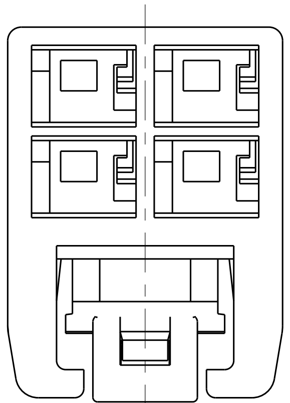
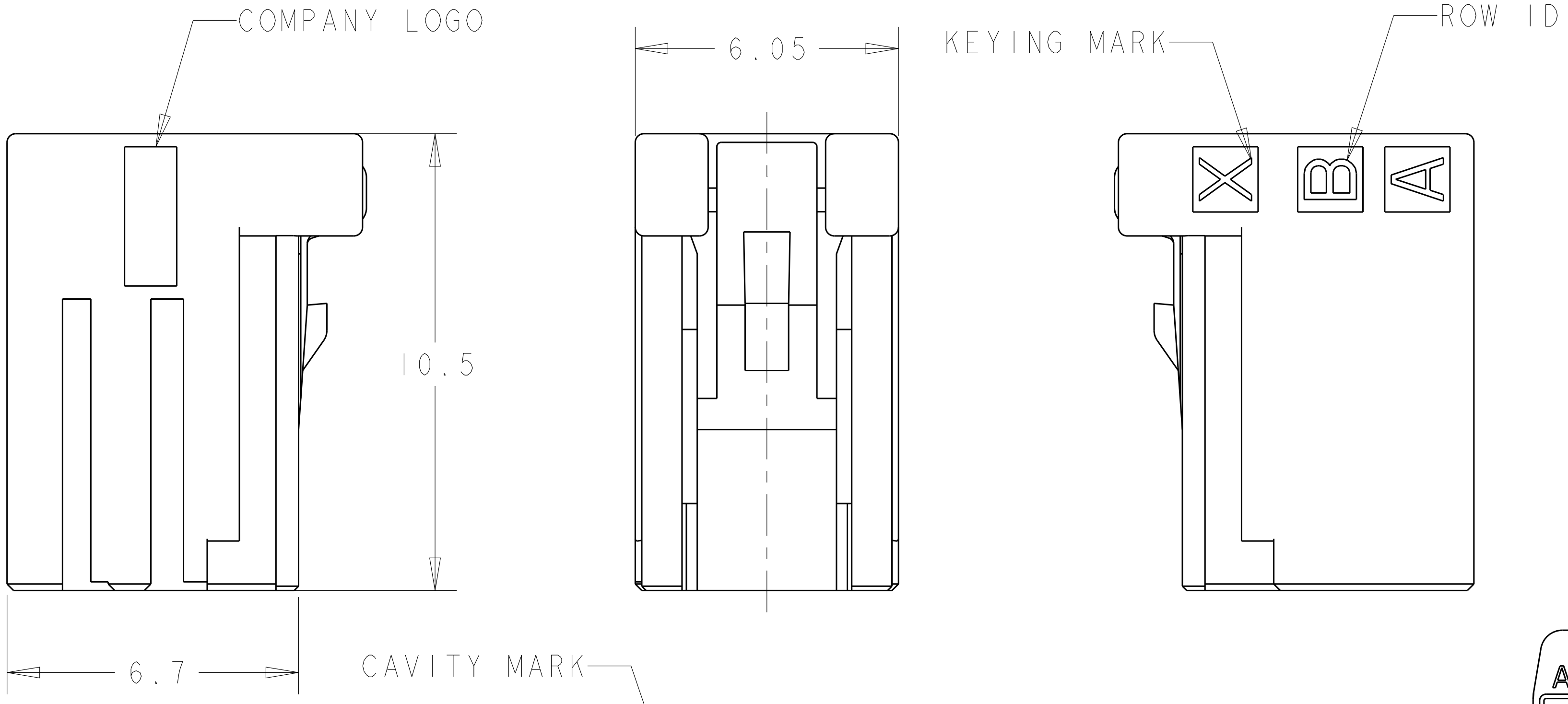
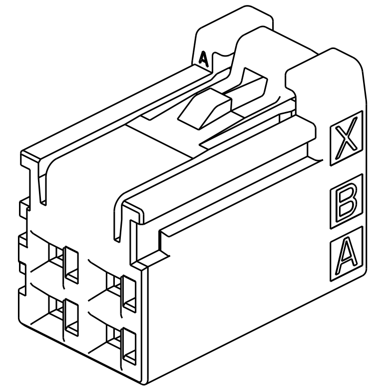
REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | A | RELEASED | 23MAR2021 | Y.O | E.I |
| | B | REVISED | 17JUN2021 | Y.O | T.S |
| | C | REVISED | 13JAN2022 | Y.O | T.S |

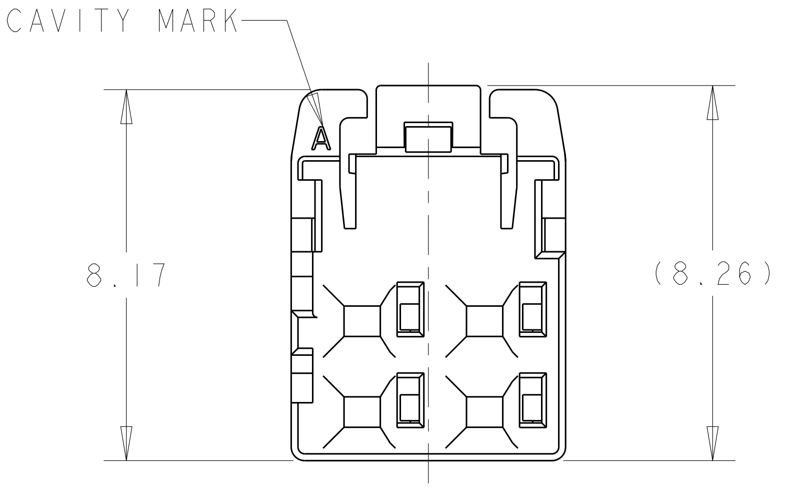
1. MATERIAL: GLASS FILED THERMO PLASTIC
   POLYESTER(94V-0),
   COLOR: SEE TABLE
   CONTAMINATION Ø1.2 MAX
2. INSTRUCTION SHEET: 408-78197
3. CIRCUIT NUMBER IS CONSISTED ROW ID
   AND CIRCUIT ID
   EX: A1, A2, B1, B2
   REFER TO SHEET 5



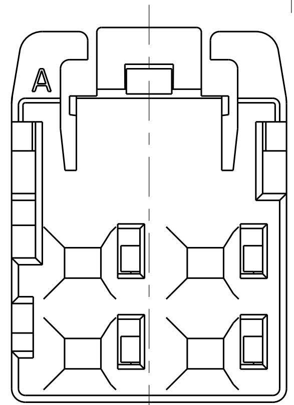



SCALE 4:1




1-2366515-4
X KEY 4POSN




2-2366515-4
Y KEY 4POSN

| COLOR | KEYING | POSN | PART NUMBER |
|---|---|---|---|
| BLUE | Y | 12 | 8-2366515-2 |
| | X | | 7-2366515-2 |
| NATURAL | Y | | 6-2366515-2 |
| | X | | 5-2366515-2 |
| BLACK | Y | | 4-2366515-2 |
| | X | | 3-2366515-2 |
| BLUE | Y | 8 | 8-2366515-8 |
| | X | | 7-2366515-8 |
| NATURAL | Y | | 6-2366515-8 |
| | X | | 5-2366515-8 |
| BLACK | Y | | 2-2366515-8 |
| | X | | 1-2366515-8 |
| BLUE | Y | 6 | 8-2366515-6 |
| | X | | 7-2366515-6 |
| NATURAL | Y | | 6-2366515-6 |
| | X | | 5-2366515-6 |
| BLACK | Y | | 2-2366515-6 |
| | X | | 1-2366515-6 |
| BLUE | Y | 4 | 8-2366515-4 |
| | X | | 7-2366515-4 |
| NATURAL | Y | | 6-2366515-4 |
| | X | | 5-2366515-4 |
| BLACK | Y | | 2-2366515-4 |
| | X | | 1-2366515-4 |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.5, ±3°

| | |
|---|---|
| 0 PLC | ± - |
| 1 PLC | ±0.5 |
| 2 PLC | ±0.13 |
| 3 PLC | ±0.013 |
| 4 PLC | ±0.0001 |
| ANGLES | ± - |

