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## List of "SFW\_\_R-1/2STE1LF" customer document

| DOCUMENT NO. | LIST                                                                                |
|--------------|-------------------------------------------------------------------------------------|
| SC-SFW10     | SPEC.                                                                               |
| JSA95854     | CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR (SFW__R-1/2ST__LF)                       |
| JSA95855     | 1mm SPACING SMT CONNECTOR (SFW__R-1ST__LF)                                          |
| JSA95856     | 1mm SPACING SMT CONNECTOR (SFW__R-2ST__LF)                                          |
| JSA95857     | CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (SFW__R-1/2STE1LF) |
| JSA95858     | PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (SFW__R-1STE1LF)                    |
| JSA95859     | PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (SFW__R-2STE1LF)                    |
| JSA91605     | RECOMMENDED CABLE (FPC) (SFW__R-1/2ST__)                                            |
| JSA91604     | RECOMMENDED CABLE (FFC) (SFW__R-1/2ST__)                                            |
| GS-20-129    | HANDLING PROCEDURES                                                                 |

|               |  |  |  |                                                 |  |            |  |                     |  |                                             |  |
|---------------|--|--|--|-------------------------------------------------|--|------------|--|---------------------|--|---------------------------------------------|--|
| mat'l. code - |  |  |  | surface ISO 1302 58/ tolerance ISO 406 ISO 1101 |  | projection |  | product family 58RF |  | CODE JP                                     |  |
| ltr           |  |  |  | ecn no                                          |  | dr         |  | date                |  | title                                       |  |
| A             |  |  |  | J05-0055                                        |  | H.T        |  | '05/2/4             |  | 1mm SPACING FPC/FFC CONNECTOR DOCUMENT LIST |  |
| B             |  |  |  | J06-0398                                        |  | H.T        |  | 9/26/'06            |  | (Cat. No. : SFW__R-1/2STE1LF)               |  |
| C             |  |  |  | J09-0358                                        |  | M.Y        |  | 2009-10-5           |  |                                             |  |
| D             |  |  |  | J09-0380                                        |  | M.Y        |  | 2009-10-27          |  |                                             |  |
|               |  |  |  |                                                 |  |            |  |                     |  | dwg no sheet 1 of 1 size                    |  |
|               |  |  |  |                                                 |  |            |  |                     |  | JSA 96336 A4                                |  |
|               |  |  |  |                                                 |  |            |  |                     |  | type Product Customer Drawing               |  |
| sheet index   |  |  |  | revision sheet                                  |  | D 1        |  |                     |  | Rev. D                                      |  |

form: A4

1

2

PDM: Rev:D

STATUS: Released

Printed: Nov 01, 2009

## CAT. NO. &amp; DIMENSIONS

| NO. OF CONTACTS (n) | CAT. NO.         | DIMENSIONS (NOTE2) |         |         |         |
|---------------------|------------------|--------------------|---------|---------|---------|
|                     |                  | A ± 0.2            | B ± 0.2 | C ± 0.2 | D ± 0.1 |
| 4                   | SFW4R-1/2ST__LF  | 9.8                | 8.6     | 3.0     | 5.3     |
| 5                   | SFW5R-1/2ST__LF  | 10.8               | 9.6     | 4.0     | 6.3     |
| 6                   | SFW6R-1/2ST__LF  | 11.8               | 10.6    | 5.0     | 7.3     |
| 7                   | SFW7R-1/2ST__LF  | 12.8               | 11.6    | 6.0     | 8.3     |
| 8                   | SFW8R-1/2ST__LF  | 13.8               | 12.6    | 7.0     | 9.3     |
| 9                   | SFW9R-1/2ST__LF  | 14.8               | 13.6    | 8.0     | 10.3    |
| 10                  | SFW10R-1/2ST__LF | 15.8               | 14.6    | 9.0     | 11.3    |
| 11                  | SFW11R-1/2ST__LF | 16.8               | 15.6    | 10.0    | 12.3    |
| 12                  | SFW12R-1/2ST__LF | 17.8               | 16.6    | 11.0    | 13.3    |
| 13                  | SFW13R-1/2ST__LF | 18.8               | 17.6    | 12.0    | 14.3    |
| 14                  | SFW14R-1/2ST__LF | 19.8               | 18.6    | 13.0    | 15.3    |
| 15                  | SFW15R-1/2ST__LF | 20.8               | 19.6    | 14.0    | 16.3    |
| 16                  | SFW16R-1/2ST__LF | 21.8               | 20.6    | 15.0    | 17.3    |
| 17                  | SFW17R-1/2ST__LF | 22.8               | 21.6    | 16.0    | 18.3    |
| 18                  | SFW18R-1/2ST__LF | 23.8               | 22.6    | 17.0    | 19.3    |
| 19                  | SFW19R-1/2ST__LF | 24.8               | 23.6    | 18.0    | 20.3    |
| 20                  | SFW20R-1/2ST__LF | 25.8               | 24.6    | 19.0    | 21.3    |
| 21                  | SFW21R-1/2ST__LF | 26.8               | 25.6    | 20.0    | 22.3    |
| 22                  | SFW22R-1/2ST__LF | 27.8               | 26.6    | 21.0    | 23.3    |
| 23                  | SFW23R-1/2ST__LF | 28.8               | 27.6    | 22.0    | 24.3    |
| 24                  | SFW24R-1/2ST__LF | 29.8               | 28.6    | 23.0    | 25.3    |
| 25                  | SFW25R-1/2ST__LF | 30.8               | 29.6    | 24.0    | 26.3    |
| 26                  | SFW26R-1/2ST__LF | 31.8               | 30.6    | 25.0    | 27.3    |
| 27                  | SFW27R-1/2ST__LF | 32.8               | 31.6    | 26.0    | 28.3    |
| 28                  | SFW28R-1/2ST__LF | 33.8               | 32.6    | 27.0    | 29.3    |
| 29                  | SFW29R-1/2ST__LF | 34.8               | 33.6    | 28.0    | 30.3    |
| 30                  | SFW30R-1/2ST__LF | 35.8               | 34.6    | 29.0    | 31.3    |

