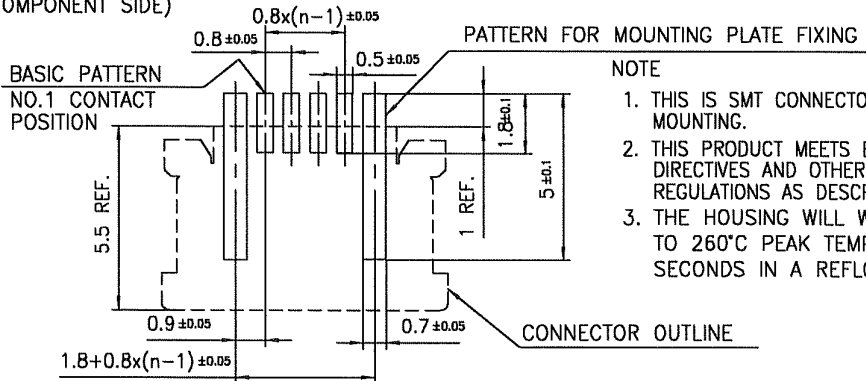


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR:BLACK
2	SLIDER		1	
3	CONTACT	PHOSPHOR BRONZE	n	PLATING:TIN (LEAD FREE)
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)

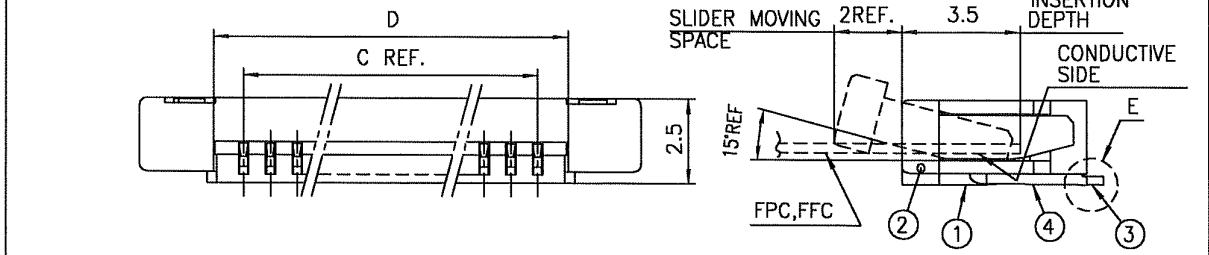
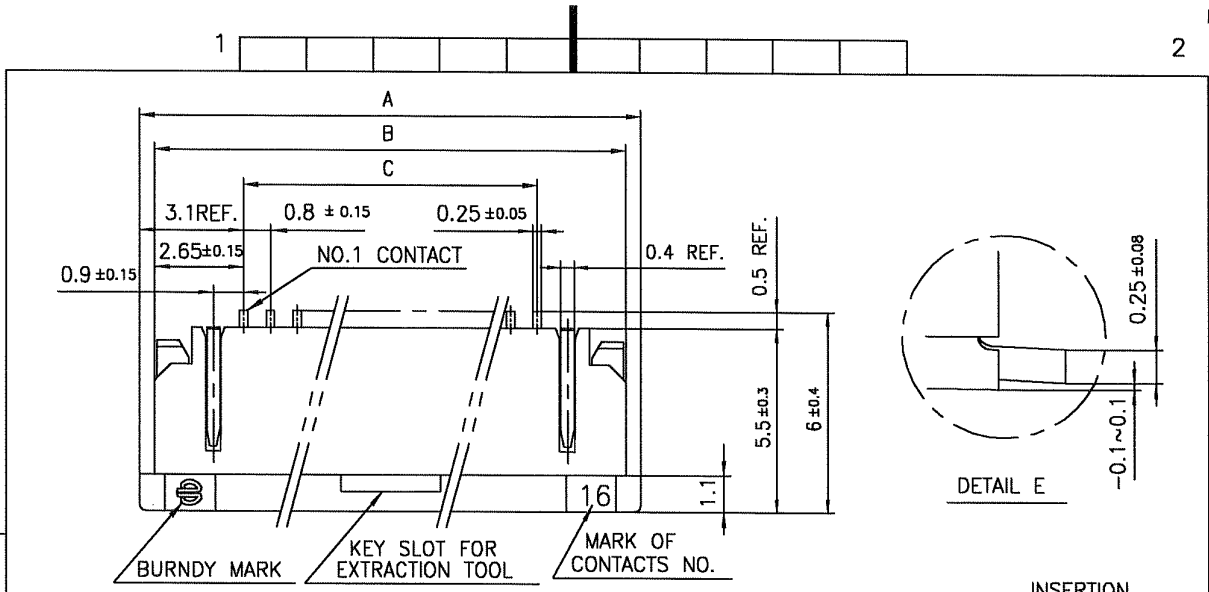