MATERIAL: SEE NOTE -

FINISH: - -

DWN: Y.OKADA 12MAY2020
CHK: T.SHIMOYASU 12MAY2020
APVD: E.IKEMATSU 12MAY2020

PRODUCT SPEC: 108-140257

APPLICATION SPEC: -

WEIGHT: -

CUSTOMER DRAWING

TE Connectivity

NAME: RECEPTACLE HOUSING, D1000 SLIM, DYNAMIC
-

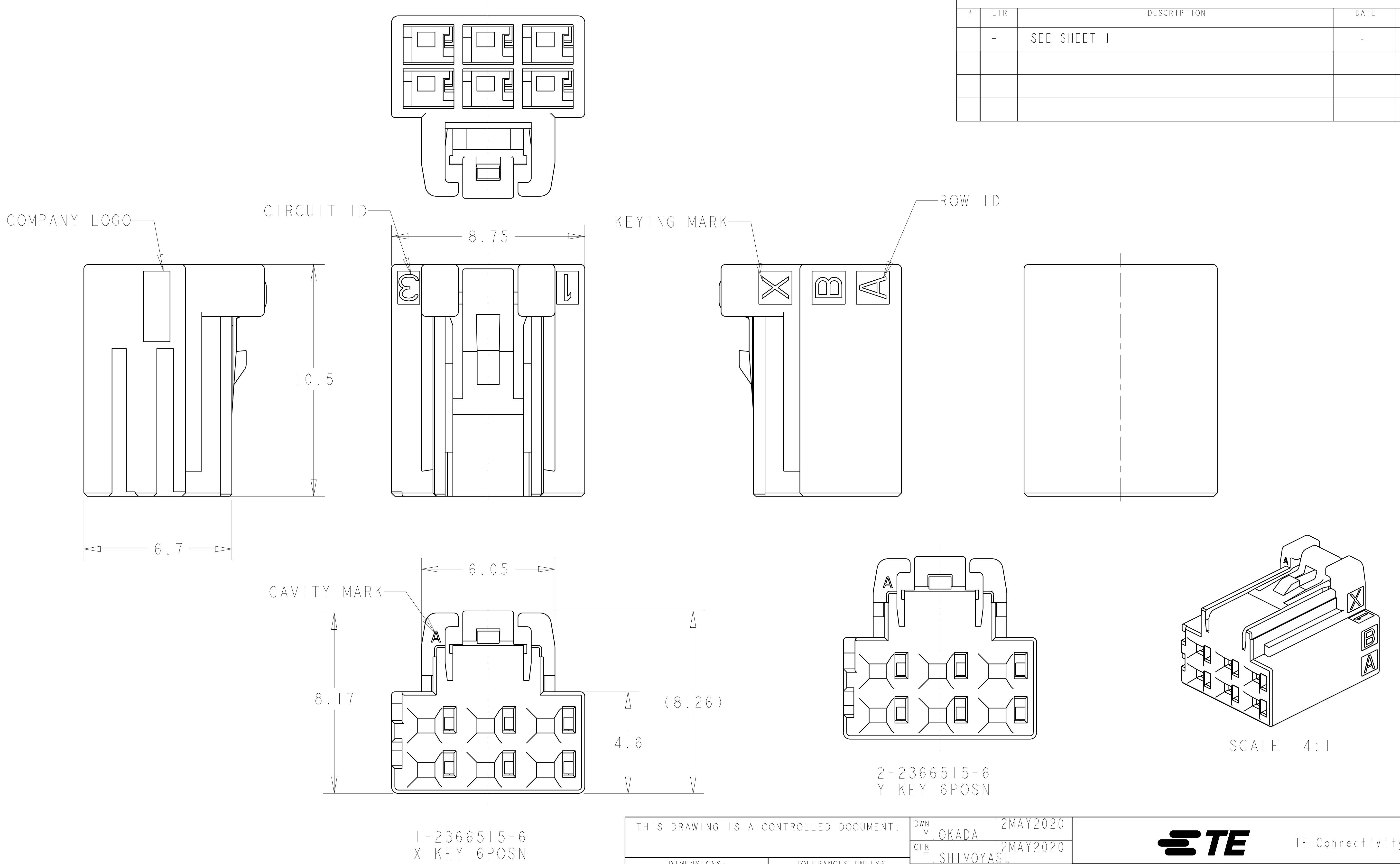
| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A3 | 00779 | C-2366515 | - |

SCALE 6:1 SHEET 1 OF 5 REV C

1470-19 (3/13)

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |
| | | | | | |
| | | | | | |
| | | | | | |




THIS DRAWING IS A CONTROLLED DOCUMENT.

| | |
|---|---|
| DWN | Y.OKADA 12MAY2020 |
| CHK | T.SHIMOYASU 12MAY2020 |
| APVD | E.IKEMATSU 12MAY2020 |
| PRODUCT SPEC | 108-140257 |
| APPLICATION SPEC | - |
| WEIGHT | - |

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.5, ±3°

| | |
|---|---|
| ~~0 PLC~~ | ~~±-~~ |
| ~~1 PLC~~ | ~~±0.5~~ |
| ~~2 PLC~~ | ~~±0.13~~ |
| ~~3 PLC~~ | ~~±0.013~~ |
| ~~4 PLC~~ | ~~±0.0001~~ |
| ANGLES | ±- |

MATERIAL: SEE NOTE -

FINISH: - -

CUSTOMER DRAWING

TE Connectivity

NAME: RECEPTACLE HOUSING, D1000 SLIM, DYNAMIC -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A3 | 00779 | C-2366515 | - |

| SCALE | SHEET | REV |
|---|---|---|
| 6:1 | 2 OF 5 | C |

1470-19 (3/13)

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
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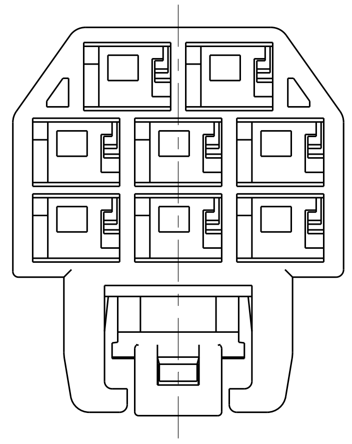
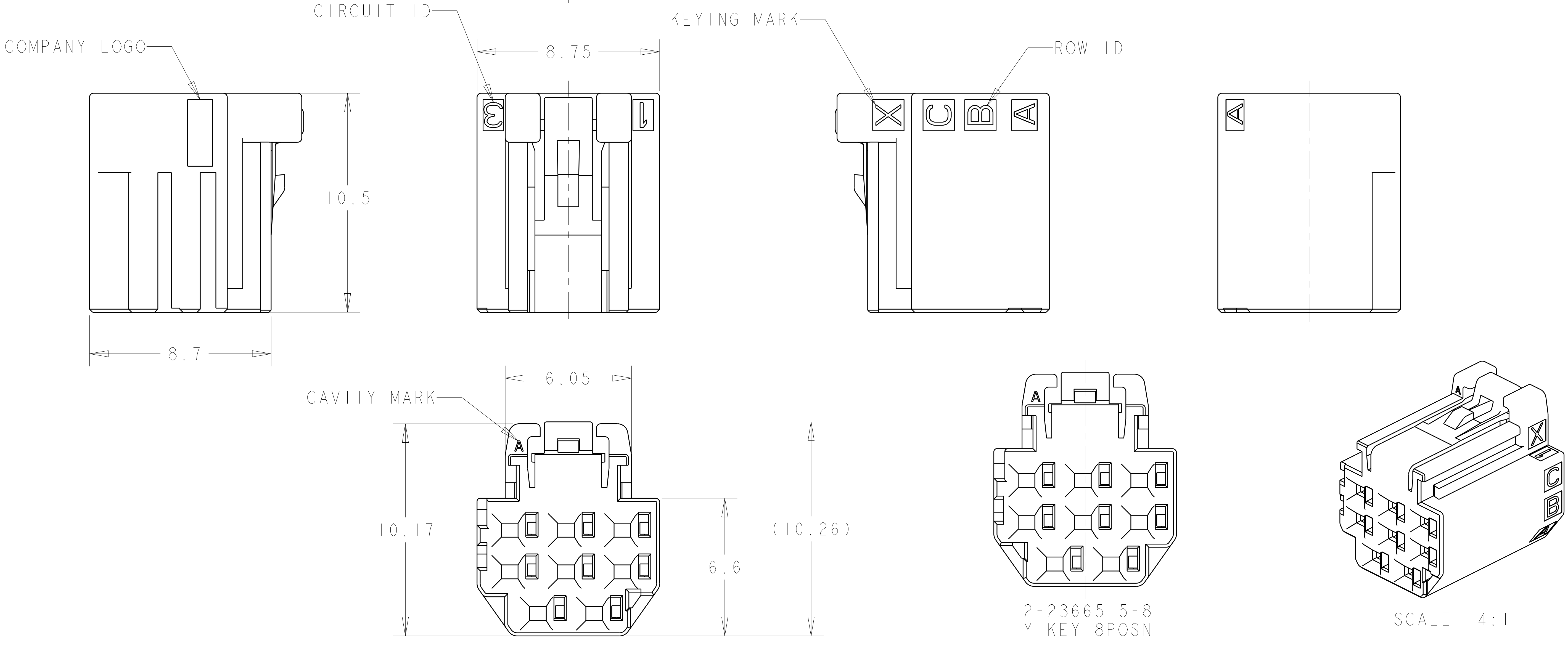
| | | | | | |
| | | | | | |
| | | | | | |