CAT. NO.

SFW (n) R - 1 ST \_\_ LF

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

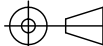
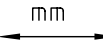
LEAD FREE

## NOTES

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

2. SEE PART DRAWINGS FOR DIMENSIONS A~D.

3. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

|             |          |          |          |                                                                                     |                                                                                           |                                                                                     |                                                                                                |                                                                                |                             |  |  |         |  |  |  |  |         |
|-------------|----------|----------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------|--|--|---------|--|--|--|--|---------|
| mat'l. code |          |          |          | surface 58 / tolerance ISO 1302 ISO 406 ISO 1101                                    |                                                                                           |                                                                                     | projection  | product family 58RF                                                            |                             |  |  | CODE JP |  |  |  |  |         |
| ltr         | ecn no   | dr       | date     | tolerances unless otherwise specified                                               |                                                                                           |                                                                                     |                                                                                                | title CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1/2ST__LF) |                             |  |  |         |  |  |  |  |         |
| AA          | J05-0055 | H.T      | 05-02-04 | angles                                                                              | linear                                                                                    |  |                                                                                                |                                                                                |                             |  |  |         |  |  |  |  |         |
| AB          | J06-0398 | H.T      | 06-09-26 |                                                                                     |                                                                                           |                                                                                     |                                                                                                |                                                                                |                             |  |  |         |  |  |  |  |         |
| AC          | S08-0276 | DGOH     | 08-08-22 |  | scale  |                                                                                     |                                                                                                |                                                                                |                             |  |  |         |  |  |  |  |         |
|             |          |          |          |                                                                                     |                                                                                           | dr                                                                                  | H. TAKAKURA                                                                                    | 06-09-26                                                                       | dwg no sheet 1 of 1 size A4 |  |  |         |  |  |  |  |         |
|             |          |          |          |                                                                                     |                                                                                           | enr                                                                                 | H. TAKAKURA                                                                                    | 06-09-26                                                                       |                             |  |  |         |  |  |  |  |         |
|             |          |          |          |                                                                                     |                                                                                           | chr                                                                                 | DENNIS GOH                                                                                     | 08-08-22                                                                       |                             |  |  |         |  |  |  |  |         |
|             |          |          |          |                                                                                     |                                                                                           | appd                                                                                | JOEY NG                                                                                        | 08-08-22                                                                       |                             |  |  |         |  |  |  |  |         |
| sheet index |          | revision | AC       |                                                                                     |                                                                                           |                                                                                     |                                                                                                |                                                                                |                             |  |  |         |  |  |  |  | Rev. AC |
|             |          | sheet    | 1        |                                                                                     |                                                                                           |                                                                                     |                                                                                                |                                                                                |                             |  |  |         |  |  |  |  |         |

