

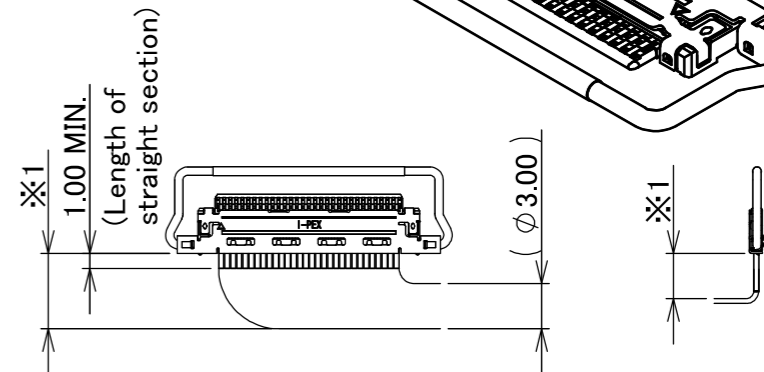
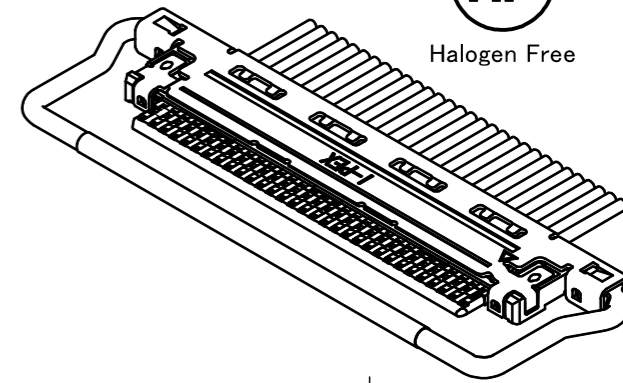
Recommended P/N 20633-2\*\*T-01S(12~60P) 20633-310T-01S(10P)

| PART NO.       | POS. | A     | B     | C     | D     | E     | F     | G     |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|
| 20633-#10T-01S | 10   | 3.60  | 4.40  | 6.66  | 9.40  | 4.65  | 9.75  | 10.95 |
| 20633-#12T-01S | 12   | 4.40  | 5.20  | 7.46  | 10.20 | 5.45  | 10.55 | 11.75 |
| 20633-#20T-01S | 20   | 7.60  | 8.40  | 10.66 | 13.40 | 8.65  | 13.75 | 14.95 |
| 20633-#30T-01S | 30   | 11.60 | 12.40 | 14.66 | 17.40 | 12.65 | 17.75 | 18.95 |
| 20633-#40T-01S | 40   | 15.60 | 16.40 | 18.66 | 21.40 | 16.65 | 21.75 | 22.95 |
| 20633-#50T-01S | 50   | 19.60 | 20.40 | 22.66 | 25.40 | 20.65 | 25.75 | 26.95 |
| 20633-#60T-01S | 60   | 23.60 | 24.40 | 26.66 | 29.40 | 24.65 | 29.75 | 30.95 |

P/N : 20633- # \*\* T-0 # S

1 : WITH PULL BAR  
2 : WITHOUT PULL BAR  
Pos.  
SEE TABLE.1

WITH PULL BAR

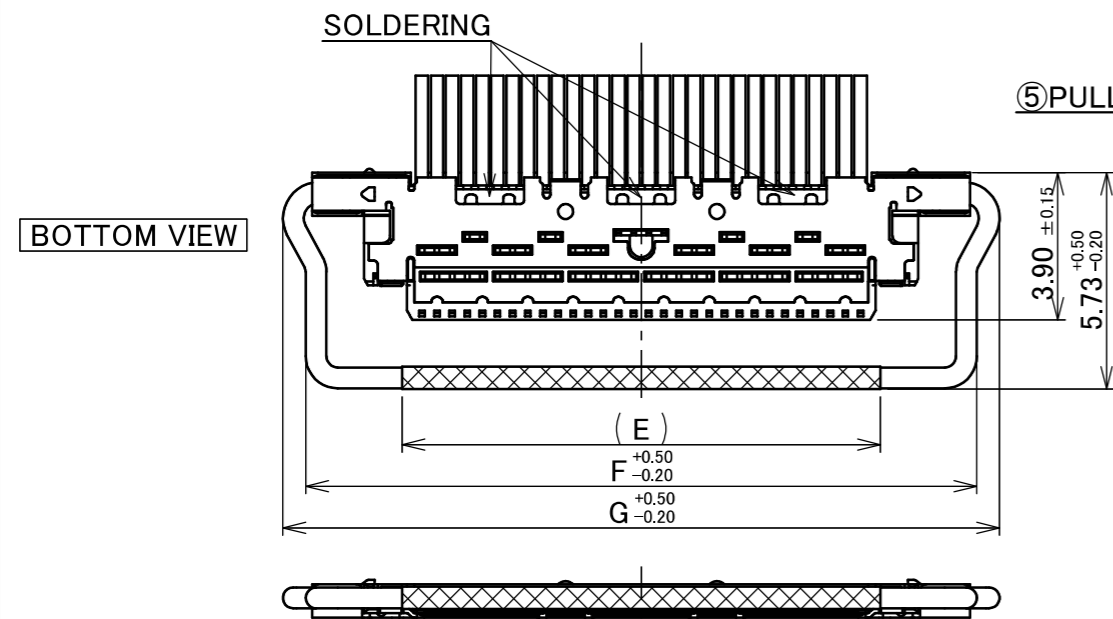


REFERENCE CABLE BENDING DIMENSIONS

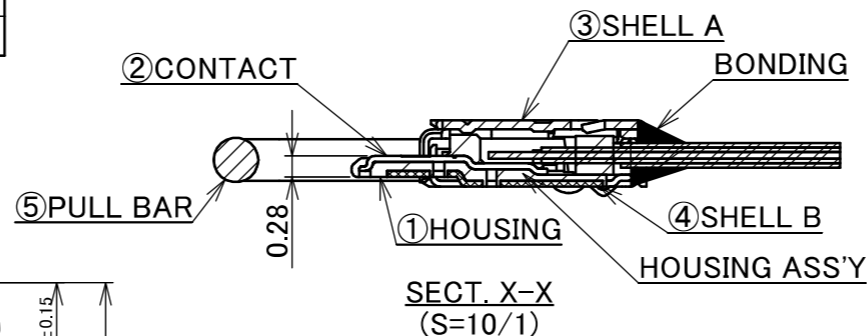
※1: THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES. PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

PART NO.