- NOTE
1. THIS IS SMT CONNECTOR FOR AUTOMATIC MOUNTING.
 2. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
 3. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

mat'l. code		surface ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58BF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
A	J05-0280	H.T	5/12/05	angles	linear	±0.2		0.8mm SPACING CONNECTOR (Cat. No. SFR4R-1ST_LF)			
B	J05-0730	H.T	10/28/05					dwg no sheet 1 of 1 size			
C	J06-0485	H.T	11/20/06					JSA 96439 A4			
				dr	11/20/06		FCJ		type Product Customer Drawing		
				enr	11/20/06						
				chr	11/20/06						
				appd	11/20/06						
sheet index	revision sheet	C 1								Rev. C	

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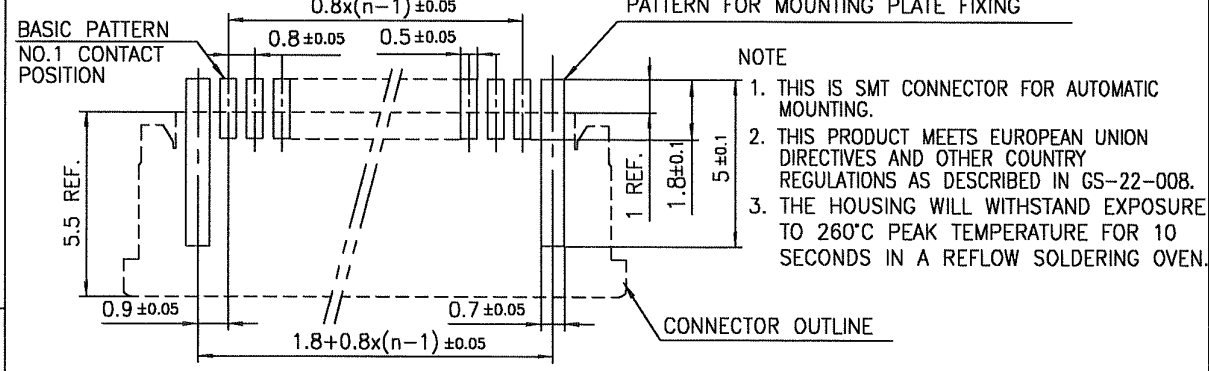
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PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
2	SLIDER		1	
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN (LEAD FREE)
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)



mat'l. code		surface ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58BF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
A	J05-0280	H.T	5/12/05	angles	linear	mm		0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1ST__LF)			
B	J05-0730	H.T	10/28/05			scale X		dwg no sheet 1 of 1 size			
C	J06-0485	H.T	11/20/06					JSA 96440 A4			
sheet index		revision	C	dr		engr		type Product Customer Drawing			
sheet		sheet	1	chr		appd		Rev. c			

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CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)			
		E ±5	F ±0.3	G ±0.1	H ±0.4
4	SFR 4R-1STE1LF	22.4	16	—	3.35
6	SFR 6R-1STE1LF	22.4	16	—	3.35
8	SFR 8R-1STE1LF	30.4	24	—	3.45
10	SFR10R-1STE1LF	30.4	24	—	3.45
12	SFR12R-1STE1LF	30.4	24	—	3.45
14	SFR14R-1STE1LF	30.4	24	—	3.45
16	SFR16R-1STE1LF	30.4	24	—	3.45
18	SFR18R-1STE1LF	38.4	32	28.4	3.45
20	SFR20R-1STE1LF	38.4	32	28.4	3.45
22	SFR22R-1STE1LF	50.4	44	40.4	3.55
24	SFR24R-1STE1LF	50.4	44	40.4	3.55
26	SFR26R-1STE1LF	50.4	44	40.4	3.55
28	SFR28R-1STE1LF	50.4	44	40.4	3.55
30	SFR30R-1STE1LF	50.4	44	40.4	3.55

CAT. NO.

