CONFIGURATION OF CUSTOMER DOCUMENTS

P/N	DOCUMENTS	DWG. NO.	TITLE
HLW__R/S-2D7LF	SPEC	SC-HLW05	
	CONNECTOR	JSA96409	CAT NO.TABLE FOR 1mm SPACING CONNECTOR
		JSA96410	1mm SPACING CONNECTOR
		JSA96411	1mm SPACING CONNECTOR
	CABLE	JSA93382	RECOMMENDED CABLE(FPC)
		JSA93383	RECOMMENDED CABLE(FFC)
	MANUAL	BJM-HLW101	

P/N	DOCUMENTS	DWG. NO.	TITLE
HLW__S-6D7LF	SPEC	SC-HLW06	
	CONNECTOR	JSA96412	CAT NO.TABLE FOR 1mm SPACING CONNECTOR
		JSA96413	1mm SPACING CONNECTOR
		JSA97169	1mm SPACING CONNECTOR
	CABLE	JSA93626	RECOMMENDED CABLE(C/C)
	MANUAL	BJM-HLW102	

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ltr	ecn no	dr	date
A	J05-0270	H.T	5/11/'05
B	J05-293	N.S	5/18/'05
C	J05-0517	N.S	8/11/'05
D	J06-0238	M.M	6/8/'06
E	J09-0255	M.Y	2009-6-29

mat'l. code –
surface ISO 1302 58
tolerance ISO 406 ISO 1101
tolerances unless otherwise specified
angles | linear
projection
mm
scale X
dr M.YAMASHITA 2009-6-29
engr M.YAMASHITA 2009-6-29
chr S.Withler 2009-6-29
appd S.Gadomski 2009-6-29
product family 58PF/58QF
CODE JP
title 1mm SPACING CONNECTOR DOCUMENT LIST
dwg no JSA 96417
sheet 1 of 1
size A4
type Product Customer Drawing
sheet index | revision sheet | E 1
Rev. E

form: A4

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO. RIGHT ANGLE TYPE	CAT. NO. STRAIGHT TYPE	DIMENSIONS (NOTE1) A ± 0.3	B± 0.1	C
4	HLW 4R-2D7LF	HLW 4S-2D7LF	6.6	5.12	3.0
5	HLW 5R-2D7LF	HLW 5S-2D7LF	7.6	6.12	4.0
6	HLW 6R-2D7LF	HLW 6S-2D7LF	8.6	7.12	5.0
7	HLW 7R-2D7LF	HLW 7S-2D7LF	9.6	8.12	6.0
8	HLW 8R-2D7LF	HLW 8S-2D7LF	10.6	9.12	7.0
9	HLW 9R-2D7LF	HLW 9S-2D7LF	11.6	10.12	8.0
10	HLW10R-2D7LF	HLW10S-2D7LF	12.6	11.12	9.0
11	HLW11R-2D7LF	HLW11S-2D7LF	13.6	12.12	10.0
12	HLW12R-2D7LF	HLW12S-2D7LF	14.6	13.12	11.0
13	HLW13R-2D7LF	HLW13S-2D7LF	15.6	14.12	12.0
14	HLW14R-2D7LF	HLW14S-2D7LF	16.6	15.12	13.0
15	HLW15R-2D7LF	HLW15S-2D7LF	17.6	16.12	14.0
16	HLW16R-2D7LF	HLW16S-2D7LF	18.6	17.12	15.0
17	HLW17R-2D7LF	HLW17S-2D7LF	19.6	18.12	16.0
18	HLW18R-2D7LF	HLW18S-2D7LF	20.6	19.12	17.0
19	HLW19R-2D7LF	HLW19S-2D7LF	21.6	20.12	18.0
20	HLW20R-2D7LF	HLW20S-2D7LF	22.6	21.12	19.0
21	HLW21R-2D7LF	HLW21S-2D7LF	23.6	22.12	20.0
22	HLW22R-2D7LF	HLW22S-2D7LF	24.6	23.12	21.0
23	HLW23R-2D7LF	HLW23S-2D7LF	25.6	24.12	22.0
24	HLW24R-2D7LF	HLW24S-2D7LF	26.6	25.12	23.0
25	HLW25R-2D7LF	HLW25S-2D7LF	27.6	26.12	24.0
26	HLW26R-2D7LF	HLW26S-2D7LF	28.6	27.12	25.0
27	HLW27R-2D7LF	HLW27S-2D7LF	29.6	28.12	26.0
28	HLW28R-2D7LF	HLW28S-2D7LF	30.6	29.12	27.0
29	HLW29R-2D7LF	HLW29S-2D7LF	31.6	30.12	28.0
30	HLW30R-2D7LF	HLW30S-2D7LF	32.6	31.12	29.0
31	HLW31R-2D7LF	HLW31S-2D7LF	33.6	32.12	30.0
32	HLW32R-2D7LF	HLW32S-2D7LF	34.6	33.12	31.0

