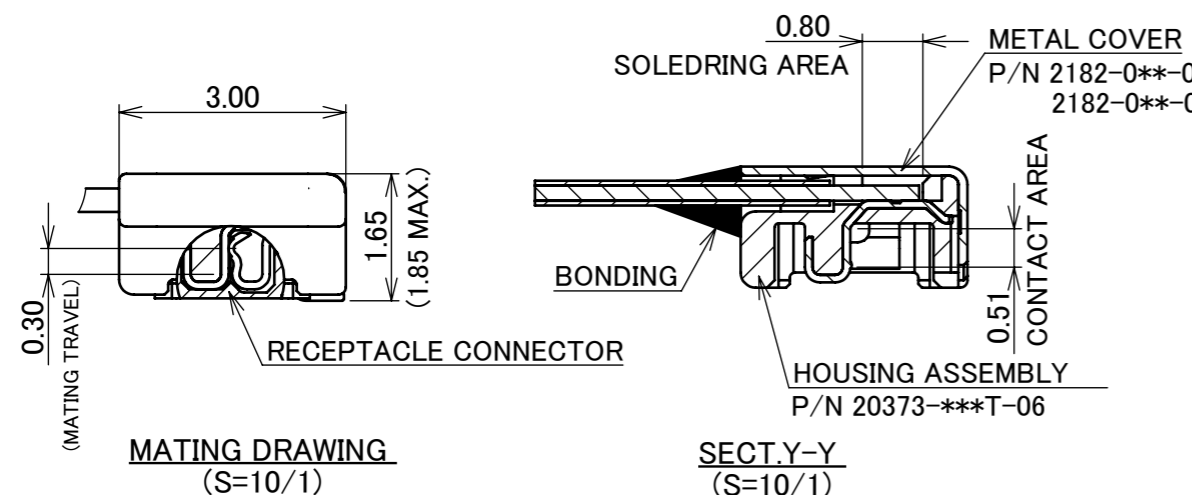
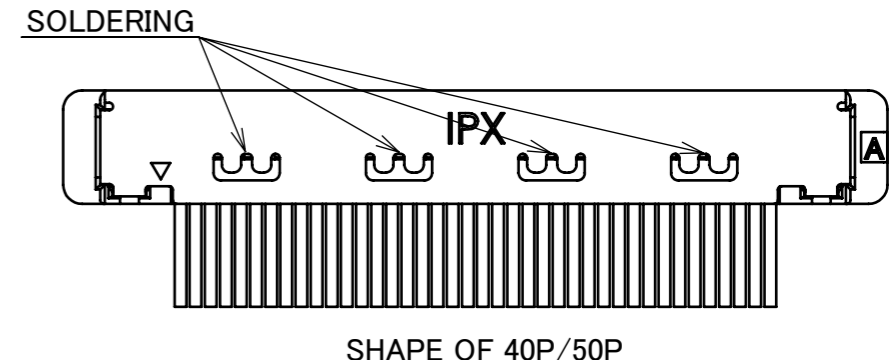
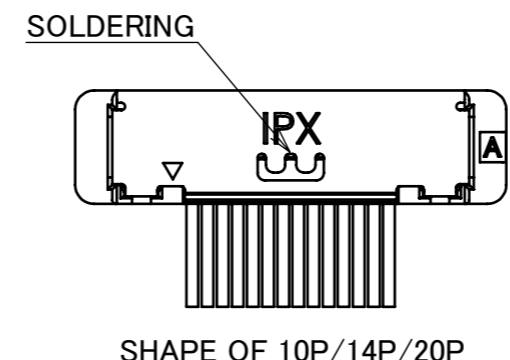