1-2366515-8
X KEY 8POSN

THIS DRAWING IS A CONTROLLED DOCUMENT.

| | |
|---|---|
| DWN | Y.OKADA 12MAY2020 |
| CHK | T.SHIMOYASU 12MAY2020 |
| APVD | E.IKEMATSU 12MAY2020 |
| PRODUCT SPEC | 108-140257 |
| APPLICATION SPEC | - |
| WEIGHT | - |

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.5, ±3°

| | |
|---|---|
| ~~0 PLC~~ | ~~±-~~ |
| ~~1 PLC~~ | ~~±0.5~~ |
| ~~2 PLC~~ | ~~±0.13~~ |
| ~~3 PLC~~ | ~~±0.013~~ |
| ~~4 PLC~~ | ~~±0.0001~~ |
| ANGLES | ±- |

MATERIAL: SEE NOTE -

FINISH: - -

TE Connectivity

NAME: RECEPTACLE HOUSING, D1000 SLIM, DYNAMIC -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A3 | 00779 | C-2366515 | - |

CUSTOMER DRAWING

| SCALE | SHEET | REV |
|---|---|---|
| 5:1 | 3 OF 5 | C |

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |
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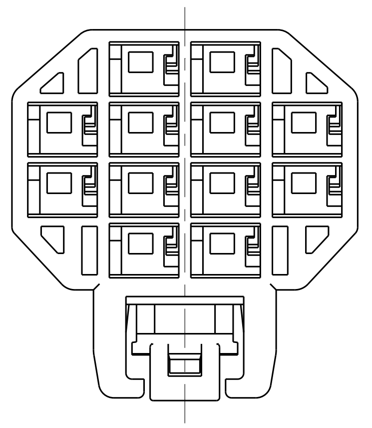
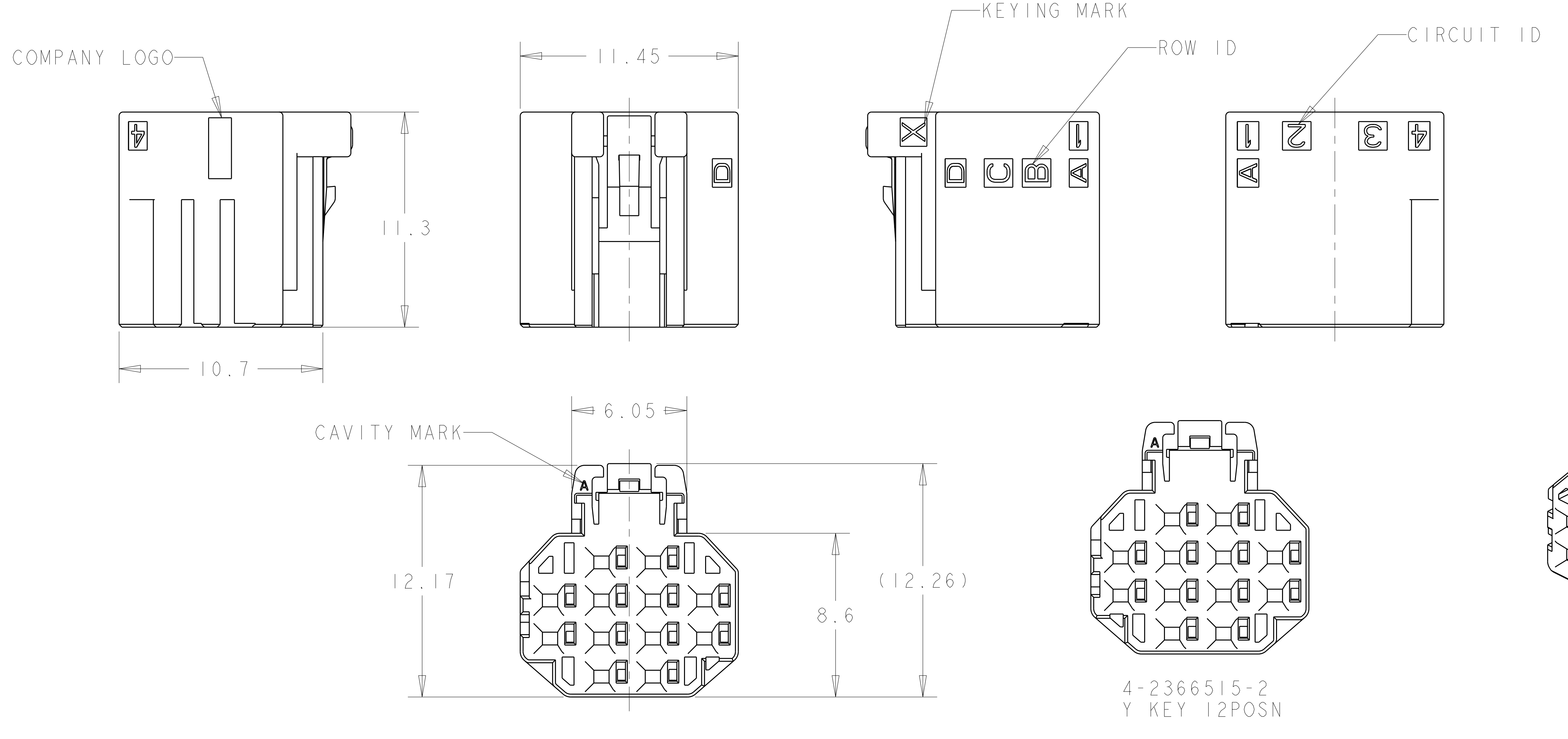
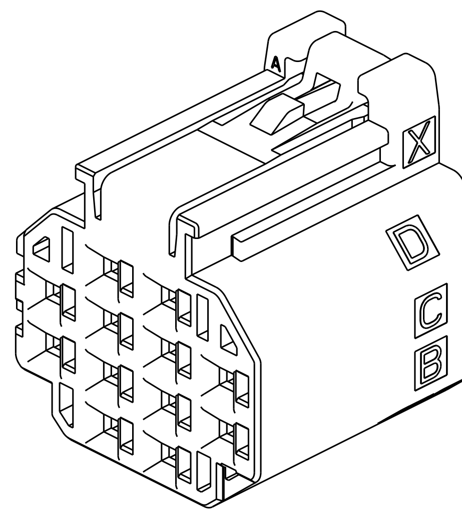
| | | | | | |
| | | | | | |






3-2366515-2
X KEY 12POSN

4-2366515-2
Y KEY 12POSN



| | | | |
|---|---|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN Y.OKADA 12MAY2020<br>CHK T.SHIMOYASU 12MAY2020<br>APVD E.IKEMATSU 12MAY2020 | TE Connectivity |
| DIMENSIONS: mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.5, ±3°<br>~~0 PLC ±-~~<br>~~1 PLC ±0.5~~<br>~~2 PLC ±0.13~~<br>~~3 PLC ±0.013~~<br>~~4 PLC ±0.0001~~<br>ANGLES ±- | PRODUCT SPEC 108-140257<br>APPLICATION SPEC - | NAME RECEPTACLE HOUSING, D1000 SLIM, DYNAMIC - |
| MATERIAL SEE NOTE - | FINISH - - | WEIGHT - | SIZE A3 · CAGE CODE 00779 · DRAWING NO C-2366515 · RESTRICTED TO - |
| | | CUSTOMER DRAWING | SCALE 4:1 · SHEET 4 OF 5 · REV C |

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
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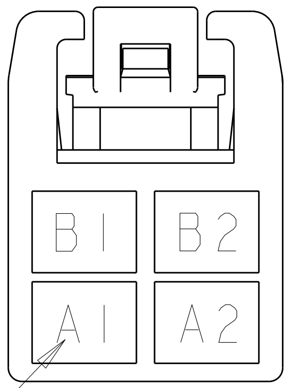
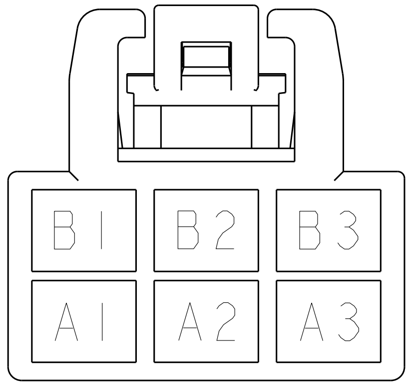
| | | | | | |
| | | | | | |
| | | | | | |