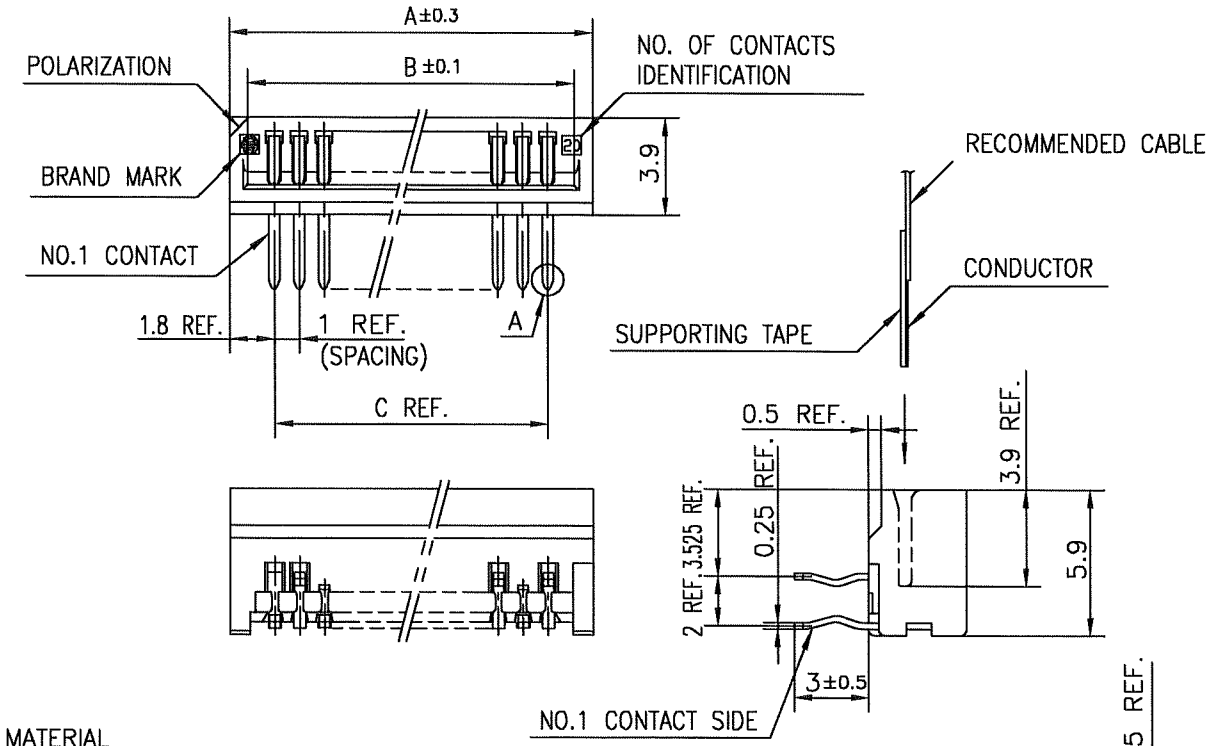
CAT. NO. HLW (n) R – 2D7 LF

- SERIES
- NO. OF CONTACTS
- R : RIGHTANGLE TYPE
  S : STRAIGHT TYPE
  VARIATION
- LEAD FREE

NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

| | | |



MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
COLOR : BLACK
CONTACT : PHOSPHOR BRONZE
PLATING : TIN

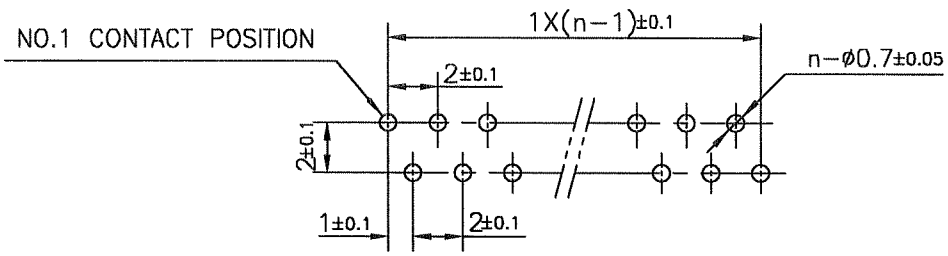
NOTE

1. THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
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 WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BORAD