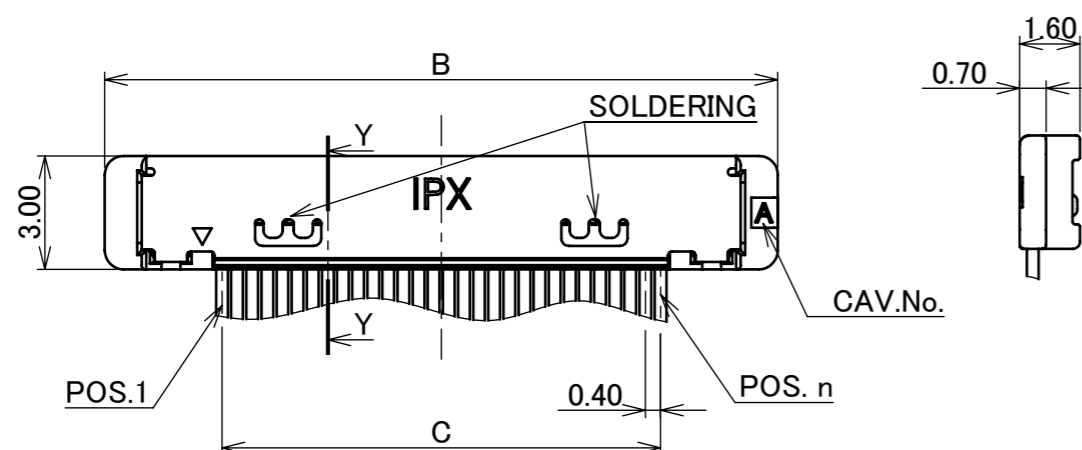
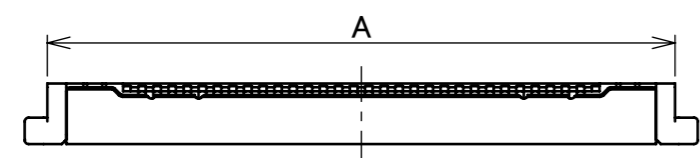
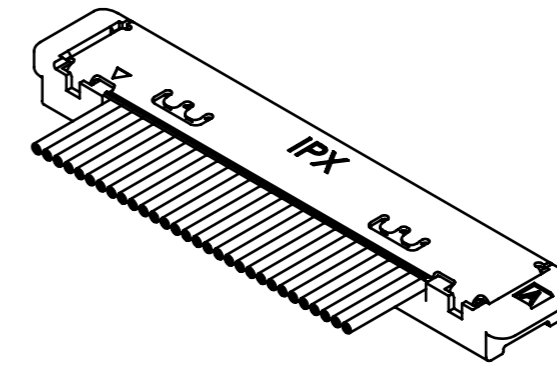