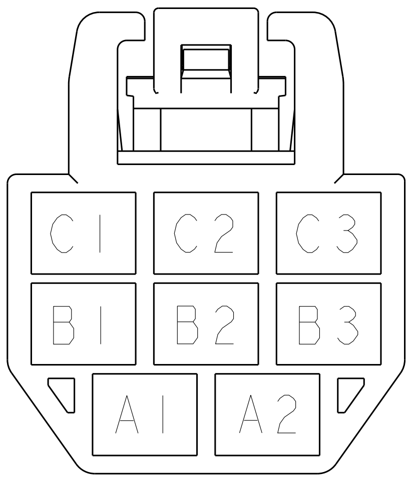



CIRCUIT NUMBER

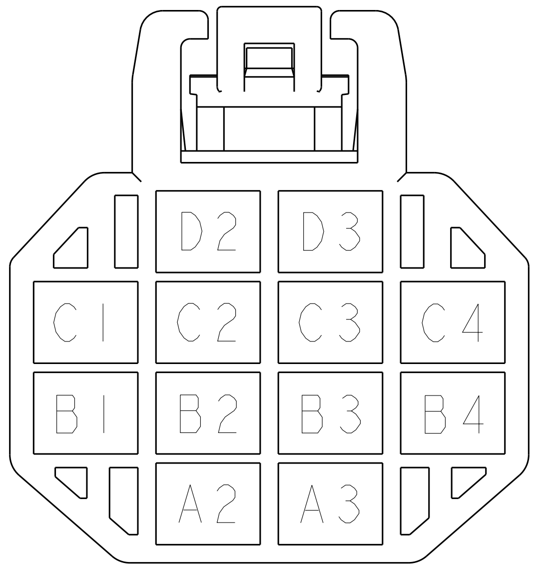
4POSN




6POSN




8POSN




12POSN

THIS DRAWING IS A CONTROLLED DOCUMENT.

| | |
|---|---|
| DWN | Y.OKADA 12MAY2020 |
| CHK | T.SHIMOYASU 12MAY2020 |
| APVD | E.IKEMATSU 12MAY2020 |
| PRODUCT SPEC | 108-140257 |
| APPLICATION SPEC | - |
| WEIGHT | - |

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.5, ±3°

| | |
|---|---|
| ~~0 PLC~~ | ~~±-~~ |
| ~~1 PLC~~ | ~~±0.5~~ |
| ~~2 PLC~~ | ~~±0.13~~ |
| ~~3 PLC~~ | ~~±0.013~~ |
| ~~4 PLC~~ | ~~±0.0001~~ |
| ANGLES | ±- |

MATERIAL: SEE NOTE -

FINISH: - -

TE Connectivity

NAME: RECEPTACLE HOUSING, D1000 SLIM, DYNAMIC -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A3 | 00779 | C-2366515 | - |

CUSTOMER DRAWING

| SCALE | SHEET | REV |
|---|---|---|
| 6:1 | 5 OF 5 | C |

**Dynamic 1000 Slim Connector**

All numerical values are in metric units. Dimensions are in millimeters. Figures and illustrations are for identification only and are not drawn to scale

# 1. INTRODUCTION

This specification contains the regulations for assembly of D1000 Slim connector and the handling of these connector.

# 2. SUPPORTING DOCUMENTS

## 2.1. Customer drawing

Please refer to the customer drawings of D1000Slim Connector

## 2.2. Product specification

The product specifications of the using articles are to be considered. The product specification describes the technical data as e.g. regulations, approvals, temperature range and rated voltage.
For further reference refer Product spec 108-140257.

## 2.3. Application Specification

Connectors shall be assembled as below mentioned application specifications to ensure correct connector assembly.


| Indicates Change

## 3. PRODUCT COMPOSITION

Product composition of D1000 Slim Connector are shown in Figure 1

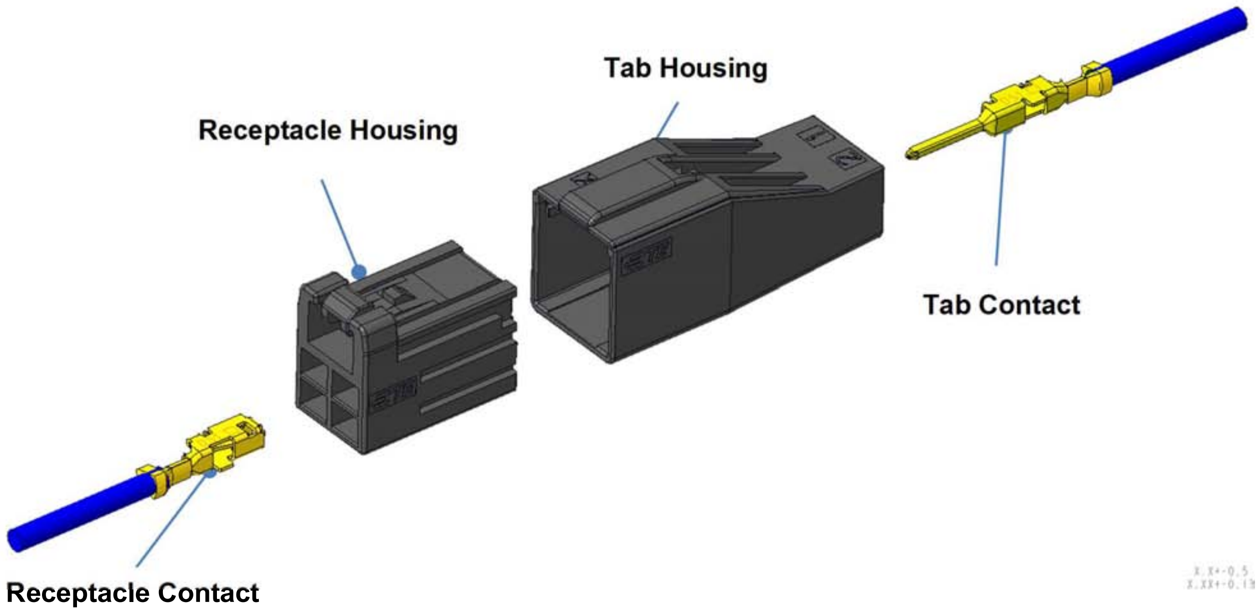



Figure.1 Product composition(4POSN is shown as a representative)

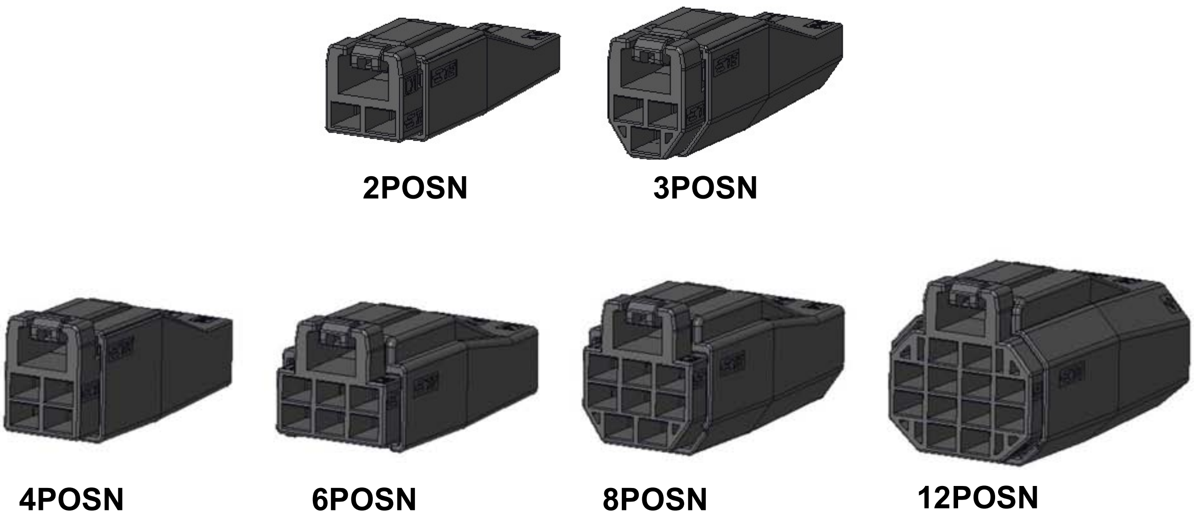



Figure.2 Product Appearance of each POSN
(The above six types are displayed as representatives.)

# 4. REQUIREMENT

## 4.1. Applicable Contacts and Housing

Table 1

| Description | Contact Size | Contact | | Crimp Requirements |
|---|---|---|---|---|
| | | Tab | Receptacle | |
| | | Part Number | Part Number | |
| D1000 Slim Contact | S | 2367819-1 : Reel<br>2367820-1 : L/P | 2367817-1 : Reel<br>2367818-1 : L/P | 114-5377 |
| | M | ☐-2367819-2 : Reel<br>2367820-2 : L/P | ☐-2367817-2: Reel<br>2367818-2 : L/P | |

※ See refer to each drawing for product details.

