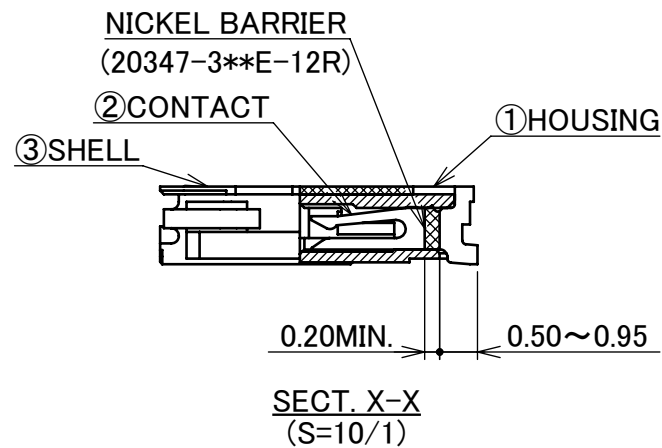
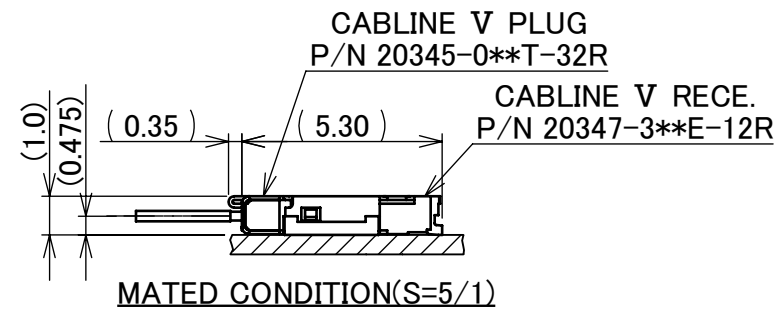
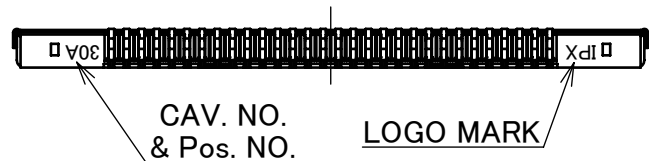
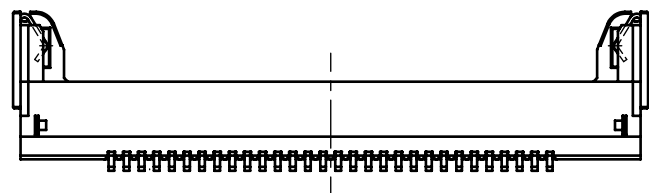
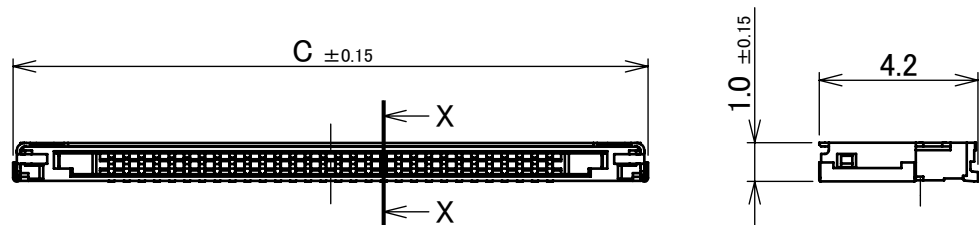
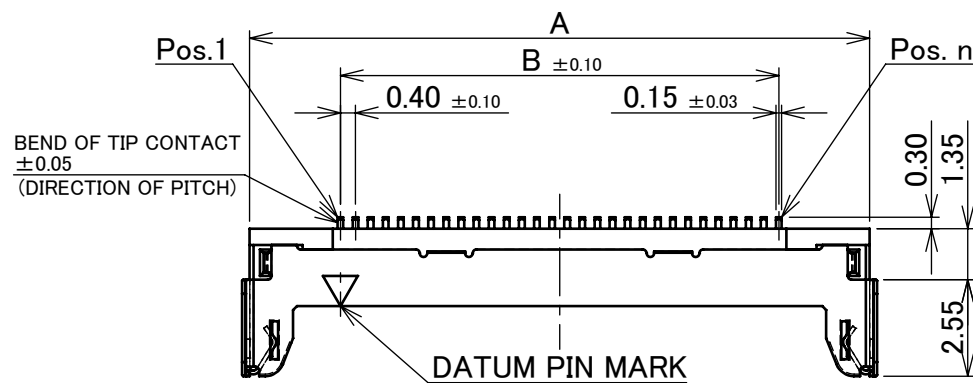


