

List of "HFW__R-1/2STE1HLF" customer document

DOCUMENT NO.	LIST
10089213(sheet1)	DOCUMENT LIST
10089213(sheet2)	CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (HFW__R-1/2ST_HLF)
10089213(sheet3)	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (HFW__R-1ST_HLF)
10089213(sheet4)	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (HFW__R-2ST_HLF)
10089213(sheet5)	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (HFW__R-1/2STE1HLF)
10089213(sheet6)	1mm SPACING SMT CONNECTOR (HFW__R-1STE1HLF)
10089213(sheet7)	1mm SPACING SMT CONNECTOR (HFW__R-2STE1HLF)
10089213(sheet8)	RECOMMENDED CABLE (FPC) (HFW__R-1/2__)
10089213(sheet9)	RECOMMENDED CABLE (FFC) (HFW__R-1/2__)
GS-12-563	PRODUCT SPEC.
BJM-HFWR101	HANDLING PROCEDURES

mat'l. code —				surface ISO 1302 ✓				tolerance ISO 406 ISO 1101				projection 				product family 58NF											
ltr	ecn no	dr	date	tolerances unless otherwise specified								title 1mm SPACING FPC/FFC CONNECTOR DOCUMENT LIST (Cat. No. : HFW__R-1/2STE1HLF)															
A	S08-0199	DGOH	08/06/26	angles		linear																					
B	ELX-J-32905	S.W	2019-3-13																								
												scale N/A				dwg no sheet 1 of 9 size 10089213 A4											
				dr	S.WATANABE			2019-3-13																			
				engr	S.WATANABE			2019-3-13																			
				chr	S-H.THIO			2019-3-13																			
				appd	Y.KAMEDA			2019-3-13							type Product Customer Drawing												
sheet index		revision sheet		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B								
				1	2	3	4	5	6	7	8	9															

CAT. NO. & DIMENSIONS

(NOTE3)	NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)		
			A ± 0.2	B ± 0.2	C ± 0.1
	4	HFW4R-1/2ST__HLF	6.6	3	5.14
	5	HFW5R-1/2ST__HLF	7.6	4	6.14
	6	HFW6R-1/2ST__HLF	8.6	5	7.14
	7	HFW7R-1/2ST__HLF	9.6	6	8.14
	8	HFW8R-1/2ST__HLF	10.6	7	9.14
	9	HFW9R-1/2ST__HLF	11.6	8	10.14
	10	HFW10R-1/2ST__HLF	12.6	9	11.14
	11	HFW11R-1/2ST__HLF	13.6	10	12.14
	12	HFW12R-1/2ST__HLF	14.6	11	13.14
	13	HFW13R-1/2ST__HLF	15.6	12	14.14
	14	HFW14R-1/2ST__HLF	16.6	13	15.14
	15	HFW15R-1/2ST__HLF	17.6	14	16.14
	16	HFW16R-1/2ST__HLF	18.6	15	17.14
	17	HFW17R-1/2ST__HLF	19.6	16	18.14
	18	HFW18R-1/2ST__HLF	20.6	17	19.14
	19	HFW19R-1/2ST__HLF	21.6	18	20.14
	20	HFW20R-1/2ST__HLF	22.6	19	21.14
	21	HFW21R-1/2ST__HLF	23.6	20	22.14
	22	HFW22R-1/2ST__HLF	24.6	21	23.14
	23	HFW23R-1/2ST__HLF	25.6	22	24.14
	24	HFW24R-1/2ST__HLF	26.6	23	25.14
	25	HFW25R-1/2ST__HLF	27.6	24	26.14
	26	HFW26R-1/2ST__HLF	28.6	25	27.14
	27	HFW27R-1/2ST__HLF	29.6	26	28.14
*	28	HFW28R-1/2ST__HLF	30.6	27	29.14
*	29	HFW29R-1/2ST__HLF	31.6	28	30.14
	30	HFW30R-1/2ST__HLF	32.6	29	31.14