Table 2

| Description | Detail | Part Number | Applicable Contact |
|---|---|---|---|
| D1000 Slim Connector Receptacle Housing | 2,3,5,7,9POSN X,Y Key | ☐-2375948-☐ | ☐-2367817-X<br>2367818-X |
| | 4,6,8,12 POSN X,Y Key | ☐-2366515-☐ | |
| | 18 POSN X,Y Key | ☐-2423582-8 | |
| | 24 POSN X,Y Key | ☐-2420333-4 | |
| D1000 Slim Connector Tab Housing | 2,3,5,7,9 POSN X,Y Key | ☐-2375951-☐ | ☐-2367819-X<br>2367820-X |
| | 4,6,8,12 POSN X,Y Key | ☐-2366600-☐ | |
| | 18 POSN X,Y Key | ☐-2423584-8 | |
| | 24 POSN X,Y Key | ☐-2420334-4 | |

※ See refer to each drawing for product details.

After crimped contact, do not deform the contact lance by external force when store crimped contact.

## 4.2. Assemble crimped contact to Housings

### 4.2.1. Insert Crimped Contact to Housing

Insert the contacts into the housing according to the following process.

① Before inserting contact, check that the housing to be inserted contact is the applicable housing.（Refer to Table.2 about applicable housing and contact）

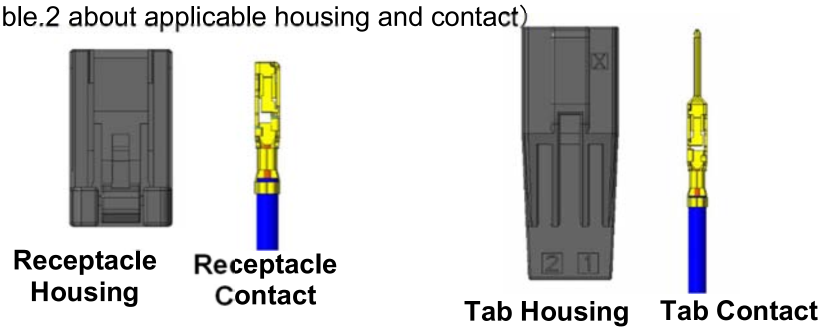



Figure.3 Housing and Applicable contact

② Contact insertion direction
Contact insertion direction are shown in Figure.4 and 5. Insert the contact by referring to the Row ID and contact lance direction shown in the below figures

・Tab Contact

Insert the contact so that the contact lance and Row ID are in the same direction

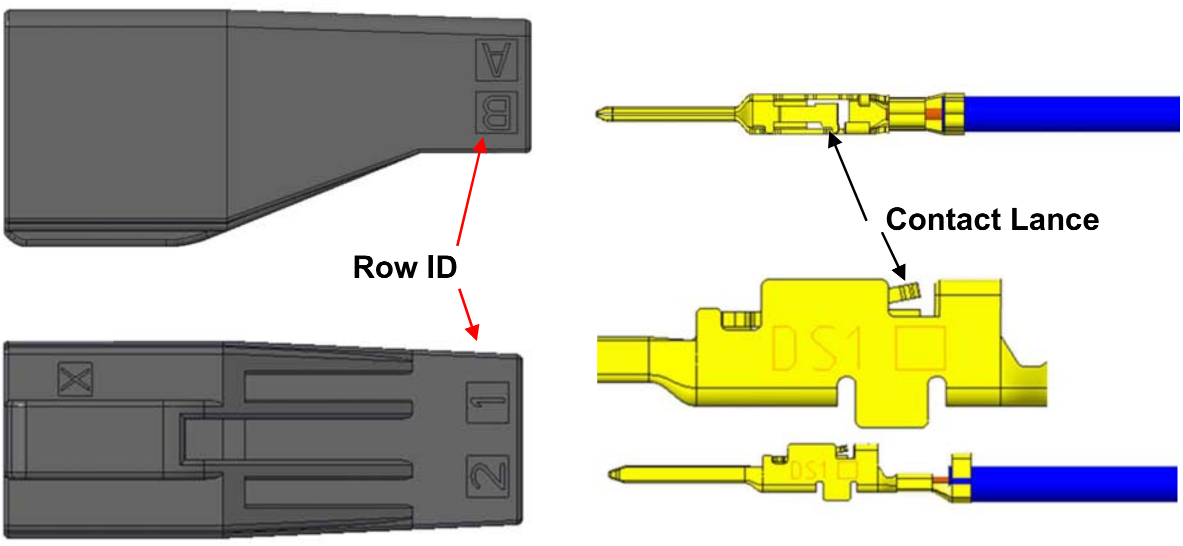



Figure.4 Insertion direction of Tab Contact

・Receptacle Contact

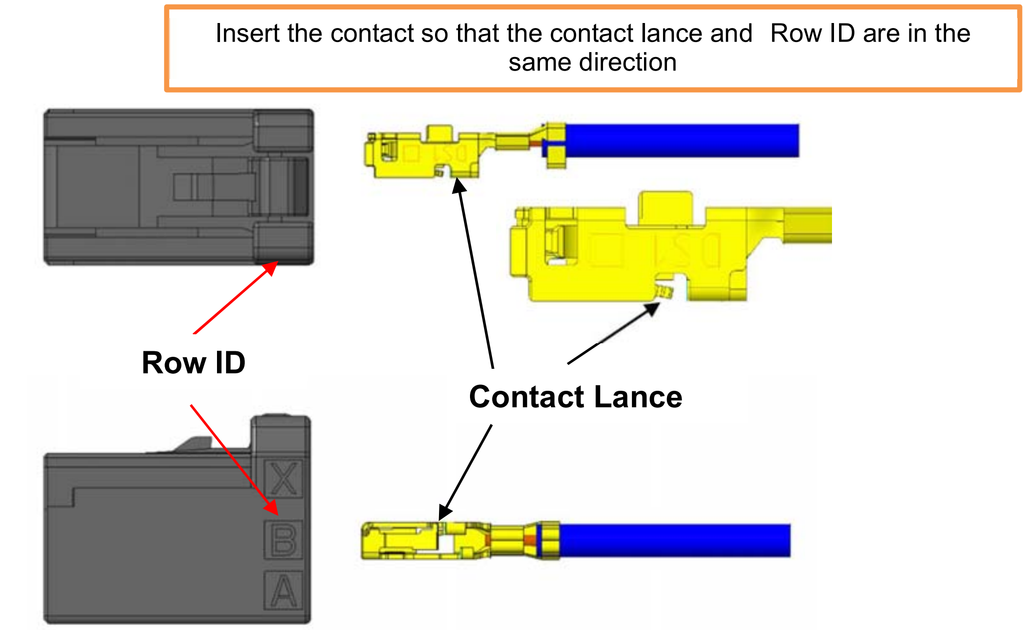



Figure.5 Insertion direction of Receptacle Contact

③ Insert crimped contact to housing. (Refer to Figure.6)
Push the crimped contact softly and straight into the housing until hear a click sound and appropriate position for the contacts to be locked.
After inserting the contact, pull the cable lightly and check that it is locked.

⚠ If pull wire too hard, it may break or the contact may be removed, so do not apply excessive load.

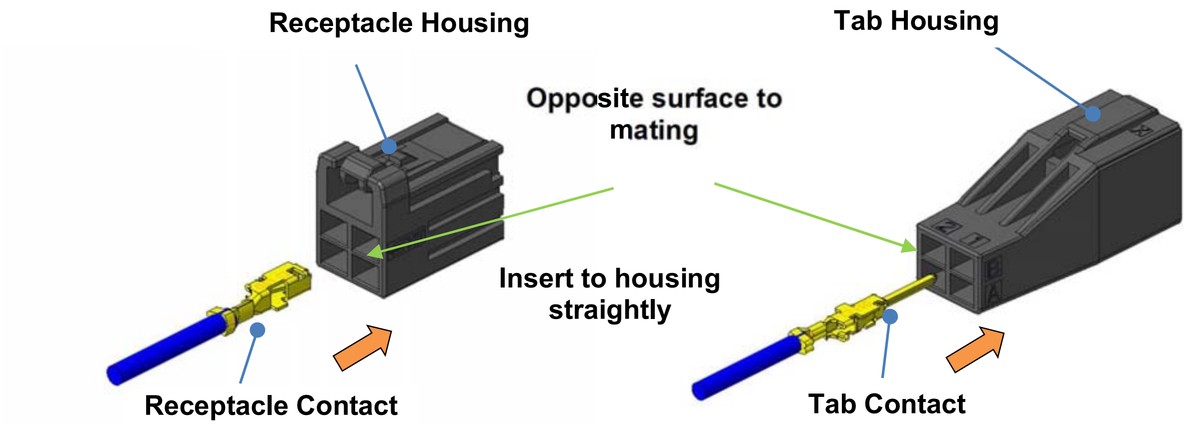



Figure.6 Contact Insertion

### 4.2.2. Extracts of crimped contact

If crimped contact is extracted from housing, using the dedicated extraction tool. Regarding Etraction method, please refer to 408-78152

## 4.3. Assembly

### 4.3.1. Mating connector

When mating the connector, check that mated connectors are same number of poles and the same keying, and push it straight in and slowly until hear a click sound while holding the connector. After finish mating, check that the connector is locked. (Figure. 7)

Different Keying or different position of connectors must not be mated as the connectors may be broken.