THICKNESS : 1.2~1.6
HOLE PATTERN (COMPONENT SIDE)

n:NO.OF CONTACTS



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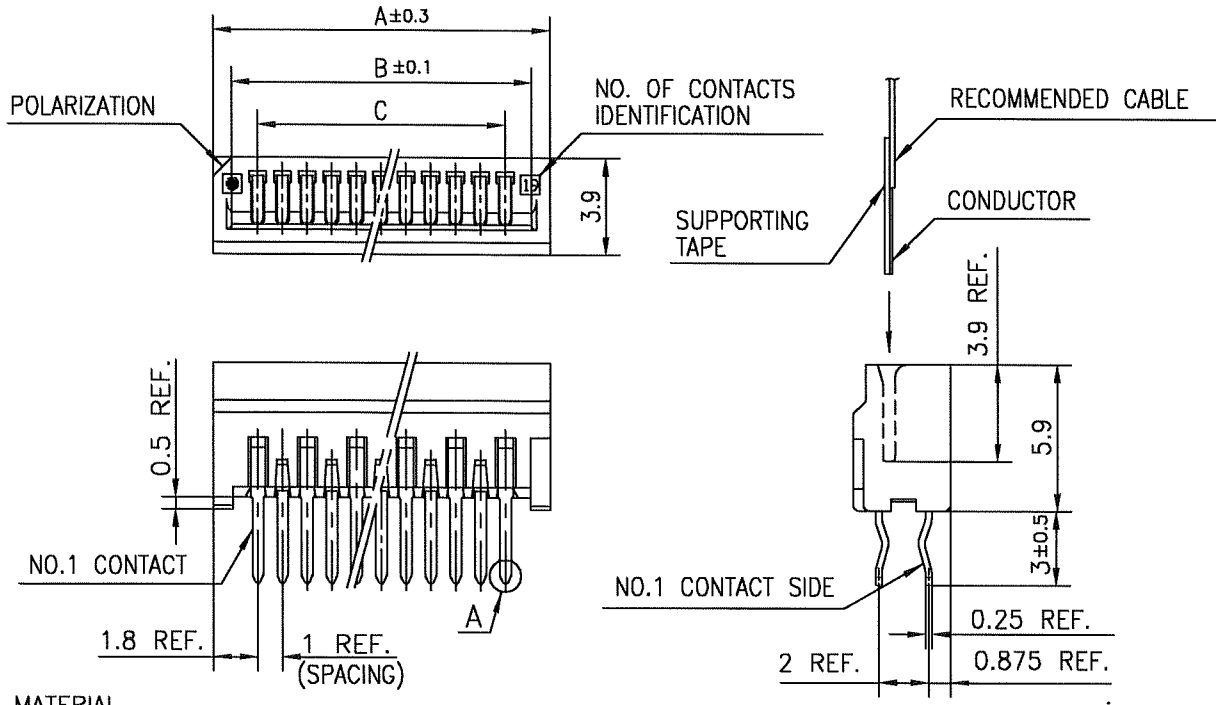
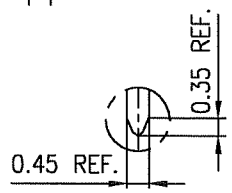


MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
COLOR : BLACK
CONTACT : PHOSPHOR BRONZE
PLATING : TIN



DETAIL A

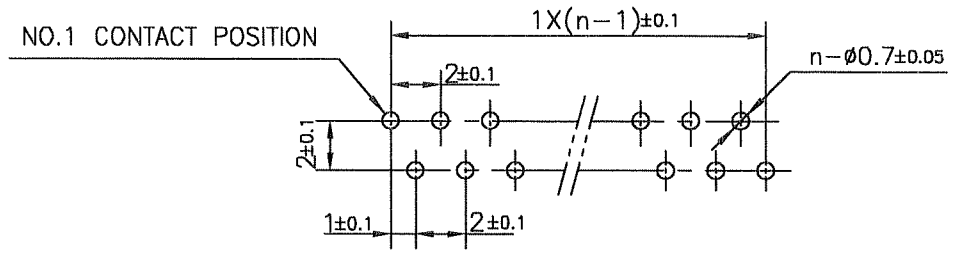
NOTE

1.THIS PRODUCT IS STRAIGHT TYPE CONNECTOR.
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 WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BORAD

THICKNESS : 1.2~1.6
HOLE PATTERN (COMPONENT SIDE)

n:NO.OF CONTACTS



mat'l. code				surface 58 ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 58QF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified			title 1mm SPACING CONNECTOR FOR FPC/FFC (CAT NO. HLW__S-2D7LF)	
A	J05-0270	H.T	5/10/'05	angles	linear ±0.2	mm		
B	J05-0735	H.T	10/28/'05					
C	J06-0449	H.T	11/2/'06			scale X		
				dr			dwg no JSA 96411	sheet 1 of 1 size A4
				engr				
				chr				
				appd			type Product Customer Drawing	
sheet index	revision sheet	C 1						Rev. C

