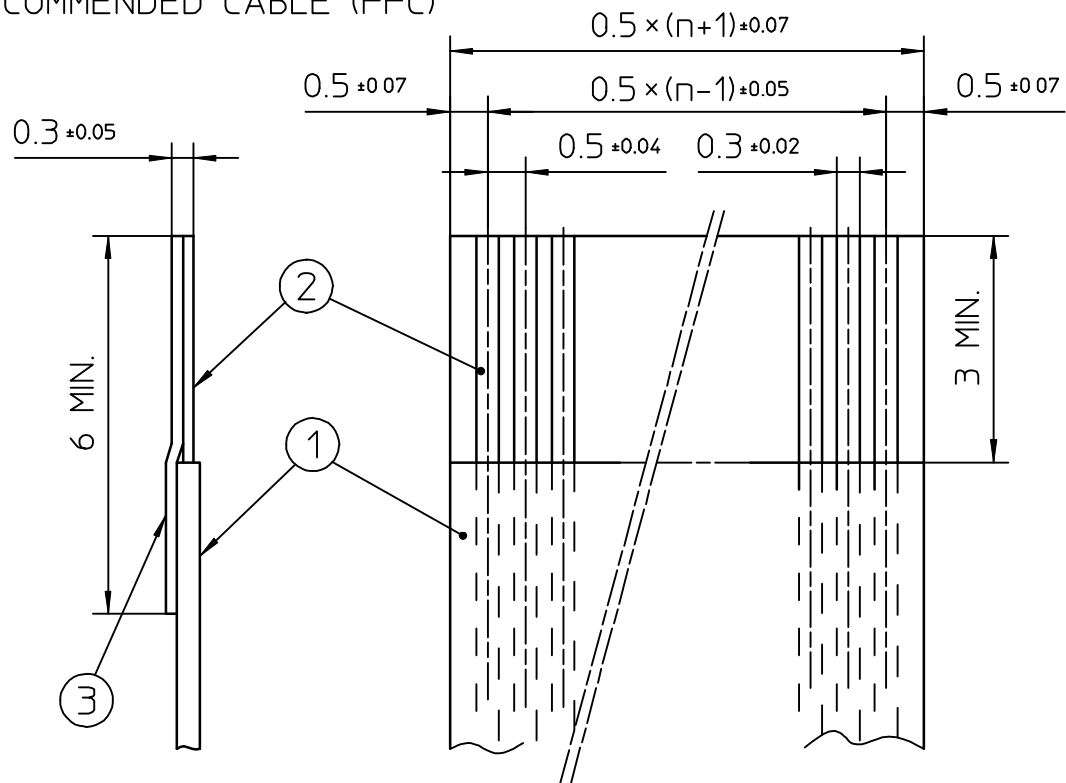


RECOMMENDED CABLE (FFC)

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	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUAL	
2	CONDUCTOR	COPPER FOIL:THICKNESS 35 OR 50 μm	PLATING : TIN OR SOLDER 1 μm MIN.
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUAL	

