

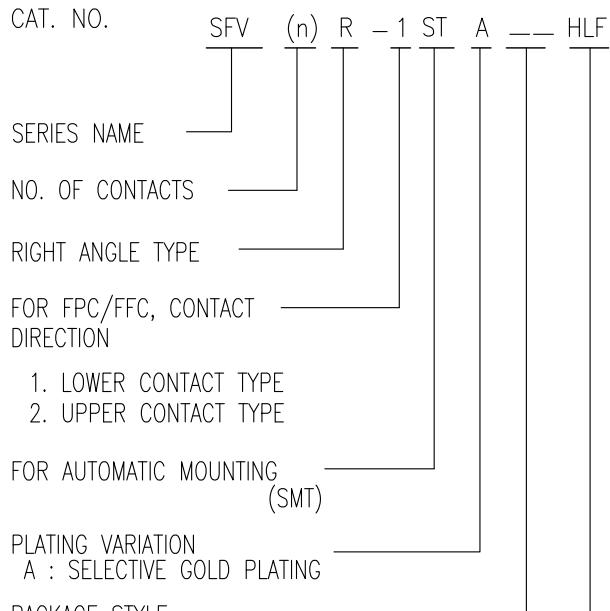
List of "SFV__R-1/2STA1HLF" customer document

| DOCUMENT NO. | LIST |
|-----------------|--|
| SC-SFV08 | SPEC. |
| 10117077 Sheet2 | CAT.NO.TABLE FOR 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2STA_HLF) |
| 10117077 Sheet3 | CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-1STA_HLF) |
| 10117077 Sheet4 | CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-2STA_HLF) |
| 10117077 Sheet5 | CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2STA1HLF) |
| 10117077 Sheet6 | PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1STA1HLF) |
| 10117077 Sheet7 | PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-2STA1HLF) |
| 10117077 Sheet8 | RECOMMENDED CABLE (FPC) (SFV__R-1/2STA__HLF) |
| 10117077 Sheet9 | RECOMMENDED CABLE (FFC) (SFV__R-1/2STA__HLF) |
| BJM-SFV101 | HANDLING PROCEDURES |

| | | | | | | | |
|-------------|-------------|-----|-----------|---------------------------------------|--------------------|------------|--|
| mat'l. code | | | | surface | tolerance | projection | product family |
| — | | | | ISO 1302 | ✓ ISO 406 ISO 1101 | | 58EF |
| ltr | ecn no | dr | date | tolerances unless otherwise specified | | | |
| A | J11-0017 | S.W | 2011-1-20 | angles | | MM | title |
| B | ELX-J-32839 | S.W | 2019-3-6 | linear | | N/A | 0.5mm SPACING FPC CONNECTOR DOCUMENT LIST (Cat. No. : SFV__R-1/2STA1HLF) |
| | | | | dr | S.WATANABE | 2019-3-6 | dwg no |
| | | | | engr | S.WATANABE | 2019-3-6 | sheet 1 of 9 |
| | | | | chr | S-H.THIO | 2019-3-7 | size |
| | | | | appd | Y.KAMEDA | 2019-3-7 | A4 |
| sheet | revision | B | B | B | B | B | |
| index | sheet | 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