SC-HLW05 form: A4 JSA96409

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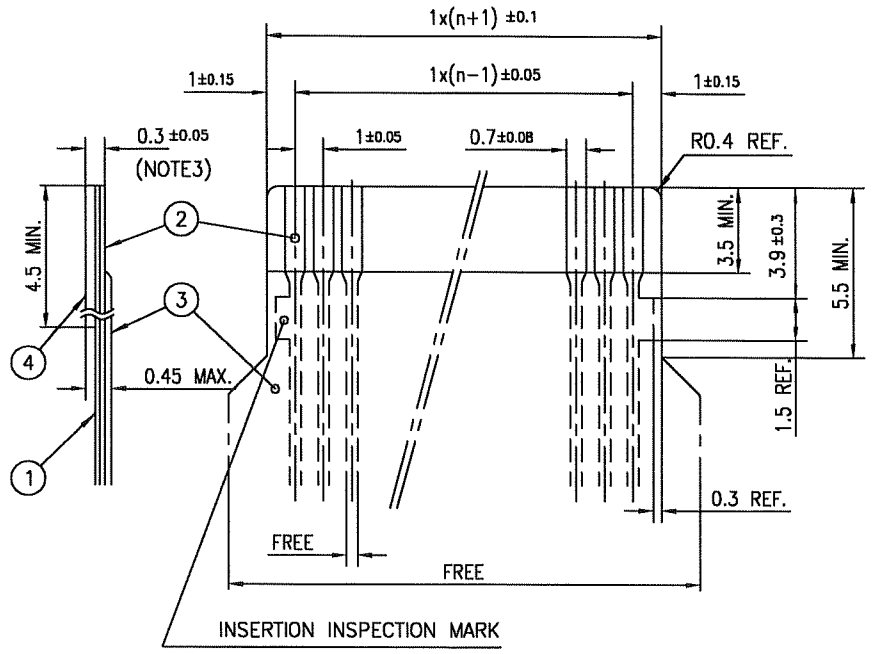
RECOMMENDED CABLE (FPC)

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 1μm MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	———
4	SUPPORTING TAPE	POLYESTER OR POLYMIDE 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.

ltr	ecn no	dr	date
AA	J05-0270	H.T	5/11/'05
AB	J06-0449	H.T	11/2/'06

mat'l. code

surface 58 ISO 1302

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified

angles | linear

projection

mm

scale X

product family 58PF/QF

CODE JP

title

RECOMMENDED CABLE (FPC)

(Cat. No. HLW__R/S-____)

dr	K. Hayashi	11/2/'06
engr	T. Ishihara	11/2/'06
chr	R. Shouji	11/2/'06
appd	S. Ondaira	11/7/'06

dwg no JSA 93382

sheet 1 of 1

size A4

type Product Customer Drawing

sheet index	revision	AB
	sheet	1

Rev. AB

form: A4

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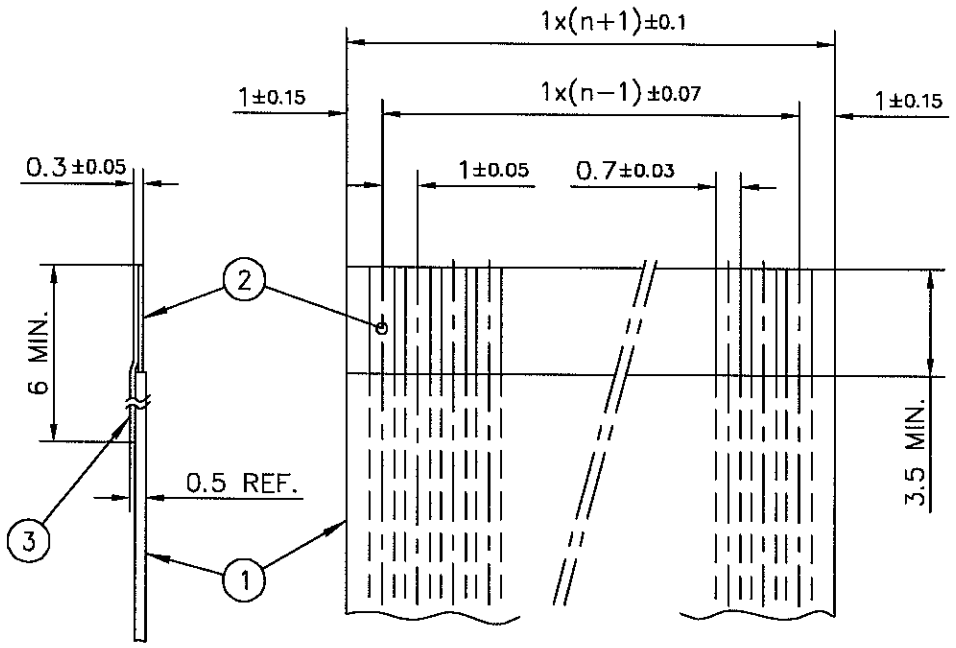
PDM: Rev:AB STATUS:Released Printed: Feb 20, 2008