Recommended P/N20347-3\*\*E-12R

| PART NO.       | POS. | A     | B     | C     |
|----------------|------|-------|-------|-------|
| 20347-310E-12R | 10   | 8.40  | 3.60  | 8.80  |
| 20347-315E-12R | 15   | 10.40 | 5.60  | 10.80 |
| 20347-320E-12R | 20   | 12.40 | 7.60  | 12.80 |
| 20347-325E-12R | 25   | 14.40 | 9.60  | 14.80 |
| 20347-330E-12R | 30   | 16.40 | 11.60 | 16.80 |
| 20347-335E-12R | 35   | 18.40 | 13.60 | 18.80 |
| 20347-340E-12R | 40   | 20.40 | 15.60 | 20.80 |



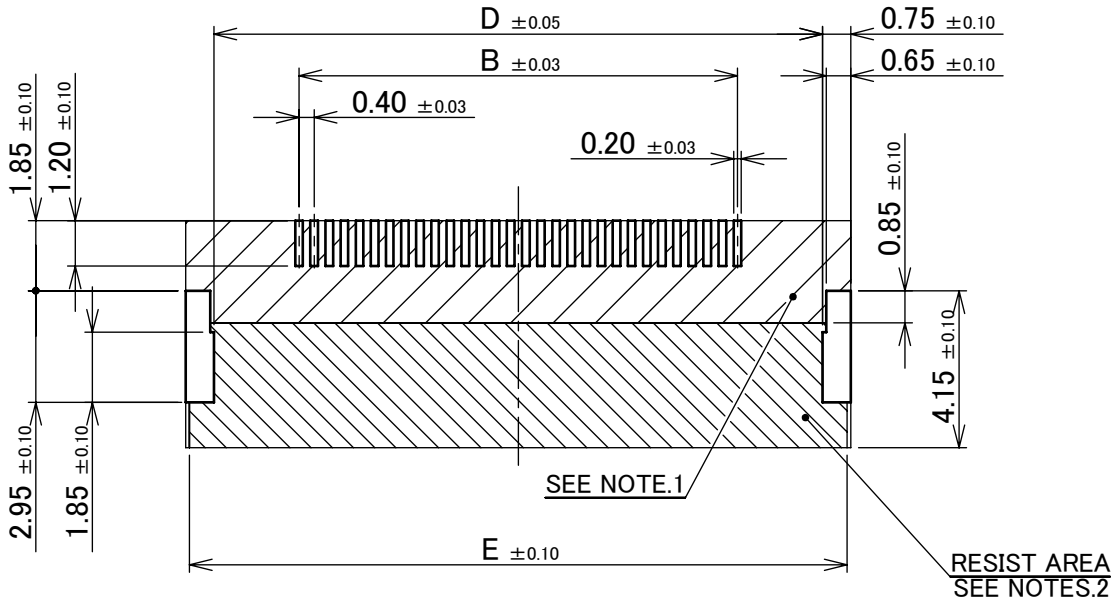
|     |             |                 |                                                                                                                            |
|-----|-------------|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| 3   | SHELL       | PHOSPHOR BRONZE | Sn 1.00 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.                                                                             |
| 2   | CONTACT     | PHOSPHOR BRONZE | ALL OVER: Ni 1.00 $\mu$ m MIN. UNDER PLATING<br>CONTACT AREA: Au 0.10 $\mu$ m MIN.<br>SOLDERING AREA: Au 0.03 $\mu$ m MIN. |
| 1   | HOUSING     | LCP             | UL94V-0, BRACK                                                                                                             |
| NO. | DISCRIPTION | MATERIAL        | FINISH , REMARKS                                                                                                           |

|                 |         |     |              |      |                    |      |                  |            |                                                                                       |            |       |               |       |      |
|-----------------|---------|-----|--------------|------|--------------------|------|------------------|------------|---------------------------------------------------------------------------------------|------------|-------|---------------|-------|------|
| 35              | Z230596 | R.H | May/24/'23   | H.I  | ANGLE              | ±2°  | 6 OVER 30 MAX.   | ±0.3       |  | SERIES No. | R12   | CUSTOMER COPY |       |      |
| 34              | Z210585 | A.K | June/07/'21  | H.I  | 6 MAX.             | ±0.2 | 30 OVER 120 MAX. | ±0.5       |                                                                                       |            |       |               |       |      |
| 33              | Z200103 | A.K | Jan./23/'20  | H.I  | GENERAL TOLERANCE. |      |                  |            | TITLE<br>CABLINE® V<br>RECEPTACLE ASSEMBLY                                            |            | SCALE | I-PEX         |       |      |
| 32              | Z181347 | K.H | Oct./15/'18  | H.I  | DWG.               | DATE |                  | 5:1        |                                                                                       |            |       |               |       |      |
| 31              | Z181269 | K.H | Sept./28/'18 | H.I  | H.Mashima          |      | 2003/03/07       | UNIT       |                                                                                       |            |       |               |       |      |
| 30              | Z180375 | H.A | Mar./22/'18  | Y.S  | CHK.               | Y.H  |                  | 2003/03/12 |                                                                                       |            | mm    |               |       |      |
| REV.            | ECN     | BY  | DATE         | APP. | APP.               | K.K  |                  |            |                                                                                       | DWG. No.   | 20347 | SIZE          | SHEET | REV. |
| REVISION RECORD |         |     |              |      | 2003/03/13         |      |                  |            | 20347                                                                                 |            | A3    | 1/5           | 35    |      |