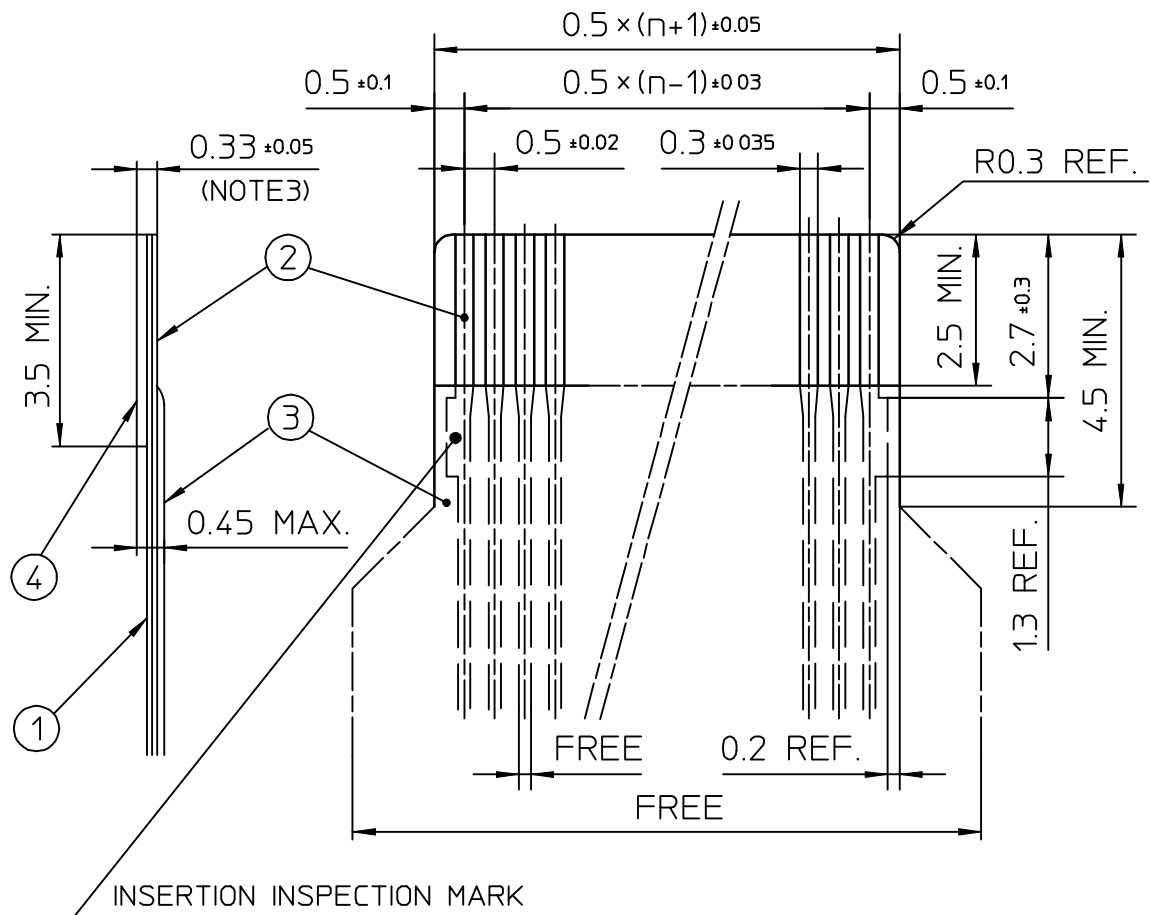
NOTES

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.

					SCALE	∞	RECOMMENDED CABLE	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-1/2ST__	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92457	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			

RECOMMENDED CABLE (FPC)

n · NO. OF CONTACTS



PT. NO.	PARTS NAME	MATERIAL	THICKNESS(μm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUAL	25
2	CONDUCTOR	COPPER FOIL(PLATING : SOLDER 1μm 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.

					SCALE	×	RECOMMENDED CABLE	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-1/2ST__	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92456	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			

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

CAT NO. SFV (n) R - 1 ST __

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 _____

NOTES

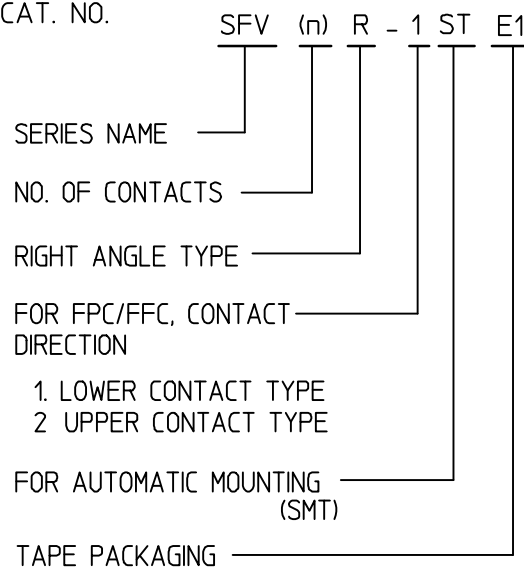
- THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPELS WITH AUTOMATIC MOUNTING (SMT).
- SEE PART DRAWINGS FOR DIMENSIONS A ~D.

					SCALE	×	CAT NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-1/2ST__	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92450	
					APPROVED		DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE3)		
		F ± 5	G ± 0.3	H ± 0.1
4	SFV4R-1/2STE1	20.4	16	—
5	SFV5R-1/2STE1	20.4	16	—
6	SFV6R-1/2STE1	20.4	16	—
7	SFV7R-1/2STE1	28.4	24	—
8	SFV8R-1/2STE1	28.4	24	—
9	SFV9R-1/2STE1	28.4	24	—
10	SFV10R-1/2STE1	28.4	24	—
11	SFV11R-1/2STE1	28.4	24	—
12	SFV12R-1/2STE1	28.4	24	—
13	SFV13R-1/2STE1	28.4	24	—
14	SFV14R-1/2STE1	28.4	24	—
15	SFV15R-1/2STE1	28.4	24	—
16	SFV16R-1/2STE1	28.4	24	—
17	SFV17R-1/2STE1	28.4	24	—
18	SFV18R-1/2STE1	28.4	24	—
19	SFV19R-1/2STE1	28.4	24	—
20	SFV20R-1/2STE1	28.4	24	—
21	SFV21R-1/2STE1	28.4	24	—
22	SFV22R-1/2STE1	28.4	24	—
23	SFV23R-1/2STE1	36.4	32	28.4
24	SFV24R-1/2STE1	36.4	32	28.4
25	SFV25R-1/2STE1	36.4	32	28.4
26	SFV26R-1/2STE1	36.4	32	28.4
27	SFV27R-1/2STE1	36.4	32	28.4
28	SFV28R-1/2STE1	36.4	32	28.4
29	SFV29R-1/2STE1	36.4	32	28.4
30	SFV30R-1/2STE1	36.4	32	28.4
31	SFV31R-1/2STE1	48.4	44	40.4
32	SFV32R-1/2STE1	48.4	44	40.4
33	SFV33R-1/2STE1	48.4	44	40.4
34	SFV34R-1/2STE1	48.4	44	40.4
35	SFV35R-1/2STE1	48.4	44	40.4

