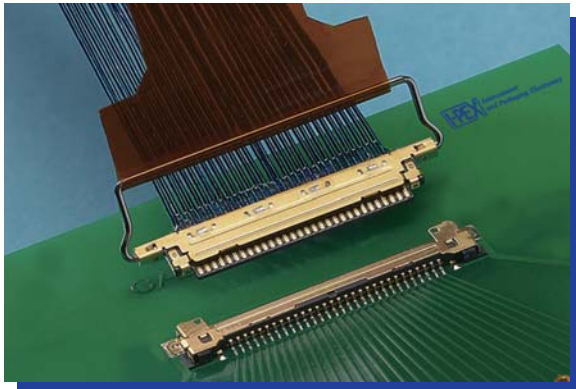


# CABLINE®-VS

0.5mm Pitch

Horizontal Type



- Mating Height : MAX. 1.1mm
- Improved transmission efficiency, High level EMI shield performance and multi point ground
- W-Point Contact with High mating reliability
- Anti-reverse mating design
- Locking bar prevents accidental unmating (Option)
- Soldering connection

## 【Applicable Cable Size】

|            |                                            |
|------------|--------------------------------------------|
| Micro Coax | AWG #40, #42, #44<br>(AWG #36: Power Only) |
| DISCRETE   | AWG #32, #34, #36                          |
| TWINCOAX   | AWG #40                                    |

## 【Number of Position】

20p, 30p, 40p, 50p

## 【Ordering Code】

PLUG Connector Set (for Cable)

Parts Ordering (HOUSING)

**20454- 2 \*\* T (-01)**

① ② only 50pos

Parts Ordering (SHELL A)

**2574- \* \*\* 2**

③ ①

Parts Ordering (Pull bar)

**2576- \* \*\* - \*\***

④ ① ⑤

RECEPTACLE Connector Set  
(for PC Board)

**20455- \*\*\* E - \* 6**

① ② ③

| ① | POS.             | 20: 20pos 30: 30pos<br>40: 40pos 50: 50pos |           |
|---|------------------|--------------------------------------------|-----------|
| ② | Packaging        | T                                          | Tray      |
| ③ | DATUM MARK       | 0                                          | With      |
|   |                  | 1                                          | Without   |
| ④ | INSULATION COAT  | 0                                          | Without   |
|   |                  | 1                                          | With      |
| ⑤ | Packing Quantity | -                                          | 60,000pcs |
|   |                  | 00                                         | 20,000pcs |

| ① | POS.       | A20: 20pos 030: 30pos<br>040: 40pos 050: 50pos |             |
|---|------------|------------------------------------------------|-------------|
| ② | Packaging  | E                                              | Emboss Tape |
| ③ | DATUM MARK | 6                                              | With        |
|   |            | 7                                              | Without     |

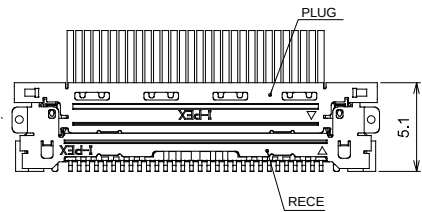
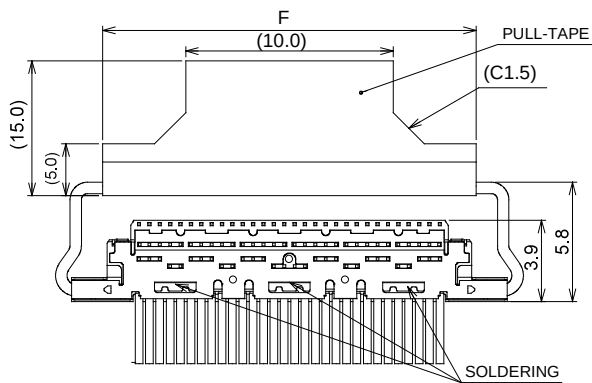
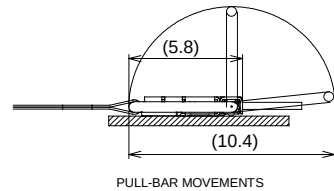
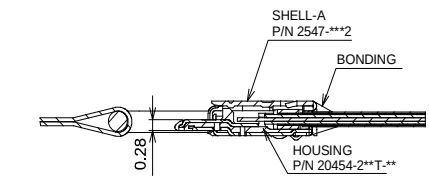
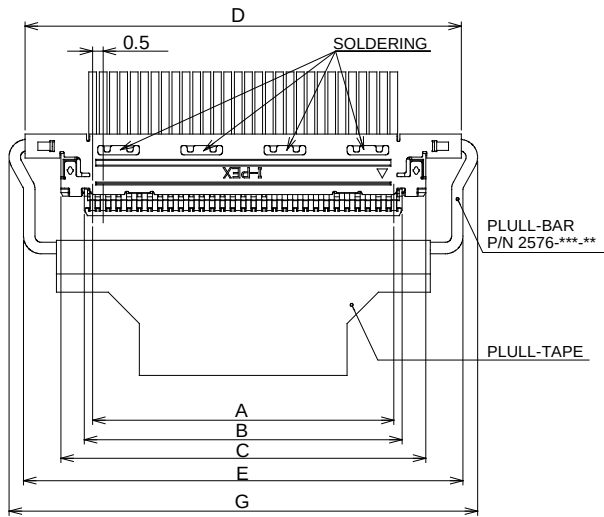
## 【Recommended P/N】

| POS. | HOUSING       | SHELL A   | PULL BAR    | PLUG Set       | RECEPTACLE    |
|------|---------------|-----------|-------------|----------------|---------------|
| 20   | 20454-220T    | 2574-1202 | 2576-020-00 | 20453-220T-11  | 20455-A20E-76 |
| 30   | 20454-230T    | 2574-1302 | 2576-030-00 | 20453-230T-11  | 20455-030E-76 |
| 40   | 20454-240T    | 2574-1402 | 2576-040-00 | 20453-240T-11  | 20455-040E-76 |
| 50   | 20454-250T-01 | 2574-1502 | 2576-050-00 | 20453-250T-11S | 20455-050E-76 |

# PLUG

Set P/N: 20453-2\*\*T-\*\*\*

| POS. | A     | B     | C     | D     | E     | F     | G     |
|------|-------|-------|-------|-------|-------|-------|-------|
| 20   | 9.50  | 10.30 | 12.56 | 16.00 | 16.15 | 13.00 | 17.55 |
| 30   | 14.50 | 15.30 | 17.56 | 21.00 | 21.15 | 18.00 | 22.55 |
| 40   | 19.50 | 20.30 | 22.56 | 26.00 | 26.15 | 23.00 | 27.55 |
| 50   | 24.50 | 25.30 | 27.56 | 31.00 | 31.15 | 28.00 | 32.55 |