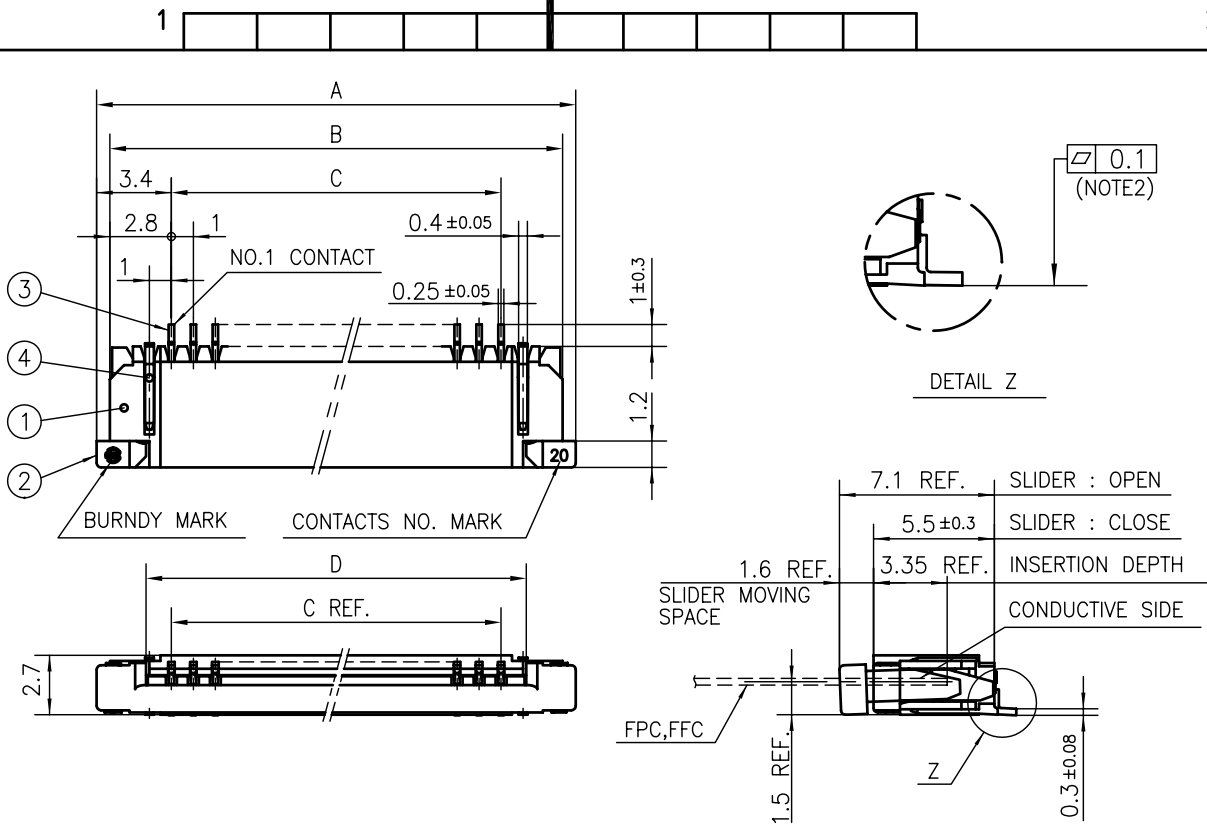
SC-SFW10 JSA95855 95856 95857 95858 95859 91605 91604 1

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| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                                      |      |               |  |  |  |  |  | 2                                     |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------|------|---------------|--|--|--|--|--|---------------------------------------|--|--------------------|--|-----------------------------------------------------------------|--|---------------------|--|---------|--|---------|------------|----------|------|------|---|---------|--------------------------------------|---|---------------|---|--------|--------------------------------------|---|---------------|---|---------|-----------------|---|---------------|---|----------------|---|
| <p>Top view dimensions: A, B, C, 3.4, 2.8, 1, 0.4±0.05, 0.25±0.05, 1±0.3, 1.2, 20. Labels: NO.1 CONTACT, BURNDY MARK, KEY SLOT FOR EXTRACTION TOOL, CONTACTS NO. MARK.</p> <p>Side view dimensions: C REF., D, 2.7.</p> <p>Detail Z: 0.1 (NOTE2).</p> <p>Slider dimensions: 7.3 REF., 5.5±0.3, 1.8 REF., 3.35 REF., 15°, 1.2 REF., 0.3±0.08. Labels: SLIDER : OPEN, SLIDER : CLOSE, INSERTION DEPTH, FPC,FFC, CONDUCTIVE SIDE.</p>                                                                                                                                                                                                                                                                                    |                |                                      |      |               |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| <table border="1"><thead><tr><th>PT. NO.</th><th>PARTS NAME</th><th>MATERIAL</th><th>Q'TY</th><th>NOTE</th></tr></thead><tbody><tr><td>1</td><td>HOUSING</td><td>PPS RESIN GLASS REINFORCED (UL94V-0)</td><td>1</td><td>COLOR : BROWN</td></tr><tr><td>2</td><td>SLIDER</td><td>PPS RESIN GLASS REINFORCED (UL94V-0)</td><td>1</td><td>COLOR : BLACK</td></tr><tr><td>3</td><td>CONTACT</td><td rowspan="2">PHOSPHOR BRONZE</td><td>n</td><td rowspan="2">PLATING : TIN</td></tr><tr><td>4</td><td>MOUNTING PLATE</td><td>2</td></tr></tbody></table>                                                                                                                                                                 |                |                                      |      |               |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  | PT. NO. | PARTS NAME | MATERIAL | Q'TY | NOTE | 1 | HOUSING | PPS RESIN GLASS REINFORCED (UL94V-0) | 1 | COLOR : BROWN | 2 | SLIDER | PPS RESIN GLASS REINFORCED (UL94V-0) | 1 | COLOR : BLACK | 3 | CONTACT | PHOSPHOR BRONZE | n | PLATING : TIN | 4 | MOUNTING PLATE | 2 |
| PT. NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PARTS NAME     | MATERIAL                             | Q'TY | NOTE          |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HOUSING        | PPS RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR : BROWN |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SLIDER         | PPS RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR : BLACK |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTACT        | PHOSPHOR BRONZE                      | n    | PLATING : TIN |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MOUNTING PLATE |                                      | 2    |               |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| <p>n : NO. OF CONTACTS</p> <p>NOTES</p> <ol style="list-style-type: none"><li>1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).</li><li>2. FLATNESS FOR CONTACT TERMINAL HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.</li><li>3. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.</li><li>4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008</li><li>5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.</li></ol> <p>3. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING. REVISION.</p> |                |                                      |      |               |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| <p>RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)</p> <p>BASIC PATTERN</p> <p>NO.1 CONTACT POSITION</p> <p>PATTERN FOR MOUNTING PLATE FIXING</p> <p>CONNECTOR OUTLINE</p> <p>Dimensions: 1X(n-1)±0.05, 1±0.05, 0.6±0.05, 1.5 REF., 2±0.1, 1±0.1, 4.2±0.1, 5.5 REF., 1±0.05, 0.7±0.05, 1X(n+1)±0.05.</p>                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                      |      |               |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| mat'l. code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                      |      |               |  |  |  |  |  | surface 58                            |  | tolerance ISO 1302 |  | projection                                                      |  | product family 58RF |  | CODE JP |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| ltr ecn no dr date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                                      |      |               |  |  |  |  |  | tolerances unless otherwise specified |  |                    |  | title<br>1mm SPACING SMT CONNECTOR<br>(Cat. No. SFW__R-1ST__LF) |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| AA J04-0180 H.T 04-07-02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                                      |      |               |  |  |  |  |  | angles linear ±0.2                    |  | mm                 |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| AB J05-0055 H.T 05-02-04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                                      |      |               |  |  |  |  |  |                                       |  | scale              |  | dwg no sheet 1 of 1 size A4                                     |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| AC J05-0736 H.T 05-10-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                                      |      |               |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| AD J06-0398 H.T 06-09-26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                                      |      |               |  |  |  |  |  | dr H. TAKAKURA 06-09-26               |  |                    |  | type Product Customer Drawing                                   |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| AE S08-0276 DGOH 08-08-22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                      |      |               |  |  |  |  |  | enr H. TAKAKURA 06-09-26              |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                                      |      |               |  |  |  |  |  | chr DENNIS GOH 08-08-22               |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                                      |      |               |  |  |  |  |  | appd JOEY NG 08-08-22                 |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| sheet index                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | revision sheet                       |      | AE 1          |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  | Rev. AE |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |
| SC_SFW10 JSA95854 form: A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                                      |      |               |  |  |  |  |  |                                       |  |                    |  |                                                                 |  |                     |  |         |  |         |            |          |      |      |   |         |                                      |   |               |   |        |                                      |   |               |   |         |                 |   |               |   |                |   |



