

A

C

D

mat'l. code				surface				tolerance				projection				product family			
—				ISO 1302				ISO 406 ISO 1101								58EF			
ltr	ecn no	dr	date	tolerances unless				otherwise specified								title			
A	J11-0117	S.W	2011-5-20	angles				linear											
B	ELX-J-32839	S.W	2019-3-6									scale N/A				(Cat. No. : SFV__R-1/2STE5HLF)			
				dr	S.WATANABE			2019-3-6							dwg no				
				engr	S.WATANABE			2019-3-6											
				chr	S-H.THIO			2019-3-7											
				appd	Y.KAMEDA			2019-3-7											
sheet index	revision sheet	B	B	B	B	B	B	B	B	B				sheet 1 of 9				size	
		1	2	3	4	5	6	7	8	9				10118252				A4	
														type Product Customer Drawing					

List of "SFV\_\_R-1/2STE5HLF" customer document

DOCUMENT NO.	LIST
GS-12-645	SPEC.
10118252 Sheet2	CAT.NO.TABLE FOR 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2ST_HLF)
10118252 Sheet3	CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-1ST_HLF)
10118252 Sheet4	CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-2ST_HLF)
10118252 Sheet5	CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2STE5HLF)
10118252 Sheet6	PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1STE5HLF)
10118252 Sheet7	PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-2STE5HLF)
10118252 Sheet8	RECOMMENDED CABLE (FPC) (SFV__R-1/2ST_LF)
10118252 Sheet9	RECOMMENDED CABLE (FFC) (SFV__R-1/2ST_LF)
BJM-SFV101	HANDLING PROCEDURES

A

B

C

D

## CAT. NO. &amp; DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)			
		A ± 0.2	B ± 0.2	C ± 0.1	D ± 0.1
4	SFV4R-1/2ST__HLF	7.5	5.9	1.5	2.7
5	SFV5R-1/2ST__HLF	8.0	6.4	2.0	3.2
6	SFV6R-1/2ST__HLF	8.5	6.9	2.5	3.7
7	SFV7R-1/2ST__HLF	9.0	7.4	3.0	4.2
8	SFV8R-1/2ST__HLF	9.5	7.9	3.5	4.7
9	SFV9R-1/2ST__HLF	10.0	8.4	4.0	5.2
10	SFV10R-1/2ST__HLF	10.5	8.9	4.5	5.7
11	SFV11R-1/2ST__HLF	11.0	9.4	5.0	6.2
12	SFV12R-1/2ST__HLF	11.5	9.9	5.5	6.7
13	SFV13R-1/2ST__HLF	12.0	10.4	6.0	7.2
14	SFV14R-1/2ST__HLF	12.5	10.9	6.5	7.7
15	SFV15R-1/2ST__HLF	13.0	11.4	7.0	8.2
16	SFV16R-1/2ST__HLF	13.5	11.9	7.5	8.7
17	SFV17R-1/2ST__HLF	14.0	12.4	8.0	9.2
18	SFV18R-1/2ST__HLF	14.5	12.9	8.5	9.7
19	SFV19R-1/2ST__HLF	15.0	13.4	9.0	10.2
20	SFV20R-1/2ST__HLF	15.5	13.9	9.5	10.7
21	SFV21R-1/2ST__HLF	16.0	14.4	10.0	11.2
22	SFV22R-1/2ST__HLF	16.5	14.9	10.5	11.7
23	SFV23R-1/2ST__HLF	17.0	15.4	11.0	12.2
24	SFV24R-1/2ST__HLF	17.5	15.9	11.5	12.7
25	SFV25R-1/2ST__HLF	18.0	16.4	12.0	13.2
26	SFV26R-1/2ST__HLF	18.5	16.9	12.5	13.7
27	SFV27R-1/2ST__HLF	19.0	17.4	13.0	14.2
28	SFV28R-1/2ST__HLF	19.5	17.9	13.5	14.7
29	SFV29R-1/2ST__HLF	20.0	18.4	14.0	15.2
30	SFV30R-1/2ST__HLF	20.5	18.9	14.5	15.7
31	SFV31R-1/2ST__HLF	21.0	19.4	15.0	16.2
32	SFV32R-1/2ST__HLF	21.5	19.9	15.5	16.7
33	SFV33R-1/2ST__HLF	22.0	20.4	16.0	17.2
34	SFV34R-1/2ST__HLF	22.5	20.9	16.5	17.7
35	SFV35R-1/2ST__HLF	23.0	21.4	17.0	18.2