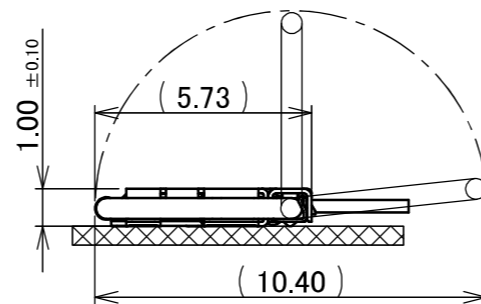
| CABLE ASS'Y PART NO. | HOUSING ASS'Y PART NO. | SHELL A PART NO. | PULL BAR PART NO. |
|----------------------|------------------------|------------------|-------------------|
| 20633-2**T-01S       | 20634-1**T-02          | 2764-0**1-002    | 2766-0**1         |
| 20633-3**T-01S       | 20634-2**T-02          | 2764-0**1-003    |                   |



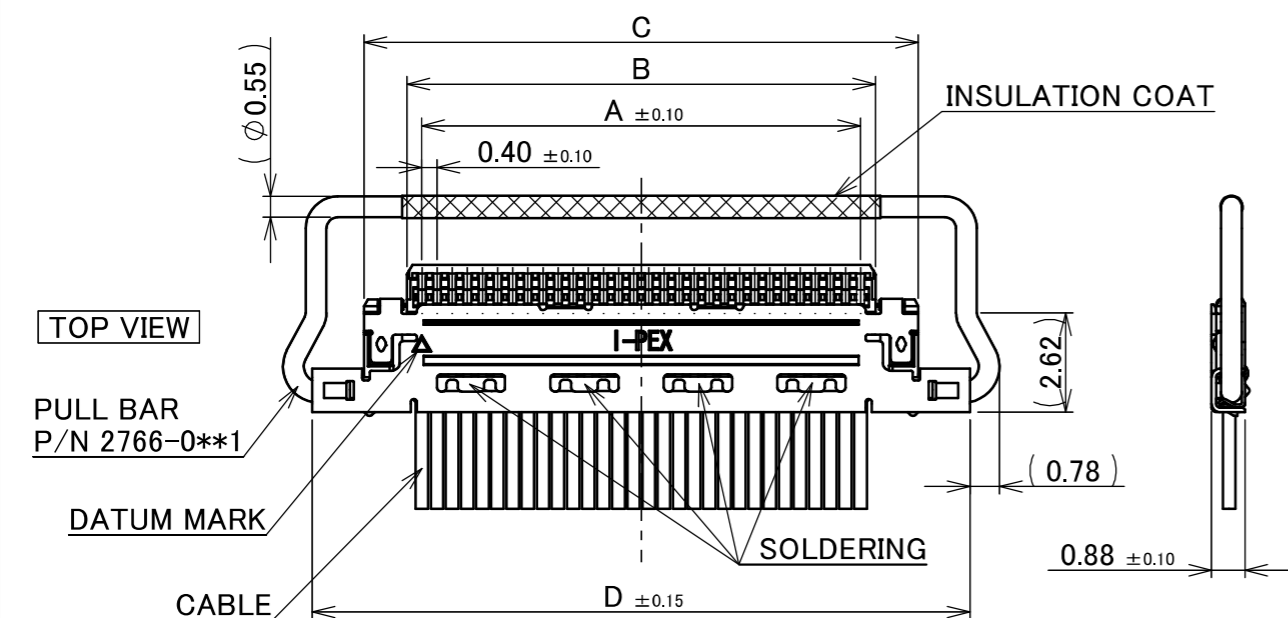
BOTTOM VIEW



SECT. X-X (S=10/1)



PULL BAR MOVEMENTS



TOP VIEW

TABLE.1

| PART NO.       | CONTACT FINISH   | SHELL A FINISH   | SHELL B FINISH   |
|----------------|--|--|--|
| 20633-2**T-0#S | CONTACT AREA<br>Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.<br>SOLDERING AREA<br>Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.  | TOP SIDE<br>Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.<br>BOTTOM SIDE<br>Ni 1.00 μm MIN.(THERE IS THE POSSIBILITY THAT Au ATTACHES RANDOMLY) | TOP SIDE<br>Ni 1.00 μm MIN.(THERE IS THE POSSIBILITY THAT Au ATTACHES RANDOMLY)<br>BOTTOM SIDE<br>Au 0.03 μm MIN. OVER Ni 1.00 μm MIN. |
| 20633-3**T-0#S | CONTACT AREA<br>Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.<br>SOLDERING AREA<br>Au 0.03 μm MIN. OVER Ni 1.00 μm MIN. | PARTIAL Au 0.003 μm MIN. OVER Ni 1.00 μm MIN.  | PARTIAL Au 0.003 μm MIN. OVER Ni 1.00 μm MIN.  |