CAT. NO. & DIMENSIONS

| NO. OF CONTACTS (n) | CAT. NO. | DIMENSIONS (NOTE2) | | | |
|---------------------------|-------------------|--------------------|---------|---------|---------|
| | | A ± 0.2 | B ± 0.2 | C ± 0.1 | D ± 0.1 |
| 4 | SFV4R-1/2STA_HLF | 7.5 | 5.9 | 1.5 | 2.7 |
| 5 | SFV5R-1/2STA_HLF | 8.0 | 6.4 | 2.0 | 3.2 |
| 6 | SFV6R-1/2STA_HLF | 8.5 | 6.9 | 2.5 | 3.7 |
| 7 | SFV7R-1/2STA_HLF | 9.0 | 7.4 | 3.0 | 4.2 |
| 8 | SFV8R-1/2STA_HLF | 9.5 | 7.9 | 3.5 | 4.7 |
| 9 | SFV9R-1/2STA_HLF | 10.0 | 8.4 | 4.0 | 5.2 |
| 10 | SFV10R-1/2STA_HLF | 10.5 | 8.9 | 4.5 | 5.7 |
| 11 | SFV11R-1/2STA_HLF | 11.0 | 9.4 | 5.0 | 6.2 |
| 12 | SFV12R-1/2STA_HLF | 11.5 | 9.9 | 5.5 | 6.7 |
| 13 | SFV13R-1/2STA_HLF | 12.0 | 10.4 | 6.0 | 7.2 |
| 14 | SFV14R-1/2STA_HLF | 12.5 | 10.9 | 6.5 | 7.7 |
| 15 | SFV15R-1/2STA_HLF | 13.0 | 11.4 | 7.0 | 8.2 |
| 16 | SFV16R-1/2STA_HLF | 13.5 | 11.9 | 7.5 | 8.7 |
| 17 | SFV17R-1/2STA_HLF | 14.0 | 12.4 | 8.0 | 9.2 |
| 18 | SFV18R-1/2STA_HLF | 14.5 | 12.9 | 8.5 | 9.7 |
| 19 | SFV19R-1/2STA_HLF | 15.0 | 13.4 | 9.0 | 10.2 |
| 20 | SFV20R-1/2STA_HLF | 15.5 | 13.9 | 9.5 | 10.7 |
| 21 | SFV21R-1/2STA_HLF | 16.0 | 14.4 | 10.0 | 11.2 |
| 22 | SFV22R-1/2STA_HLF | 16.5 | 14.9 | 10.5 | 11.7 |
| 23 | SFV23R-1/2STA_HLF | 17.0 | 15.4 | 11.0 | 12.2 |
| 24 | SFV24R-1/2STA_HLF | 17.5 | 15.9 | 11.5 | 12.7 |
| 25 | SFV25R-1/2STA_HLF | 18.0 | 16.4 | 12.0 | 13.2 |
| 26 | SFV26R-1/2STA_HLF | 18.5 | 16.9 | 12.5 | 13.7 |
| 27 | SFV27R-1/2STA_HLF | 19.0 | 17.4 | 13.0 | 14.2 |
| 28 | SFV28R-1/2STA_HLF | 19.5 | 17.9 | 13.5 | 14.7 |
| 29 | SFV29R-1/2STA_HLF | 20.0 | 18.4 | 14.0 | 15.2 |
| 30 | SFV30R-1/2STA_HLF | 20.5 | 18.9 | 14.5 | 15.7 |
| 31 | SFV31R-1/2STA_HLF | 21.0 | 19.4 | 15.0 | 16.2 |
| 32 | SFV32R-1/2STA_HLF | 21.5 | 19.9 | 15.5 | 16.7 |
| 33 | SFV33R-1/2STA_HLF | 22.0 | 20.4 | 16.0 | 17.2 |
| 34 | SFV34R-1/2STA_HLF | 22.5 | 20.9 | 16.5 | 17.7 |
| 35 | SFV35R-1/2STA_HLF | 23.0 | 21.4 | 17.0 | 18.2 |



HALOGEN and LEAD FREE

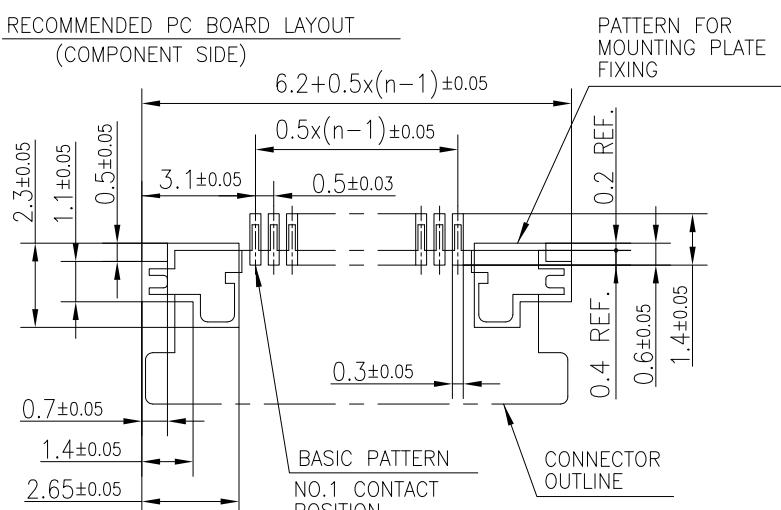
NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPIES WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~D.

| | | | | | | | | | | |
|----------------|-------------------|----|------|---------------------------------------|------------|--------------------|--|------------|---|--|
| mat'l. code | | | | surface | | tolerance | | projection | product family | |
| — | | | | ISO 1302 | | ✓ ISO 406 ISO 1101 | | | 58EF | |
| ltr | ecn no | dr | date | tolerances unless otherwise specified | | | | | title | |
| B | | | | angles | | linear | | | CAT. NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2STA__HLF) | |
| | | | | | | | | scale N/A | dwg no | |
| | | | | dr | S.WATANABE | 2019-3-6 | | MM | sheet 2 of 9 | |
| | | | | engr | S.WATANABE | 2019-3-6 | | | size | |
| | | | | chr | S-H.THIO | 2019-3-7 | | | A4 | |
| | | | | appd | Y.KAMEDA | 2019-3-7 | | | type | |
| sheet index | revision sheet | | | | | | | | Product Customer Drawing | |
| | | | | | | | | | | |