SFR (n) R - 1ST E1 LF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

USE FOR FPC/FFC

FOR AUTOMATIC MOUNTING (SMT)

TAPE PACKAGING

LEAD FREE

NOTES

- THIS IS SMT CONNECTOR FOR AUTOMATIC MOUNTING.
- THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
- SEE DRAWINGS OF CONNECTOR PACKAGING FOR DIMENSIONS E~H.

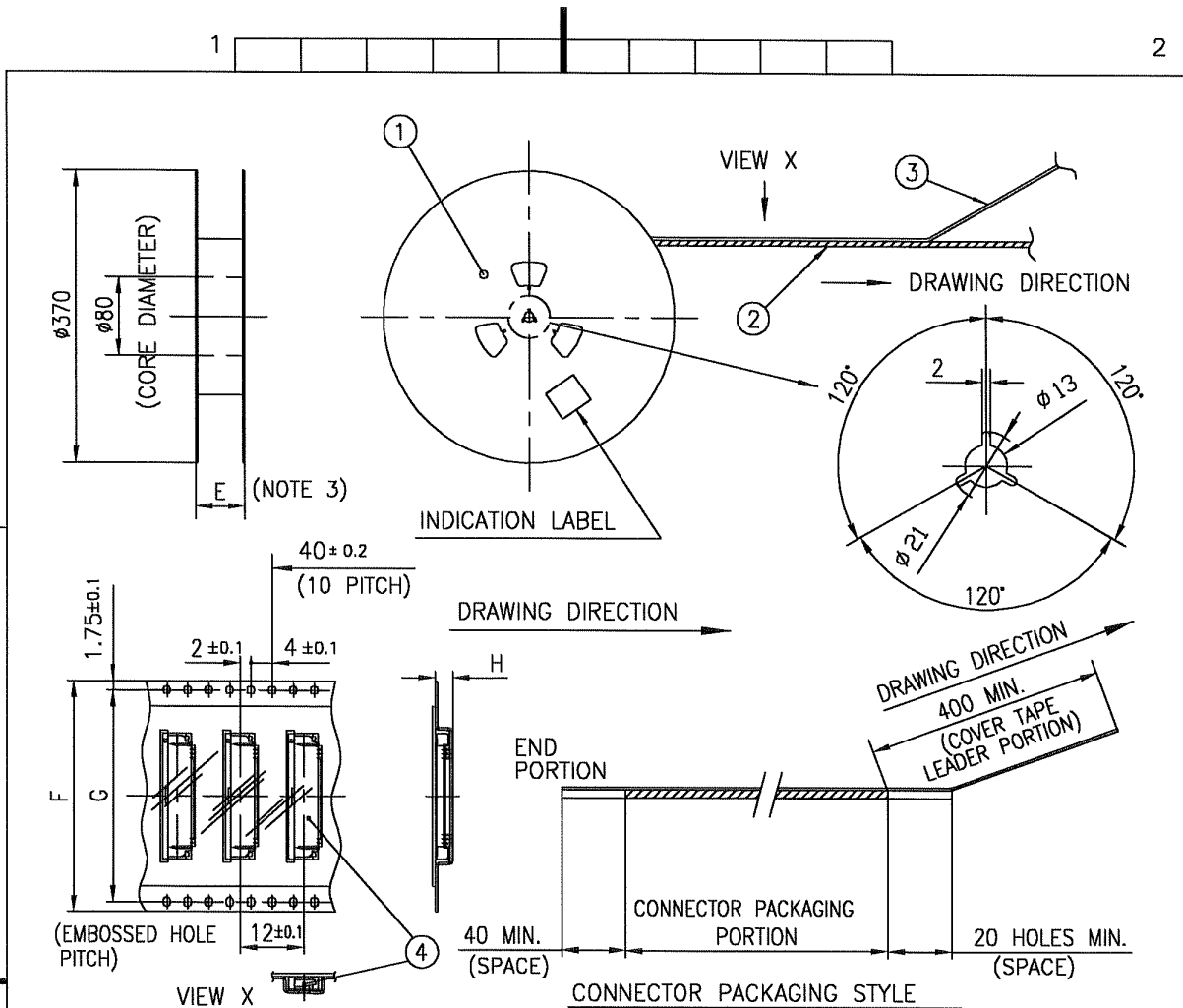
mat'l. code			surface <input checked="" type="checkbox"/> ISO 1302 <input checked="" type="checkbox"/> tolerance <input checked="" type="checkbox"/> ISO 406 <input type="checkbox"/> ISO 1101		projection	product family 58BF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		title	
A	J05-0280	H.T	5/12/05	angles	mm	CAT NO. TABLE FOR PLASTIC TAPE PACKAGED 0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1STE1LF)	
B	J06-0485	H.T	11/20/06	linear	scale X	dwg no JSA 96441 sheet 1 of 1 size A4	
				dr	FCI		
				engr	type Product Customer Drawing		
				chr			
				appd			
sheet index	revision B	sheet 1					Rev. B