| PART NO. | POS. | MATING RECEPTACLE P/N | A | B | C |
|---------------|------|-----------------------|------|------|------|
| 20380-R10T-06 | 10 | 20374-R10E-31 | 8.6 | 9.8 | 3.6 |
| 20380-R14T-06 | 14 | 20374-R14E-31 | 10.2 | 11.4 | 5.2 |
| 20380-R20T-06 | 20 | 20374-R20E-31 | 12.6 | 13.8 | 7.6 |
| 20380-R30T-06 | 30 | 20374-R30E-31 | 16.6 | 17.8 | 11.6 |
| 20380-R32T-06 | 32 | 20374-R32E-31 | 17.4 | 18.6 | 12.4 |
| 20380-R35T-06 | 35 | 20374-R35E-31 | 18.6 | 19.8 | 13.6 |
| 20380-R40T-16 | 40 | 20374-R40E-31 | 20.6 | 21.8 | 15.6 |
| 20380-R50T-16 | 50 | 20374-R50E-31 | 24.6 | 25.8 | 19.6 |

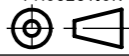


NOTES.
1. THE CABLE MUST NOT HOLD WHEN UN-MATING A CONNECTOR.

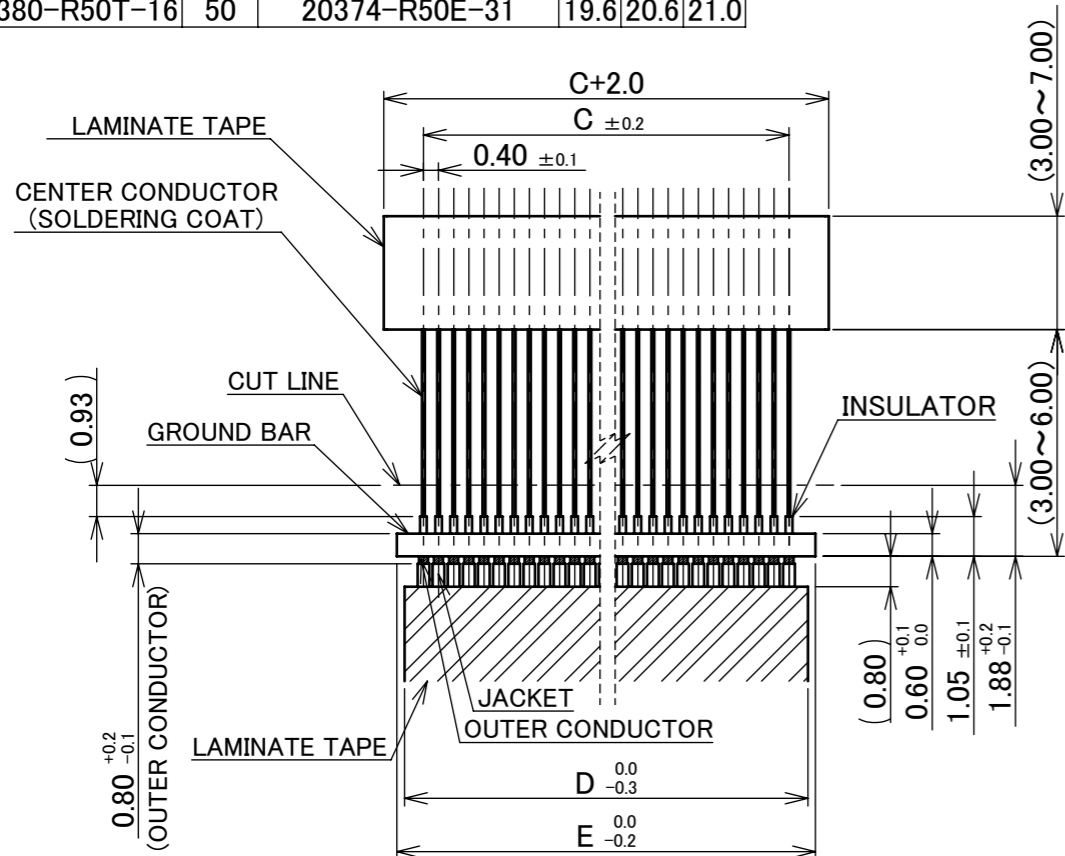
| NO. | DISCRIPTION | MATERIAL | FINISH, REMARKS |
|-----|-------------|-----------------|----------------------------------------------------------------------------------------------------------|
| 3 | METAL COVER | PHOSPHOR BRONZE | Sn REFLOW 1.00 μm MIN. |
| 2 | CONTACT | PHOSPHOR BRONZE | CONTACT AREA: Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA: Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. |
| 1 | HOUSING | LCP | UL94V-0, BLACK |

| REV. | ECN | BY | DATE | APP. | APP. | PROJECTION | SERIES No. | TITLE | SCALE | SHEET | REV. |
|-----------------|---------|--------|--------------|------|--------------------|-----------------------|------------|---------------------------------------------------------|-------|-------|------|
| 27 | Z240824 | RYO | June/26/'24 | H.I | ANGLE ±2° | 6 OVER 30 MAX. ±0.3 | R9R3 | CABLINER [®] -SS PLUG FOR CABLE ASSEMBLY | 5:1 | I-PEX | 27 |
| 26 | Z230099 | K.Hara | Jan./24/'23 | H.I | 6 MAX. ±0.2 | 30 OVER 120 MAX. ±0.5 | | | mm | | |
| 25 | Z221004 | K.Hara | Sept./05/'22 | H.I | GENERAL TOLERANCE. | | | | | | |
| 24 | Z210420 | T.T | Apr./21/'21 | H.I | DWG. H.Ikari | DATE 2004/07/30 | | | | | |
| 23 | Z210383 | K.Hara | Apr./12/'21 | H.I | CHK. E.Kawabe | | | | | | |
| 22 | Z200346 | K.Hara | Mar./26/'20 | H.I | APP. T.Harada | | | | | | |
| REVISION RECORD | | | | | | DWG. No. 20380 | SIZE A3 | SHEET 1/3 | | | |