CAT. NO. HFW (n) R - 1 ST __ HLF

SERIES

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

HALOGEN and LEAD FREE

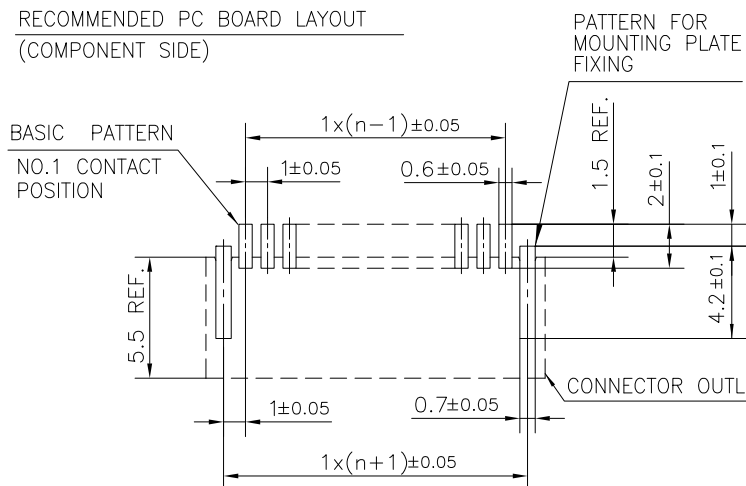
NOTES

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

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58NF									
ltr	ecn no	dr	date	tolerances unless otherwise specified						title									
B				angles		linear		MM		CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (Cat.No. HFW__R-1/2ST__HLF)									
								scale N/A		dwg no sheet 2 of 9 size									
				dr	S.WATANABE	2019-3-13		Amphenol FCI		10089213 A4									
				engr	S.WATANABE	2019-3-13													
				chr	S-H.THIO	2019-3-13													
				appd	Y.KAMEDA	2019-3-13													
sheet index		revision sheet								type Product Customer Drawing									

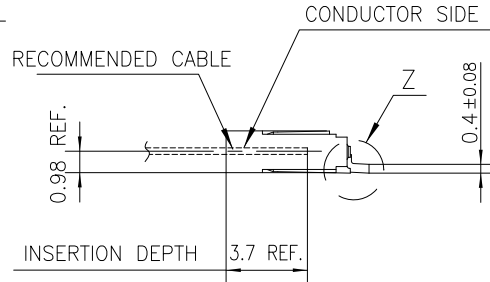
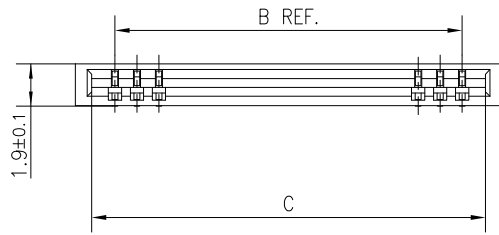
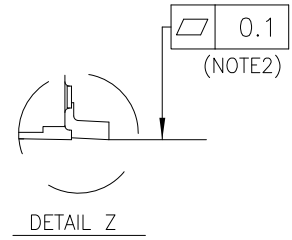
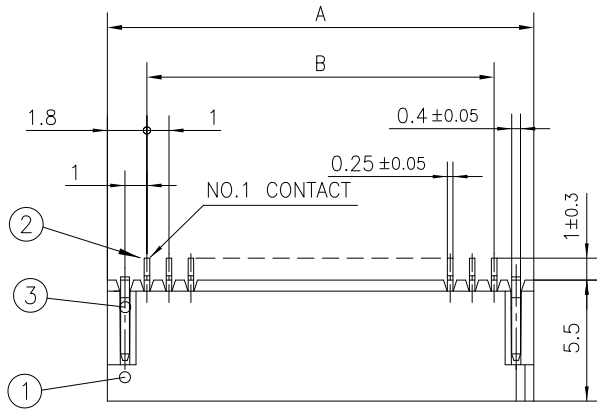
n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)



1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
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.

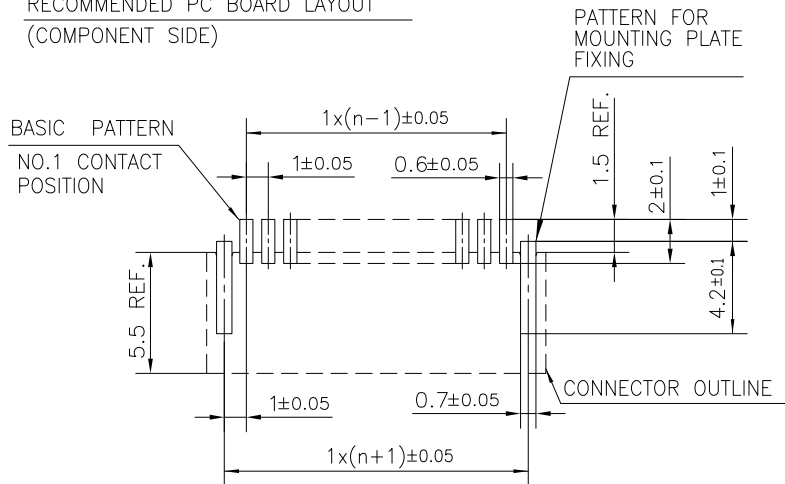
form: A4-2016-02-24



PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PA6T RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
2	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN
3	MOUNTING PLATE		2	(LEAD FREE)