| NO. | DISCRIPTION | MATERIAL        | FINISH , REMARKS  |
|-----|-------------|-----------------|-------------------|
| 5   | PULL BAR    | SUS             |                   |
| 4   | SHELL B     | PHOSPHOR BRONZE | SEE ABOVE TABLE.1 |
| 3   | SHELL A     | PHOSPHOR BRONZE | SEE ABOVE TABLE.1 |
| 2   | CONTACT     | PHOSPHOR BRONZE | SEE ABOVE TABLE.1 |
| 1   | HOUSING     | LCP             | UL94V-0, BLACK    |

| REV.            | ECN     | BY   | DATE         | APP. | APP.               | PROJECTION            | SERIES No. | TITLE                                 | SCALE | CUSTOMER COPY |
|-----------------|---------|------|--------------|------|--------------------|-----------------------|------------|---------------------------------------|-------|---------------|
| 14              | Z250298 | K.Ta | Feb./26/'25  | T.M  | ANGLE ±2°          | 6 OVER 30 MAX. ±0.3   | R1R4R1     | CABLINER® -CA PLUG FOR CABLE ASSEMBLY | 5:1   | I-PEX         |
| 13              | Z241409 | K.Ta | Oct./09/'24  | T.M  | 6 MAX. ±0.2        | 30 OVER 120 MAX. ±0.5 |            |                                       |       |               |
| 12              | Z231028 | H.U  | Sept./13/'23 | T.M  | GENERAL TOLERANCE. |                       |            |                                       |       |               |
| 11              | Z230040 | K.B  | Jan./13/'23  | H.I  | DWG.               | DATE                  |            |                                       |       |               |
| 10              | Z220247 | TSU  | Mar./08/'22  | H.I  | H.Mashima          | 2014/08/11            |            |                                       |       |               |
| 9               | Z210833 | M.N  | July/26/'21  | H.I  | CHK.               | J.Tateishi            |            |                                       |       |               |
| REV.            | ECN     | BY   | DATE         | APP. | APP.               | J.Tateishi            |            |                                       |       |               |
| REVISION RECORD |         |      |              |      |                    | E.Kawabe              |            |                                       |       |               |
| DWG. No. 20633  |         |      |              |      |                    |                       |            |                                       | mm    |               |
|                 |         |      |              |      |                    |                       |            |                                       | SIZE  |               |
|                 |         |      |              |      |                    |                       |            |                                       | A3    |               |
|                 |         |      |              |      |                    |                       |            |                                       | SHEET |               |
|                 |         |      |              |      |                    |                       |            |                                       | 1/5   |               |
|                 |         |      |              |      |                    |                       |            |                                       | REV.  |               |
|                 |         |      |              |      |                    |                       |            |                                       | 14    |               |

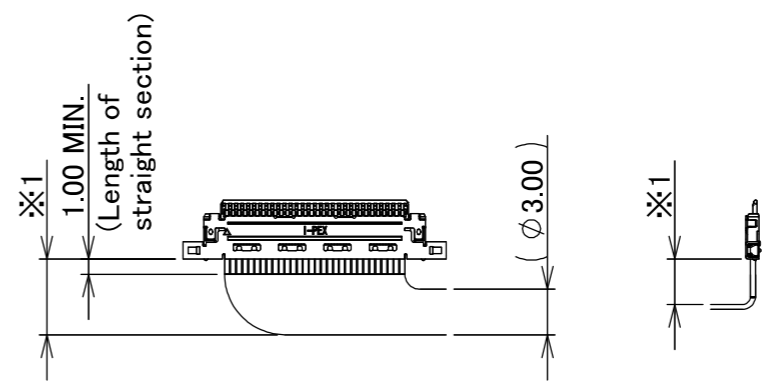
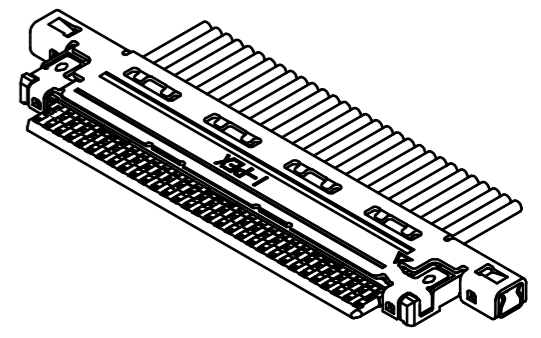
PATENT REGISTERED

Recommended P/N 20633-2\*\*T-01S(12~60P) 20633-310T-01S(10P)

| PART NO.       | POS. | A     | B     | C     | D     |
|----------------|------|-------|-------|-------|-------|
| 20633-#10T-02S | 10   | 3.60  | 4.40  | 6.66  | 9.40  |
| 20633-#12T-02S | 12   | 4.40  | 5.20  | 7.46  | 10.20 |
| 20633-#20T-02S | 20   | 7.60  | 8.40  | 10.66 | 13.40 |
| 20633-#30T-02S | 30   | 11.60 | 12.40 | 14.66 | 17.40 |
| 20633-#40T-02S | 40   | 15.60 | 16.40 | 18.66 | 21.40 |
| 20633-#50T-02S | 50   | 19.60 | 20.40 | 22.66 | 25.40 |
| 20633-#60T-02S | 60   | 23.60 | 24.40 | 26.66 | 29.40 |

P/N : 20633-#\*\*T-0#S  
 1 : WITH PULL BAR  
 2 : WITHOUT PULL BAR  
 Pos.  
 SEE TABLE.1 (SHEET1/5)