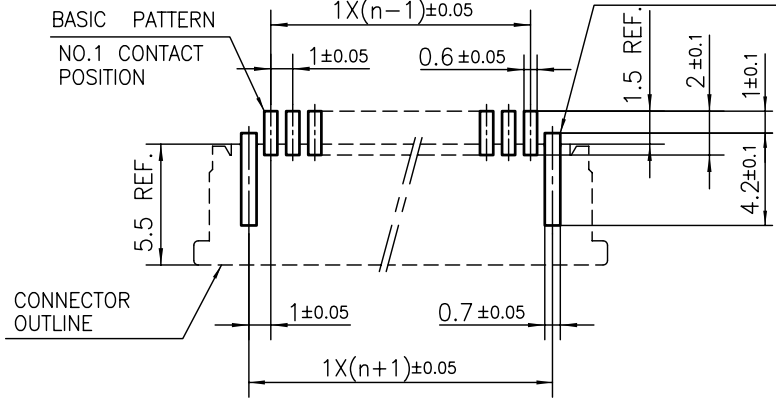
| PT. NO. | PARTS NAME     | MATERIAL                             | Q'TY | NOTE          |
|---------|----------------|--------------------------------------|------|---------------|
| 1       | HOUSING        | PPS RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR : BROWN |
| 2       | SLIDER         |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

n : NO. OF CONTACTS

#### NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPEs WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS FOR CONTACT TERMINAL 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.
6. A SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

#### RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



|             |          |      |          |                                       |                    |            |                                                                 |         |
|-------------|----------|------|----------|---------------------------------------|--------------------|------------|-----------------------------------------------------------------|---------|
| mat'l. code |          |      |          | surface 58                            | tolerance ISO 1302 | projection | product family 58RF                                             | CODE JP |
| ltr         | ecn no   | dr   | date     | tolerances unless otherwise specified |                    |            | title<br>1mm SPACING SMT CONNECTOR<br>(Cat. No. SFW__R-2ST__LF) |         |
| AA          | J04-0180 | H.T  | 04-07-02 | angles                                | linear ±0.2        |            |                                                                 |         |
| AB          | J05-0055 | H.T  | 05-02-04 |                                       |                    | mm         | dwg no sheet 1 of 1 size<br>JSA 95856 A4                        |         |
| AC          | J05-0736 | H.T  | 05-10-28 |                                       |                    | scale X    |                                                                 |         |
| AD          | J06-0398 | H.T  | 06-09-26 | dr                                    | H. TAKAKURA        | 06-09-26   | type Product Customer Drawing                                   |         |
| AE          | S08-0276 | DGOH | 08-08-22 | enr                                   | H. TAKAKURA        | 06-09-26   |                                                                 |         |
|             |          |      |          | chr                                   | DENNIS GOH         | 08-08-22   | Rev. AE                                                         |         |
|             |          |      |          | appd                                  | JOEY NG            | 08-08-22   |                                                                 |         |
| sheet index | revision | AE   |          |                                       |                    |            |                                                                 |         |
|             | sheet    | 1    |          |                                       |                    |            |                                                                 |         |