If the connector is mated diagonally, buckling of the contact and breakage of the housing may occur so connector is pushed straightly in.

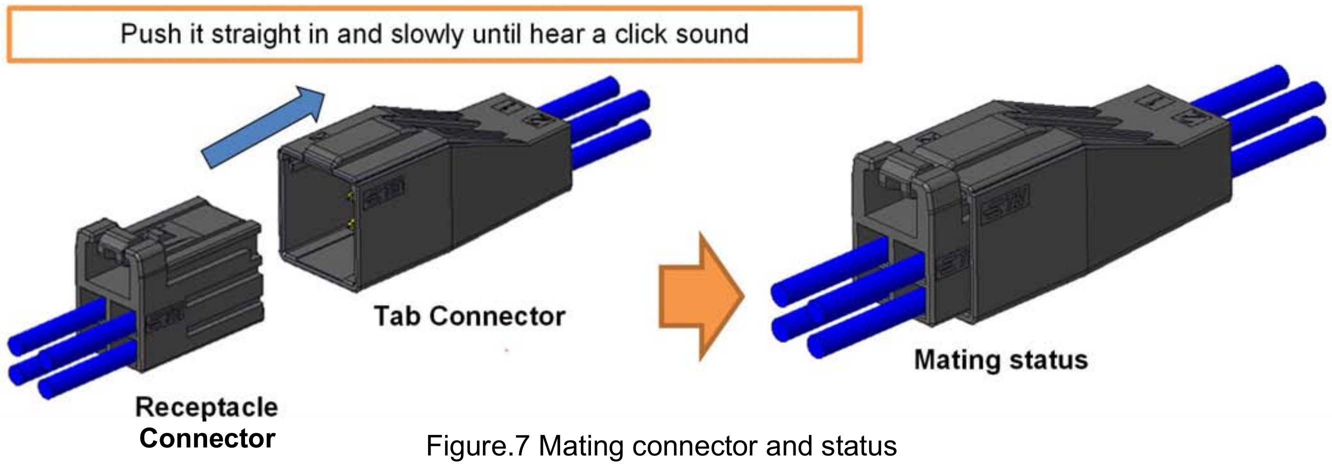



Figure.7 Mating connector and status

### 4.3.2. Un-Mating connector

Push down the lock lever on the REC housing to release the lock. With the lock lever pushed down, pull out the connector

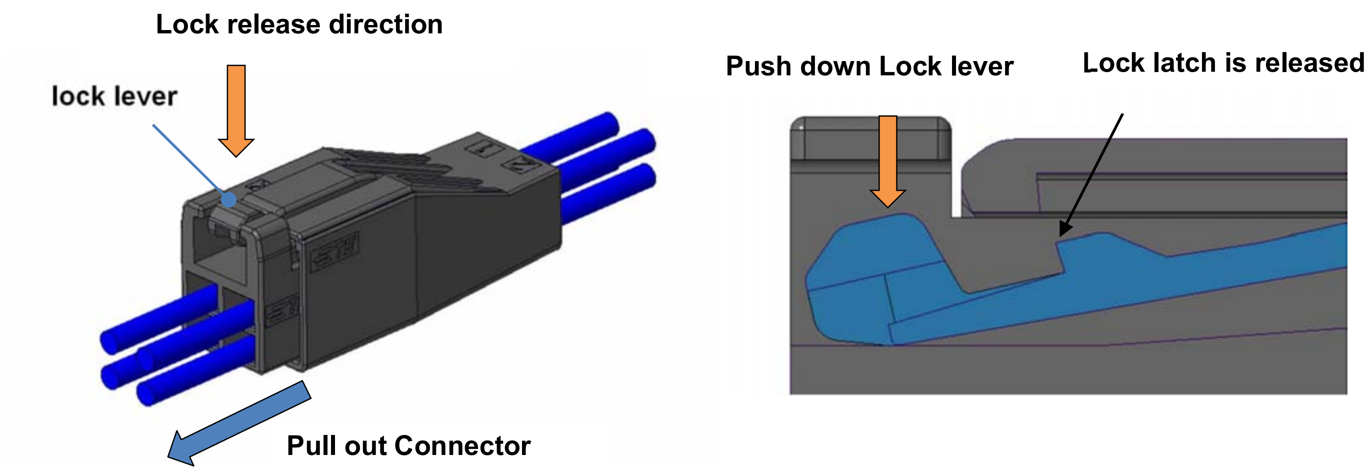



Figure.8 Un-Mating connector

# 5. STORAGE

## 5.1. Chemical exposure

Do not store the connectors near any chemical listed below as they may cause corrosion stress the connector contacts:

Alkalis, Ammonia, Citrates, Phosphates, Citrates, Sulfur, Amines, Carbonates, Nitrites, Sulfides, Nitrites, Tart rates.

## 5.2. Storage condition

The connectors should be stored in the air ventilation, no corrosive gas, no rain and no snow in the warehouse. Relative humidity: less than 85% RH. The connectors should remain in the shipping containers until ready for use to prevent deformation to the contacts. The connectors should be used on a first in, first out basis to avoid storage contamination that could adversely affect electrical functions.

## DYNAMIC D1000 Slim Connector

### 1. SCOPE

1.1. Content

This specification covers the requirements for product performance, test methods and quality assurance DYNAMIC D1000 Slim Connector.

### 2. APPLICABLE DOCUMENTS AND FORMS

The following documents form a part of this specification to the extent specified herein.

In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence.

In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

2.1. TE Documents

- 114-5377: Application Specification
- 501-78782: Qualification Test Report
- 408-78197: Instruction Sheets

2.2. Industry Documents

- MIL-STD-202: Test methods for Electronics and Electrical Component Parts
- EIA364: Electrical Connector / Socket Test Procedures Including Environmental Classifications
- IEC 512: Test Specification

### 3. REQUIREMENTS

3.1. Design and Construction

Product shall be of the design, construction, materials and physical dimensions specified on the applicable product drawing.

3.2. Materials

- Contact
  - (1) Material: Copper Alloy
  - (2) Finish: Receptacle/ Tab: Nickel plating all over
    Gold plating (Contact area)
- Housing
  - (1) Material: G.F. Thermoplastic
  - (2) Flammability: UL94 V-0


| Indicates Change

3.3. Ratings

| Voltage | Current | Temperature |
|---|---|---|
| 250V AC/DC | Figure 1,2,<br>Derating curve is paragraph 6 | -55°C to 125°C<br>Included temperature rising by energized current |

- Temperature rising: 30°C MAX

| Position | Current Rating | | | | |
|---|---|---|---|---|---|
| | AWG 22 | AWG 24 | AWG 26 | AWG 28 | AWG 30 |
| 2-4POSN | 4.5 | 3.9 | 3.2 | 1.0 | 0.8 |
| 5-6POSN | 4.2 | 3.4 | 2.9 | | |
| 7-8POSN | 3.8 | 3.1 | 2.6 | | |
| 9-12POSN | 3.5 | 2.8 | 2.3 | | |
| 13-18POSN | 3.3 | 2.7 | 2.1 | | |
| 19-24POSN | 3.2 | 2.7 | 2.0 | | |

Figure 1

- Ambient temperature: 25°C Temperature rising: 100°C

| Position | Current Rating | | | | |
|---|---|---|---|---|---|
| | AWG 22 | AWG 24 | AWG 26 | AWG 28 | AWG 30 |
| 2-4POSN | 8.3 | 7.2 | 5.8 | 1.8 | 1.5 |
| 5-6POSN | 8.0 | 6.4 | 5.1 | | |
| 7-8POSN | 7.0 | 5.8 | 4.8 | | |
| 9-12POSN | 6.5 | 5.2 | 4.4 | | |
| 13-18POSN | 6.3 | 5.2 | 4.0 | | |
| 19-24POSN | 6.1 | 5.2 | 3.9 | | |

Figure 2

3.4. Performance Requirements and Test Descriptions

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 3. All tests shall be performed in the room temperature, unless otherwise specified.