| ITEMS                                 | SPECIFICATION                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICABLE CABLE                      | MICRO COAX : AWG# 44,42,40<br>DISCRETE : AWG# 36<br>TWINCOAX : AWG# 40                                                                                                                                                                                                                                                               |
| RATING VOLTAGE                        | 100V AC (PER CONTACT)                                                                                                                                                                                                                                                                                                                |
| RATING AMPERAGE (FOR CONTACT)         | 0.1A AC/DC [AWG#44] PER CONTACT / UP TO 40 CONTACTS<br>0.24A AC/DC [AWG#42] PER CONTACT / UP TO 40 CONTACTS<br>0.3A AC/DC [AWG#40] PER CONTACT / UP TO 40 CONTACTS<br>0.8A AC/DC [AWG#36] PER CONTACT / UP TO 12 CONTACTS<br>※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE<br>TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION. |
| OPERATING TEMPERATURE                 | 233~358K(-40℃~+85℃)                                                                                                                                                                                                                                                                                                                  |
| OPERATING HUMIDITY                    | 85% MAX.(NON-CONDENSING)                                                                                                                                                                                                                                                                                                             |
| CONTACT RESISTANCE                    | INITIAL : 235mohm MAX.(AWG#36) / AFTER TEST : $\angle$ 40mohm MAX.<br>560mohm MAX.(AWG#40)<br>650mohm MAX.(AWG#42)<br>1040mohm MAX.(AWG#44)                                                                                                                                                                                          |
| GROUND SHELL RESISTANCE               | INITIAL : 50mohm MAX. / AFTER TEST : $\angle$ 40mohm MAX.                                                                                                                                                                                                                                                                            |
| INSULATION RESISTANCE                 | INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.                                                                                                                                                                                                                                                                                  |
| DIELECTRIC WITHSTANDING VOLTAGE       | AC250V 1min                                                                                                                                                                                                                                                                                                                          |
| DURABILITY                            | 30 CYCLES                                                                                                                                                                                                                                                                                                                            |
| MATING FORCE (INITIAL / AFTER TEST)   | 10P : 20.0N MAX.<br>15P : 22.5N MAX.<br>20P : 25.0N MAX.<br>25P : 27.5N MAX.<br>30P : 30.0N MAX.<br>35P : 32.5N MAX.<br>40P : 35.0N MAX.                                                                                                                                                                                             |
| UNMATING FORCE (INITIAL / AFTER TEST) | 10P : 4.0N MIN.<br>15P : 5.0N MIN.<br>20P : 5.5N MIN.<br>25P : 6.0N MIN.<br>30P : 7.0N MIN.<br>35P : 8.0N MIN.<br>40P : 8.5N MIN.                                                                                                                                                                                                    |
| CABLE RETENTION FORCE                 | 10P : 4.90N MIN.<br>15P : 7.35N MIN.<br>20P : 9.80N MIN.<br>25P : 12.25N MIN.<br>30P : 14.70N MIN.<br>35P : 17.15N MIN.<br>40P : 19.60N MIN.                                                                                                                                                                                         |
| COPLANARITY                           | 0.10 MAX.                                                                                                                                                                                                                                                                                                                            |
| PRODUCT SPECIFICATION                 | P/N 20347-3**E-12R : PRS-1461                                                                                                                                                                                                                                                                                                        |
| TEST REPORT                           | P/N 20347-3**E-12R : TR-08068                                                                                                                                                                                                                                                                                                        |
| PACKING STANDARD                      | 300-308                                                                                                                                                                                                                                                                                                                              |
| INSTRUCTION MANUAL                    | HIM-03005                                                                                                                                                                                                                                                                                                                            |
| ASSEMBLY MANUAL                       | ASM-03002                                                                                                                                                                                                                                                                                                                            |
| APPEARANCE CRITERIA NO.               | QLS-A***                                                                                                                                                                                                                                                                                                                             |