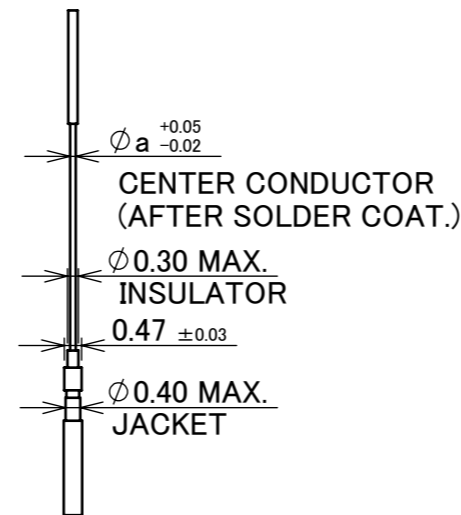
| ITEMS | SPECIFICATION |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICABLE CABLE | MICRO-COAXIAL CABLE : AWG# 42 , 40 , 36 DISCRETE WIRE : AWG# 36 , 34 |
| RATING VOLTAGE | 100V AC (PER CONTACT PIN) |
| RATING AMPERAGE (FOR CONTACT) | 0.24A AC/DC [AWG#42] AVAILABLE TO 50 PIN 0.25A AC/DC [AWG#40] AVAILABLE TO 50 PIN 0.30A AC/DC [AWG#40] AVAILABLE TO 32 PIN 0.35A AC/DC [AWG#36] AVAILABLE TO 50 PIN 0.40A AC/DC [AWG#36] AVAILABLE TO 37 PIN 0.35A AC/DC [AWG#34] AVAILABLE TO 50 PIN 1.00A AC/DC [AWG#34] AVAILABLE TO 2 PIN |
| OPERATING TEMPERATURE | 233~358K(-40°C~+85°C) |
| OPERATING HUMIDITY | 85% MAX.(NON-CONDENSING) |
| CONTACT RESISTANCE | INITIAL : 180mohm MAX. (AWG#34) / AFTER TEST : \triangle 40mohm MAX. 275mohm MAX. (AWG#36) 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) (INITIAL CONTAINS THE CONDUCTOR RESISTANCE OF A CABLE 100mm) |
| 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 TEST) | 10P : 29.00N MAX. 32P : 33.40N MAX. 14P : 29.80N MAX. 35P : 34.00N MAX. 20P : 31.00N MAX. 40P : 35.00N MAX. 30P : 33.00N MAX. 50P : 38.00N MAX. |
| UNMATING FORCE (INITIAL / AFTER TEST) | 10P : INITIAL : 4.00N MIN. / AFTER 30 CYCLES : 2.87N MIN. 14P : INITIAL : 4.40N MIN. / AFTER 30 CYCLES : 3.23N MIN. 20P : INITIAL : 5.00N MIN. / AFTER 30 CYCLES : 3.76N MIN. 30P : INITIAL : 6.00N MIN. / AFTER 30 CYCLES : 4.65N MIN. 32P : INITIAL : 6.20N MIN. / AFTER 30 CYCLES : 4.84N MIN. 35P : INITIAL : 6.50N MIN. / AFTER 30 CYCLES : 5.07N MIN. 40P : INITIAL : 7.00N MIN. / AFTER 30 CYCLES : 5.50N MIN. 50P : INITIAL : 8.00N MIN. / AFTER 30 CYCLES : 6.41N MIN. |
| CABLE RETENTION FORCE | 10P : 4.90N MIN. 32P : 15.68N MIN. 14P : 6.86N MIN. 35P : 17.15N MIN. 20P : 9.80N MIN. 40P : 19.60N MIN. 30P : 14.70N MIN. 50P : 24.50N MIN. |
| PRODUCT SPECIFICATION | PRS-1239 |
| TEST REPORT | TR-04037 |
| INSTRUCTION MANUAL | HIM-04001 |
| ASSEMBLY MANUAL | ASM-04001 |
| APPEARANCE CRITERIA No. | QLS-A*** |

| | | | | | | | | |
|--------------------|---------------|----------------|------------------|-----------------------------------------------------------------------------------------------------|--------------------|---------------|-------|------|
| ANGLE | $\pm 2^\circ$ | 6 OVER 30 MAX. | ± 0.3 | PROJECTION  | SERIES No. R9R3 | CUSTOMER COPY | | |
| | 6 MAX. | ± 0.2 | 30 OVER 120 MAX. | | | | | |
| GENERAL TOLERANCE. | | | | TITLE CABLIN [®] -SS PLUG FOR CABLE ASSEMBLY | SCALE | I-PEX | | |
| DWG. | DATE | | | | - | | | |
| CHK. | | | | | UNIT | | | |
| APP. | | | | | mm | | | |
| | | | | DWG. No. | 20380 | SIZE | SHEET | REV. |
| | | | | | | A3 | 2/3 | 27 |

| PART NO. | POS. | MATING RECEPT. P/N | C | D | E |
|---------------|------|--------------------|------|------|------|
| 20380-R10T-06 | 10 | 20374-R10E-31 | 3.6 | 4.6 | 5.0 |
| 20380-R14T-06 | 14 | 20374-R14E-31 | 5.2 | 6.2 | 6.6 |
| 20380-R20T-06 | 20 | 20374-R20E-31 | 7.6 | 8.6 | 9.0 |
| 20380-R30T-06 | 30 | 20374-R30E-31 | 11.6 | 12.6 | 13.0 |
| 20380-R32T-06 | 32 | 20374-R32E-31 | 12.4 | 13.4 | 13.8 |
| 20380-R35T-06 | 35 | 20374-R35E-31 | 13.6 | 14.6 | 15.0 |
| 20380-R40T-16 | 40 | 20374-R40E-31 | 15.6 | 16.6 | 17.0 |
| 20380-R50T-16 | 50 | 20374-R50E-31 | 19.6 | 20.6 | 21.0 |