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



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

NOTES

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

ltr	ecn no	dr	date
AA	J05-0270	H.T	5/11/'05
AB	J06-0449	H.T	11/2/'06

mat'l. code

surface 58 ISO 1302

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified: angles, linear

projection

mm

scale X

dr 11/2/06

engr 11/2/06

chr 11/2/'06

appd 11/7/'06

product family 58PF/QF

CODE JP

title: RECOMMENDED CABLE (FFC) (Cat. No. HLW__R/S-___)

dwg no JSA 93383

sheet 1 of 1

size A4

type Product Customer Drawing

sheet index	revision	AB
	sheet	1

Rev. AB

form: A4

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CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.		DIMENSIONS (NOTE1)		
	STRAIGHT TYPE	RIGHT ANGLE TYPE	A ± 0.3	B ± 0.1	C
4	HLW 4S-6D7LF	HLW 4R-6D7LF	6.6	5.12	3.0
5	HLW 5S-6D7LF	HLW 5R-6D7LF	7.6	6.12	4.0
6	HLW 6S-6D7LF	HLW 6R-6D7LF	8.6	7.12	5.0
7	HLW 7S-6D7LF	HLW 7R-6D7LF	9.6	8.12	6.0
8	HLW 8S-6D7LF	HLW 8R-6D7LF	10.6	9.12	7.0
9	HLW 9S-6D7LF	HLW 9R-6D7LF	11.6	10.12	8.0
10	HLW10S-6D7LF	HLW10R-6D7LF	12.6	11.12	9.0
11	HLW11S-6D7LF	HLW11R-6D7LF	13.6	12.12	10.0
12	HLW12S-6D7LF	HLW12R-6D7LF	14.6	13.12	11.0
13	HLW13S-6D7LF	HLW13R-6D7LF	15.6	14.12	12.0
14	HLW14S-6D7LF	HLW14R-6D7LF	16.6	15.12	13.0
15	HLW15S-6D7LF	HLW15R-6D7LF	17.6	16.12	14.0
16	HLW16S-6D7LF	HLW16R-6D7LF	18.6	17.12	15.0
17	HLW17S-6D7LF	HLW17R-6D7LF	19.6	18.12	16.0
18	HLW18S-6D7LF	HLW18R-6D7LF	20.6	19.12	17.0
19	HLW19S-6D7LF	HLW19R-6D7LF	21.6	20.12	18.0
20	HLW20S-6D7LF	HLW20R-6D7LF	22.6	21.12	19.0
21	HLW21S-6D7LF	HLW21R-6D7LF	23.6	22.12	20.0
22	HLW22S-6D7LF	HLW22R-6D7LF	24.6	23.12	21.0
23	HLW23S-6D7LF	HLW23R-6D7LF	25.6	24.12	22.0
24	HLW24S-6D7LF	HLW24R-6D7LF	26.6	25.12	23.0
25	HLW25S-6D7LF	HLW25R-6D7LF	27.6	26.12	24.0
26	HLW26S-6D7LF	HLW26R-6D7LF	28.6	27.12	25.0
27	HLW27S-6D7LF	HLW27R-6D7LF	29.6	28.12	26.0
28	HLW28S-6D7LF	HLW28R-6D7LF	30.6	29.12	27.0
29	HLW29S-6D7LF	HLW29R-6D7LF	31.6	30.12	28.0
30	HLW30S-6D7LF	HLW30R-6D7LF	32.6	31.12	29.0
31	HLW31S-6D7LF	HLW31R-6D7LF	33.6	32.12	30.0
32	HLW32S-6D7LF	HLW32R-6D7LF	34.6	33.12	31.0

CAT. NO. HLW (n) S - 6D7 LF

- SERIES
- NO. OF CONTACTS
- S : STRAIGHT TYPE
  R : RIGHT ANGLE TYPE
- VARIATION
- LEAD FREE

NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

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ltr	ecn no	dr	date
A	J05-0270	H.T	5/10/'05
B	J06-0238	M.M	6/8/'06
C	J09-0255	M.Y	2009-6-29

mat'l. code: -
surface: ISO 1302 58
tolerance: ISO 406 ISO 1101
tolerances unless otherwise specified
angles | linear
projection
mm
scale %

dr	H.YAMAGUCHI	2009-6-29
engr	H.YAMAGUCHI	2009-6-29
chr	S. Watabe	2009-6-29
appd	T. Okudaira	2009-6-29

product family: 58PF/58QF
CODE: JP
title: CAT NO.TABLE FOR 1mm SPACING CONNECTOR (CAT NO. HLW__R/S-6D7LF)
dwg no: JSA 96412
sheet 1 of 1
size: A4
type: Product Customer Drawing