## CAT. NO. &amp; DIMENSIONS

| NO. OF CONTACTS (n) | CAT. NO. (NOTE2)  | DIMENSIONS (NOTE3) |         |         |
|---------------------|-------------------|--------------------|---------|---------|
|                     |                   | E ± 5              | F ± 0.3 | G ± 0.1 |
| 4                   | SFW4R-1/2STE1 LF  | 20.4               | 16      | —       |
| 5                   | SFW5R-1/2STE1 LF  | 28.4               | 24      | —       |
| 6                   | SFW6R-1/2STE1 LF  | 28.4               | 24      | —       |
| 7                   | SFW7R-1/2STE1 LF  | 28.4               | 24      | —       |
| 8                   | SFW8R-1/2STE1 LF  | 28.4               | 24      | —       |
| 9                   | SFW9R-1/2STE1 LF  | 28.4               | 24      | —       |
| 10                  | SFW10R-1/2STE1 LF | 28.4               | 24      | —       |
| 11                  | SFW11R-1/2STE1 LF | 28.4               | 24      | —       |
| 12                  | SFW12R-1/2STE1 LF | 28.4               | 24      | —       |
| 13                  | SFW13R-1/2STE1 LF | 36.4               | 32      | 28.4    |
| 14                  | SFW14R-1/2STE1 LF | 36.4               | 32      | 28.4    |
| 15                  | SFW15R-1/2STE1 LF | 36.4               | 32      | 28.4    |
| 16                  | SFW16R-1/2STE1 LF | 36.4               | 32      | 28.4    |
| 17                  | SFW17R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 18                  | SFW18R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 19                  | SFW19R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 20                  | SFW20R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 21                  | SFW21R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 22                  | SFW22R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 23                  | SFW23R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 24                  | SFW24R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 25                  | SFW25R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 26                  | SFW26R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 27                  | SFW27R-1/2STE1 LF | 48.4               | 44      | 40.4    |
| 28                  | SFW28R-1/2STE1 LF | 60.4               | 56      | 52.4    |
| 29                  | SFW29R-1/2STE1 LF | 60.4               | 56      | 52.4    |
| 30                  | SFW30R-1/2STE1 LF | 60.4               | 56      | 52.4    |

CAT. NO.

SFW (n) R - 1 ST E1 LF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

1. LOWER CONTACT TYPE
2. UPPER CONTACT TYPE

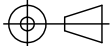
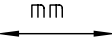
FOR AUTOMATIC MOUNTING (SMT)

TAPE PACKAGING

LEAD FREE

## NOTES

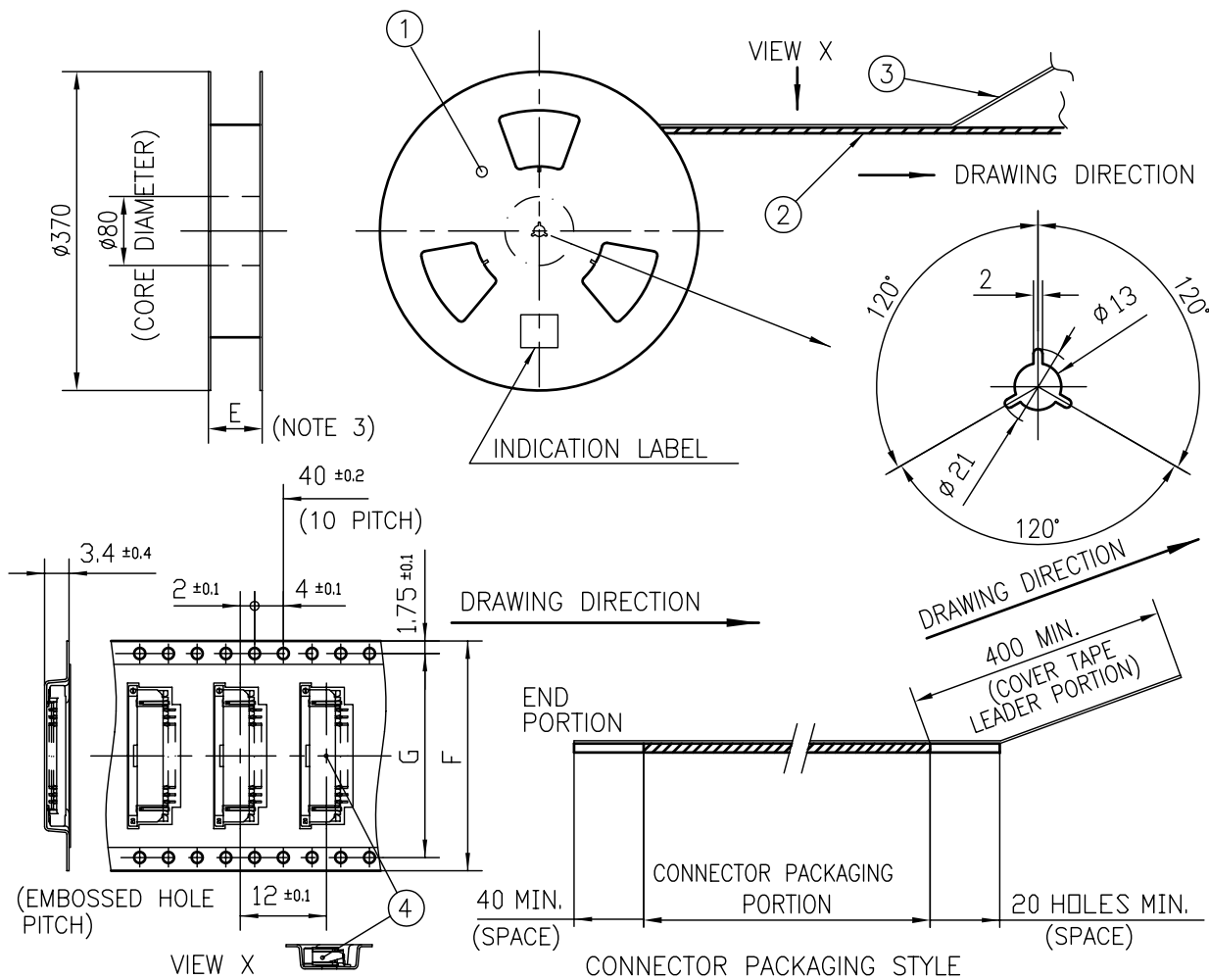
1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPELS WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS E~G.
4. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