3.5. Test Requirements and Procedures Summary

| Para | TEST DESCRIPTION | REQUIREMENT | PROCEDURE |
|---|---|---|---|
| 3.5.1 | Examination of Product | Meets requirements of product drawing and TE Specification 114-5377 | Visual inspection<br>No physical damage |
| | | **ELECTRICAL** | |
| 3.5.2 | Termination Resistance (Low Level) | 30 mΩ Max. | Subject mated contacts assembled in housing to 20 mV Max open circuit at 10 mA Max closed circuit.<br>Figure. 5.<br>IEC 60512-2-2 Test 2b |
| 3.5.3 | Dielectric withstanding Voltage | No flashover or breakdown of voltage<br>Current leakage:0.5mA Max. | Test voltage 1500V AC<br>Duration 1minute.<br>Test between adjacent circuits of mated connectors.<br>IEC60512-4-1 Test 4a |
| 3.5.4 | Insulation Resistance | 1000 MΩ Min.（Initial）<br>100 MΩ Min.（Final） | Test voltage 500V DC Time: 1minute<br>Test between adjacent circuits of mated connectors.<br>IEC 60512-3-1 Test 3a Method B |
| 3.5.5 | Temperature Rising | Temperature rising:<br>specified value Max.<br>Under loaded specified current.<br>Refer Figure 1 and 2 | Measure temperature rising by energized current. Figure.1, Figure.2 and Figure.5<br>IEC 60512-5-1 Test 5a |
| | | **MECHANICAL** | |
| 3.5.6 | Vibration<br>Sinusoidal<br>High Frequency | No electrical discontinuity greater than 1μs. Shall occur.<br>Termination Resistance (Low Level) | Vibration Frequency:10～500Hz / 15 min.<br>Amplitude: 1.52mm MAX<br>Accelerated Velocity: 98 m/s²<br>Vibration Direction: X, Y, Z<br>Duration: 3 h each<br>Fixed position of cable: 100mm<br>IEC60512-6-4 Test 6d<br>EIA 364-28 Test Condition 2 |
| 3.5.7 | Physical Shock | No electrical discontinuity greater than 1 μs. Shall occur.<br>Termination Resistance (Low Level) | Accelerated Velocity :490 m/s²<br>Waveform : Sin wave<br>Duration : 11 m s<br>Number of Drops: 3 drops each to normal and reversed directions of X, Y and Z axes, totally 18 drops. Fixed position of cable:100mm<br>IEC60512-6-3 Test 6c |
| 3.5.8 | Connector Mating Force | (1.6×POSN) N Max. | Operation Speed: 20mm/min.<br>Measure the force required to mate connectors.<br>IEC 60512-13-1 Test 13a |
| 3.5.9 | Connector Unmating Force | (0.08N×POSN) Min. | Operation Speed: 20mm/min.<br>Measure the force required to mate connectors.<br>IEC 60512-13-1 Test 13a |
| 3.5.10 | Contact Insertion Force | 9.8N Max.<br>Per 1 contact | Measure the force required to insert contact into housing. |

| Para | TEST DESCRIPTION | REQUIREMENT | PROCEDURE |
|---|---|---|---|
| 3.5.11 | Contact Retention Force | 14.7 N Min. | Apply an axial pull-off load to crimped wire.<br>Operation Speed: 20 mm/min.<br>Test 15a of IEC 60512-15-1 |
| 3.5.12 | Crimp Tensile Strength | Wire Size: mm² / (AWG) — Crimp Tensile (min.): N<br>0.05 / #30 — 4.9<br>0.08 / #28 — 9.8<br>0.12 / #26 — 19.60<br>0.20 / #24 — 29.40<br>0.30 / #22 — 44.10 | Apply an axial pull-off load to crimped wire of contact secured on the tester,<br>Operation Speed: 50 mm/min.<br>IEC 60512-16-4. Test16d |
| 3.5.13 | Durability | Termination Resistance (Low Level). | Repeat Insertion／Extraction of connector assembly following times at 100mm/min operation speed.<br>Number of cycles: 30 cycles<br>IEC 60512-9-1 Test 9a |
| 3.5.14 | Housing Locking Strength | 24.5 N Min. | Measure connector locking strength.<br>Operation Speed: 100 mm/min.<br>EIA 364-98 |
| | | **ENVIRONMENTAL** | |
| 3.5.15 | Thermal Shock | Termination Resistance (Low Level) | Subject mated specimen to $T_a$=-55±2°C to $T_b$=+125±2°C,<br>duration t1: 30min each extreme,<br>25 cycles<br>IEC 60512-11-4 Test 11d<br>(IEC 60068-2-14 Test Na) |
| 3.5.16 | Humidity-Temperature Cycling | Insulation resistance<br>Dielectric Strength<br>Termination resistance (Low Level) | Mated connector, 25～65℃,<br>80～95 % R. H. 10 cycles<br>Cold shock －10℃(not ) performed<br>The measurement is held after being left indoor for 3 hours.1cycle=24hours<br>EIA 364-31 Method 4 IEC60068-2-30 |
| 3.5.17 | Humidity, Steady State | Termination Resistance (Low Level) | Mated connector,<br>90-95 % R. H. 40 °C 96h<br>MIL-STD-202 Method 103 Condition B |
| 3.5.18 | Industrial Gas ($SO_2$) | Termination Resistance (Low Level) | Mated connector<br>$SO_2$ Gas: 10±3 ppm, 95% R. H.<br>25°C, 96h |
| 3.5.19 | Temperature Life (Heat Aging) | Termination Resistance (Low Level) | Subject mated specimen to +125°C Duration time:250h Test Bb<br>IEC 60512-11-9 Test 11i (IEC 60068-2-2) |
| 3.5.20 | Salt Spray | Termination Resistance (Low Level) | Subject mated specimen to 5±1% salt spray<br>Temperature : 35±2°C<br>Duration time: 96h<br>IEC 60512-11-6 |

***NOTE***
*Shall meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification and Requalification Test Sequence shown in Figure 4.*

*Figure 3*

## 4. PRODUCT QUALIFICATION AND REQUALIFICATION TEST SEQUENCE

| Test Examination | Test Group | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | Test Sequence (a) | | | | | | | | | | | |
| Examination ofProduct | 1,3 | 1,6 | 1,9 | 1 | 1 | 1 | 1,5 | 1,9 | 1,9 | 1,5 | 1,5 | 1,5 |
| Termination Resistance (Low Level) | | 2,5 | 3,8 | | | | 2,4 | 2,8 | 2,8 | 2,4 | 2,4 | 2,4 |
| Dielectric withstanding Voltage | | | | | | | | 4,7 | 4,7 | | | |
| Insulation Resistance | | | | | | | | 3,6 | 3,6 | | | |
| Temperature Rising | 2 | | | | | | | | | | | |
| Vibration | | 3 | | | | | | | | | | |
| Physical Shock | | 4 | | | | | | | | | | |
| Connector Mating Force | | | 2,7 | | | | | | | | | |
| Connector Unmating Force | | | 4,6 | | | | | | | | | |
| Durability | | | 5 | | | | | | | | | |
| Contact Insertion Force | | | | 2 | | | | | | | | |
| Contact Retention Force | | | | 3 | | | | | | | | |
| Crimp Tensile Strength | | | | | 2 | | | | | | | |
| Housing Locking Strength | | | | | | 2 | | | | | | |
| Thermal Shock | | | | | | | 3 | | | | | |
| Humidity-Temperature Cycling | | | | | | | | 5 | | | | |
| Humidity (Steady State) | | | | | | | | | 5 | | | |
| Industrial $SO_2$ Gas | | | | | | | | | | 3 | | |
| Temperature Life | | | | | | | | | | | 3 | |
| Salt Spray | | | | | | | | | | | | 3 |

***NOTE***

(a) Numbers indicate sequence in which tests are performed.