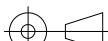
n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPS WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR.
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 58NF									
ltr	ecn no	dr	date	tolerances unless			otherwise specified					title 1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (Cat.No. HFW__R-2ST__HLF)									
B				angles	linear	±0.2															
										scale N/A											
				dr	S.WATANABE	2019-3-13					dwg no						sheet 4 of 9		size		
				enr	S.WATANABE	2019-3-13					10089213						A4				
				chr	S-H.THIO	2019-3-13															
				appd	Y.KAMEDA	2019-3-13															
sheet index		revision sheet																			

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
		E ± 5	F ± 0.3	G ± 0.1
4	HFW4R-1/2STE1HLF	28.4	24	—
5	HFW5R-1/2STE1HLF	28.4	24	—
6	HFW6R-1/2STE1HLF	28.4	24	—
7	HFW7R-1/2STE1HLF	28.4	24	—
8	HFW8R-1/2STE1HLF	28.4	24	—
9	HFW9R-1/2STE1HLF	28.4	24	—
10	HFW10R-1/2STE1HLF	28.4	24	—
11	HFW11R-1/2STE1HLF	28.4	24	—
12	HFW12R-1/2STE1HLF	28.4	24	—
13	HFW13R-1/2STE1HLF	28.4	24	—
14	HFW14R-1/2STE1HLF	28.4	24	—
15	HFW15R-1/2STE1HLF	36.4	32	28.4
16	HFW16R-1/2STE1HLF	36.4	32	28.4
17	HFW17R-1/2STE1HLF	36.4	32	28.4
18	HFW18R-1/2STE1HLF	36.4	32	28.4
19	HFW19R-1/2STE1HLF	48.4	44	40.4
20	HFW20R-1/2STE1HLF	48.4	44	40.4
21	HFW21R-1/2STE1HLF	48.4	44	40.4
22	HFW22R-1/2STE1HLF	48.4	44	40.4
23	HFW23R-1/2STE1HLF	48.4	44	40.4
24	HFW24R-1/2STE1HLF	48.4	44	40.4
25	HFW25R-1/2STE1HLF	48.4	44	40.4
26	HFW26R-1/2STE1HLF	48.4	44	40.4
27	HFW27R-1/2STE1HLF	48.4	44	40.4
*	HFW28R-1/2STE1HLF	48.4	44	40.4
*	HFW29R-1/2STE1HLF	48.4	44	40.4
	HFW30R-1/2STE1HLF	60.4	56	52.4

CAT. NO.