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PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR:GRAY
2	PLASTIC (EMBOSS) TAPE	_____	POLYPROPYLENE or A-PET	_____	COLOR:TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR:TRANSPARENCY
4	SURFLOK CONNECTOR	SFR_R-1ST_LF	SEE ATTACHED DWG	2000	_____

NOTES

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

mat'l. code				surface <input checked="" type="checkbox"/> ISO 1302 <input checked="" type="checkbox"/> tolerance <input checked="" type="checkbox"/> ISO 406 <input checked="" type="checkbox"/> ISO 1101		projection	product family	58BF	CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title PLASTIC TAPE PACKAGED 0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1STE1LF)			
A	J05-0280	H.T	5/12/05	angles	±5					
B	J06-0485	H.T	11/20/06	linear		scale	dwg no		sheet 1 of 1	
				±5'			JSA 96442		size A4	
				dr	<i>H. Sudo</i>	11/20/06	type			Product Customer Drawing
				enr	<i>H. Sudo</i>	11/20/06				
				chr	<i>K. Shoji</i>	11/20/06				
				appd	<i>S. Andama</i>	11/21/06				
sheet index	revision	B							Rev B	
	sheet	1								

SC-SFRD4 JSA96441 form: A4



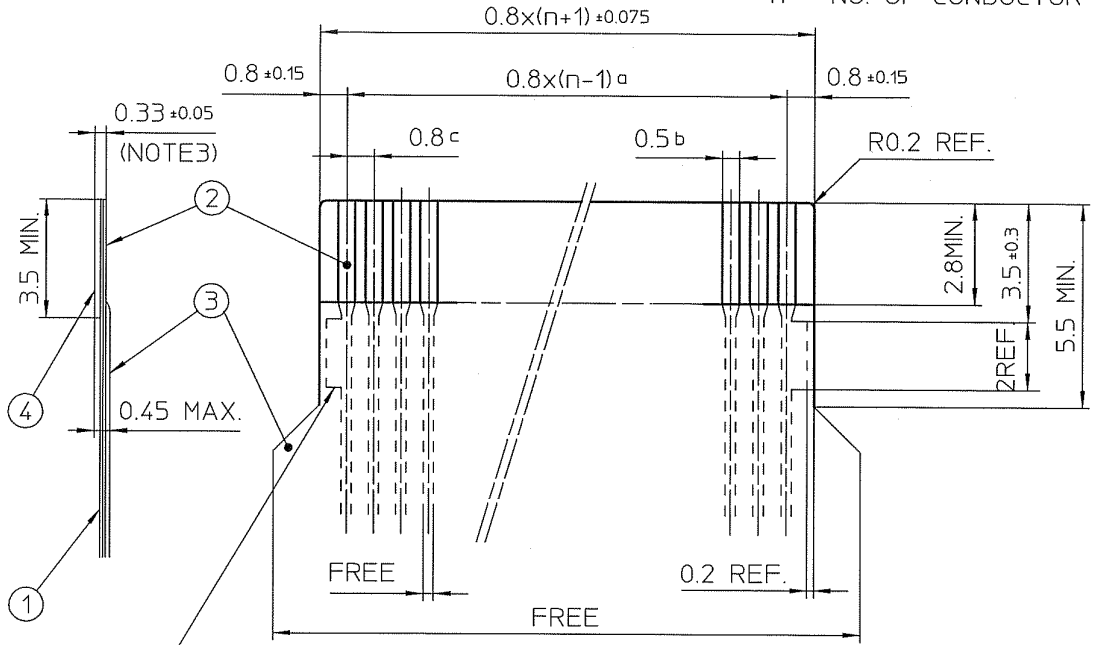
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RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTOR



INSERTION INSPECTION MARK

KIND OF FPC (NOTE 4)	DIMENSIONAL TOLERANCE		
	a	b	c
1	±0.04	±0.05	±0.04
2	±0.035	±0.075	±0.035

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. EITHER KIND1 OR KIND2 OF FPC CAN ACCEPT DIMENSIONAL TOLERANCE a,b AND C.