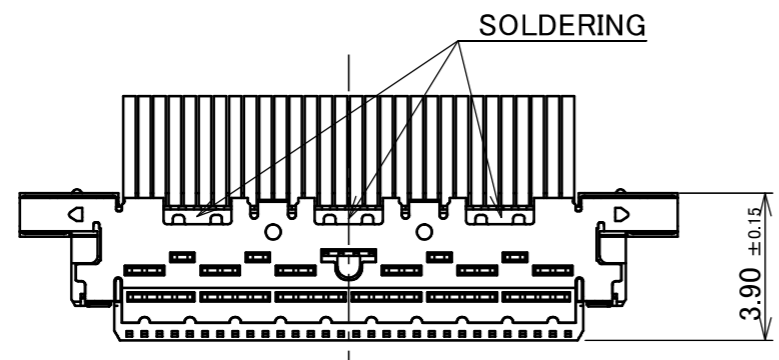
WITHOUT PULL BAR



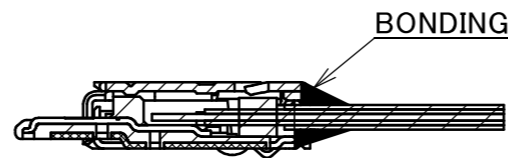
REFERENCE CABLE BENDING DIMENSIONS

※1: THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES.  
 PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

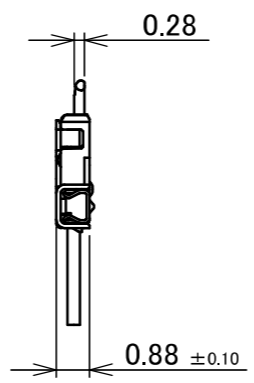
BOTTOM VIEW



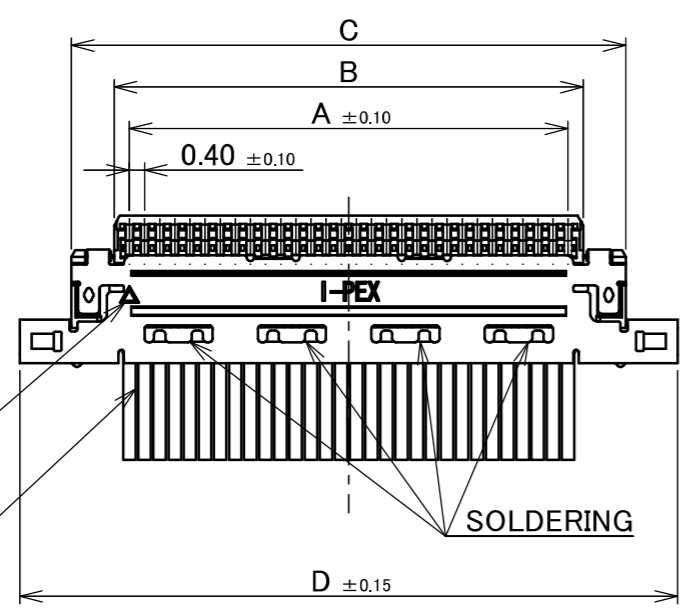
BONDING



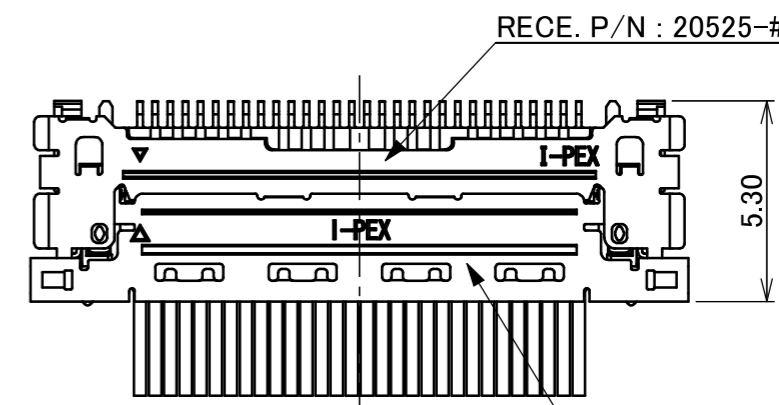
SECT. X-X (S=10/1)



TOP VIEW



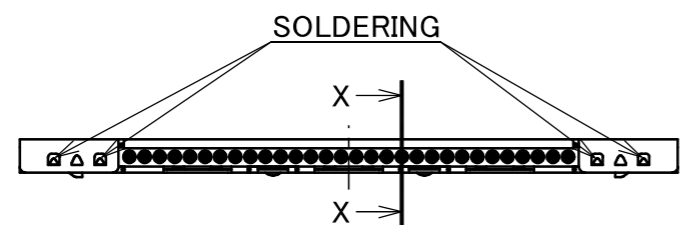
RECE. P/N : 20525-\*\*\*E-0##



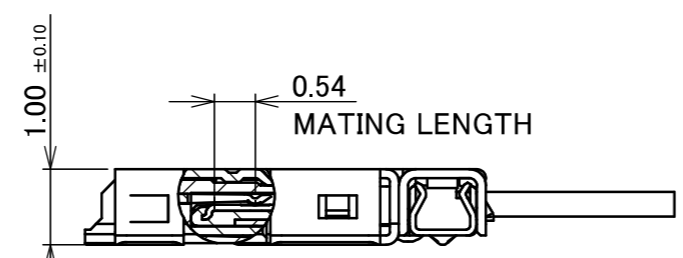
PLUG P/N : 20633-\*\*\*T-02S

PART NO.

| CABLE ASS'Y PART NO. | HOUSING ASS'Y PART NO. | SHELL-A PART NO. | PULL BAR PART NO. |
|----------------------|------------------------|------------------|-------------------|
| 20633-2**T-02S       | 20634-1**T-02          | 2764-0**1-002    | -                 |
| 20633-3**T-02S       | 20634-2**T-02          | 2764-0**1-003    |                   |