MATED VIEW

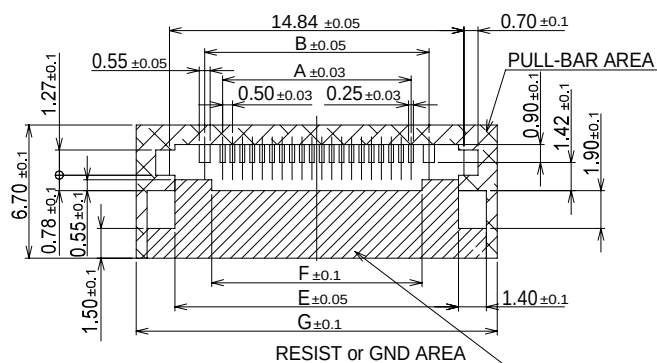
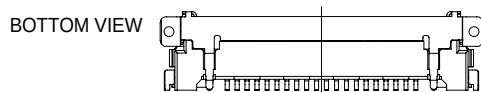
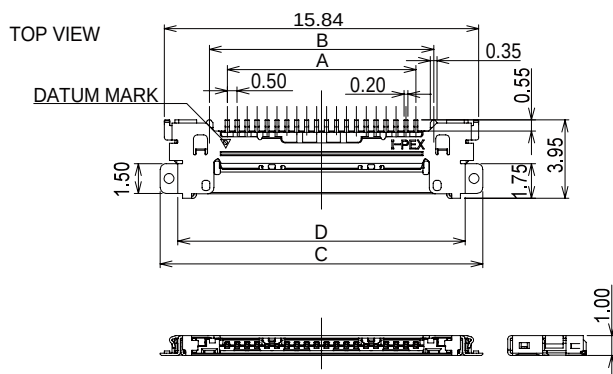
## Material / Finish

|          |                 |       |
|----------|-----------------|-------|
| HOUSING  | LCP UL94V-0     | BLACK |
| CONTACT  | COPPER ALLOY    | Au    |
| SHELL A  | COPPER ALLOY    | Au    |
| SHELL B  | COPPER ALLOY    | Au    |
| PULL BAR | STAINLESS STEEL | -     |

# RECEPTACLE

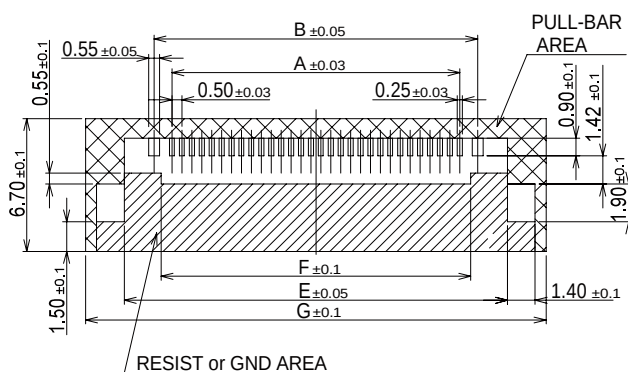
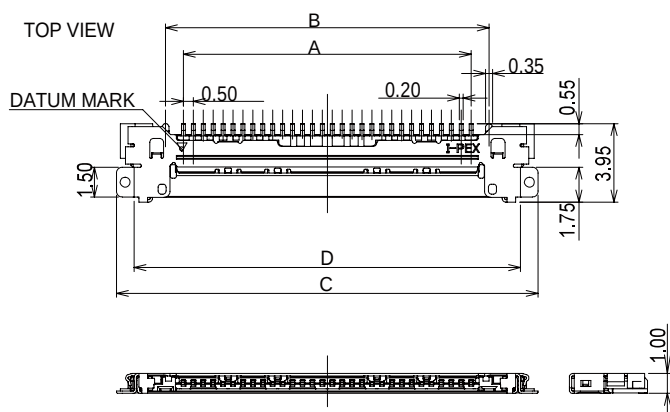
| POS. | A     | B     | C     | D     | E     | F     | G     |
|------|-------|-------|-------|-------|-------|-------|-------|
| 20   | 9.50  | 11.30 | 16.25 | 14.47 | 14.30 | 10.60 | 18.20 |
| 30   | 14.50 | 16.30 | 21.25 | 19.47 | 19.30 | 15.60 | 23.20 |
| 40   | 19.50 | 21.30 | 26.25 | 24.47 | 24.30 | 20.60 | 28.20 |
| 50   | 24.50 | 26.30 | 31.25 | 29.47 | 29.30 | 25.60 | 33.20 |

## 20455-A20E-\*6 (20pin)

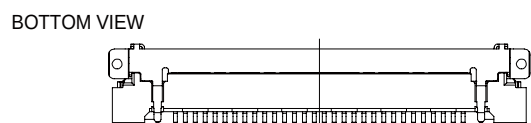


RECOMMENDED FOOTPRINT PATTERN

## 20455-0\*\*E-\*6 (30pin, 40pin, 50pin)



RECOMMENDED FOOTPRINT PATTERN



### Material / Finish

|         |              |       |
|---------|--------------|-------|
| HOUSING | LCP UL94V-0  | BLACK |
| CONTACT | COPPER ALLOY | Au    |
| SHELL   | COPPER ALLOY | Au    |

| PART NO.       | A     | B     | C     | D     | E     | F     | G     | H     |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 20453-220T-*1  | 9.50  | 10.30 | 12.56 | 16.00 | 16.15 | 13.00 | 17.55 | 14.45 |
| 20453-230T-*1  | 14.50 | 15.30 | 17.56 | 21.00 | 21.15 | 18.00 | 22.55 | 19.45 |
| 20453-240T-*1  | 19.50 | 20.30 | 22.56 | 26.00 | 26.15 | 23.00 | 27.55 | 24.45 |
| 20453-250T-*1S | 24.50 | 25.30 | 27.56 | 31.00 | 31.15 | 28.00 | 32.55 | 29.45 |

WITH PULL-BAR

TYPE-A

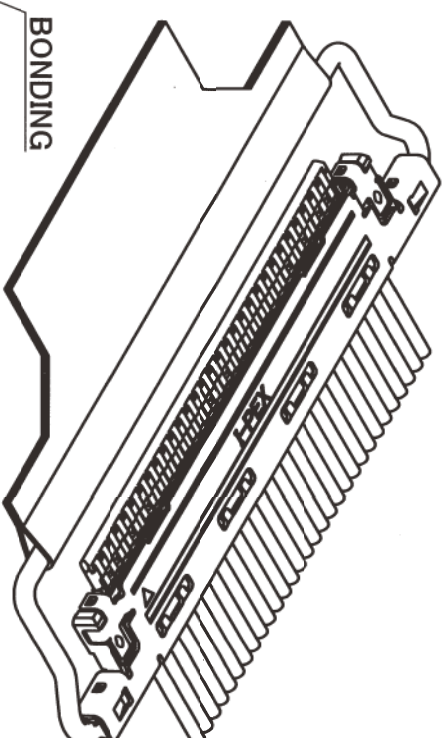
P/N:20453-2\*\*T-\*\*\*  
無 : HOUSING ASS'Y P/N 20454-2\*\*T  
S : HOUSING ASS'Y P/N 20454-250T-01