|                    |      |                  |      |                                                                                                                        |                                                               |                  |       |      |
|--------------------|------|------------------|------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------|-------|------|
| ANGLE              | ±2°  | 6 OVER 30 MAX.   | ±0.3 | <div>PROJECTION</div> <div></div> | SERIES No.<br>R12                                             | CUSTOMER COPY    |       |      |
| 6 MAX.             | ±0.2 | 30 OVER 120 MAX. | ±0.5 |                                                                                                                        |                                                               |                  |       |      |
| GENERAL TOLERANCE. |      |                  |      | <div>TITLE</div> <div>CABLINE® V</div> <div>RECEPTACLE ASSEMBLY</div>                                                  | <div>SCALE</div> <div>5:1</div> <div>UNIT</div> <div>mm</div> | <div>I-PEX</div> |       |      |
| DWG.               | DATE |                  |      |                                                                                                                        |                                                               |                  |       |      |
| CHK.               |      |                  |      |                                                                                                                        |                                                               |                  |       |      |
| APP.               |      |                  |      |                                                                                                                        |                                                               |                  |       |      |
|                    |      |                  |      | DWG. No.                                                                                                               | 20347                                                         | SIZE             | SHEET | REV. |
|                    |      |                  |      |                                                                                                                        |                                                               | A3               | 2/5   | 35   |

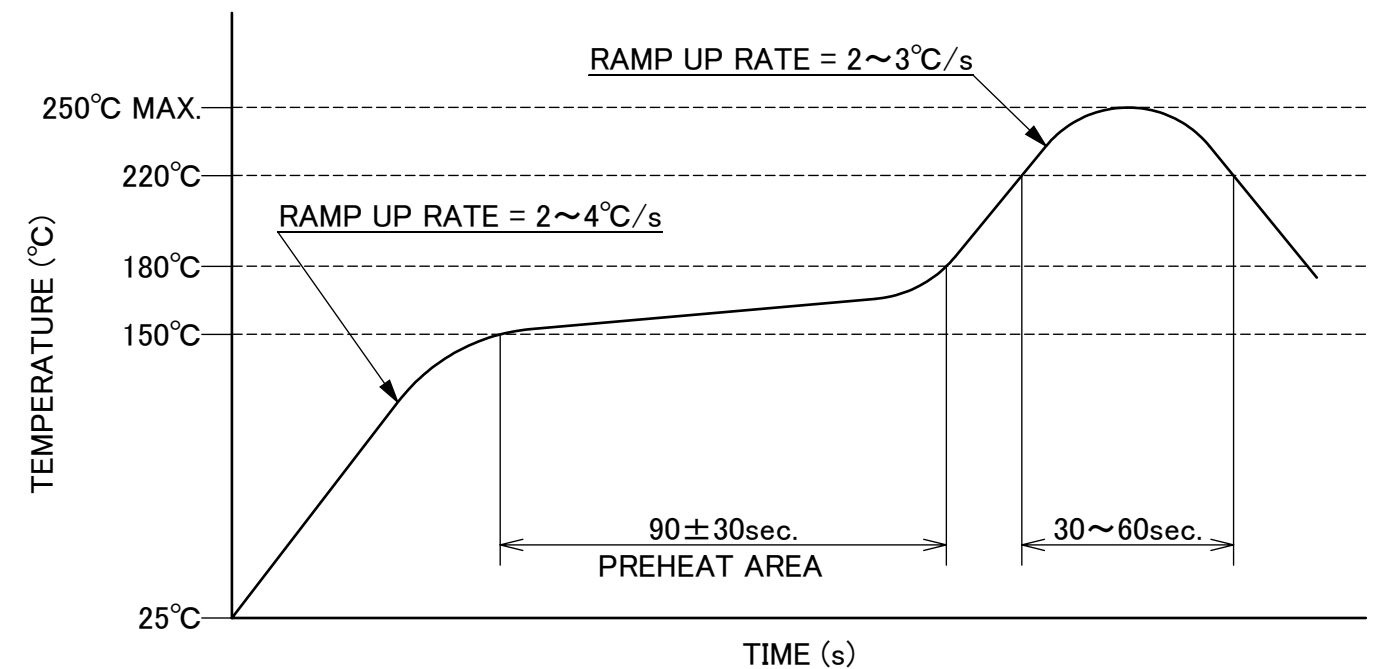
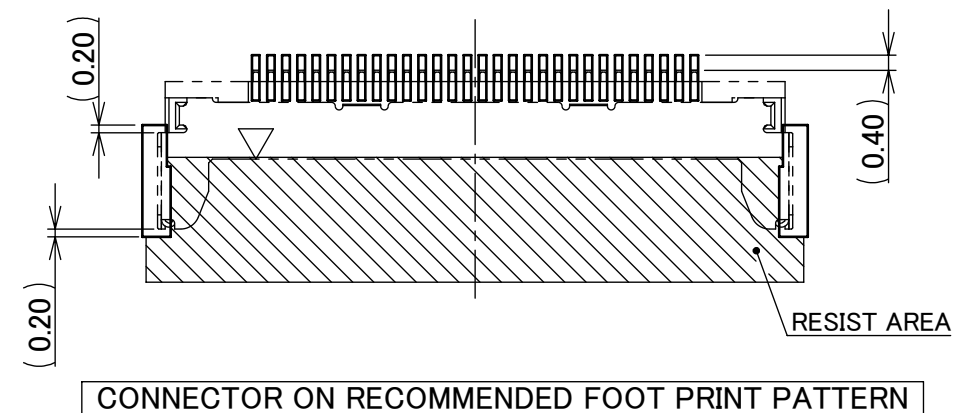
| PART NO.       | POS. | B     | D     | E     |
|----------------|------|-------|-------|-------|
| 20347-310E-12R | 10   | 3.60  | 8.10  | 9.40  |
| 20347-315E-12R | 15   | 5.60  | 10.10 | 11.40 |
| 20347-320E-12R | 20   | 7.60  | 12.10 | 13.40 |
| 20347-325E-12R | 25   | 9.60  | 14.10 | 15.40 |
| 20347-330E-12R | 30   | 11.60 | 16.10 | 17.40 |
| 20347-335E-12R | 35   | 13.60 | 18.10 | 19.40 |
| 20347-340E-12R | 40   | 15.60 | 20.10 | 21.40 |