HFW (n) R - 1 ST E1 HLF

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

1. LOWER CONTACT TYPE
2. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT)

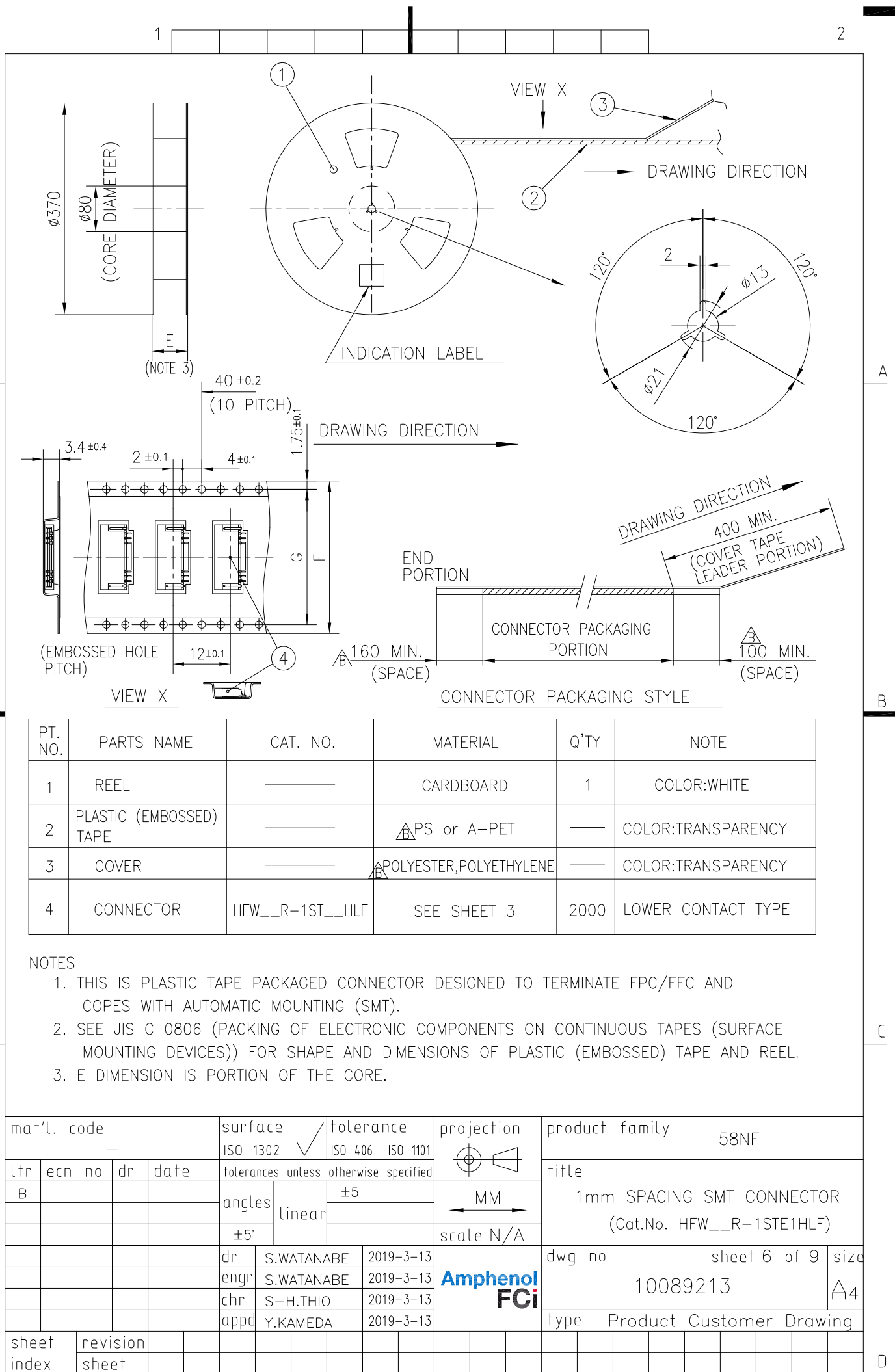
TAPE PACKAGING

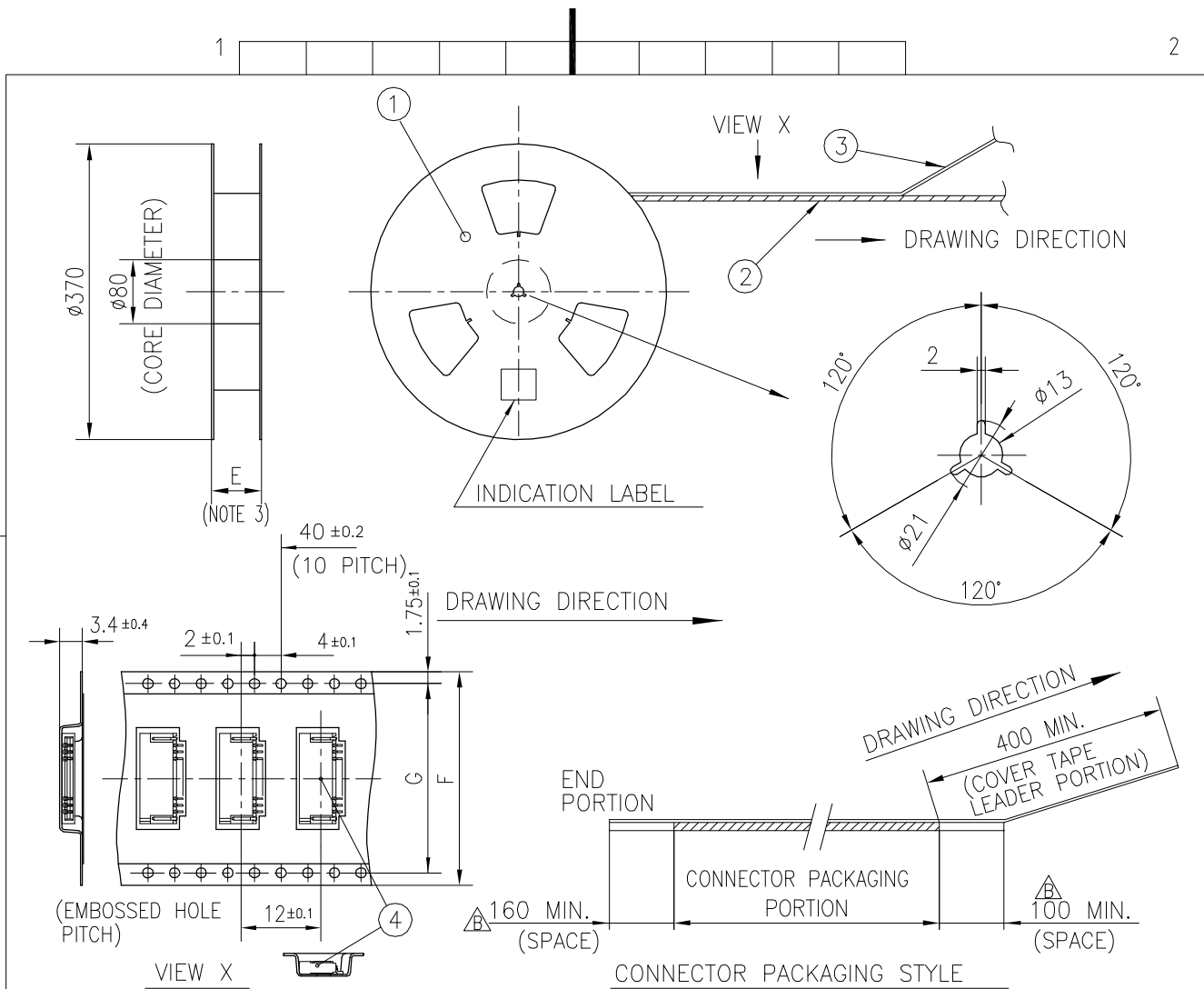
HALOGEN and LEAD FREE

NOTES

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

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58NF			
ltr	ecn no	dr	date	tolerances unless otherwise specified				 MM		title CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (Cat.No. HFW__R-1/2STE1HLF)			
B				angles	linear								
				dr	S.WATANABE	2019-3-13			dwg no		sheet 5 of 9	size	
				engr	S.WATANABE	2019-3-13			10089213		A4		
				chr	S-H.THIO	2019-3-13							
				appd	Y.KAMEDA	2019-3-13							
sheet index		revision sheet											