- 1 : WITH PULL-BAR  
2 : WITHOUT PULL-BAR  
3 : WITH INSULATION COAT PULL-BAR

| SHELL-A P/N |                               |
|-------------|-------------------------------|
| 0           | WITH DATUM MARK(2574-0**2)    |
| 1           | WITHOUT DATUM MARK(2574-1**2) |

TYPE-A

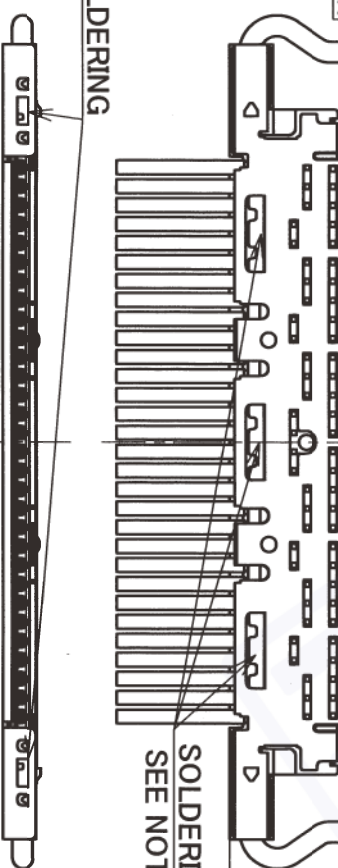
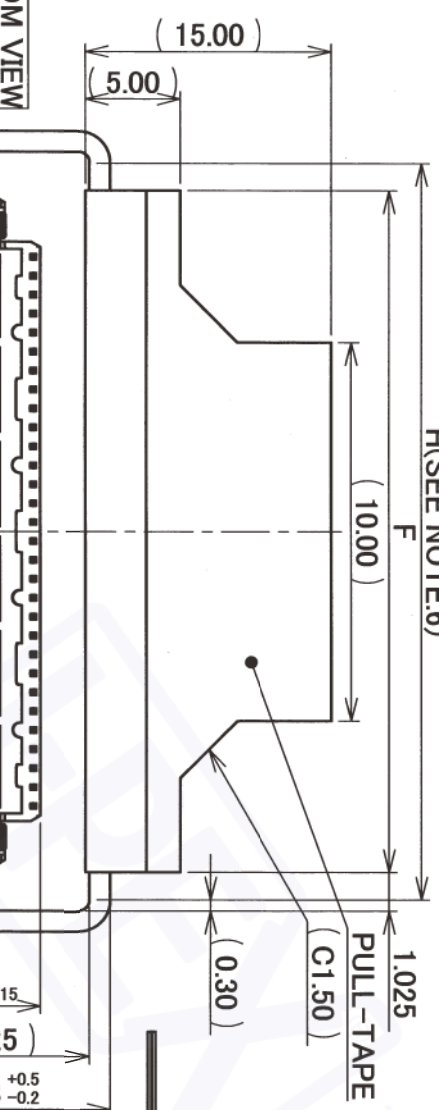
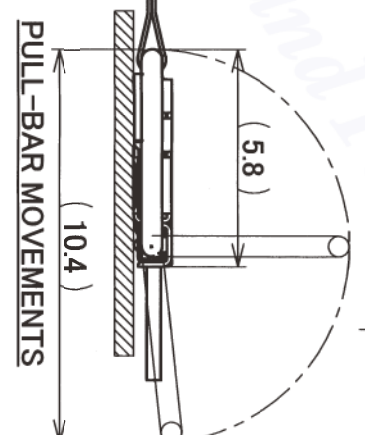
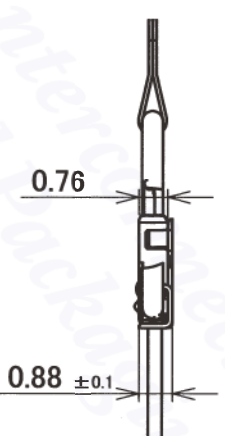
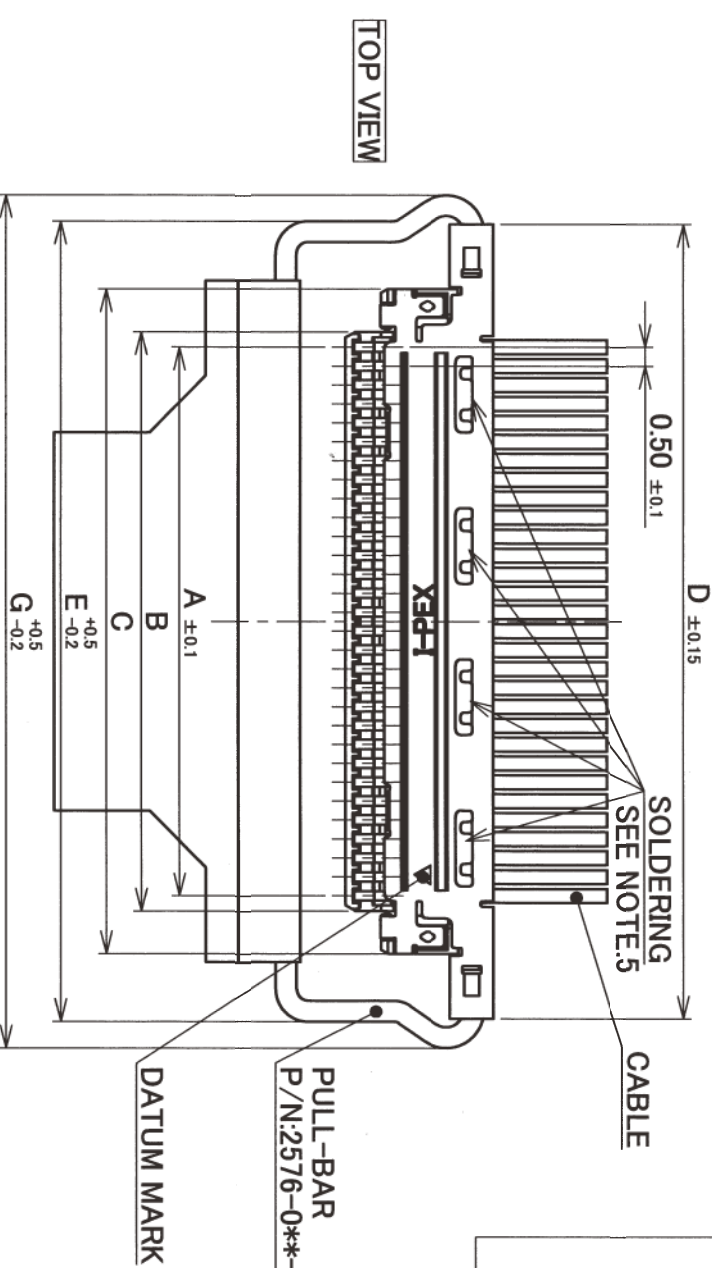
SHELL-A  
P/N:2574-\*\*\*2  
BONDING



SECT X-X  
S=10:1  
HOUSING ASS'Y  
P/N:20454-2\*\*T-\*\*\*

NOTES.