0.54 MATING LENGTH

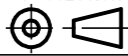



MATING CONDITION

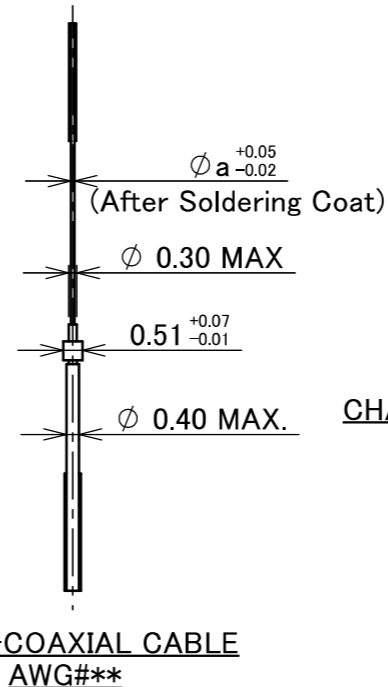
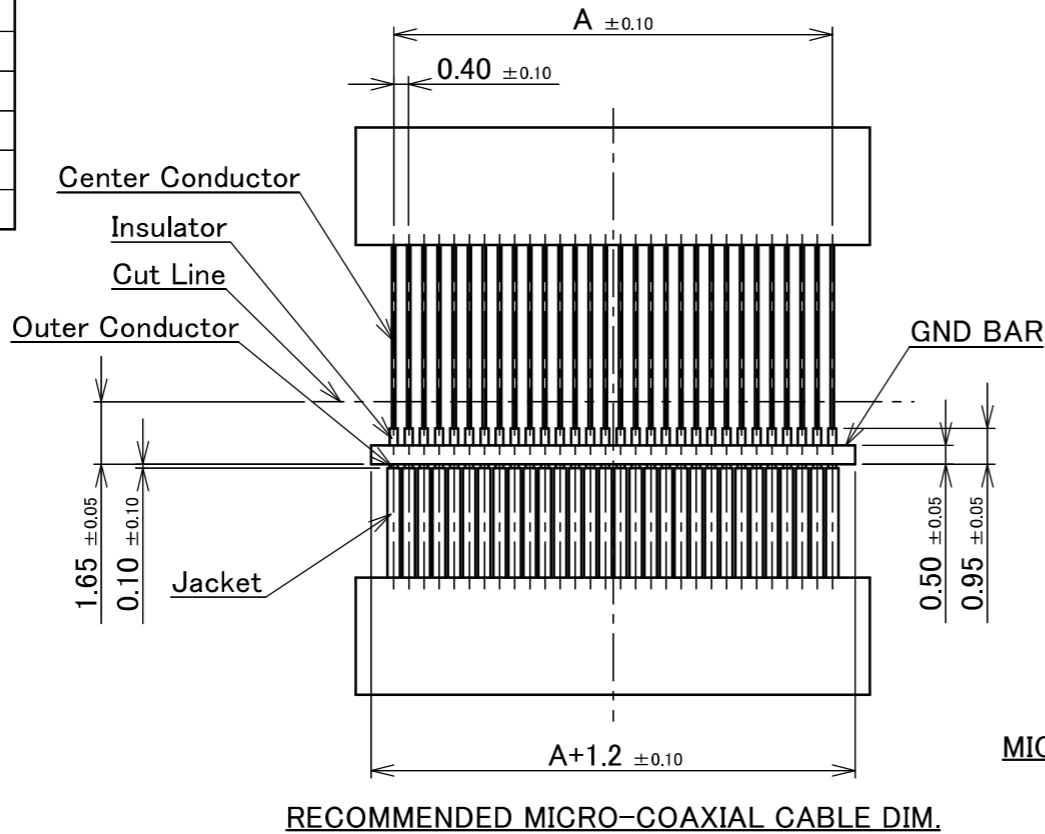
|                    |        |                |                  |                 |  |               |              |     |      |    |
|--------------------|--------|----------------|------------------|-----------------|--|---------------|--------------|-----|------|----|
| ANGLE              | ±2°    | 6 OVER 30 MAX. | ±0.3             | PROJECTION<br>⊕ | SERIES No.<br>R1R4R1   | CUSTOMER COPY |              |     |      |    |
|                    | 6 MAX. | ±0.2           | 30 OVER 120 MAX. |                 |  |               |              |     | ±0.5 |    |
| GENERAL TOLERANCE. |        |                |                  |                 | TITLE<br>CABLINER <sup>®</sup> -CA<br>PLUG FOR CABLE<br>ASSEMBLY | SCALE         | <b>I-PEX</b> |     |      |    |
| DWG.               | DATE   |                | UNIT             | 5:1             |  |               |              |     |      |    |
| CHK.               |        |                | mm               |                 |  |               |              |     |      |    |
| APP.               |        |                | SIZE             | A3              |  |               |              |     |      |    |
|                    |        |                |                  |                 | DWG. No.   | 20633         | SHEET        | 2/5 | REV. | 14 |