CAT. NO.      SFV    (n)    R    - 1    ST    \_\_    HLF

SERIES NAME      SFV

NO. OF CONTACTS      (n)

RIGHT ANGLE TYPE      R

FOR FPC/FFC, CONTACT DIRECTION      - 1

1. LOWER CONTACT TYPE

2. UPPER CONTACT TYPE

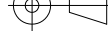


FOR AUTOMATIC MOUNTING (SMT)      ST

PACKAGE STYLE      \_\_

HALOGEN and LEAD FREE      HLF

## NOTES

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

mat'l. code —				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58EF									
ltr	ecn no	dr	date	tolerances unless		otherwise specified				title CAT. NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2ST__HLF)									
B				angles	linear														
								scale N/A		dwg no sheet 2 of 9 10118252 size A4									
				dr	S.WATANABE	2019-3-6													
				engr	S.WATANABE	2019-3-6													
				chr	S-H.THIO	2019-3-7													
				appd	Y.KAMEDA	2019-3-7				type Product Customer Drawing									
sheet index	revision sheet																		

B

B

## C



1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR
3. FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN E PORTION DETAILED DRAWING.
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.

D

2.9

C

2.2±0.15

0.5±0.05

0.18±0.05

0.18±0.08

0.6±0.3

0.7 REF.

4.2±0.3

4.9±0.4

1.4

0.5±0.1

NO.1 CONTACT

3

4

2

3

1

A

B

D

C REF.

1.8+0.2-0.1

SLIDER MOVING SPACE

1.4 REF.

2.7

INSERTION DEPTH

CONDUCTIVE SIDE

FPC

E

0.2±0.08

0.96 REF.

DETAIL E

0.1

(NOTE3)

PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0) 4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : THIN TIN
4	MOUNTING PLATE		2	PLATING : LEAD FREE

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT  
(COMPONENT SIDE)

PATTERN FOR MOUNTING PLATE FIXING

BASIC PATTERN  
NO.1 CONTACT POSITION

CONNECTOR OUTLINE

6.2+0.5x(n-1)±0.05

0.5x(n-1)±0.05

0.2 REF.

0.3±0.05

0.4 REF.

0.6±0.05

1.4±0.05

0.7±0.05

1.4±0.05

2.65±0.05

2.3±0.05

1.1±0.05

0.5±0.05

3.1±0.05

0.5±0.03

NOTES

1.THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPS WITH AUTOMATIC MOUNTING (SMT).

2.THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR.

3.FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN E PORTION DETAILED DRAWING.

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.

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58EF			
ltr	ecn no	dr	date	tolerances unless otherwise specified				MM		title CONNECTOR USED FOR FPC WITH 0.5 mm CONTACT SPACING (Cat. No. : SFV__R-2ST__HLF)			
B				angles	linear ±0.2								
				dr	S.WATANABE	2019-3-6		Amphenol FCI		dwg no 10118252 sheet 4 of 9 size A4			
				enr	S.WATANABE	2019-3-6							
				chr	S-H.THIO	2019-3-7							
				app	Y.KAMEDA	2019-3-7							
sheet index		revision sheet						type Product Customer Drawing					

