	40.4
*	25	SFW25S-2ST_E9LF	50.4	44	40.4
	26	SFW26S-2ST_E9LF	50.4	44	40.4
*	27	SFW27S-2ST_E9LF	62.4	56	52.4
	28	SFW28S-2ST_E9LF	62.4	56	52.4
	29	SFW29S-2ST_E9LF	62.4	56	52.4
	30	SFW30S-2ST_E9LF	62.4	56	52.4
*	31	SFW31S-2ST_E9LF	62.4	56	52.4
*	32	SFW32S-2ST_E9LF	62.4	56	52.4

CAT. NO. SFW (n) S - 2 ST_ _ _ LF

SERIES

NO. OF CONTACTS

STRAIGHT TYPE

FOR FPC / FFC

VARIATION

STM:FOR AUTOMATIC MOUNTING (SMT)
WITH MOUNTING PLATE

ST:FOR AUTOMATIC MOUNTING (SMT)
WITHOUT MOUNTING PLATE

PACKAGE STYLE

LEAD FREE

NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COTES WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS D~F.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH * MARK.

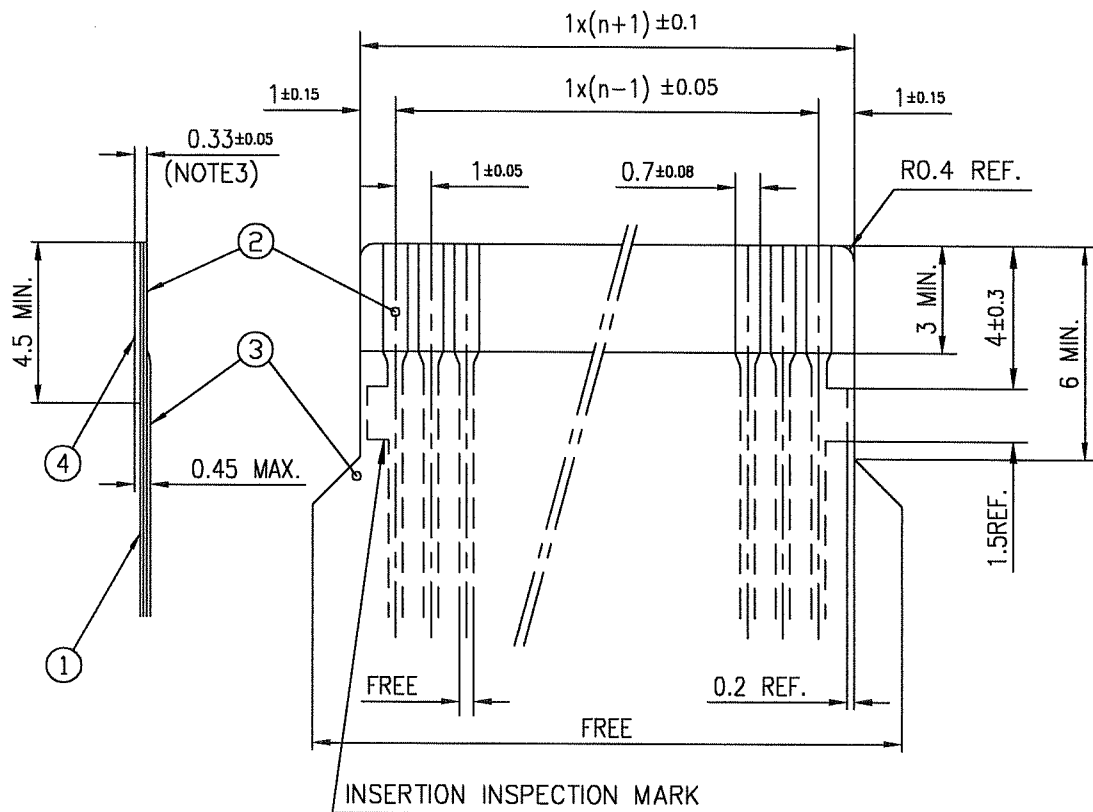
mat'l. code				surface 58 / tolerance ISO 1302 406 ISO 1101		projection		product family 58SF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title CAT NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (CAT.No.SFW__S-2ST_E9LF)			
A	J09-0202	M.Y	2009-5-25	angles	linear						
				dr	H.YAMASHITA	2009-5-25	FCI		dwg no sheet 1 of 1 size JSA 97526 A4		
				engr	H.YAMASHITA	2009-5-25					
				chr	S. Nishida	2009-5-25					
				appd	S. Nishida	2009-5-25					
sheet index		revision sheet	A 1					type Product Customer Drawing		Rev. A	



mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58SF				CODE JP			
ltr				ecn no		dr		date		tolerances unless otherwise specified		title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__S-2ST_E9LF)					
A				J09-0202		M.Y		2009-5-25		angles ±5		mm 					
										Linear		scale $\propto$					
										±5°							
				dr		H. YAMAGUCHI		2009-5-25				dwg no		sheet 1 of 1		size	
				enrg		H. YAMAGUCHI		2009-5-25				JSA 97527				A4	
				chr		S. Watanabe		2009-5-25									
				appd		J. Okada		2009-5-25									
sheet index		revision		A												Rev. A	
		sheet		1													

RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	THICKNESS (μm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUIVALENT	25
2	CONDUCTOR	COPPER FOIL(PLATING : SOLDER $1\mu\text{m}$ MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	—
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUIVALENT	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.

mat'l. code				surface 58 / tolerance ISO 406 / ISO 1302 ✓ / ISO 1101		projection		product family 58SF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				title			
AA	J04-0333	H.T	Oct.13,'04			mm		RECOMMENDED CABLE			
AB	J06-0430	H.T	10/19/06	angles	linear			(CAT.No.SFW__S-2ST__)			
				dr	10/19/06		dwg no		sheet 1 of 1		size
				enr	10/19/06		JSA 93340				A4
				chr	10/19/06		type		Product Customer Drawing		
				appd	10/20/06						
sheet index	revision	AB	1							Rev. AB	

form: A4

1

2

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUIVALENT	_____
2	CONDUCTOR	COPPER FOIL	PLATING: TIN OR SOLDER 1μm MIN.
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUIVALENT	_____

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.

mat'l. code				surface 5B / tolerance ISO 406 ISO 1101		projection		product family 58SF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
AA	J04-0333	H.T	06/13/04					RECOMMENDED CABLE			
AB	J06-0430	H.T	10/19/06	angles linear		scale X		(CAT.No.SFW__S-2ST__)			
				dr		10/19/06		dwg no		sheet 1 of 1 size	
				enr		10/19/06		JSA 93341		A4	
				chr		10/19/06		type		Product Customer Drawing	
				appd		10/20/06					
sheet index		revision sheet		AB						Rev. AB	

form: A4

1

2