**PATENT REGISTERED**

| ITEMS                                      | SPECIFICATION   |
|--|---|
| APPLICABLE CABLE                           | MICRO-COAXIAL CABLE : AWG# 44 , 42 , 40 , 38 , 36<br>DISCRETE WIRE : AWG# 36, 34<br>TWINAX CABLE : AWG# 40 , 42   |
| RATING VOLTAGE                             | 100V AC (PER CONTACT PIN)<br>※THIS IS THE RATED VOLTAGE OF THE CONNECTOR.<br>PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS<br>DEPENDING ON THE CABLES USED.  |
| RATING AMPERAGE (FOR CONTACT)              | 0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 60 CONTACTS<br>0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 50 CONTACTS<br>0.3A AC/DC [AWG#40] PER CONTACT PIN/UP TO 40 CONTACTS<br>0.5A AC/DC [AWG#38] PER CONTACT PIN/UP TO 14 CONTACTS<br>0.8A AC/DC [AWG#36] PER CONTACT PIN/UP TO 6 CONTACTS<br>1.0A AC/DC [AWG#34] PER CONTACT PIN/UP TO 4 CONTACTS<br>TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE<br>MAY AFFECTED BY ACTUAL SITUATION. |
| OPERATING TEMPERATURE                      | 233~358K (-40°C~85°C)   |
| OPERATING HUMIDITY                         | 85% MAX.  |
| CONTACT RESISTANCE                         | INITIAL : 180mohm MAX. (AWG#34) / AFTER TEST : $\triangle$ 40mohm MAX.<br>275mohm MAX. (AWG#36)<br>360mohm MAX. (AWG#38)<br>600mohm MAX. (AWG#40)<br>700mohm MAX. (AWG#42)<br>1080mohm MAX. (AWG#44)  |
| GROUND SHELL RESISTANCE                    | INITIAL : 50mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.  |
| INSULATION RESISTANCE                      | INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.   |
| DIELECTRIC WITHSTANDING VOLTAGE            | AC250V 1min   |
| DURABILITY                                 | 30 CYCLES   |
| MATING FORCE (INITIAL / AFTER 30 CYCLES)   | 10P : 7.80N MAX.    40P : 19.40N MAX.<br>12P : 8.20N MAX.    50P : 24.25N MAX.<br>20P : 9.70N MAX.    60P : 29.10N MAX.<br>30P : 14.55N MAX.  |
| UNMATING FORCE (INITIAL / AFTER 30 CYCLES) | 10P : 1.00N MIN.    40P : 4.00N MIN.<br>12P : 1.20N MIN.    50P : 5.00N MIN.<br>20P : 2.00N MIN.    60P : 6.00N MIN.<br>30P : 3.00N MIN.  |
| CABLE RETENTION FORCE                      | 10P : 4.90N MIN.    40P : 19.60N MIN.<br>12P : 5.88N MIN.    50P : 24.50N MIN.<br>20P : 9.80N MIN.    60P : 29.40N MIN.<br>30P : 14.70N MIN.  |
| PRODUCT SPECIFICATION                      | PRS-1968  |
| TEST REPORT                                | TR-14122 (20525-0**E-0##) / TR-16023 (20525-2**E-0##)   |
| INSTRUCTION MANUAL                         | HIM-09008   |
| ASSEMBLY MANUAL                            | ASM-09005   |
| APPEARANCE CRITERIA No.                    | QLS-A***  |

|                    |               |                |                  |   |                            |   |       |      |
|--------------------|---------------|----------------|------------------|---|----------------------------|---|-------|------|
| ANGLE              | $\pm 2^\circ$ | 6 OVER 30 MAX. | $\pm 0.3$        | PROJECTION<br> | SERIES No.<br>R1R4R1       | CUSTOMER COPY   |       |      |
|                    | 6 MAX.        | $\pm 0.2$      | 30 OVER 120 MAX. |   |                            |   |       |      |
| GENERAL TOLERANCE. |               |                |                  | TITLE<br>CABLINÉ® -CA<br>PLUG FOR CABLE<br>ASSEMBLY   | SCALE<br>5:1<br>UNIT<br>mm |  |       |      |
| DWG.               | DATE          |                |                  |   |                            |   |       |      |
| CHK.               |               |                |                  |   |                            |   |       |      |
| APP.               |               |                |                  |   |                            |   |       |      |
|                    |               |                |                  | DWG. No.  | 20633                      | SIZE  | SHEET | REV. |
|                    |               |                |                  |   |                            | A3  | 3/5   | 14   |

| PART NO.       | POS. | A     |
|----------------|------|-------|
| 20633-#10T-0#S | 10   | 3.60  |
| 20633-#12T-0#S | 12   | 4.40  |
| 20633-#20T-0#S | 20   | 7.60  |
| 20633-#30T-0#S | 30   | 11.60 |
| 20633-#40T-0#S | 40   | 15.60 |
| 20633-#50T-0#S | 50   | 19.60 |
| 20633-#60T-0#S | 60   | 23.60 |