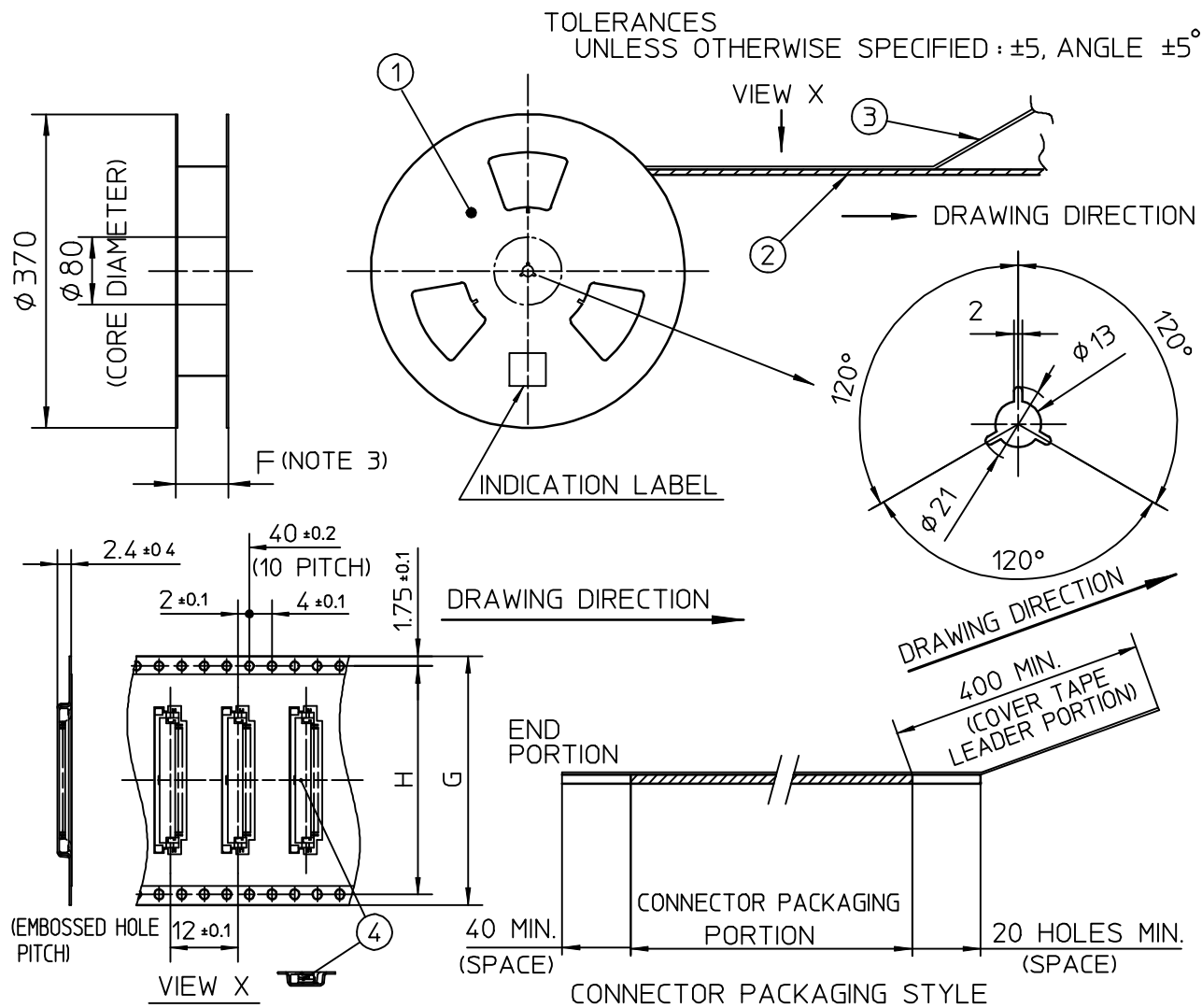
CAT. NO.



NOTES

- THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPEs WITH AUTOMATIC MOUNTING (SMT).
- THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
- SEE PART DRAWINGS FOR DIMENSIONS F~H.

					SCALE	×	CAT NO TABLE FOR PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-1/2STE1	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92453	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			