| PT. NO. | PARTS NAME | MATERIAL | Q'TY | NOTE |
|---------|----------------|---|------|--|
| 1 | HOUSING | 13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0) 4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0) | 1 | COLOR : BLACK (HALOGEN FREE) |
| 2 | SLIDER | PPS RESIN GLASS REINFORCED (UL94V-0) | 1 | COLOR : BLACK (HALOGEN FREE) |
| 3 | CONTACT | PHOSPHOR BRONZE | n | PLATING : CONTACT AREA GOLD TERMINAL AREA MATTE TIN |
| 4 | MOUNTING PLATE | | 2 | PLATING : MATTE TIN |

n : NO. OF CONTACTS



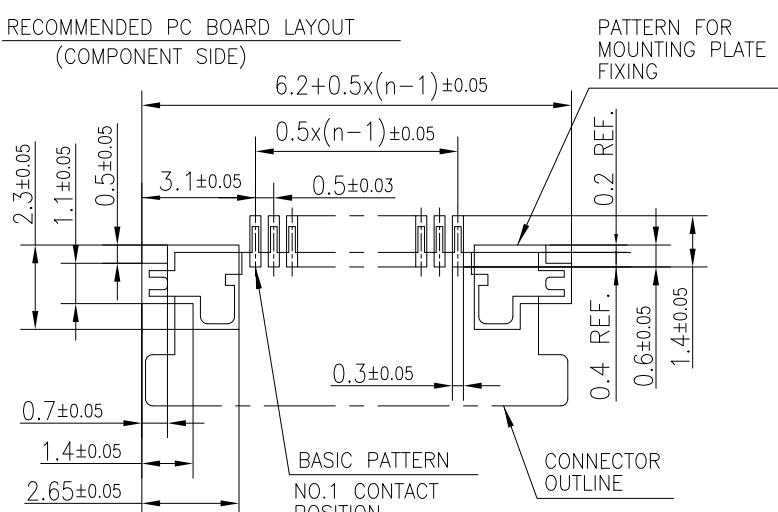
NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPIES WITH AUTOMATIC MOUNTING (SMT).
2. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR
3. FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN E PORTION DETAILED DRAWING.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

| mat'l. code | | surface | | tolerance | | projection | product family | 58EF | |
|-------------|--------|----------|------|---------------------------------------|------------|------------|--|--------------------------|--|
| ltr | ecn no | dr | date | tolerances unless otherwise specified | | | title | | |
| B | | | | angles | | ±0.2 | CONNECTOR USED FOR FPC WITH 0.5 mm CONTACT SPACING (Cat. No. : SFV_R-1STA_HLF) | | |
| | | | | linear | | | scale N/A | | |
| | | | | dr | S.WATANABE | 2019-3-6 | dwg no | sheet 3 of 9 | |
| | | | | engr | S.WATANABE | 2019-3-6 | | 101117077 | |
| | | | | chr | S-H.THIO | 2019-3-7 | Amphenol FCi | size | |
| | | | | appd | Y.KAMEDA | 2019-3-7 | | A4 | |
| sheet | | revision | | | | type | | Product Customer Drawing | |
| index | | sheet | | | | | | | |

| PT. NO. | PARTS NAME | MATERIAL | Q'TY | NOTE |
|---------|----------------|---|------|--|
| 1 | HOUSING | 13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0) 4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0) | 1 | COLOR : BLACK (HALOGEN FREE) |
| 2 | SLIDER | PPS RESIN GLASS REINFORCED (UL94V-0) | 1 | COLOR : BLACK (HALOGEN FREE) |
| 3 | CONTACT | PHOSPHOR BRONZE | n | PLATING : CONTACT AREA GOLD TERMINAL AREA MATTE TIN |
| 4 | MOUNTING PLATE | | 2 | PLATING : MATTE TIN |

n : NO. OF CONTACTS



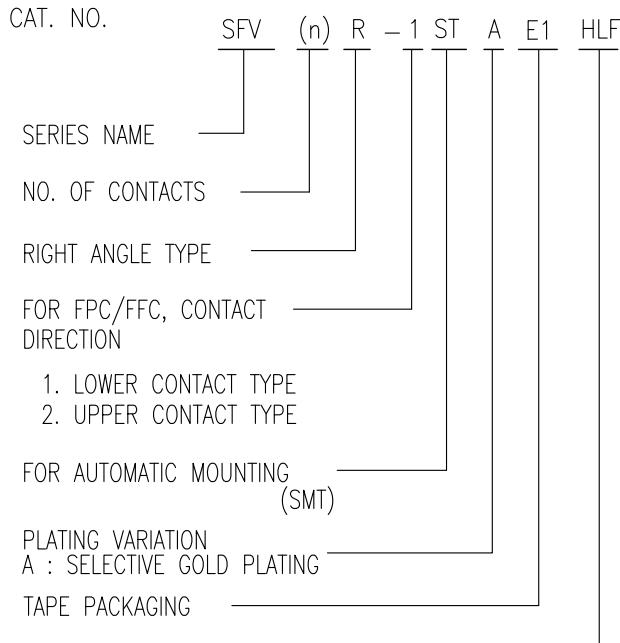
NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPIES WITH AUTOMATIC MOUNTING (SMT).
2. THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR.
3. FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN E PORTION DETAILED DRAWING.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