|             |          |      |          |                                       |                            |                                                                                                |                                                                                                          |         |
|-------------|----------|------|----------|---------------------------------------|----------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------|
| mat'l. code |          |      |          | surface 58/ISO 1302                   | tolerance ISO 406/ISO 1101 | projection  | product family 58RF                                                                                      | CODE JP |
| ltr         | ecn no   | dr   | date     | tolerances unless otherwise specified |                            |             | title<br>CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1/2STE1 LF) |         |
| AA          | J05-0055 | H.T  | 05-02-04 | angles                                | linear                     |                                                                                                |                                                                                                          |         |
| AB          | J06-0398 | H.T  | 06-09-26 |                                       |                            | scale       | dwg no JSA 95857 sheet 1 of 1 size A4                                                                    |         |
| AC          | S08-0276 | DGOH | 08-08-22 |                                       |                            |                                                                                                |                                                                                                          |         |
|             |          |      |          | dr                                    | H. TAKAKURA                | 06-09-26                                                                                       | type Product Customer Drawing                                                                            |         |
|             |          |      |          | enr                                   | H. TAKAKURA                | 06-09-26                                                                                       |                                                                                                          |         |
|             |          |      |          | chr                                   | DENNIS GOH                 | 08-08-22                                                                                       |                                                                                                          |         |
|             |          |      |          | appd                                  | JOEY NG                    | 08-08-22                                                                                       |                                                                                                          |         |
| sheet index | revision | AC   |          |                                       |                            |                                                                                                |                                                                                                          | Rev. AC |

SC\_SFW10 JSA95854 95858 95859  
form: A4

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| PT. NO. | PARTS NAME            | CAT. NO.       | MATERIAL          | Q'TY  | NOTE               |
|---------|-----------------------|----------------|-------------------|-------|--------------------|
| 1       | REEL                  | _____          | CARDBOARD         | 1     | COLOR:WHITE/GREY   |
| 2       | PLASTIC (EMBOSS) TAPE | _____          | PET               | _____ | COLOR:TRANSPARENCY |
| 3       | COVER                 | _____          | POLYESTER         | _____ | COLOR:TRANSPARENCY |
| 4       | CONNECTOR             | SFW__R-1ST__LF | SEE ATTACHED DWG. | 2000  | LOWER CONTACT TYPE |

## NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND COTES WITH AUTOMATIC MOUNTING (SMT).
2. SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSS) TAPE AND REEL.
3. E DIMENSION IS PORTION OF THE CORE.
4. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

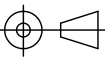
[illegible]



| PT. NO. | PARTS NAME            | CAT. NO.       | MATERIAL          | Q'TY  | NOTE               |
|---------|-----------------------|----------------|-------------------|-------|--------------------|
| 1       | REEL                  | _____          | CARDBOARD         | 1     | COLOR:WHITE/GREY   |
| 2       | PLASTIC (EMBOSS) TAPE | _____          | PET               | _____ | COLOR:TRANSPARENCY |
| 3       | COVER                 | _____          | POLYESTER         | _____ | COLOR:TRANSPARENCY |
| 4       | CONNECTOR             | SFW__R-2ST__LF | SEE ATTACHED DWG. | 2000  | UPPER CONTACT TYPE |