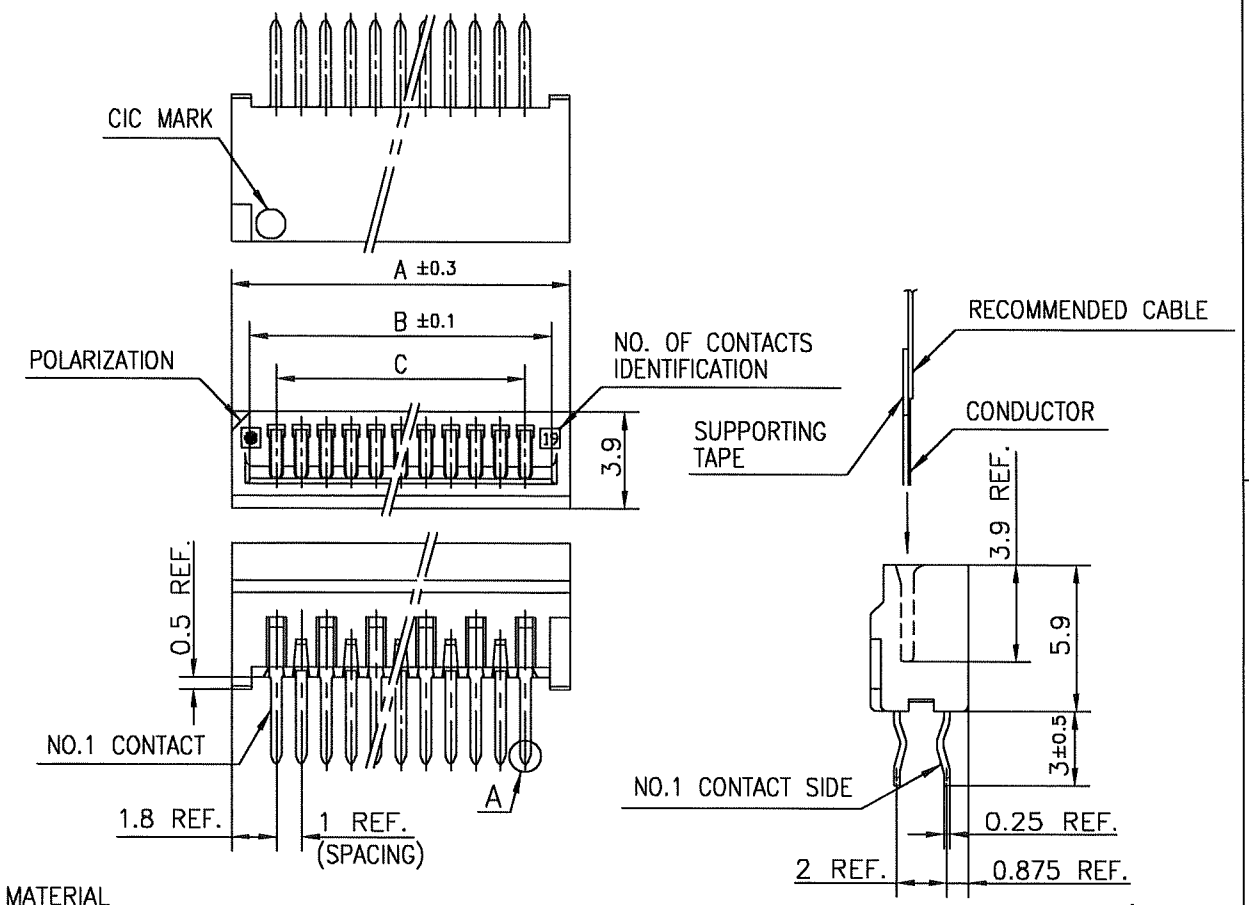
sheet index	revision	C
	sheet	1

Rev. C

form: A4

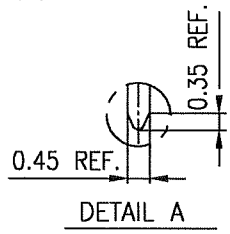
SC-HLW06 JSA96413 93626

PDM: Rev:C STATUS:Released Printed: Jun 29, 2009



MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
COLOR : BLACK
CONTACT : PHOSPHOR BRONZE
PLATING : TIN



DETAIL A

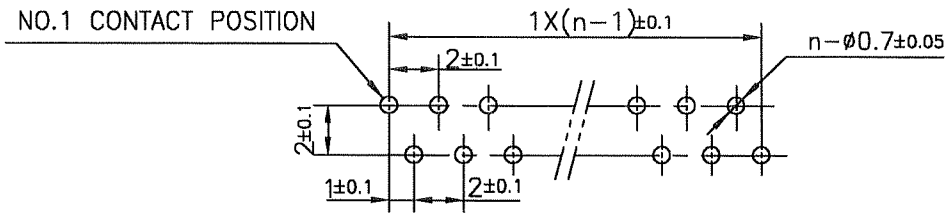
NOTE

1.THIS PRODUCT IS STRAIGHT TYPE CONNECTOR.
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 WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BORAD