| mat'l. code | | surface | | tolerance | | projection | product family |
|-------------|--------|----------|------|---------------------------------------|------------|------------|--|
| ltr | ecn no | dr | date | tolerances unless otherwise specified | | | 58EF |
| B | | | | angles | linear | ±0.2 | title |
| | | | | | | | CONNECTOR USED FOR FPC WITH 0.5 mm CONTACT SPACING (Cat. No. : SFV__R-2STA__HLF) |
| | | | | dr | S.WATANABE | 2019-3-6 | dwg no |
| | | | | engr | S.WATANABE | 2019-3-6 | sheet 4 of 9 |
| | | | | chr | S-H.THIO | 2019-3-7 | size |
| | | | | appd | Y.KAMEDA | 2019-3-7 | A4 |
| sheet | | revision | | Amphenol FCI | | | |
| index | | sheet | | type Product Customer Drawing | | | |

CAT. NO. & DIMENSIONS

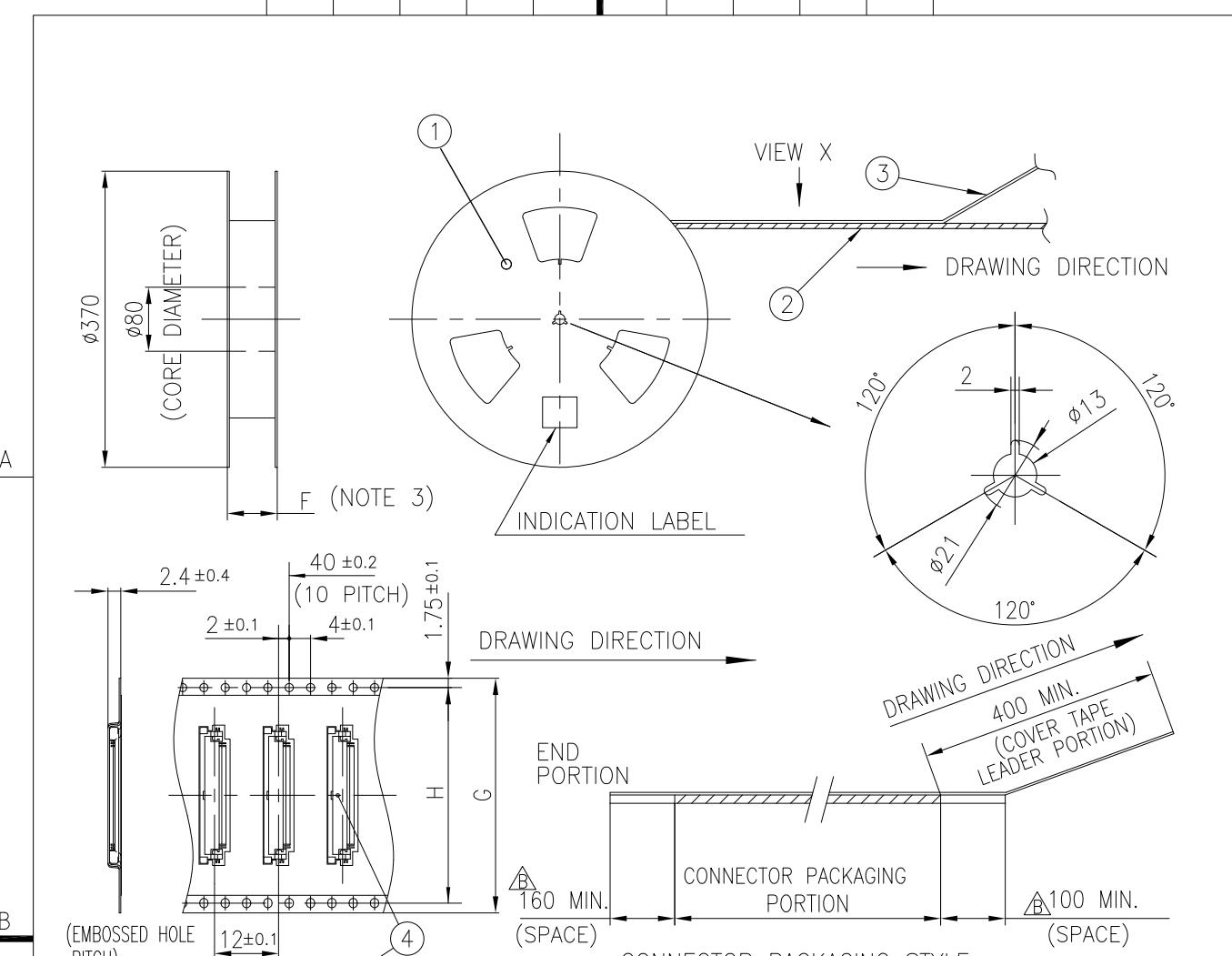
| NO. OF CONTACTS (n) | CAT. NO. | DIMENSIONS (NOTE3) | | |
|---------------------------|--------------------|--------------------|---------|---------|
| | | F ± 5 | G ± 0.3 | H ± 0.1 |
| 4 | SFV4R-1/2STAE1HLF | 20.4 | 16 | — |
| 5 | SFV5R-1/2STAE1HLF | 20.4 | 16 | — |
| 6 | SFV6R-1/2STAE1HLF | 20.4 | 16 | — |
| 7 | SFV7R-1/2STAE1HLF | 28.4 | 24 | — |
| 8 | SFV8R-1/2STAE1HLF | 28.4 | 24 | — |
| 9 | SFV9R-1/2STAE1HLF | 28.4 | 24 | — |
| 10 | SFV10R-1/2STAE1HLF | 28.4 | 24 | — |
| 11 | SFV11R-1/2STAE1HLF | 28.4 | 24 | — |
| 12 | SFV12R-1/2STAE1HLF | 28.4 | 24 | — |
| 13 | SFV13R-1/2STAE1HLF | 28.4 | 24 | — |
| 14 | SFV14R-1/2STAE1HLF | 28.4 | 24 | — |
| 15 | SFV15R-1/2STAE1HLF | 28.4 | 24 | — |
| 16 | SFV16R-1/2STAE1HLF | 28.4 | 24 | — |
| 17 | SFV17R-1/2STAE1HLF | 28.4 | 24 | — |
| 18 | SFV18R-1/2STAE1HLF | 28.4 | 24 | — |
| 19 | SFV19R-1/2STAE1HLF | 28.4 | 24 | — |
| 20 | SFV20R-1/2STAE1HLF | 28.4 | 24 | — |
| 21 | SFV21R-1/2STAE1HLF | 28.4 | 24 | — |