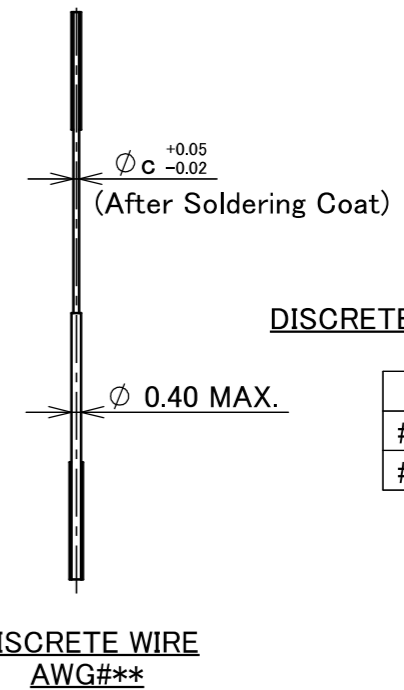
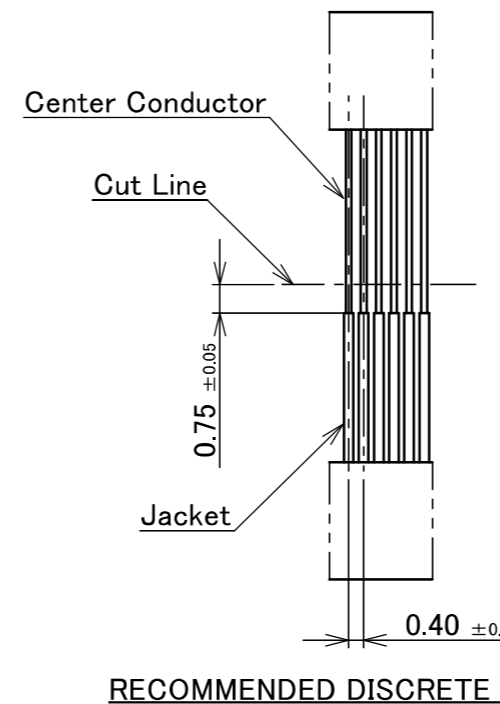
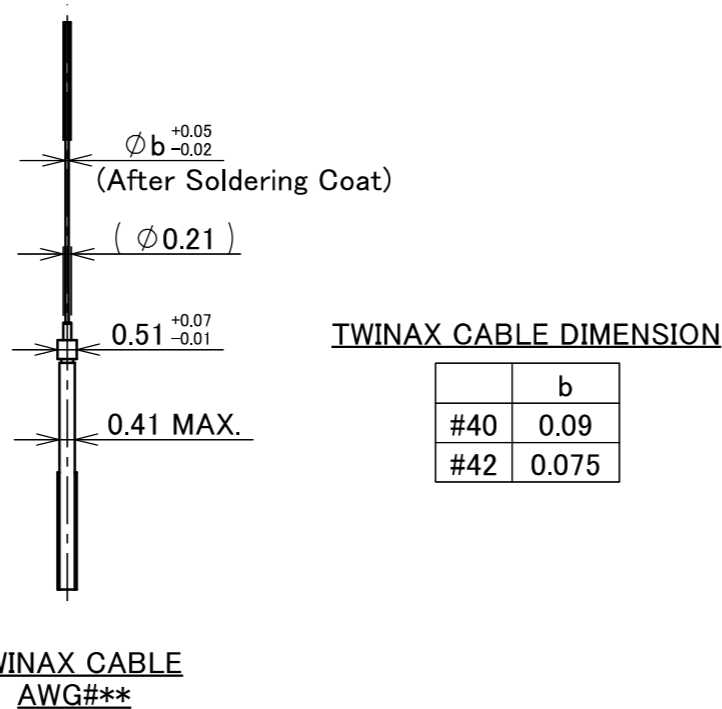
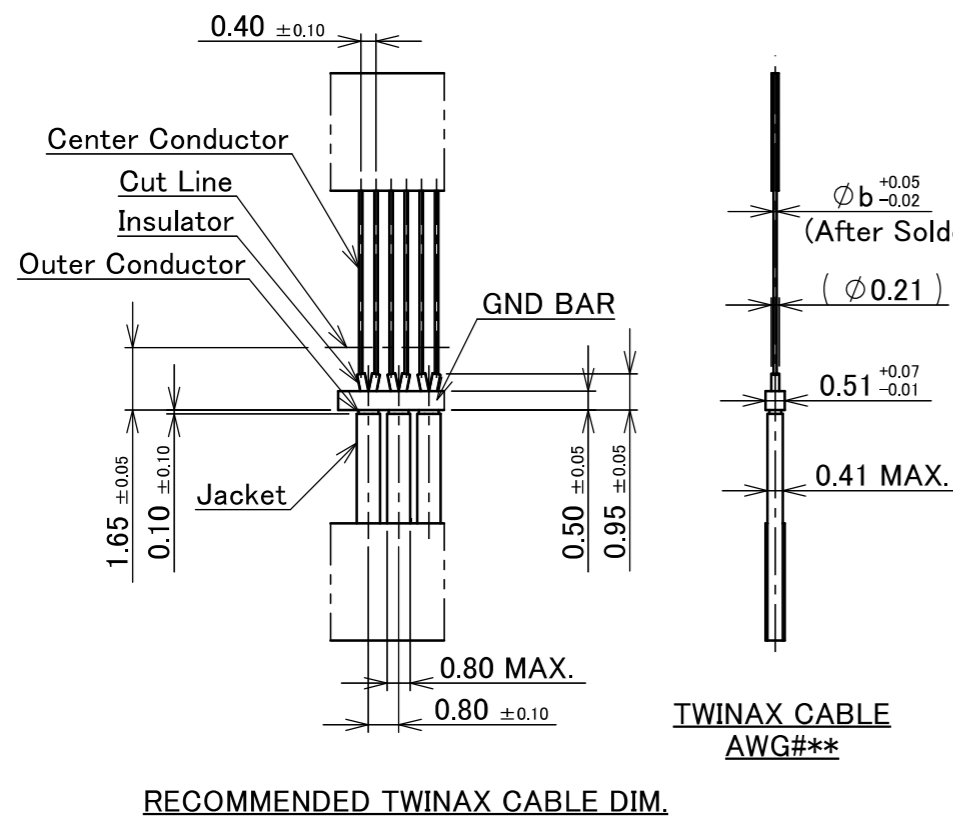
**CHARACTERISTIC IMPEDANCE MATCHING MICRO-COAXIAL CABLE**

|     | a     |
|-----|-------|
| #38 | 0.12  |
| #40 | 0.09  |
| #42 | 0.075 |
| #44 | 0.063 |