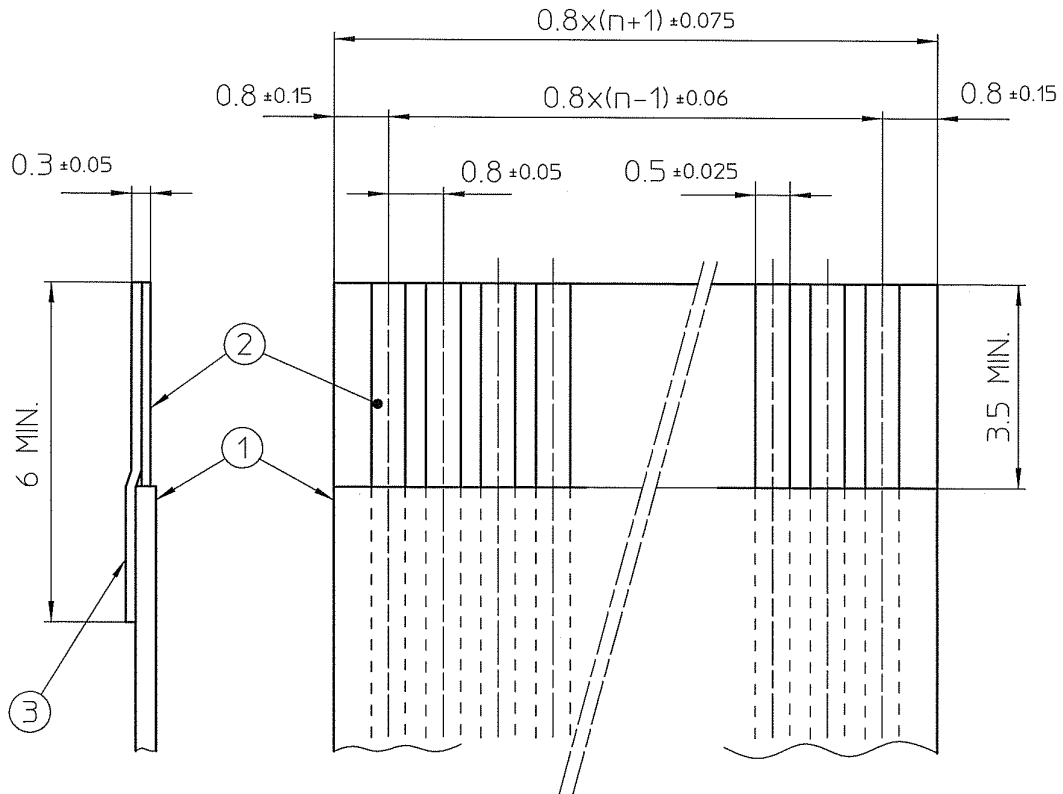
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mat'l. code		surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection		product family 58BF	
ltr	ecn no	dr	date	tolerances unless otherwise specified		title		RECOMMENDED CABLE (CAT.No.SFR__R-1ST__)	
AA	J04-0357	H.T	Oct.13/04	angles	linear	scale X		dwg no JSA 90454 sheet 1 of 1 size A4	
AB	J06-0351	H.T	8/29/06			FCJ		type Product Customer Drawing	
sheet index	revision sheet	AB	1					Rev. AB	

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



PT. NO.	PARTS NAME	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUAL	_____
2	CONDUCTOR	COPPER FOIL : 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.

mat'l. code		surface <input checked="" type="checkbox"/> ISO 1302		tolerance <input checked="" type="checkbox"/> ISO 406 <input type="checkbox"/> ISO 1101		projection		product family 58BF		
ltr	ecn no	dr	date	tolerances unless otherwise specified						
AA	J04-0357	H.T	Oct13/04	angles		linear		title		
AB	J06-0351	H.T	8/29/06					RECOMMENDED CABLE (FFC) (CAT.No.SFR__R-1ST__)		
						scale		dwg no		
				dr <i>R. Shouji</i> 8/29/06				sheet 1 of 1		
				enrg <i>R. Shouji</i> 8/29/06				JSA 90455		
				chr <i>R. Shouji</i> 8/29/06				A4		
				appd <i>R. Shouji</i> 8/29/06				type Product Customer Drawing		
sheet index	revision sheet	AB	1							Rev. AB



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