| 22 | SFV22R-1/2STAE1HLF | 28.4 | 24 | — |
| 23 | SFV23R-1/2STAE1HLF | 36.4 | 32 | 28.4 |
| 24 | SFV24R-1/2STAE1HLF | 36.4 | 32 | 28.4 |
| 25 | SFV25R-1/2STAE1HLF | 36.4 | 32 | 28.4 |
| 26 | SFV26R-1/2STAE1HLF | 36.4 | 32 | 28.4 |
| 27 | SFV27R-1/2STAE1HLF | 36.4 | 32 | 28.4 |
| 28 | SFV28R-1/2STAE1HLF | 36.4 | 32 | 28.4 |
| 29 | SFV29R-1/2STAE1HLF | 36.4 | 32 | 28.4 |
| 30 | SFV30R-1/2STAE1HLF | 36.4 | 32 | 28.4 |
| 31 | SFV31R-1/2STAE1HLF | 48.4 | 44 | 40.4 |
| 32 | SFV32R-1/2STAE1HLF | 48.4 | 44 | 40.4 |
| 33 | SFV33R-1/2STAE1HLF | 48.4 | 44 | 40.4 |
| 34 | SFV34R-1/2STAE1HLF | 48.4 | 44 | 40.4 |
| 35 | SFV35R-1/2STAE1HLF | 48.4 | 44 | 40.4 |



NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPIES WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS F~H.

| | | | | | | | | | | |
|-------------|----------|-------|------|---------------------------------------|------------|-----------|-----------|------------|--|--------------|
| mat'l. code | | | | surface | | tolerance | | projection | product family | |
| — | | | | ISO 1302 ✓ | | ISO 406 | ISO 1101 | | 58EF | |
| ltr | ecn no | dr | date | tolerances unless otherwise specified | | | | | title | |
| B | | | | angles | | linear | | MM | CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED | |
| | | | | | | | | | 0.5 mm CONTACT SPACING CONNECTOR | |
| | | | | | | | | | (Cat. No. : SFV_R-1/2STAE1HLF) | |
| | | | | dr | S.WATANABE | 2019-3-6 | scale N/A | | dwg no | sheet 5 of 9 |
| | | | | engr | S.WATANABE | 2019-3-6 | | | 101117077 | size |
| | | | | chr | S-H.THIO | 2019-3-7 | | | | A4 |
| | | | | appd | Y.KAMEDA | 2019-3-7 | | | | |
| sheet | revision | | | | | | | | | |
| | | sheet | | | | | | | | |