**CHARACTERISTIC IMPEDANCE UN-MATCHING MICRO-COAXIAL CABLE**

|     | a    |
|-----|------|
| #36 | 0.15 |

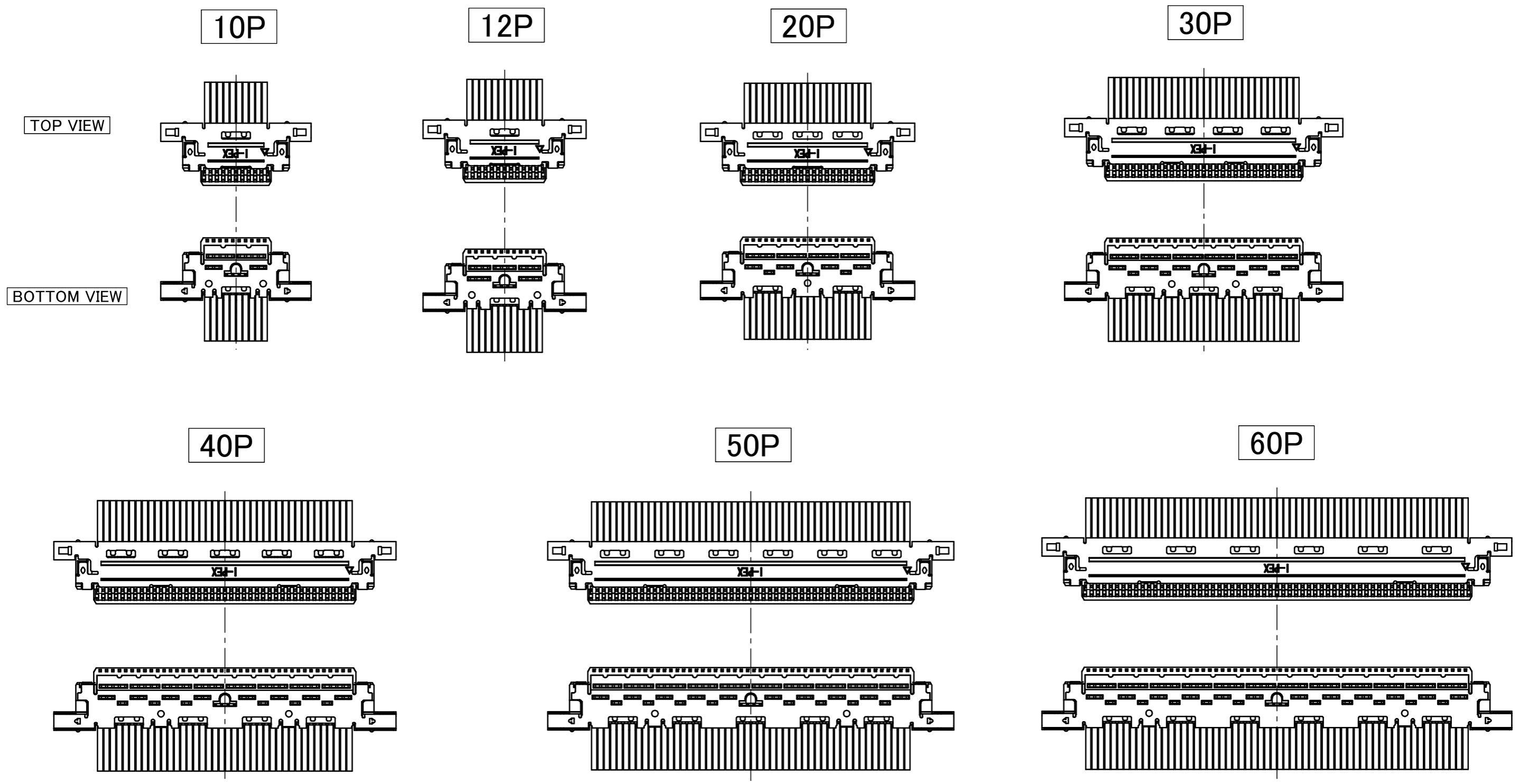
MICRO-COAXIAL CABLE #36 : NOT RECOMMENDED FOR HIGH SPEED SIGNAL TRANSFER



| ANGLE  | $\pm 2^\circ$ | 6 OVER 30 MAX.   | $\pm 0.3$   | PROJECTION         |       | SERIES No. | R1R4R1 | CUSTOMER COPY |              |  |  |
|--------|---------------|------------------|---|--------------------|-------|------------|--------|---------------|--------------|--|--|
| 6 MAX. | $\pm 0.2$     | 30 OVER 120 MAX. | $\pm 0.5$   | GENERAL TOLERANCE. |       | TITLE      |        | SCALE         | <b>I-PEX</b> |  |  |
| DWG.   | DATE          |                  | CABLIN <sup>®</sup> -CA<br>PLUG FOR CABLE<br>ASSEMBLY |                    | 5:1   |            |        |               |              |  |  |
| CHK.   |               |                  |   |                    | UNIT  | mm         |        |               |              |  |  |
| APP.   |               |                  |   |                    | SIZE  | SHEET      | REV.   |               |              |  |  |
|        |               |                  |   | DWG. No.           | 20633 | A3         | 4/5    | 14            |              |  |  |

PART NO.  
20633-##\*T-0#S

# THE EXTERNAL APPEARANCE



|                    |               |                |                  |  |                      |               |              |              |
|--------------------|---------------|----------------|------------------|--|----------------------|---------------|--------------|--------------|
| ANGLE              | $\pm 2^\circ$ | 6 OVER 30 MAX. | $\pm 0.3$        | PROJECTION<br>   | SERIES No.<br>R1R4R1 | CUSTOMER COPY |              |              |
|                    | 6 MAX.        | $\pm 0.2$      | 30 OVER 120 MAX. |  |                      | $\pm 0.5$     | SCALE<br>4:1 | <b>I-PEX</b> |
| GENERAL TOLERANCE. |               |                |                  | TITLE<br>CABLIN <sup>®</sup> -CA<br>PLUG FOR CABLE<br>ASSEMBLY | UNIT<br>mm           | SIZE<br>A3    | SHEET<br>5/5 |              |
| DWG.               | DATE          |                |                  | DWG. No.   | 20633                |               |              |              |
| CHK.               |               |                |                  |  |                      |               |              |              |
| APP.               |               |                |                  |  |                      |               |              |              |

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I-PEX Inc.

QKE-DFE06-01 REV.13