Downloaded from Arrow.com

PDS: Rev :B

STATUS:Released

Printed: Mar 07, 2019

1

2

## CAT. NO. &amp; DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE3)		
		F MAX.	G ± 0.3	H ± 0.1
4	SFV4R-1/2STE5HLF	22.4	16	—
5	SFV5R-1/2STE5HLF	22.4	16	—
6	SFV6R-1/2STE5HLF	22.4	16	—
7	SFV7R-1/2STE5HLF	30.4	24	—
8	SFV8R-1/2STE5HLF	30.4	24	—
9	SFV9R-1/2STE5HLF	30.4	24	—
10	SFV10R-1/2STE5HLF	30.4	24	—
11	SFV11R-1/2STE5HLF	30.4	24	—
12	SFV12R-1/2STE5HLF	30.4	24	—
13	SFV13R-1/2STE5HLF	30.4	24	—
14	SFV14R-1/2STE5HLF	30.4	24	—
15	SFV15R-1/2STE5HLF	30.4	24	—
16	SFV16R-1/2STE5HLF	30.4	24	—
17	SFV17R-1/2STE5HLF	30.4	24	—
18	SFV18R-1/2STE5HLF	30.4	24	—
19	SFV19R-1/2STE5HLF	30.4	24	—
20	SFV20R-1/2STE5HLF	30.4	24	—
21	SFV21R-1/2STE5HLF	30.4	24	—
22	SFV22R-1/2STE5HLF	30.4	24	—
23	SFV23R-1/2STE5HLF	38.4	32	28.4
24	SFV24R-1/2STE5HLF	38.4	32	28.4
25	SFV25R-1/2STE5HLF	38.4	32	28.4
26	SFV26R-1/2STE5HLF	38.4	32	28.4
27	SFV27R-1/2STE5HLF	38.4	32	28.4
28	SFV28R-1/2STE5HLF	38.4	32	28.4
29	SFV29R-1/2STE5HLF	38.4	32	28.4
30	SFV30R-1/2STE5HLF	38.4	32	28.4
31	SFV31R-1/2STE5HLF	50.4	44	40.4
32	SFV32R-1/2STE5HLF	50.4	44	40.4
33	SFV33R-1/2STE5HLF	50.4	44	40.4
34	SFV34R-1/2STE5HLF	50.4	44	40.4
35	SFV35R-1/2STE5HLF	50.4	44	40.4

CAT. NO.

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 FOR E5 (2500pcs PER REEL)