NOTES

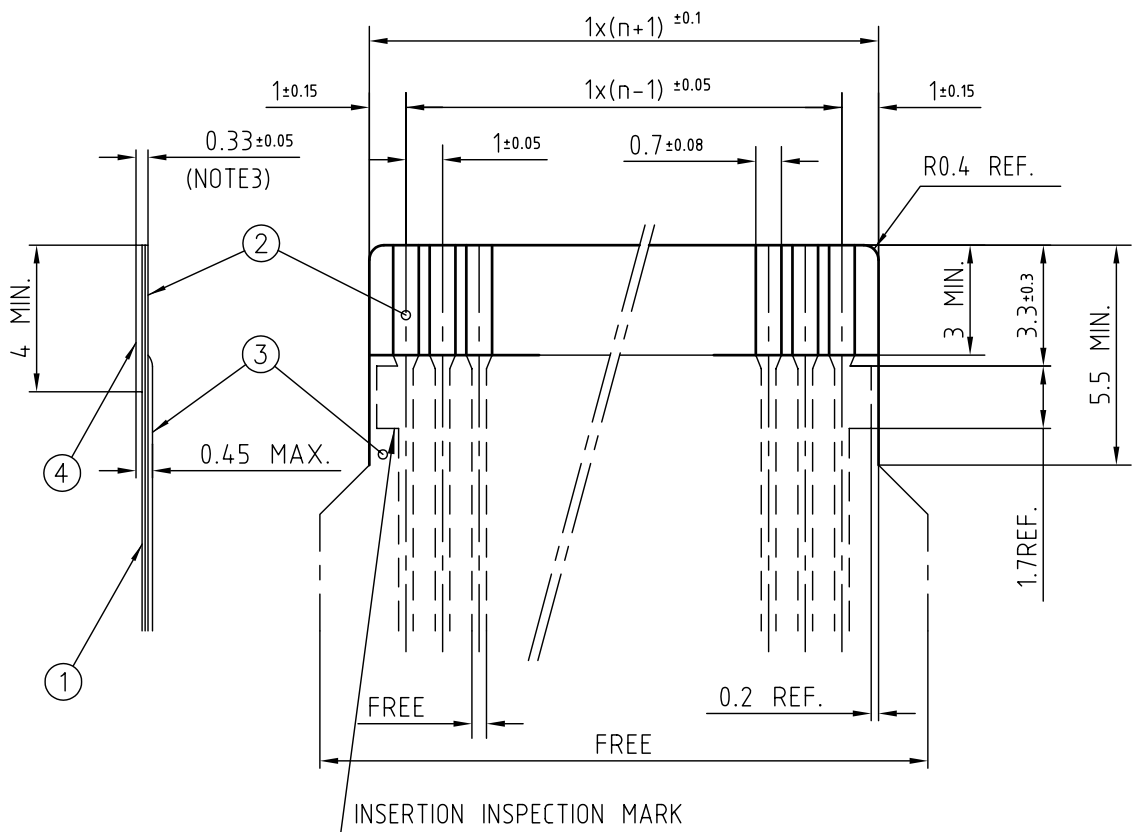
1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSS) TAPE AND REEL.
3. E DIMENSION IS PORTION OF THE CORE.
4. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

| mat'l. code |          |                |          | surface 58 / tolerance ISO 1302 58 / ISO 406 1101 |             | projection                                                                                |                                                                                     | product family 58RF                                                        |           | CODE JP                       |         |
|-------------|----------|----------------|----------|---------------------------------------------------|-------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------|-------------------------------|---------|
| ltr         | ecn no   | dr             | date     | tolerances unless otherwise specified             |             |        |                                                                                     | title                                                                      |           | dwg no                        |         |
| AA          | J05-0055 | H.T            | 05-02-04 | angles                                            | linear      | mm                                                                                        |                                                                                     | PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-2STE1 LF) |           | sheet 1 of 1                  |         |
| AB          | J06-0398 | H.T            | 06-09-26 | ±5°                                               |             |                                                                                           |                                                                                     |                                                                            |           | size A4                       |         |
| AC          | S08-0276 | DGOH           | 08-08-22 | ±5°                                               |             | scale  |                                                                                     |                                                                            |           | type Product Customer Drawing |         |
|             |          |                |          | dr                                                | H. TAKAKURA | 06-09-26                                                                                  |  |                                                                            | JSA 95859 |                               |         |
|             |          |                |          | enr                                               | H. TAKAKURA | 06-09-26                                                                                  |                                                                                     |                                                                            |           |                               |         |
|             |          |                |          | chr                                               | DENNIS GOH  | 08-08-22                                                                                  |                                                                                     |                                                                            |           |                               |         |
|             |          |                |          | appd                                              | JOEY NG     | 08-08-22                                                                                  |                                                                                     |                                                                            |           |                               |         |
| sheet index |          | revision sheet |          | AC                                                |             |                                                                                           |                                                                                     |                                                                            |           |                               | Rev. AC |

SC\_SFW10 form: A4 JSA95857

## RECOMMENDED CABLE (FPC)

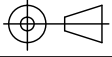
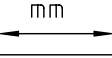
n : NO. OF CONDUCTOR



| 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

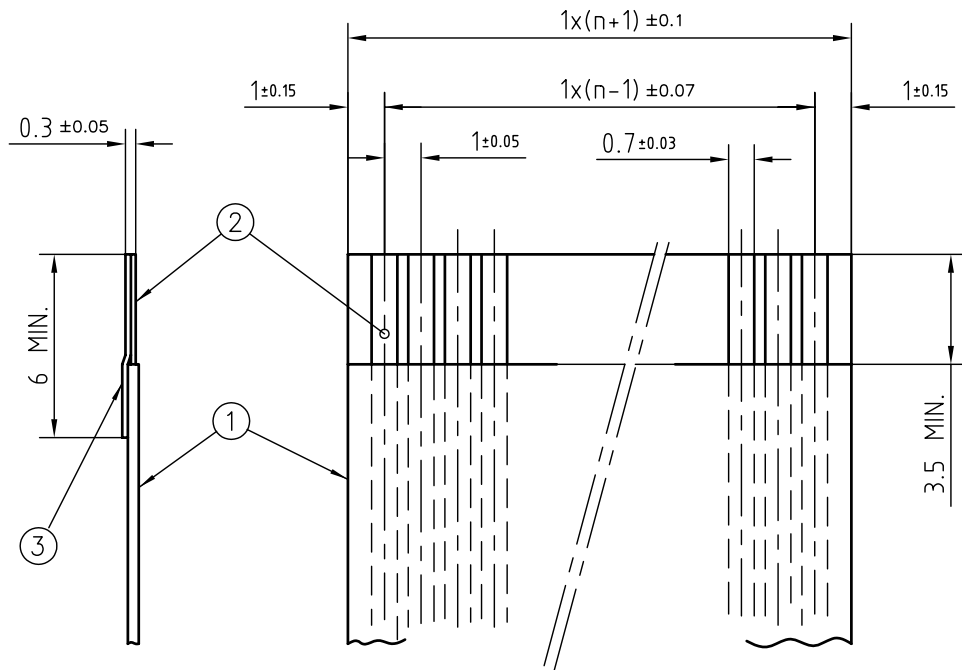
1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.
4. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