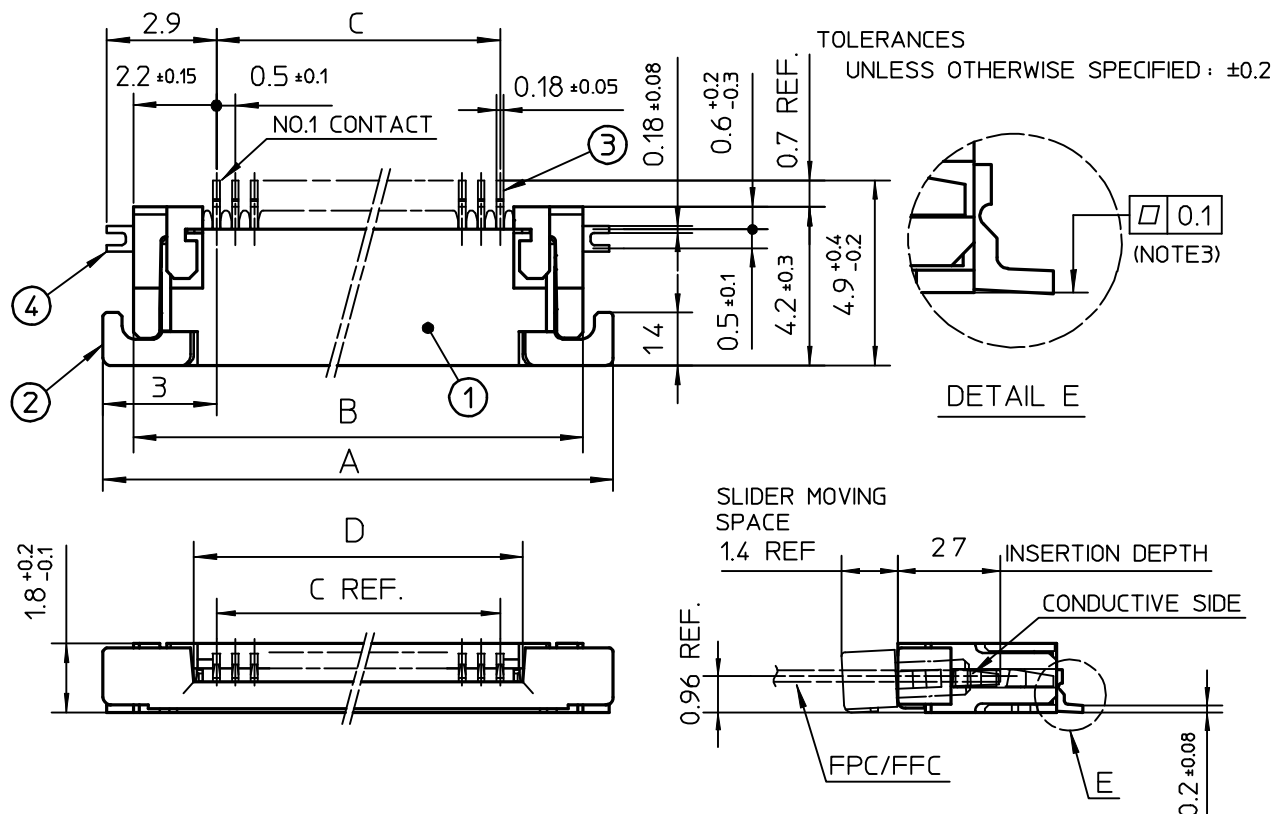


PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	—	CARDBOARD	1	COLOR : WHITE
2	PLASTIC (EMBOSS) TAPE	—	A-PET	—	COLOR : TRANSPARENCY
3	COVER	—	POLYESTER	—	COLOR : TRANSPARENCY
4	CONNECTOR	SFV__R-1ST__	SEE ATTACHED DWG.	3000	LOWER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC 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.

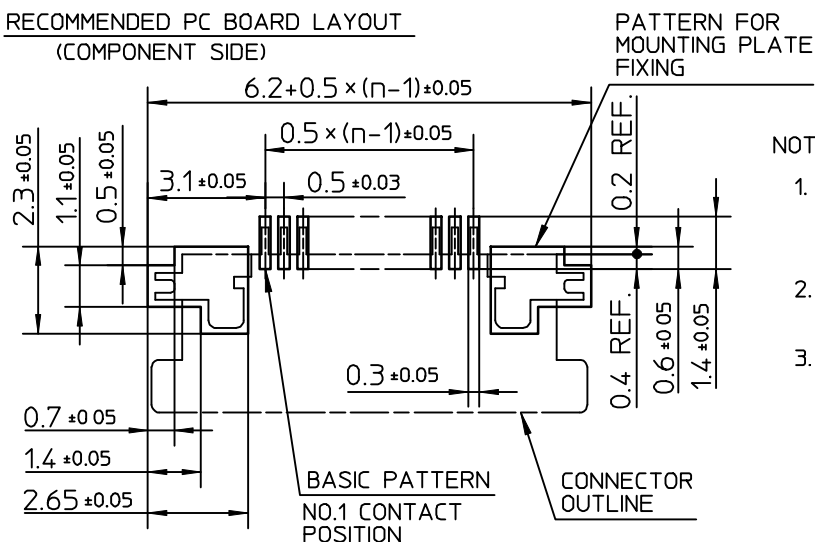
					SCALE	$\times$	PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-1STE1	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92454	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			



PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BROWN
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN ALLOY
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

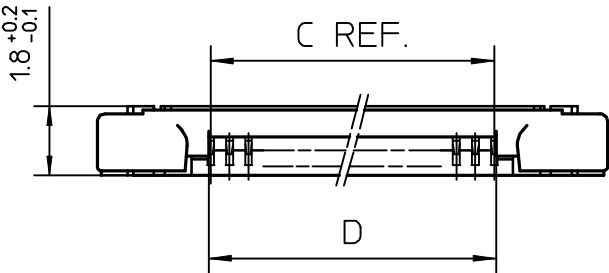
RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)



NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND CYPES 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.