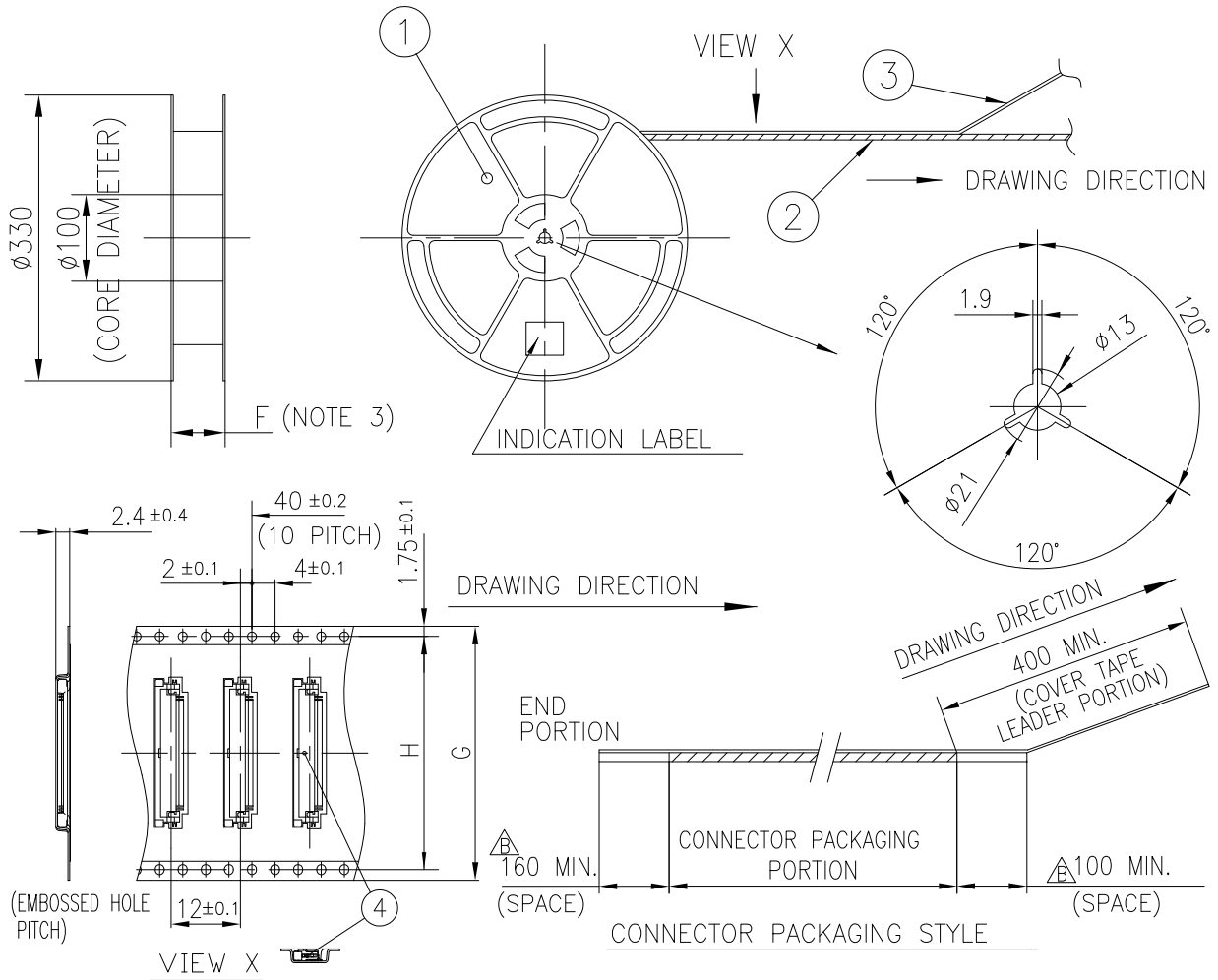
LEAD AND HALOGEN FREE

## NOTES

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

mat'l. code				surface		tolerance		projection		product family										
—				ISO 1302		ISO 406 ISO 1101				58EF										
ltr	ecn no	dr	date	tolerances unless		otherwise specified				title CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2STE5HLF)										
B				angles	linear															
								scale N/A												
				dr	S.WATANABE		2019-3-6				dwg no						sheet 5 of 9		size	
				engr	S.WATANABE		2019-3-6				10118252						A4			
				chr	S-H.THIO		2019-3-7													
				appd	Y.KAMEDA		2019-3-7													
sheet index		revision sheet																		