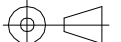


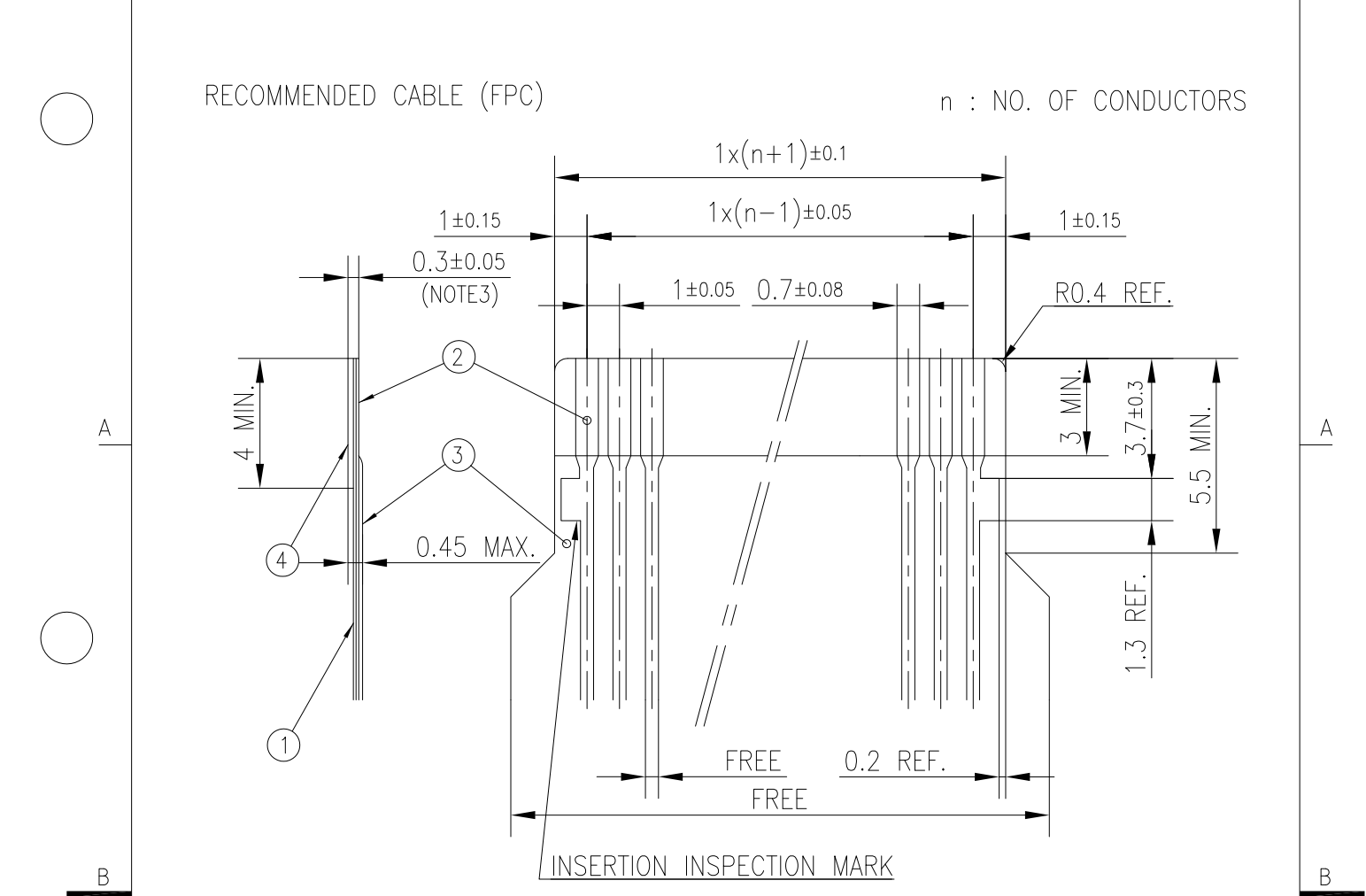


PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR:WHITE
2	PLASTIC (EMBOSSD) TAPE	_____	△PS or A-PET	—	COLOR:TRANSPARENCY
3	COVER	_____	△POLYESTER,POLYETHYLENE	—	COLOR:TRANSPARENCY
4	CONNECTOR	HFW__R-2ST__HLF	SEE SHEET 4	2000	UPPER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC/FFC 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 (EMBOSSD) TAPE AND REEL.
- E DIMENSION IS PORTION OF THE CORE.

mat'l. code —				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58NF											
ltr	ecn no	dr	date	tolerances unless otherwise specified								title 1mm SPACING SMT CONNECTOR (Cat.No. HFW__R-2STE1HLF)									
B				angles		linear		±5													
				±5°				scale N/A													
				dr	S.WATANABE		2019-3-13				dwg no				sheet 7 of 9				size		
				engr	S.WATANABE		2019-3-13				10089213				A4						
				chr	S-H.THIO		2019-3-13				type Product Customer Drawing										
				appd	Y.KAMEDA		2019-3-13														
sheet index		revision sheet																			



PT. NO.	DESCRIPTION	MATERIAL	THICKNESS (um)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUIVALENT	25
2	CONDUCTOR	COPPER FOIL (PLATING : TIN OR SOLDER 1um 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.

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RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS

(NOTE3)	DIMENSION A	TOLERANCE B
1	0.7	0.1
2	0.6	0.07

PT. NO.	DESCRIPTION	MATERIAL
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUIVALENT
2	CONDUCTOR	COPPER FOIL (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. BOTH COMBINATION IS ALLOWED.

mat'l. code				surface		tolerance		projection		product family									
—				ISO 1302		ISO 406 ISO 1101				58NF									
ltr		ecn no		dr		date		tolerances unless otherwise specified						title					
B												MM		RECOMMENDED CABLE					
												scale N/A		(Cat. No. HFW__R-1/2ST__)					
												Amphenol FCI		dwg no					
														sheet 9 of 9					
														10089213					
														A4					
														type Product Customer Drawing					
sheet index		revision sheet																	

form: A4-2016-02-24

1

2

Downloaded from Arrow.com

PDS: Rev :B

STATUS:Released

Printed: Mar 23, 2019