- 1.MATERIAL & FINISH  
HOUSING : HEAT RESISTING PLASTICS, UL94V-0, BLACK  
CONTACT : COPPER ALLOY / Au OVER Ni  
SHELL A : COPPER ALLOY / Au OVER Ni  
SHELL B : COPPER ALLOY / Au OVER Ni  
PULL BAR : SUS
- 2.RECOMMENDED CABLE AND PULL-TAPE  
MICRO COAXIAL CABLE : AWG#36,38,40,42,44(#36:POWER ONLY)  
DISCRETE : AWG#32,34,36
- 3.TO HANDLE THIS CONNECTOR  
YOU MUST READ AND FOLLOW THE INSTRUCTION MANUAL BELOW.
- 4.TO ASSEMBLE AND SOLDER THIS CONNECTOR  
YOU MUST READ AND FOLLOW THE ASSEMBLY MANUAL BELOW.
- 5.SOLDERING IS ONLY A CASE WITH GND-BAR.
- 6.PULL-TAPE CAN BE PUT WITHIN THE RANGE OF "H"(STRAIGHT AREA)
- 7.RoHS Compliant
- 8.PRODUCT SPECIFICATION No. PRS-1427  
PRS-1862
- 9.THE FOLLOWING DIMENSION IS RECOMMENDED WHEN THE CABLE IS BENT.



GENERAL TOLERANCE

|                  |      |
|------------------|------|
| 6 MAX.           | ±0.2 |
| 6 OVER MAX. 30   | ±0.3 |
| 30 OVER MAX. 120 | ±0.5 |
| ANGLE            | ±2°  |

PATENT REGISTERED

SERIES No. R10R3R0

CUSTOMER COPY



SCALE 5:1 UNIT mm DWG. No. 20453

SHEET 1/5 REV. 3

I-PEX DA-ICHI SEIKO CO.,LTD.  
I-Pex Business Company

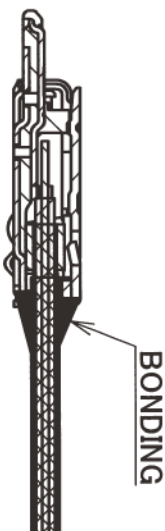
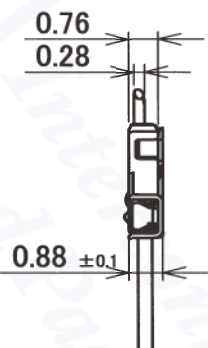
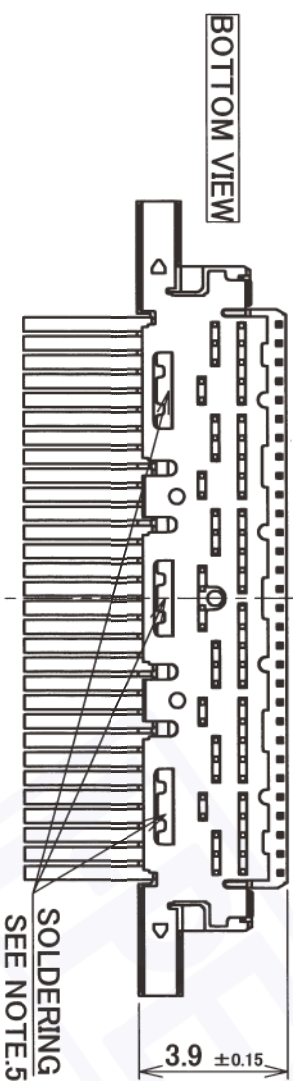
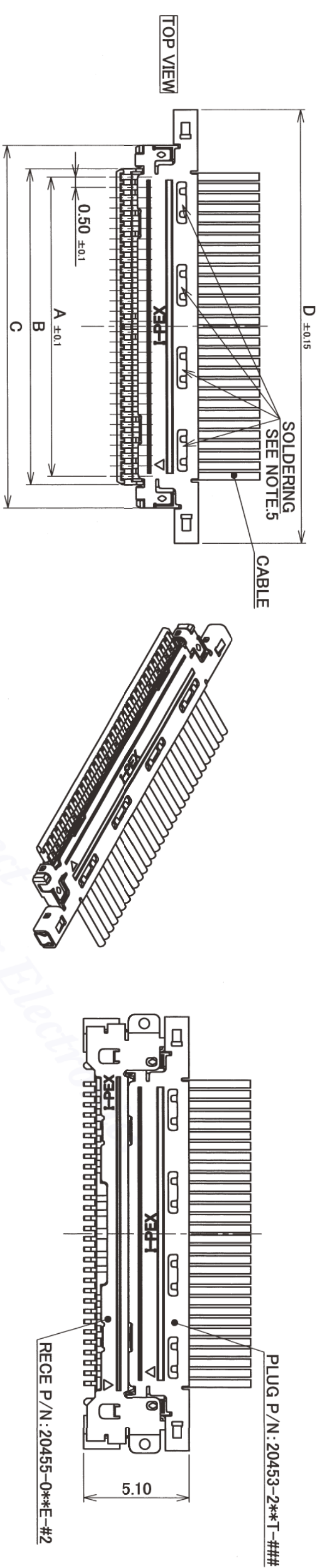
CABLELINE-VS  
PLUG for CABLE ASS'Y TYPE-A



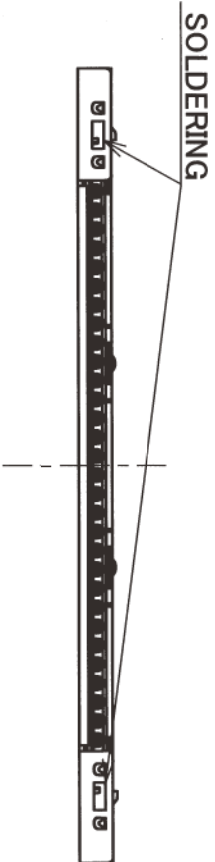
| PART NO.       | A     | B     | C     | D     |
|----------------|-------|-------|-------|-------|
| 20453-220T-*2  | 9.50  | 10.30 | 12.56 | 16.00 |
| 20453-230T-*2  | 14.50 | 15.30 | 17.56 | 21.00 |
| 20453-240T-*2  | 19.50 | 20.30 | 22.56 | 26.00 |
| 20453-250T-*2S | 24.50 | 25.30 | 27.56 | 31.00 |

WITHOUT PULL-BAR

TYPE-A



SECT X-X  
S=10:1



| GENERAL TOLERANCE |               |
|-------------------|---------------|
| 6 MAX.            | $\pm 0.2$     |
| 6 OVER MAX. 30    | $\pm 0.3$     |
| 30 OVER MAX. 120  | $\pm 0.5$     |
| ANGLE             | $\pm 2^\circ$ |