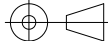


TOLERANCES  
UNLESS OTHERWISE SPECIFIED :  $\pm 5$ , ANGLE  $\pm 5^\circ$



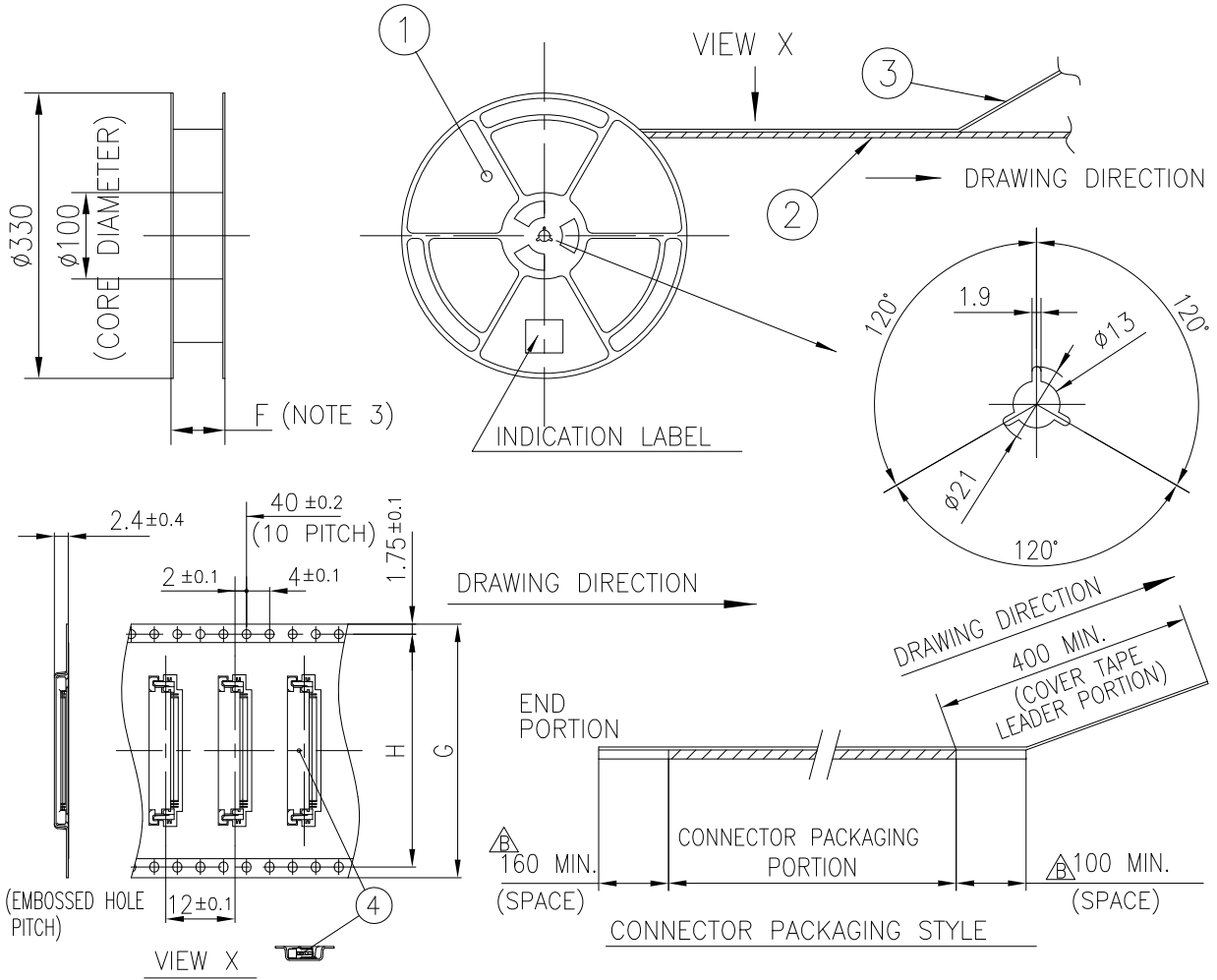
PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL		POLYSTYRENE	1	COLOR : BLACK or WHITE
2	PLASTIC (EMBOSS) TAPE		PS or A-PET		COLOR : TRANSPARENCY
3	COVER		POLYESTER,POLYETHYLENE		COLOR : TRANSPARENCY
4	CONNECTOR	SFV__R-1ST__HLF	SEE SHEET 3	2500	LOWER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSS) TAPE AND REEL.
- F DIMENSION IS PORTION OF THE CORE.

mat'l. code —				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58EF									
ltr	ecn no	dr	date	tolerances unless		otherwise specified			title PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1STE5HLF)										
B				angles	linear	±5	scale N/A		dwg no sheet 6 of 9 10118252 size A4										
				dr	S.WATANABE	2019-3-6			type Product Customer Drawing										
				engr	S.WATANABE	2019-3-6													
				chr	S-H.THIO	2019-3-7													
				appd	Y.KAMEDA	2019-3-7													
sheet index		revision																	
		sheet																	