RECOMMENDED MICRO-COAXIAL CABLE DIMENSION (NTS)



MICRO-COAXIAL CABLE (AWG #42,40,36)

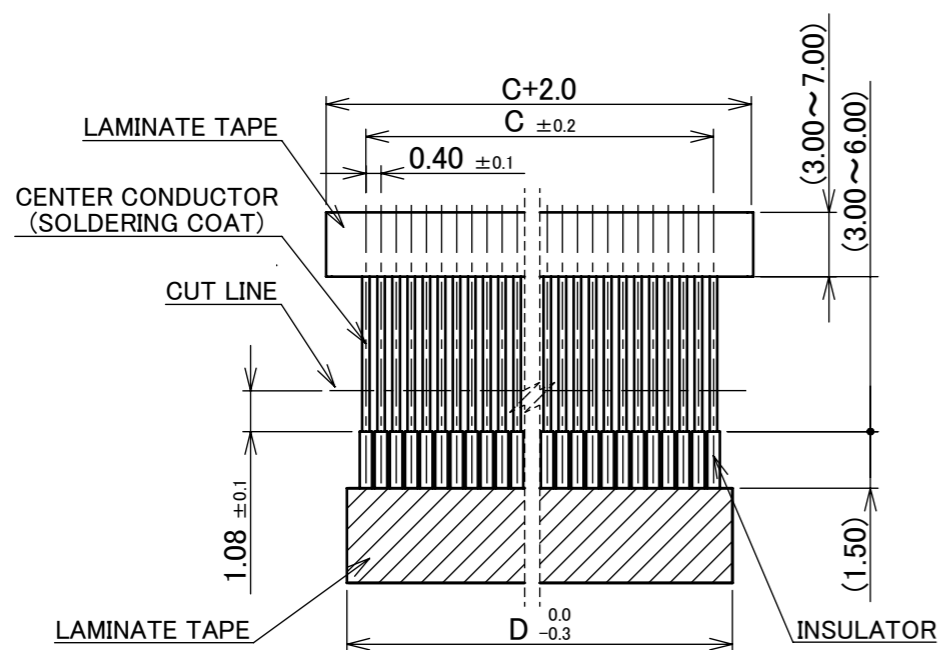
CHARACTERISTIC IMPEDANCE MACHING MICRO-COAXIAL CABLE

| | a |
|-----|---------|
| #40 | φ 0.09 |
| #42 | φ 0.075 |

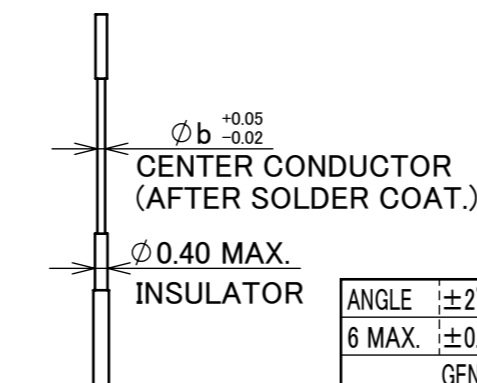
CHARACTERISTIC IMPEDANCE UN-MACHING MICRO-COAXIAL CABLE

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

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



RECOMMENDED DISCRETE WIRE DIMENSION



DISCRETE WIRE (AWG #36,34)

DISCRETE WIRE DIMENSION

| | b |
|-----|---------|
| #34 | φ 0.192 |
| #36 | φ 0.15 |

| | | | | | | | | |
|--------------------|--------|----------------|------------------|---------------------------------------------------------|--------------------|---------------|--------------|------------|
| ANGLE | ±2° | 6 OVER 30 MAX. | ±0.3 | PROJECTION ⊕ | SERIES No. R9R3 | CUSTOMER COPY | | |
| | 6 MAX. | ±0.2 | 30 OVER 120 MAX. | | | | | ±0.5 |
| GENERAL TOLERANCE. | | | | TITLE | | SCALE | I-PEX | |
| DWG. | DATE | | | CABLINER [®] -SS PLUG FOR CABLE ASSEMBLY | | 5:1 | | |
| CHK. | | | | | | UNIT mm | | |
| APP. | | | | DWG. No. | 20380 | SIZE A3 | SHEET 3/3 | REV. 27 |