PATENT REGISTERED

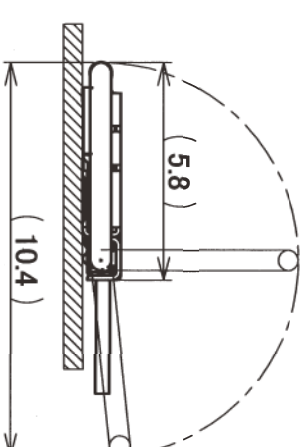
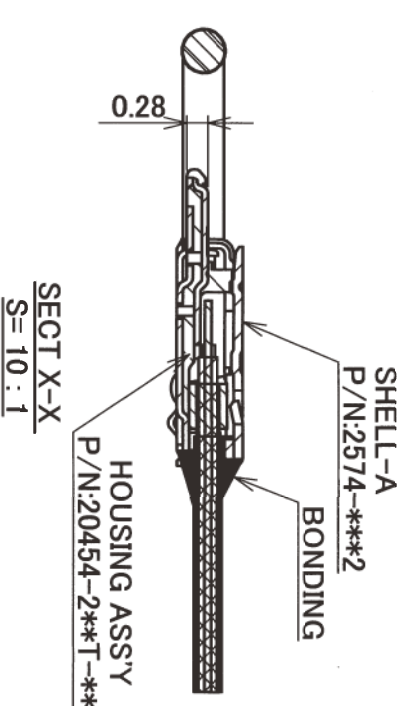
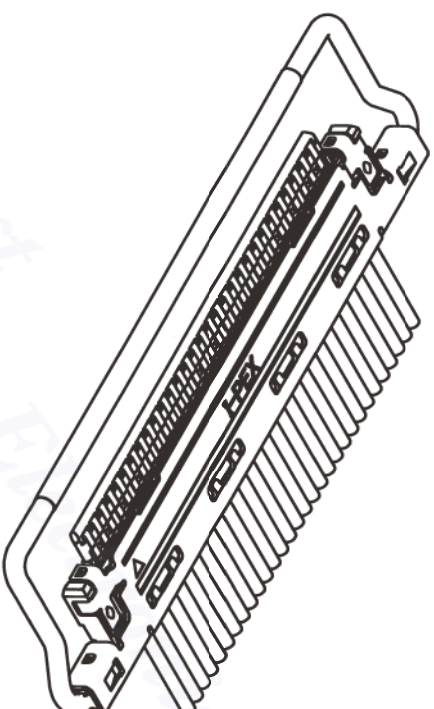
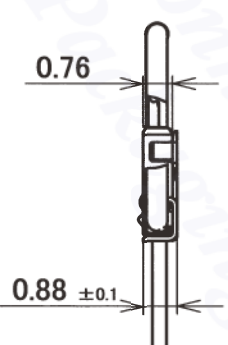
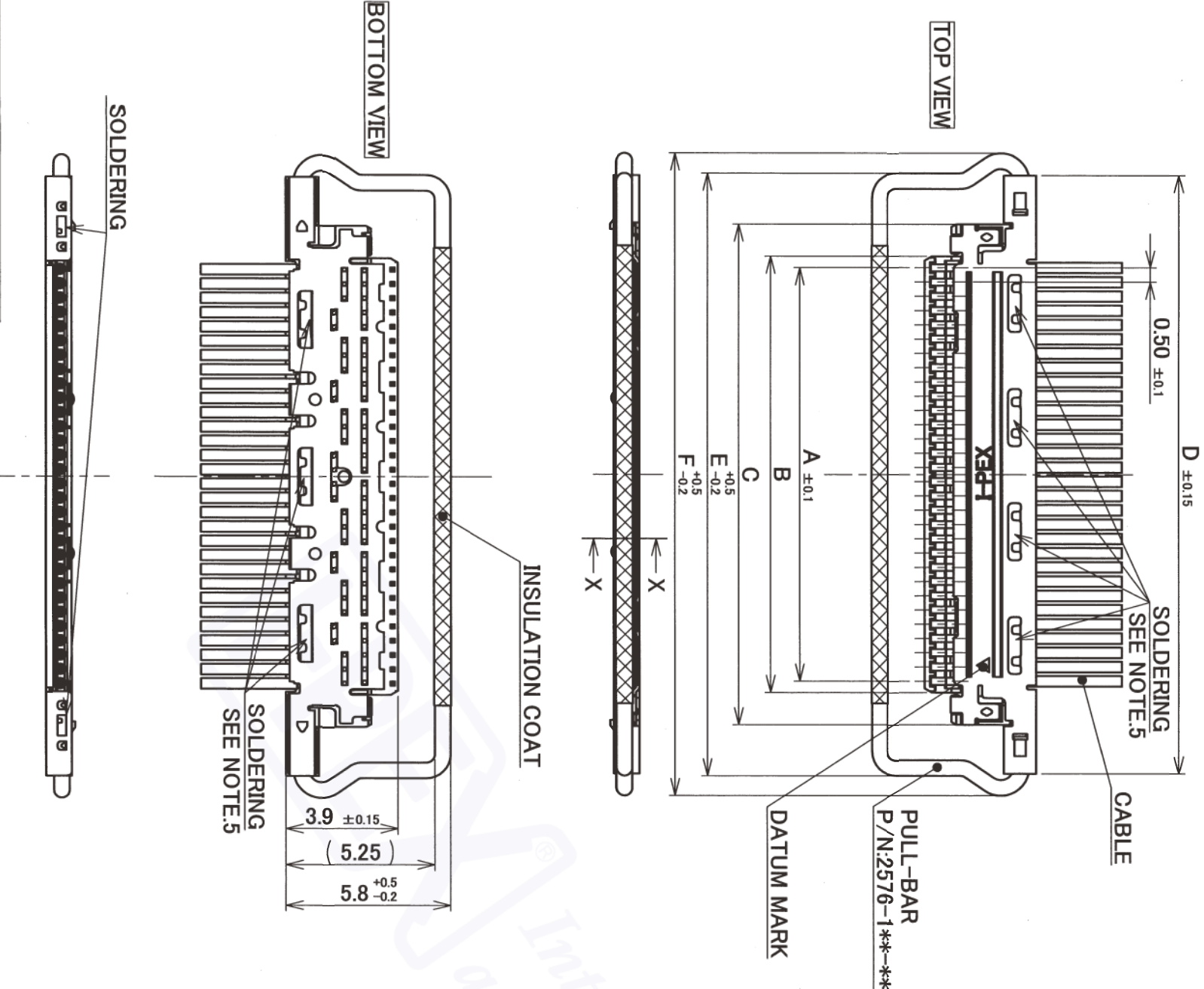
| SERIES No. | CUSTOMER | PROJECTION | SCALE | UNIT | DWG. No. | SHEET | REV. |
|------------|----------|------------|-------|------|----------|-------|------|
| R10R3      | COPY     |            | 5:1   | mm   | 20453    | 2/5   | 3    |