TOLERANCES  
UNLESS OTHERWISE SPECIFIED :  $\pm 5$ , ANGLE  $\pm 5^\circ$



PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	POLYSTYRENE	1	COLOR : BLACK or WHITE
2	PLASTIC (EMBOSS) TAPE	_____	$\Delta$ PS or A-PET	_____	COLOR : TRANSPARENCY
3	COVER	_____	$\Delta$ POLYESTER, POLYETHYLENE	_____	COLOR : TRANSPARENCY
4	CONNECTOR	SFV__R-2ST__HLF	SEE SHEET 4	2500	UPPER CONTACT TYPE

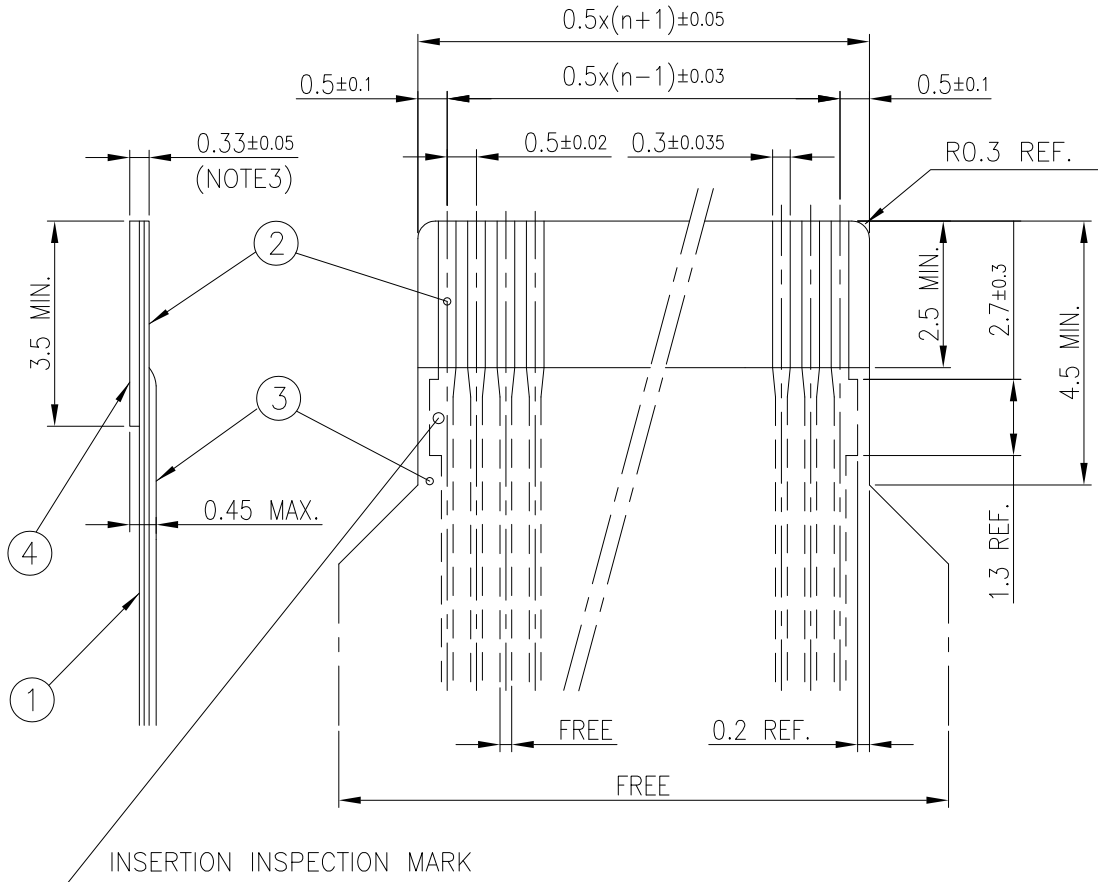
NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSS) TAPE AND REEL.
- F DIMENSION IS PORTION OF THE CORE.