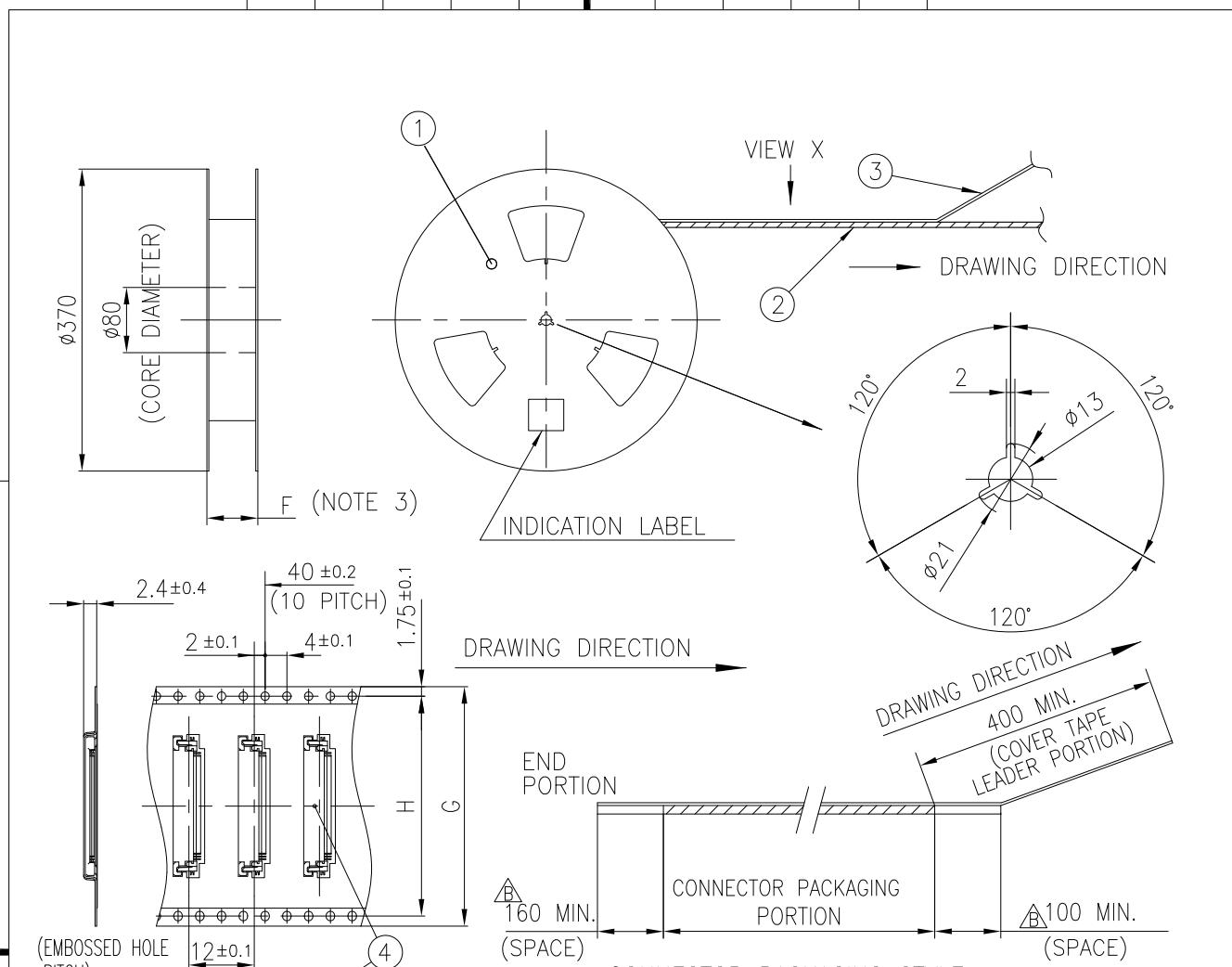


| PT. NO. | PARTS NAME | CAT. NO. | MATERIAL | Q'TY | NOTE |
|---------|-----------------------|----------------|---------------------------|------|----------------------|
| 1 | REEL | _____ | CARDBOARD | 1 | COLOR : WHITE |
| 2 | PLASTIC (EMBOSS) TAPE | _____ | △ PS or A-PET | — | COLOR : TRANSPARENCY |
| 3 | COVER | _____ | △ POLYESTER, POLYETHYLENE | — | COLOR : TRANSPARENCY |
| 4 | CONNECTOR | SFV_R-1STA_HLF | SEE SHEET 3 | 3000 | LOWER CONTACT TYPE |

NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND COPIES 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. F DIMENSION IS PORTION OF THE CORE.