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I-Pex Business Company

CABLINE-VS  
PLUG for CABLE ASS'Y TYPE-A

| Recommended P/N |       | 20453-2**T-11(20P/30P/40P) |       |       |       |       |  | 20453-250T-11S(50P) |  |  |  |  |  |
|-----------------|-------|----------------------------|-------|-------|-------|-------|--|---------------------|--|--|--|--|--|
| PART NO.        | A     | B                          | C     | D     | E     | F     |  |                     |  |  |  |  |  |
| 20453-220T-*3   | 9.50  | 10.30                      | 12.56 | 16.00 | 16.15 | 17.55 |  |                     |  |  |  |  |  |
| 20453-230T-*3   | 14.50 | 15.30                      | 17.56 | 21.00 | 21.15 | 22.55 |  |                     |  |  |  |  |  |
| 20453-240T-*3   | 19.50 | 20.30                      | 22.56 | 26.00 | 26.15 | 27.55 |  |                     |  |  |  |  |  |
| 20453-250T-*3S  | 24.50 | 25.30                      | 27.56 | 31.00 | 31.15 | 32.55 |  |                     |  |  |  |  |  |

WITH INSULATION COAT PULL-BAR TYPE-A



PULL-BAR MOVEMENTS

**I-PEX** DA-ICHI SEIKO CO.,LTD.  
I-Pex Business Company

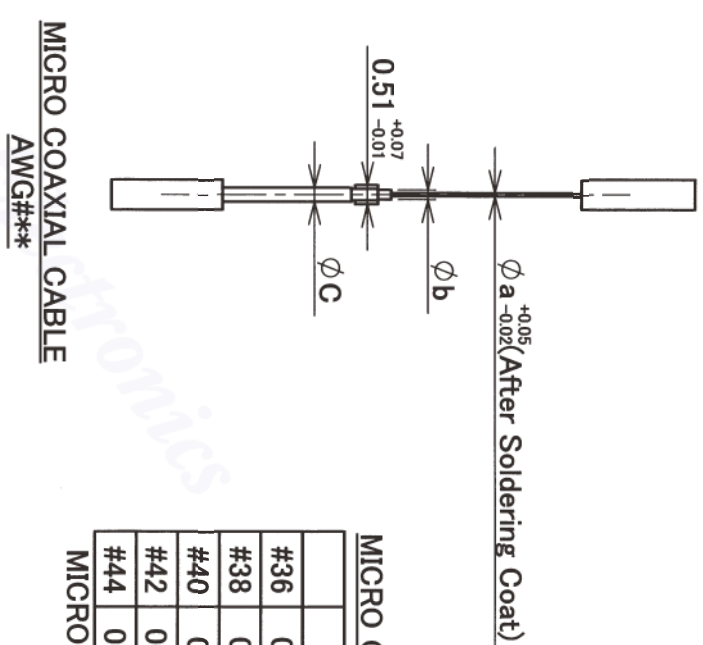
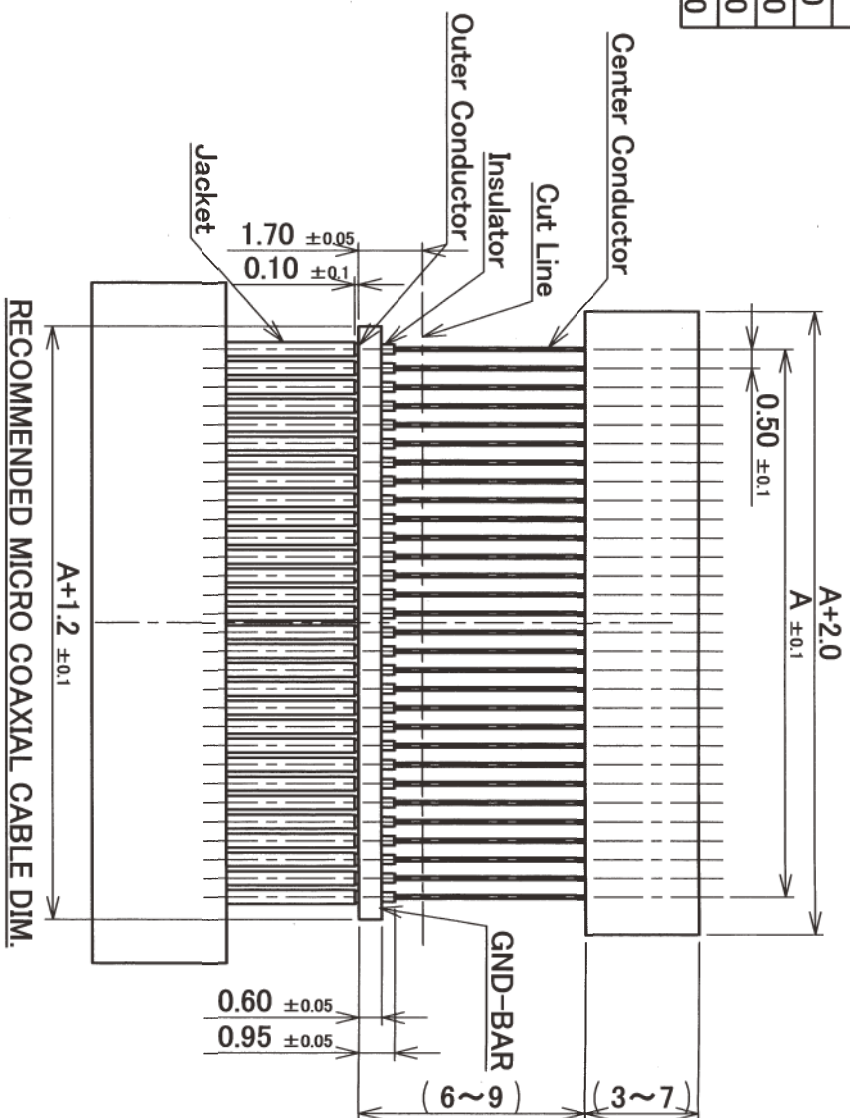
TITLE  
CABLINE-VS  
PLUG for CABLE ASS'Y TYPE-A

| SERIES No. | CUSTOMER | PROJECTION | SCALE | UNIT | DWG. No. | SHEET | REV. |
|------------|----------|------------|-------|------|----------|-------|------|
| R10R3R0    | COPY     |            | 5:1   | mm   | 20453    | 3/5   | 3    |