mat'l. code —				surface 58/ISO 1302			tolerance ISO 406 ISO 1101			projection 			product family 58EF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
ltr	ecn no		dr	date			tolerances unless otherwise specified						title PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-2STE5HLF)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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# RECOMMENDED CABLE (FPC)

n : NO. OF CONTACTS



PT. NO.	PARTS NAME	MATERIAL	THICKNESS (um)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUAL	25
2	CONDUCTOR	COPPER FOIL(PLATING : TIN or SOLDER 1um MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUAL	—
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUAL	188

## NOTES

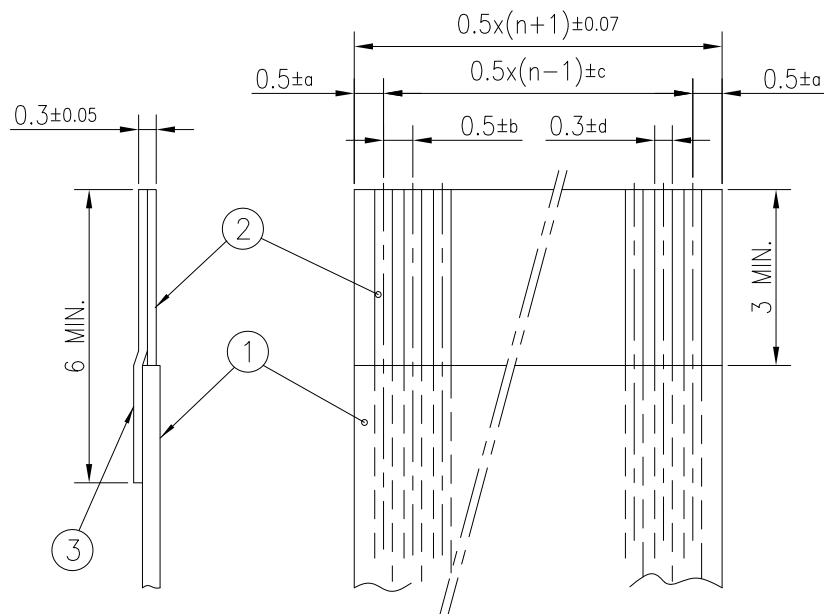
1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.

mat'l. code				surface	tolerance		projection	product family			
—				ISO 1302	ISO 406	ISO 1101	⊕	58EF			
ltr	ecn no	dr	date	tolerances unless otherwise specified			MM	title			
B				angles	linear		← →	RECOMMENDED CABLE			
							scale N/A	(Cat. No. : SFV__R-1/2ST__LF)			
				dr	S.WATANABE	2019-3-6	Amphenol FCi	dwg no		sheet 8 of 9	size
				engr	S.WATANABE	2019-3-6		10118252			A4
				chr	S-H.THIO	2019-3-7					
				appd	Y.KAMEDA	2019-3-7					
sheet index	revision sheet							type Product Customer Drawing			



# RECOMMENDED CABLE (FFC)

n : NO. OF CONTACTS



KIND OF FFC (NOTE3)	DIMENSIONAL TOLERANCE			
	a	b	c	d
1	±0.07	±0.04	±0.05	±0.02
2	±0.1	±0.03	±0.03	±0.025

PT. NO.	PARTS NAME	MATERIAL
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUIVALENT
2	CONDUCTOR	COPPER FOIL THICKNESS 35 or 50um (PLATING : TIN or SOLDER 1um MIN.)
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUIVALENT

## NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. EITHER KIND1 OR KIND2 OF FFC CAN ACCEPT DIMENSIONAL TOLERANCE a,b,c AND d.

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58EF			
ltr	ecn no	dr	date	tolerances unless otherwise specified				MM		title			
B				angles	linear			scale N/A		RECOMMENDED CABLE (Cat. No. : SFV__R-1/2ST__LF)			
				dr	S.WATANABE	2019-3-6	Amphenol FCi		dwg no		sheet 9 of 9	size	
				engr	S.WATANABE	2019-3-6			10118252		A4		
				chr	S-H.THIO	2019-3-7							
				appd	Y.KAMEDA	2019-3-7							
sheet index		revision sheet											