|             |          |                |          |                                       |             |                               |  |                                                                                                |  |                                                                           |  |         |         |
|-------------|----------|----------------|----------|---------------------------------------|-------------|-------------------------------|--|------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|--|---------|---------|
| mat'l. code |          |                |          | surface 58/ISO 1302                   |             | tolerance ISO 406<br>ISO 1101 |  | projection  |  | product family 58RF                                                       |  | CODE JP |         |
| ltr         | ecn no   | dr             | date     | tolerances unless otherwise specified |             |                               |  |             |  | title<br>RECOMMENDED CABLE<br>(Cat. No. SFW__R-1/2__)                     |  |         |         |
| AA          | J05-0055 | H.T            | 05-02-04 | angles                                |             | linear                        |  | mm                                                                                             |  | dwg no sheet 1 of 1 size<br>JSA 91605 A4<br>type Product Customer Drawing |  |         |         |
| AB          | J06-0398 | H.T            | 06-09-26 |                                       |             |                               |  |                                                                                                |  |                                                                           |  |         |         |
| AC          | S08-0276 | DGOH           | 08-08-22 |                                       |             |                               |  |                                                                                                |  |                                                                           |  |         |         |
|             |          |                |          |                                       |             |                               |  |                                                                                                |  |                                                                           |  |         |         |
|             |          |                |          | dr                                    | H. TAKAKURA | 06-09-26                      |  |             |  | sheet 1 of 1 size<br>JSA 91605 A4<br>type Product Customer Drawing        |  |         |         |
|             |          |                |          | enr                                   | H. TAKAKURA | 06-09-26                      |  |                                                                                                |  |                                                                           |  |         |         |
|             |          |                |          | chr                                   | DENNIS GOH  | 08-08-22                      |  |                                                                                                |  |                                                                           |  |         |         |
|             |          |                |          | appd                                  | JOEY NG     | 08-08-22                      |  |                                                                                                |  |                                                                           |  |         |         |
| sheet index |          | revision sheet |          | AC                                    |             |                               |  |                                                                                                |  |                                                                           |  |         | Rev. AC |



## RECOMMENDED CABLE (FFC)

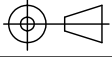
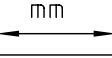
n : NO. OF CONDUCTOR



| PT. NO. | PARTS NAME      | MATERIAL                           | NOTE                              |
|---------|-----------------|------------------------------------|-----------------------------------|
| 1       | INSULATOR       | FLAME RESISTING POLYESTER OR EQUAL | _____                             |
| 2       | CONDUCTOR       | COPPER FOIL                        | PLATING:TIN OR SOLDER<br>1um MIN. |
| 3       | SUPPORTING TAPE | FLAME RESISTING POLYESTER OR EQUAL | _____                             |

## NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

|             |                |      |          |                                       |                            |                                                                                                |                                                       |         |
|-------------|----------------|------|----------|---------------------------------------|----------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------|
| mat'l. code |                |      |          | surface 58/ISO 1302                   | tolerance ISO 406 ISO 1101 | projection  | product family 58RF                                   | CODE JP |
| ltr         | ecn no         | dr   | date     | tolerances unless otherwise specified |                            |             | title<br>RECOMMENDED CABLE<br>(Cat. No. SFW__R-1/2__) |         |
| AA          | J05-0055       | H.T  | 05-02-04 | angles                                | linear                     |                                                                                                |                                                       |         |
| AB          | J06-0398       | H.T  | 06-09-26 |                                       |                            | mm                                                                                             | dwg no sheet 1 of 1 size                              |         |
| AC          | S08-0276       | DGOH | 08-08-22 |                                       |                            | scale       |                                                       |         |
|             |                |      |          | dr                                    | H. TAKAKURA                | 06-09-26                                                                                       | JSA 91604                                             |         |
|             |                |      |          | enr                                   | H. TAKAKURA                | 06-09-26                                                                                       |                                                       |         |
|             |                |      |          | chr                                   | DENNIS GOH                 | 08-08-22                                                                                       | type Product Customer Drawing                         |         |
|             |                |      |          | appd                                  | JOEY NG                    | 08-08-22                                                                                       |                                                       |         |
| sheet index | revision sheet | AC   | 1        |                                       |                            |                                                                                                |                                                       | Rev. AC |