					SCALE	$\propto$	CONNECTOR USED FOR FPC/FFC WITH 0.5 MM CONTACT SPACING	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-2ST__	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92452	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			

n: NO. OF CONTACTS

PATTERN FOR MOUNTING PLATE FIXING



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



DF-136
REV.B

CAT. NO. & DIMENSIONS

NO OF CONTACTS (n)	CAT NO	DIMENSIONS (NOTE2)			
		A ± 0.2	B ± 0.2	C ± 0.1	D ± 0.1
4	SFV 4R-3/4ST__	7.5	5.9	1.5	1.6
5	SFV 5R-3/4ST__	8.0	6.4	2.0	2.1
6	SFV 6R-3/4ST__	8.5	6.9	2.5	2.6
7	SFV 7R-3/4ST__	9.0	7.4	3.0	3.1
8	SFV 8R-3/4ST__	9.5	7.9	3.5	3.6
9	SFV 9R-3/4ST__	10.0	8.4	4.0	4.1
10	SFV10R-3/4ST__	10.5	8.9	4.5	4.6
11	SFV11R-3/4ST__	11.0	9.4	5.0	5.1
12	SFV12R-3/4ST__	11.5	9.9	5.5	5.6
13	SFV13R-3/4ST__	12.0	10.4	6.0	6.1
14	SFV14R-3/4ST__	12.5	10.9	6.5	6.6
15	SFV15R-3/4ST__	13.0	11.4	7.0	7.1
16	SFV16R-3/4ST__	13.5	11.9	7.5	7.6
17	SFV17R-3/4ST__	14.0	12.4	8.0	8.1
18	SFV18R-3/4ST__	14.5	12.9	8.5	8.6
19	SFV19R-3/4ST__	15.0	13.4	9.0	9.1
20	SFV20R-3/4ST__	15.5	13.9	9.5	9.6
21	SFV21R-3/4ST__	16.0	14.4	10.0	10.1
22	SFV22R-3/4ST__	16.5	14.9	10.5	10.6
23	SFV23R-3/4ST__	17.0	15.4	11.0	11.1
24	SFV24R-3/4ST__	17.5	15.9	11.5	11.6
25	SFV25R-3/4ST__	18.0	16.4	12.0	12.1
26	SFV26R-3/4ST__	18.5	16.9	12.5	12.6
27	SFV27R-3/4ST__	19.0	17.4	13.0	13.1
28	SFV28R-3/4ST__	19.5	17.9	13.5	13.6
29	SFV29R-3/4ST__	20.0	18.4	14.0	14.1
30	SFV30R-3/4ST__	20.5	18.9	14.5	14.6
31	SFV31R-3/4ST__	21.0	19.4	15.0	15.1
32	SFV32R-3/4ST__	21.5	19.9	15.5	15.6
33	SFV33R-3/4ST__	22.0	20.4	16.0	16.1
34	SFV34R-3/4ST__	22.5	20.9	16.5	16.6
35	SFV35R-3/4ST__	23.0	21.4	17.0	17.1

CAT. NO. SFV (n) R - 3 ST __

SERIES NAME _____

NO. OF CONTACTS _____

RIGHT ANGLE TYPE _____

FOR FPC,
WITH CABLE LOCK MECHANISM

CONTACT DIRECTION
3: LOWER CONTACT TYPE
4: UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT) _____

PACKAGE STYLE _____

NOTES

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

					SCALE	×	CAT. NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-3/4ST__	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92600	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE3)		
		F ± 5	G ± 0.3	H ± 0.1
4	SFV 4R-3/4STE1	20.4	16	—
5	SFV 5R-3/4STE1	20.4	16	—
6	SFV 6R-3/4STE1	20.4	16	—
7	SFV 7R-3/4STE1	28.4	24	—
8	SFV 8R-3/4STE1	28.4	24	—
9	SFV 9R-3/4STE1	28.4	24	—
10	SFV10R-3/4STE1	28.4	24	—
11	SFV11R-3/4STE1	28.4	24	—
12	SFV12R-3/4STE1	28.4	24	—
13	SFV13R-3/4STE1	28.4	24	—
14	SFV14R-3/4STE1	28.4	24	—
15	SFV15R-3/4STE1	28.4	24	—
16	SFV16R-3/4STE1	28.4	24	—
17	SFV17R-3/4STE1	28.4	24	—
18	SFV18R-3/4STE1	28.4	24	—
19	SFV19R-3/4STE1	28.4	24	—
20	SFV20R-3/4STE1	28.4	24	—
21	SFV21R-3/4STE1	28.4	24	—
22	SFV22R-3/4STE1	28.4	24	—
23	SFV23R-3/4STE1	36.4	32	28.4
24	SFV24R-3/4STE1	36.4	32	28.4
25	SFV25R-3/4STE1	36.4	32	28.4
26	SFV26R-3/4STE1	36.4	32	28.4
27	SFV27R-3/4STE1	36.4	32	28.4
28	SFV28R-3/4STE1	36.4	32	28.4
29	SFV29R-3/4STE1	36.4	32	28.4
30	SFV30R-3/4STE1	36.4	32	28.4
31	SFV31R-3/4STE1	48.4	44	40.4
32	SFV32R-3/4STE1	48.4	44	40.4
33	SFV33R-3/4STE1	48.4	44	40.4
34	SFV34R-3/4STE1	48.4	44	40.4
35	SFV35R-3/4STE1	48.4	44	40.4