| | | | | | | | |
|-------------------|----|------|--|---------------------------------------|-------------------------------|------------|------------------------|
| mat'l. code — | | | | surface ISO 1302 | tolerance ISO 406 ISO 1101 | projection | product family 58EF |
| ltr B | | | | tolerances unless otherwise specified | | | |
| ecn no | dr | date | | angles | linear | ±5 | |
| | | | | ±5° | | | |
| | | | | dr | S.WATANABE | 2019-3-6 | |
| | | | | engr | S.WATANABE | 2019-3-6 | |
| | | | | chr | S-H.THIO | 2019-3-7 | |
| | | | | appd | Y.KAMEDA | 2019-3-7 | |
| sheet index | | | | dwg no 101117077 | | | |
| revision sheet | | | | sheet 6 of 9 | | | |
| | | | | size A4 | | | |
| | | | | type Product Customer Drawing | | | |



| PT. NO. | PARTS NAME | CAT. NO. | MATERIAL | Q'TY | NOTE |
|---------|-----------------------|----------------|---------------------------|-------|----------------------|
| 1 | REEL | _____ | CARDBOARD | 1 | COLOR : WHITE |
| 2 | PLASTIC (EMBOSS) TAPE | _____ | △ PS or A-PET | _____ | COLOR : TRANSPARENCY |
| 3 | COVER | _____ | △ POLYESTER, POLYETHYLENE | _____ | COLOR : TRANSPARENCY |
| 4 | CONNECTOR | SFV_R-2STA_HLF | SEE SHEET 4 | 3000 | UPPER CONTACT TYPE |

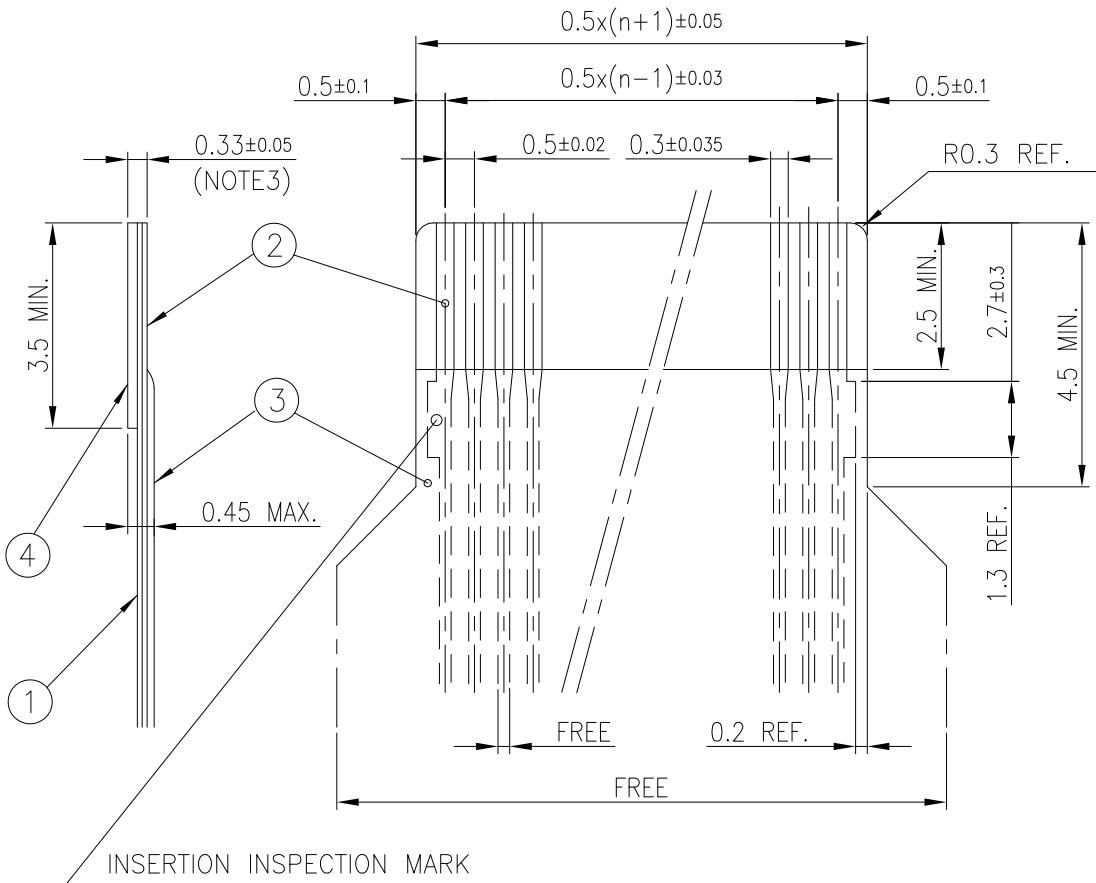
NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND COPIES 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. F DIMENSION IS PORTION OF THE CORE.