RECOMMENDED FOOT PRINT PATTERN & METALMASK LAYOUT  
RECOMMENDED METALMASK THICKNESS : t=0.12

- NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.
  2. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

|                    |      |                  |      |                                                                                                     |                   |               |       |      |
|--------------------|------|------------------|------|-----------------------------------------------------------------------------------------------------|-------------------|---------------|-------|------|
| ANGLE              | ±2°  | 6 OVER 30 MAX.   | ±0.3 | PROJECTION<br> | SERIES No.<br>R12 | CUSTOMER COPY |       |      |
| 6 MAX.             | ±0.2 | 30 OVER 120 MAX. | ±0.5 |                                                                                                     |                   |               |       |      |
| GENERAL TOLERANCE. |      |                  |      | TITLE<br>CABLIN <sup>®</sup> V<br>RECEPTACLE ASSEMBLY                                               |                   | SCALE         | I-PEX |      |
| DWG.               | DATE |                  |      |                                                                                                     |                   | 5:1           |       |      |
| CHK.               |      |                  |      |                                                                                                     |                   | UNIT          |       |      |
| APP.               |      |                  |      |                                                                                                     |                   | mm            |       |      |
|                    |      |                  |      | DWG. No.                                                                                            |                   | SIZE          | SHEET | REV. |
|                    |      |                  |      | 20347                                                                                               |                   | A3            | 3/5   | 35   |



REFLOW TEMPERATURE PROFILE  
 SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

|                    |      |                  |      |                                                                       |                   |                  |      |  |
|--------------------|------|------------------|------|-----------------------------------------------------------------------|-------------------|------------------|------|--|
| ANGLE              | ±2°  | 6 OVER 30 MAX.   | ±0.3 | <div>PROJECTION</div>                                                 | SERIES No.<br>R12 | CUSTOMER COPY    |      |  |
| 6 MAX.             | ±0.2 | 30 OVER 120 MAX. | ±0.5 |                                                                       |                   |                  |      |  |
| GENERAL TOLERANCE. |      |                  |      | <div>TITLE</div> <div>CABLINE® V</div> <div>RECEPTACLE ASSEMBLY</div> | SCALE             | <div>I-PEX</div> |      |  |
| DWG.               |      | DATE             | 5:1  |                                                                       |                   |                  |      |  |
| CHK.               |      |                  | UNIT |                                                                       |                   |                  |      |  |
|                    |      |                  | mm   |                                                                       |                   |                  |      |  |
| APP.               |      | DWG. No.         |      |                                                                       | SIZE              | SHEET            | REV. |  |
|                    |      | 20347            |      |                                                                       | A3                | 4/5              | 35   |  |