THICKNESS : 1.2~1.6
HOLE PATTERN (COMPONENT SIDE)

n:NO.OF CONTACTS



mat'l. code				surface 58 ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 58QF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified			title 1mm SPACING CONNECTOR FOR CIC (CAT NO. HLW__S-6D7LF)	
A	J05-0270	H.T	5/10/'05	angles	linear ±0.2	mm		
B	J05-0735	H.T	10/28/'05					
C	J06-0449	H.T	11/2/'06			scale X		
				dr			dwg no JSA 96413	sheet 1 of 1 size A4
				engr				
				chr				
				appd			type Product Customer Drawing	

sheet index	revision sheet	C 1	Rev. C

SC-HLW06 form: A4 JSA96412

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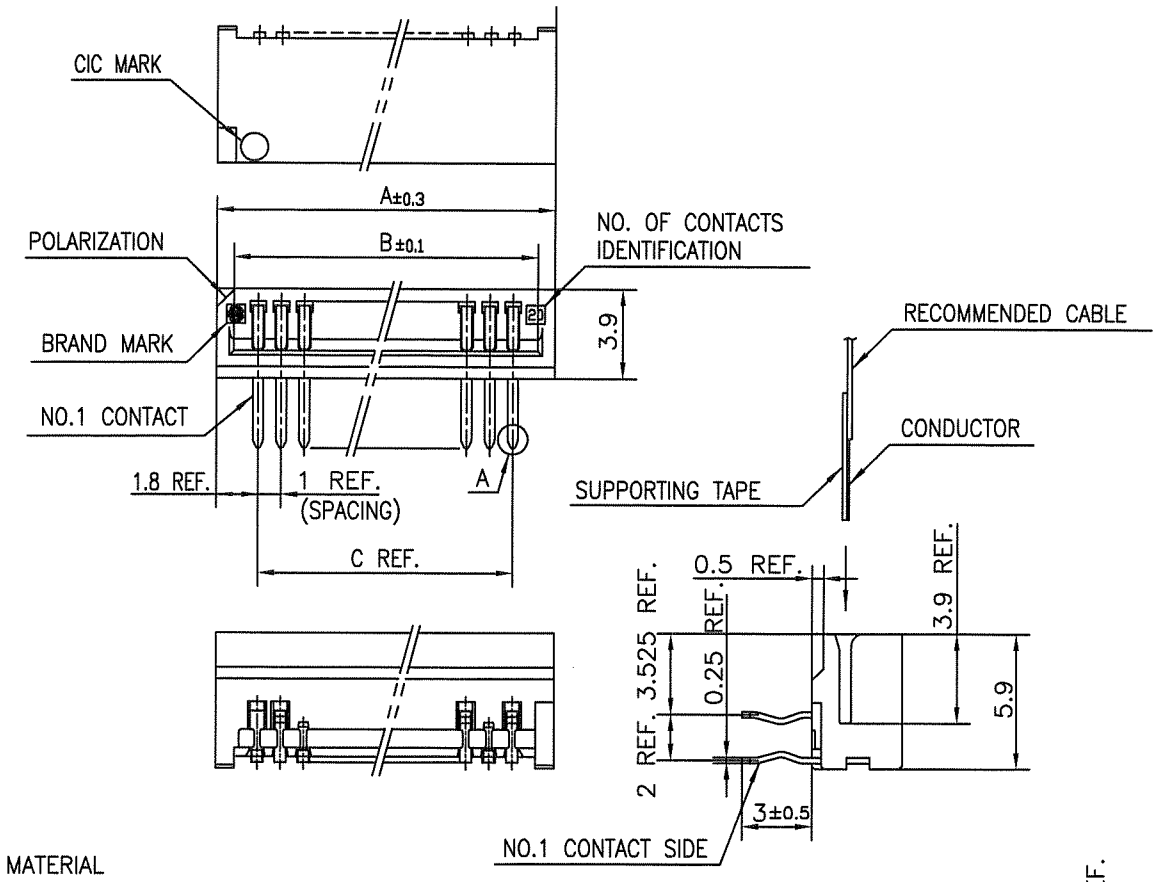
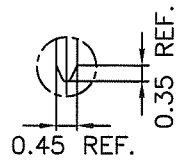


MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
COLOR : BLACK
CONTACT : PHOSPHOR BRONZE
PLATING : TIN



DETAIL A

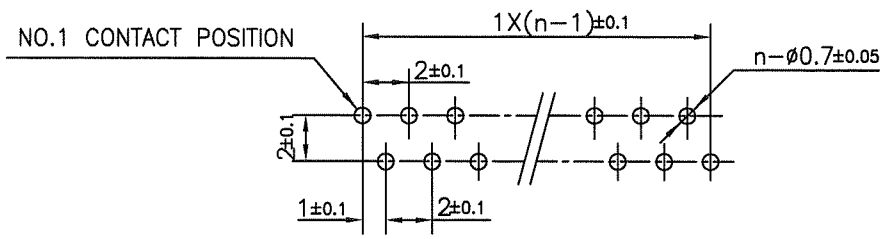
NOTE

1. THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
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 WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BORAD