PATENT REGISTERED

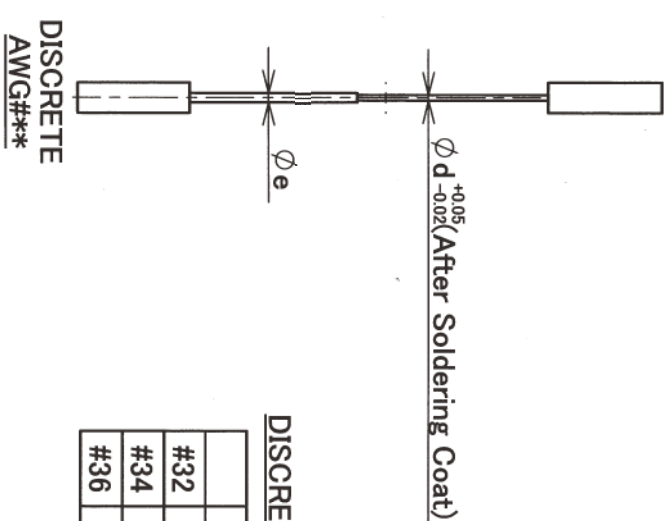
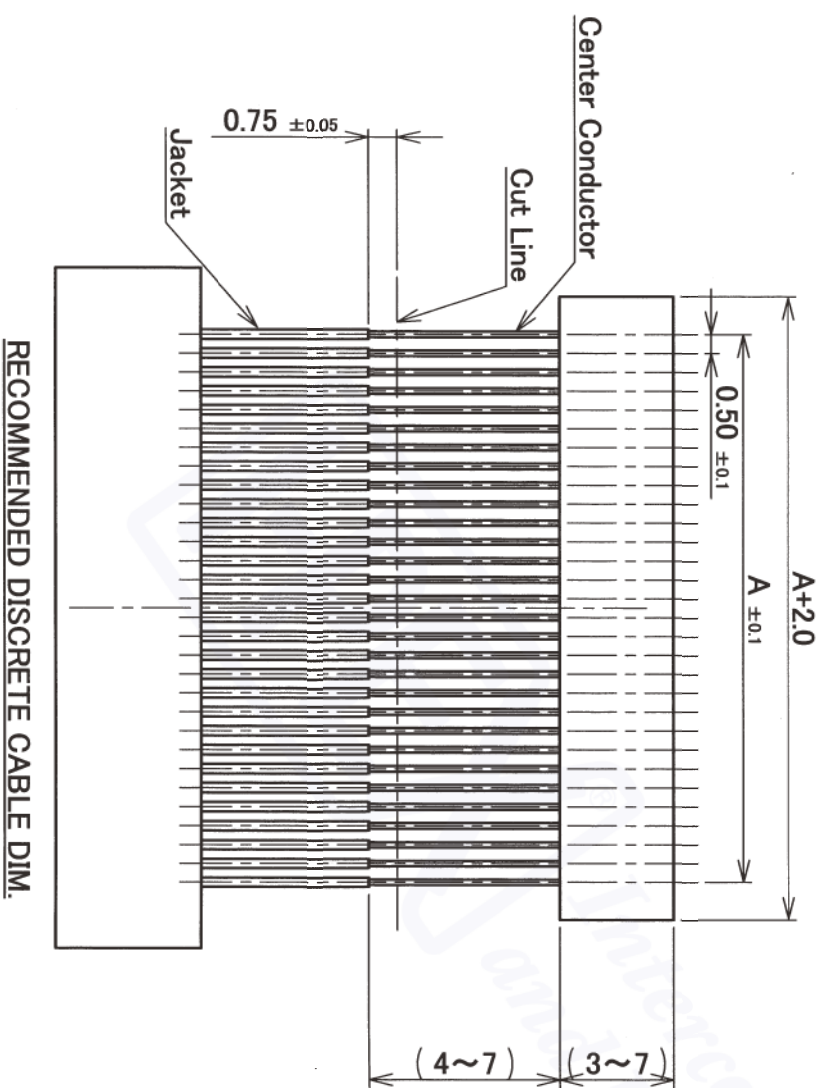
Confidential III C

| PART NO.        | A     |
|-----------------|-------|
| 20453-220T-**-  | 9.50  |
| 20453-230T-**-  | 14.50 |
| 20453-240T-**-  | 19.50 |
| 20453-250T-**-S | 24.50 |



| MICRO COAXIAL CABLE Dimension |       |       |      |
|-------------------------------|-------|-------|------|
|                               | a     | b     | c    |
| #36                           | 0.15  | 0.29  | 0.39 |
| #38                           | 0.12  | 0.285 | 0.39 |
| #40                           | 0.09  | 0.21  | 0.33 |
| #42                           | 0.075 | 0.20  | 0.28 |
| #44                           | 0.063 | 0.18  | 0.26 |

MICRO COAXIAL CABLE #36 : POWER ONLY



| DISCRETE. Dimension |       |      |  |
|---------------------|-------|------|--|
|                     | d     | e    |  |
| #32                 | 0.24  | 0.41 |  |
| #34                 | 0.192 | 0.32 |  |
| #36                 | 0.15  | 0.25 |  |

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I-Pex Business Company

CABLINE-VS  
PLUG for CABLE ASS'Y TYPE-A

| TITLE         | SCALE | UNIT | DWG. No. | SHEET | REV. |
|---------------|-------|------|----------|-------|------|
| CUSTOMER COPY | 5:1   | mm   | 20453    | 4/5   | 3    |

GENERAL TOLERANCE

|                  |      |
|------------------|------|
| 6 MAX.           | ±0.2 |
| 6 OVER MAX. 30   | ±0.3 |
| 30 OVER MAX. 120 | ±0.5 |
| ANGLE            | ±2°  |



Recommended P/N

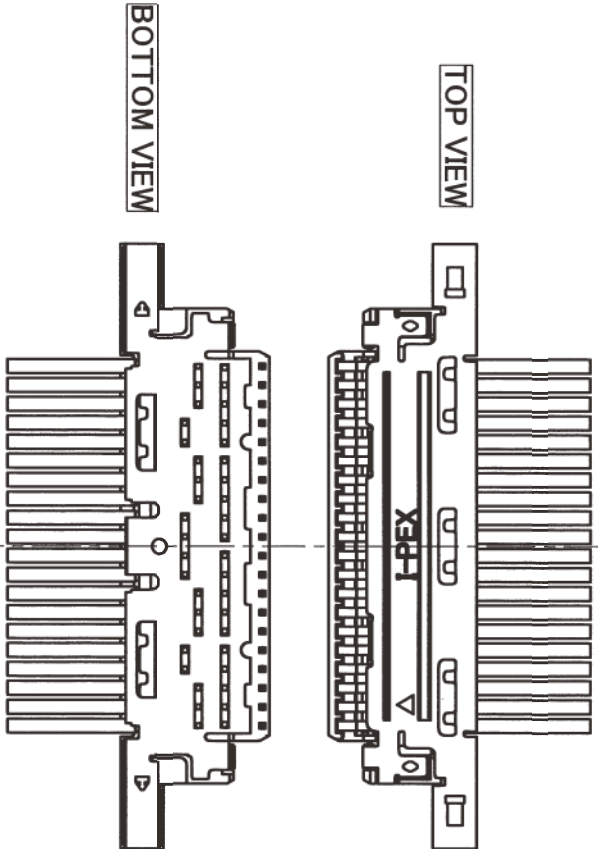
PART NO.