CAT. NO. SFV (n) R - 3 ST E1

SERIES NAME —

NO OF CONTACTS —

RIGHT ANGLE TYPE —

FOR FPC,
WITH CABLE LOCK MECHANISM —

CONTACT DIRECTION
3: LOWER CONTACT TYPE
4: UPPER CONTACT TYPE —

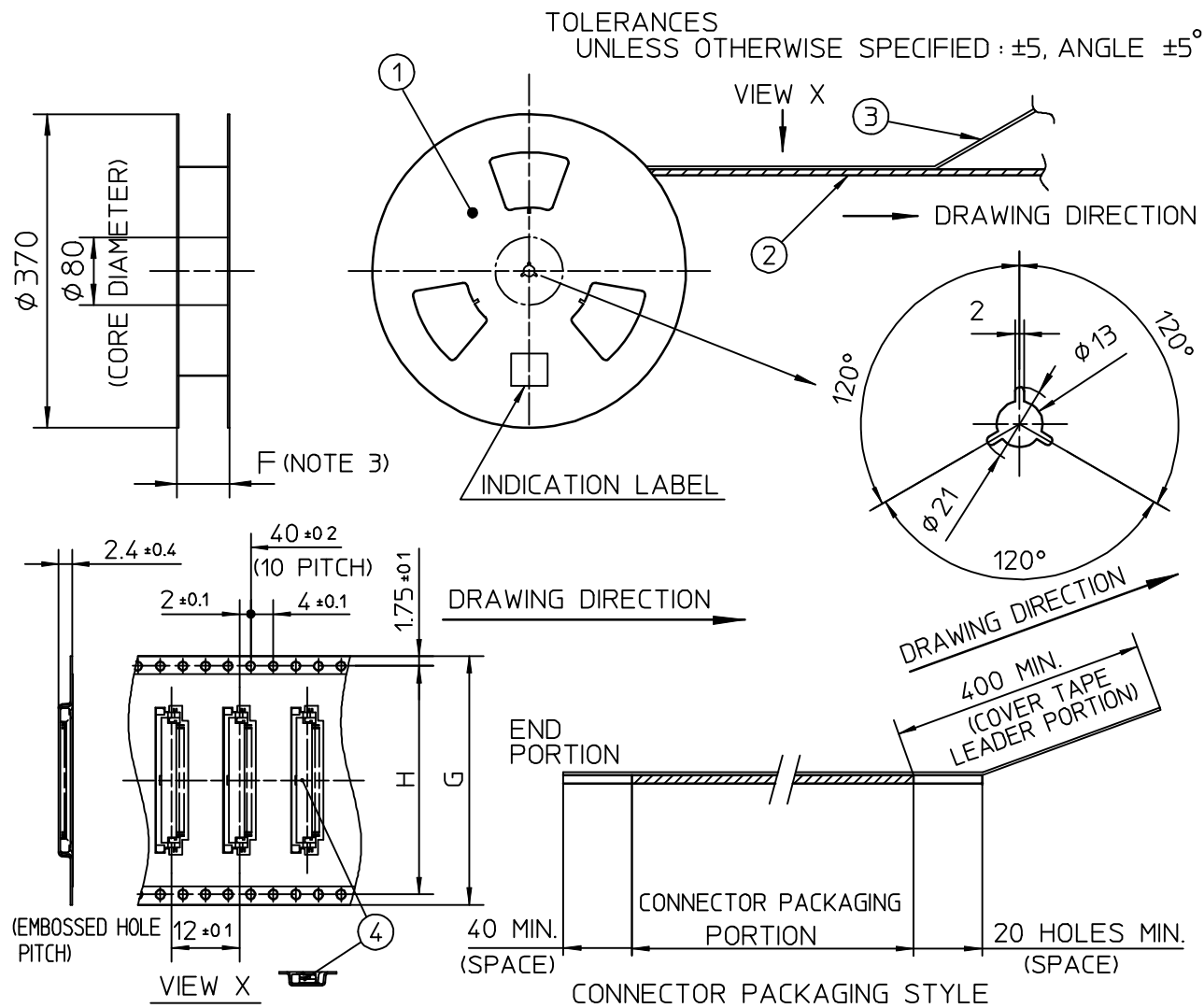
FOR AUTOMATIC MOUNTING (SMT) —

PACKAGE STYLE —

NOTES

- THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
- THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED
- SEE PART DRAWINGS FOR DIMENSIONS F-H.
- THIS PRODUCT IS THE CONNECTOR WITH CABLE LOCK MECHANISM.