THICKNESS : 1.2~1.6
HOLE PATTERN (COMPONENT SIDE)

n:NO.OF CONTACTS



mat'l. code	surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family	CODE
–	58	tolerances unless otherwise specified		58PF	JP

ltr	ecn no	dr	date
A	J06-0238	M.M	6/8/'06
B	J09-0255	M.Y	2009-6-29

angles / linear: ±0.2

mm

scale %

dr	M.YAMASHITA	2009-6-29
engr	M.YAMASHITA	2009-6-29
chr	S. Wirth	2009-6-29
appd	S. Audano	2009-6-29

title: 1mm SPACING CONNECTOR FOR CIC (CAT NO. HLW___R-6D7LF)

dwg no JSA 97169 | sheet 1 of 1 | size A4

type Product Customer Drawing

sheet index	revision	B
	sheet	1

Rev. B

form: A4

SC-HLW06 JSA93626

PDM: Rev:B STATUS:Released Printed: Jun 29, 2009

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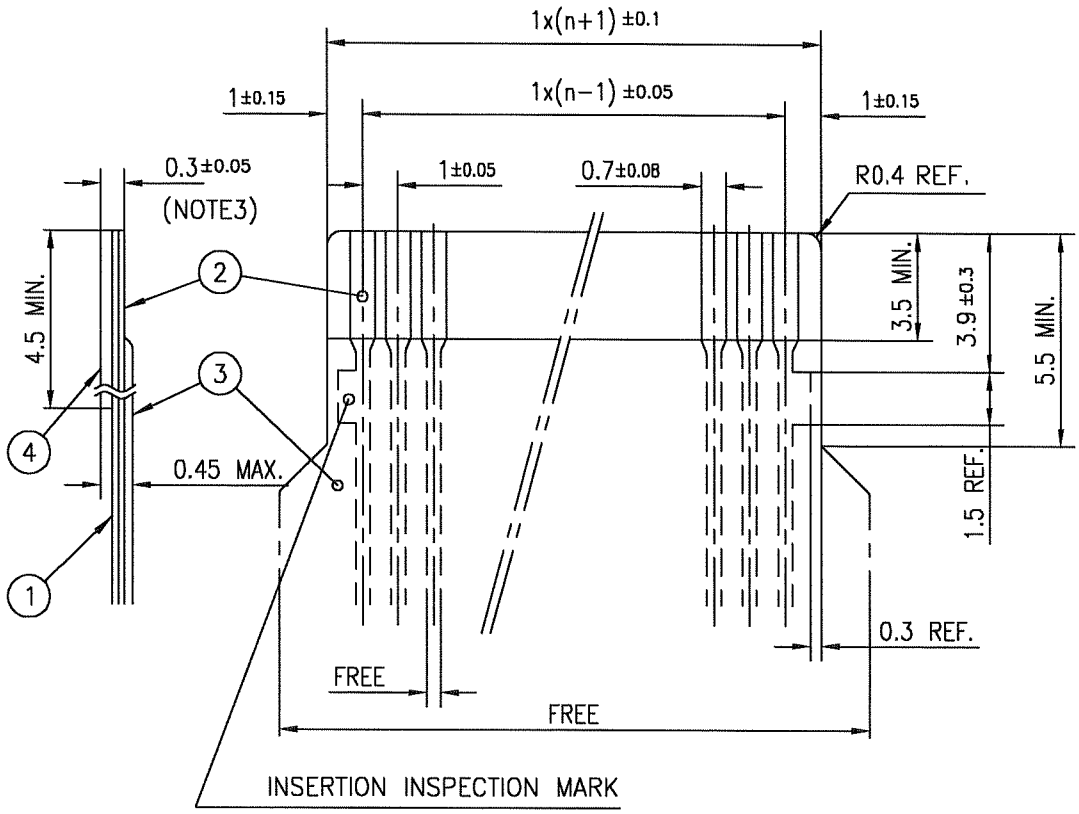
RECOMMENDED CABLE (CIC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	THICKNESS (μm)	
1	BASE FILM	POLYESTER OR EQUIVALENT	75	25
2	CONDUCTOR	CARBON PASTE OVER SILVER PASTE	10 MIN.	
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	———	
4	SUPPORTING TAPE	POLYESTER OR POLYMIDE OR EQUIVALENT	188	250

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.

ltr	ecn no	dr	date
AA	J05-0270	H.T	5/11/'05
AB	J06-0449	H.T	11/2/'06

mat'l. code

surface ISO 1302 √

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified: angles; linear

projection

mm

scale X

product family 58PF/QF

CODE JP

title: RECOMMENDED CABLE (CIC) (Cat. No. HLW__R/S-___)

dr	H. Takeuchi	11/2/06
engr	H. Takeuchi	11/2/06
chr	K. Shouji	11/2/'06
appd	S. Nakano	11/7/'06

dwg no JSA 93626

sheet 1 of 1

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