20453-2\*\*T-\*\*\*

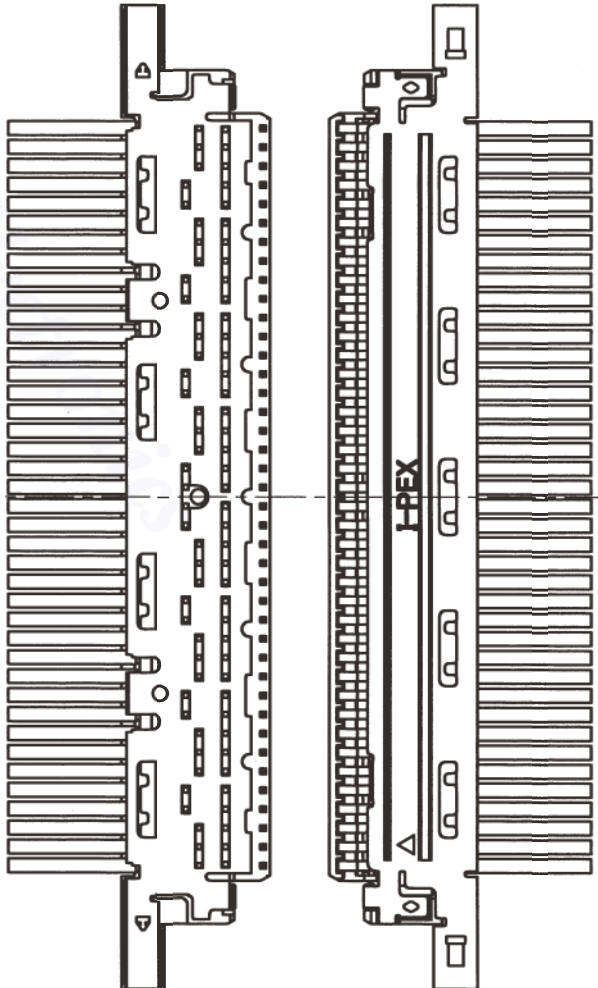
THE EXTERNAL APPEARANCE

TYPE-A

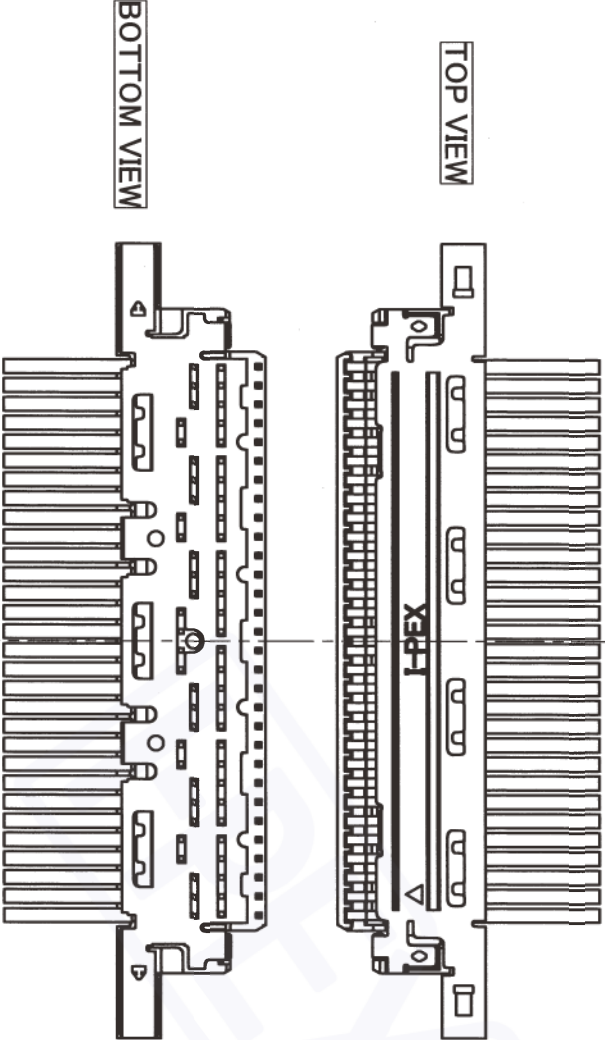
20P



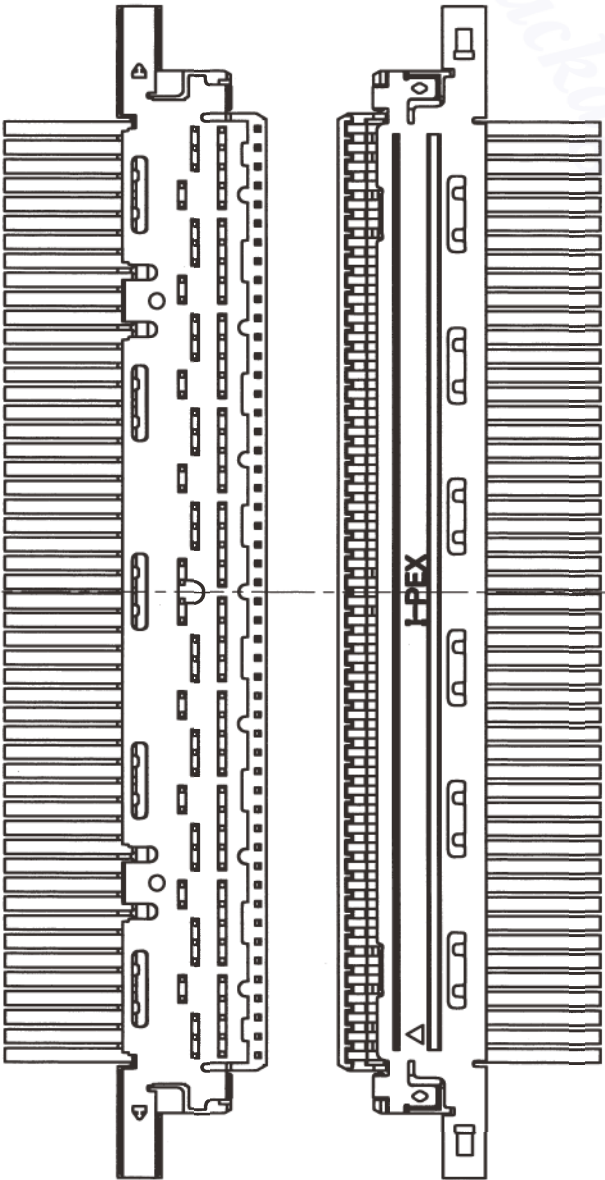
40P



30P



50P



GENERAL TOLERANCE

|                  |               |
|------------------|---------------|
| 6 MAX.           | $\pm 0.2$     |
| 6 OVER MAX. 30   | $\pm 0.3$     |
| 30 OVER MAX. 120 | $\pm 0.5$     |
| ANGLE            | $\pm 2^\circ$ |

Confidential III C

**I-PEX** DAICHI SEIKO CO.,LTD.  
I-Pex Business Company

CABLINE-VS  
PLUG for CABLE ASS'Y TYPE-A

|               |            |       |      |          |       |      |
|---------------|------------|-------|------|----------|-------|------|
| CUSTOMER COPY | PROJECTION | SCALE | UNIT | DWG. No. | SHEET | REV. |
|               |            | 5:1   | mm   | 20453    | 5/5   | 3    |