					SCALE	×	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-3/4STE1	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92603	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			

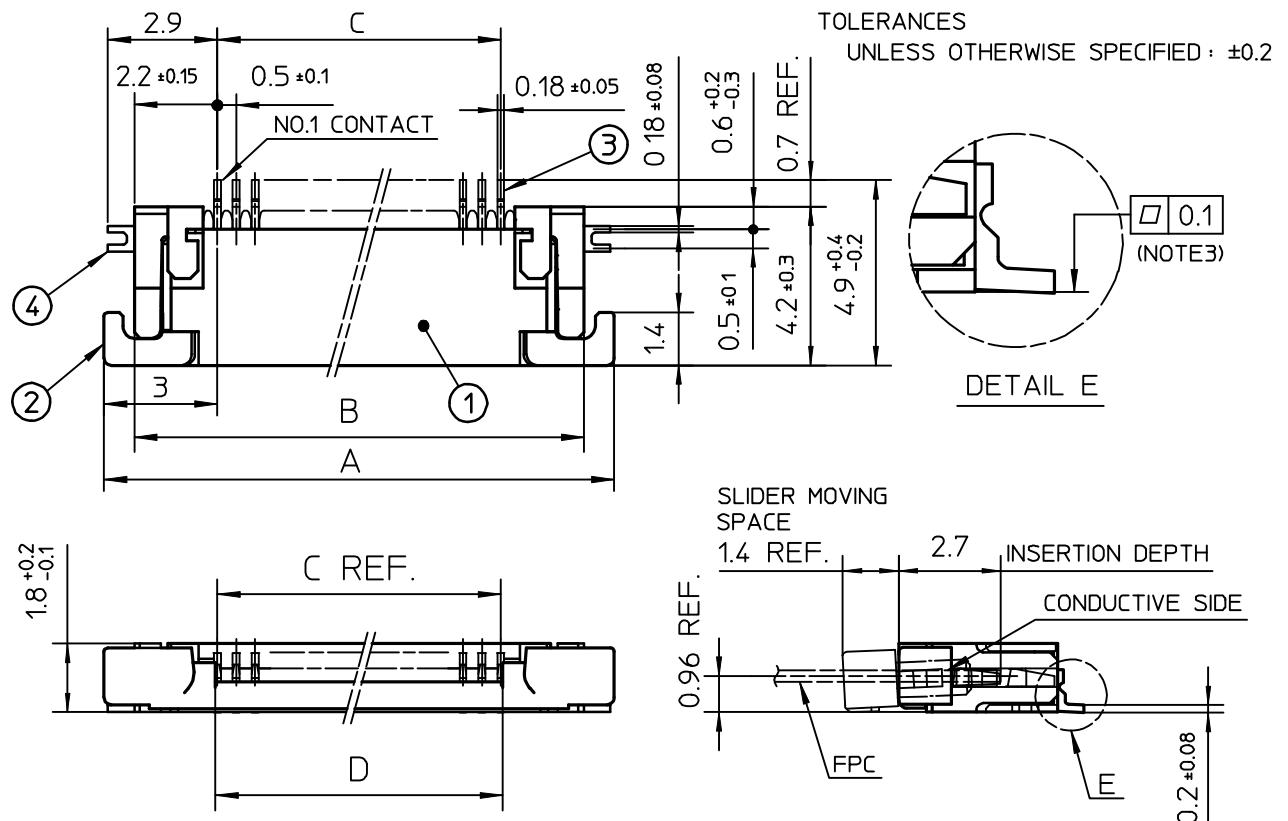


PT. NO.	PARTS NAME	CAT. NO	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR : WHITE
2	PLASTIC (EMBOSS) TAPE	_____	A-PET	—	COLOR : TRANSPARENCY
3	COVER	_____	POLYESTER	—	COLOR : TRANSPARENCY
4	CONNECTOR	SFV__R-3ST__	SEE ATTACHED DWG.	3000	LOWER CONTACT TYPE WITH CABLE LOCK MECHANISM

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND CYPES 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.

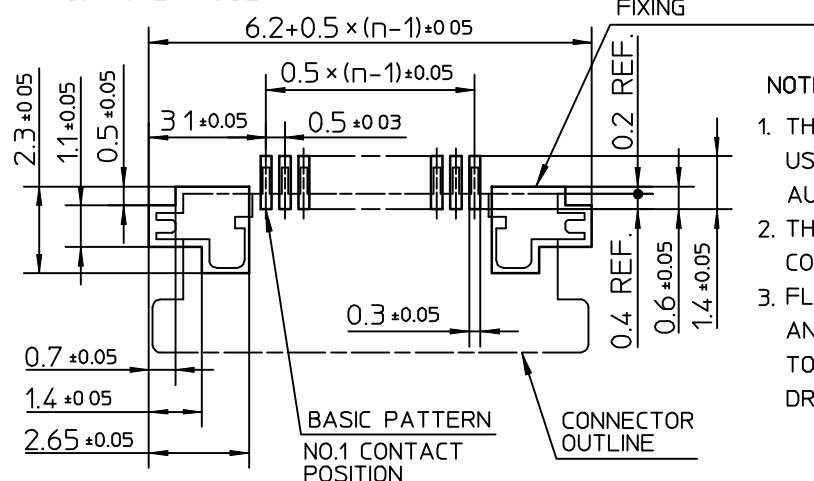
					SCALE	$\times$	PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-3STE1	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92604	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			



PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN ALLOY
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

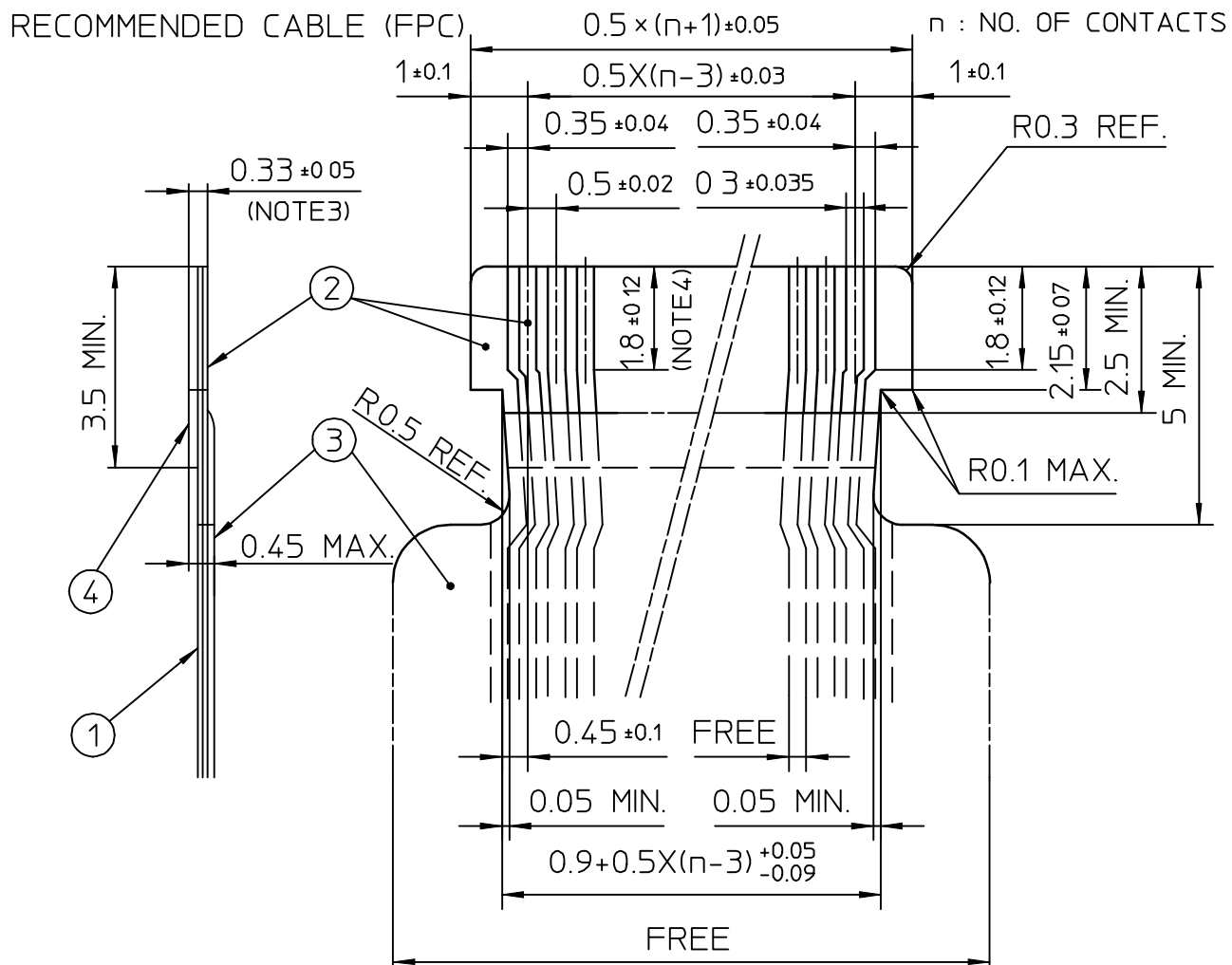
RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)



NOTES

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

					SCALE	$\times$	CONNECTOR USED FOR FPC WITH 0.5 MM CONTACT SPACING	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-4ST__	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92602	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			



PT. NO.	PARTS NAME	MATERIAL	THICKNESS(μm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUAL	25
2	CONDUCTOR	COPPER FOIL(PLATING : SOLDER 1μm 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.
4. THIS DIMENSION INDICATES THE RANGE FOR 0.3 ± 0.035 CONDUCTOR WIDTH.

					SCALE	$\times$	RECOMMENDED CABLE	
					DIM. IN	mm	CAT NO.	
					DESIGNED		SFV__R-3/4ST__	
					DRAWN		DRAWING NO	REV
					CHECKED		JSA 92606	
					APPROVED		 DF-136 REV.B	
REV.	DATE	DESCRIPTION	DWN.	APPD.	DATE			