| | | | | | | | |
|----------------------------------|--------|----|------|---------------------------------------|---------------------------------|------------|------------------------|
| mat'l. code — | | | | surface ISO 1302 | tolerance ✓ ISO 406 ISO 1101 | projection | product family 58EF |
| ltr | ecn no | dr | date | tolerances unless otherwise specified | | | |
| B | | | | angles | linear | ±5 | |
| | | | | ±5° | | | |
| | | | | dr | S.WATANABE | 2019-3-6 | |
| | | | | engr | S.WATANABE | 2019-3-6 | |
| | | | | chr | S-H.THIO | 2019-3-7 | |
| | | | | appd | Y.KAMEDA | 2019-3-7 | |
| sheet index | | | | Amphenol FCi | | | |
| revision sheet | | | | dwg no 101117077 | | | |
| sheet index | | | | size A4 | | | |
| type Product Customer Drawing | | | | | | | |

RECOMMENDED CABLE (FPC)

n : NO. OF CONTACTS



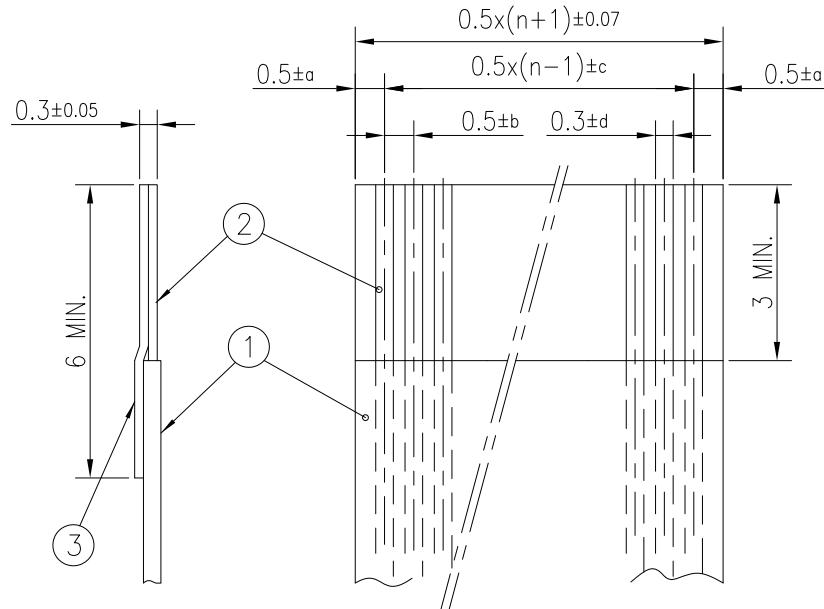
| PT. NO. | PARTS NAME | MATERIAL | THICKNESS (um) |
|---------|-----------------|---------------------------------|----------------|
| 1 | BASE FILM | POLYIMIDE OR POLYESTER OR EQUAL | 25 |
| 2 | CONDUCTOR | COPPER FOIL(PLATING : GOLD) | 35 |
| 3 | OVERLAY | POLYIMIDE OR POLYESTER OR EQUAL | — |
| 4 | 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

RECOMMENDED CABLE (FFC)

n : NO. OF CONTACTS



| KIND OF FFC (NOTE3) | DIMENSIONAL TOLERANCE | | | |
|------------------------|-----------------------|-------|-------|--------|
| | a | b | c | d |
| 1 | ±0.07 | ±0.04 | ±0.05 | ±0.02 |
| 2 | ±0.1 | ±0.03 | ±0.03 | ±0.025 |

| PT. NO. | PARTS NAME | MATERIAL |
|---------|-----------------|---|
| 1 | INSULATOR | FLAME RESISTING POLYESTER OR EQUIVALENT |
| 2 | CONDUCTOR | COPPER FOIL (PLATING : GOLD) |
| 3 | SUPPORTING TAPE | FLAME RESISTING POLYESTER OR EQUIVALENT |

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. EITHER KIND1 OR KIND2 OF FFC CAN ACCEPT DIMENSIONAL TOLERANCE a,b,c AND d.

| | | | | | | | | |
|------------------|----------|-----------------------|------|---------------------------------------|------------|------------|--------------------------------|--------------------------|
| mat'l. code — | | surface ISO 1302 ✓ | | tolerance ISO 406 ISO 1101 | | projection | product family | 58EF |
| ltr | ecn no | dr | date | tolerances unless otherwise specified | | | title | |
| B | | | | angles | linear | | RECOMMENDED CABLE | |
| | | | | | | | (Cat. No. : SFV__R-1/2STA__LF) | |
| | | | | dr | S.WATANABE | 2019-3-6 | dwg no | sheet 9 of 9 |
| | | | | engr | S.WATANABE | 2019-3-6 | Amphenol FCi | size A4 |
| | | | | chr | S-H.THIO | 2019-3-7 | | |
| | | | | appd | Y.KAMEDA | 2019-3-7 | | |
| sheet | revision | | | | | | | |
| index | sheet | | | | | | type | Product Customer Drawing |