Figure 4

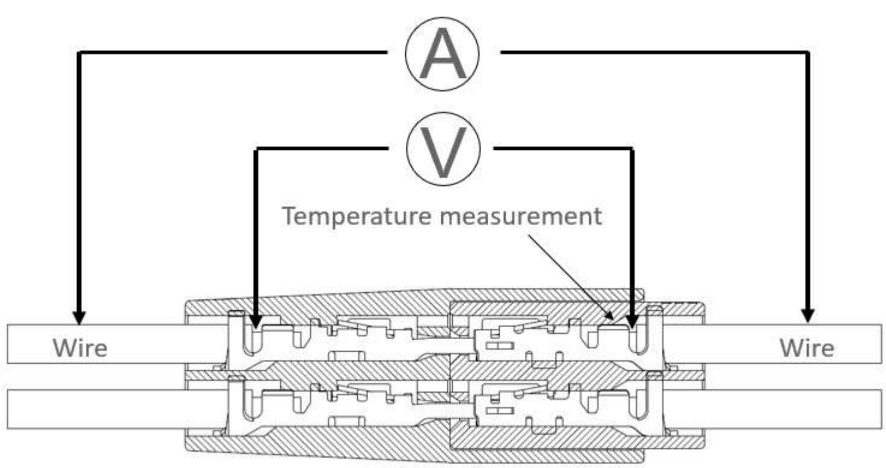



Figure 5 Termination Resistance (Low Level) and Temperature Rising vs. Current Measuring Methods

## 5. QUALIFICATION REQUIREMENTS:

### 5.1. Qualification Testing

- Sample Selection

  Connector housings and contacts shall be prepared in accordance with applicable Instruction Sheets. They shall be selected at random from current production.
- Test Sequence

  Qualification inspection shall be verified by Testing samples as specified in Figure 4.
- Test conditions

  Unless otherwise specified, all the tests shall be performed in any combination of the test condition

| | |
|---|---|
| Temperature | 15-35℃ |
| Relative humidity | 45-75% |
| Atmospheric Pressure | 866.6-1066.6hPa |

### 5.2. Requalification Testing

If changes significantly affecting form, fit or function are made to the product or to the manufacturing process, product assurance shall coordinate requalification testing, consisting of all or part of the original testing sequence as determined by envelopment product, quality and reliability engineering.

### 5.3. Acceptance

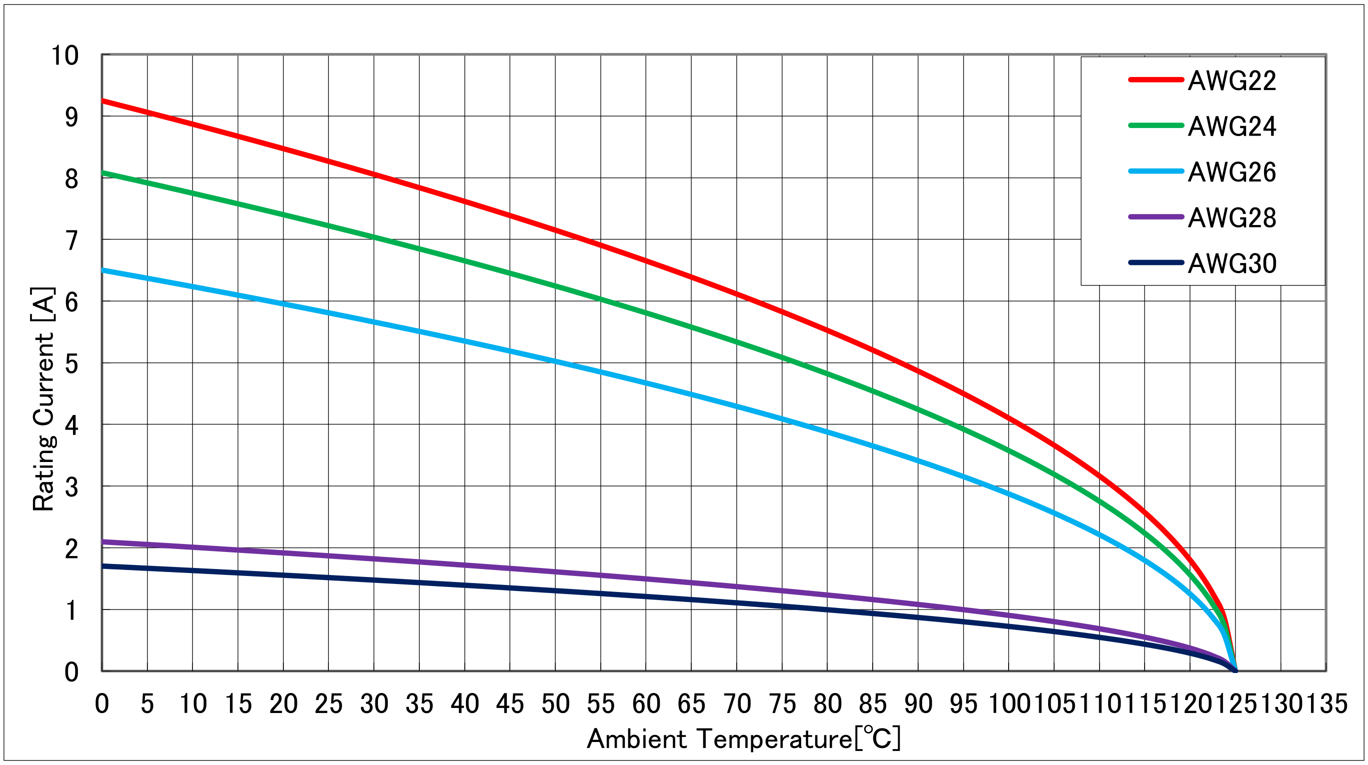
Acceptance is based on verification that the product meets the requirements of Figure.3. Failures attributed to equipment,test get up, or operator deficiencies shall not disqualify the product. When product failure occurs,corrective action shall be taken and samples resubmitted for qualification.Testing to confirm corrective action is required before resubmittal.

### 5.4. Quality Conformance Inspection

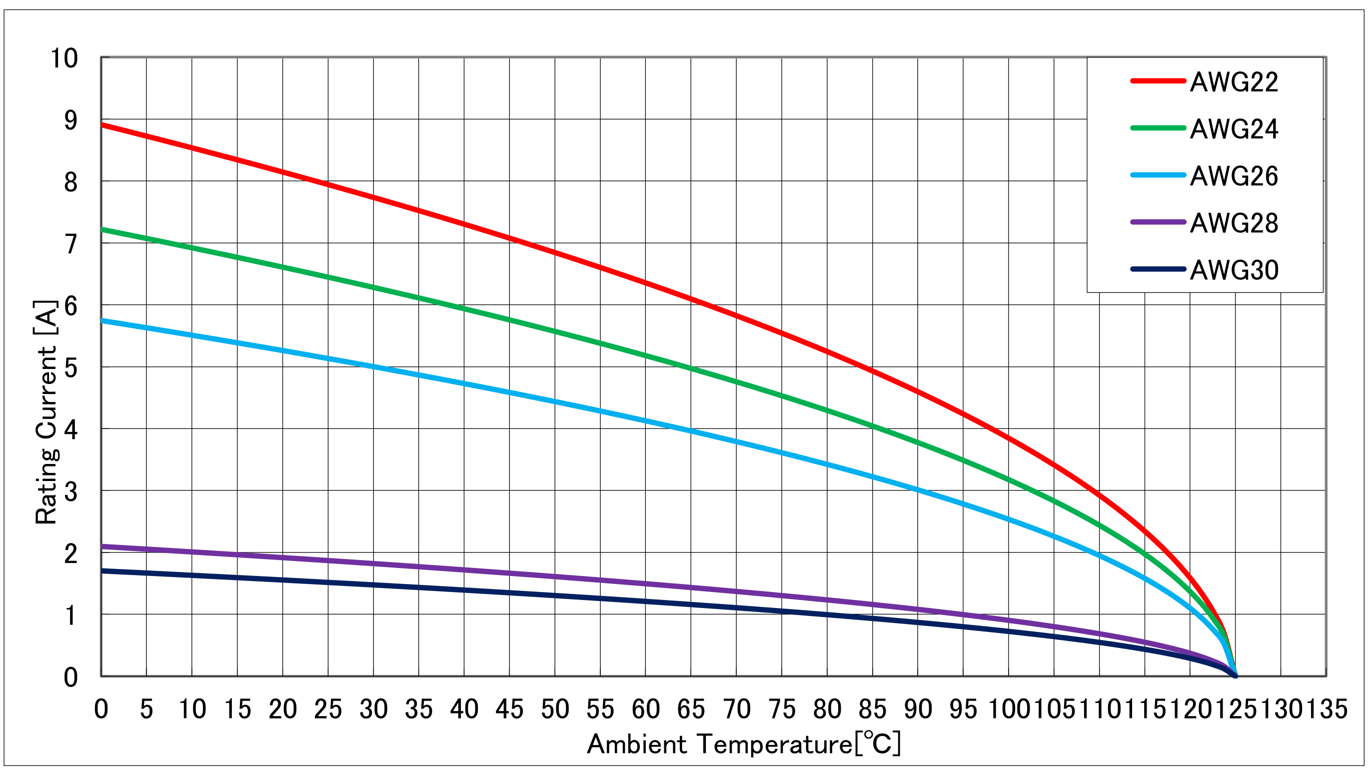
The applicable TE quality inspection plan will specify the sampling acceptable quality level to be used. Dimensional and functional requirements shall be in accordance with the applicable product drawing and this specification.

## 6. DERATING CURVE (REFERENCE)

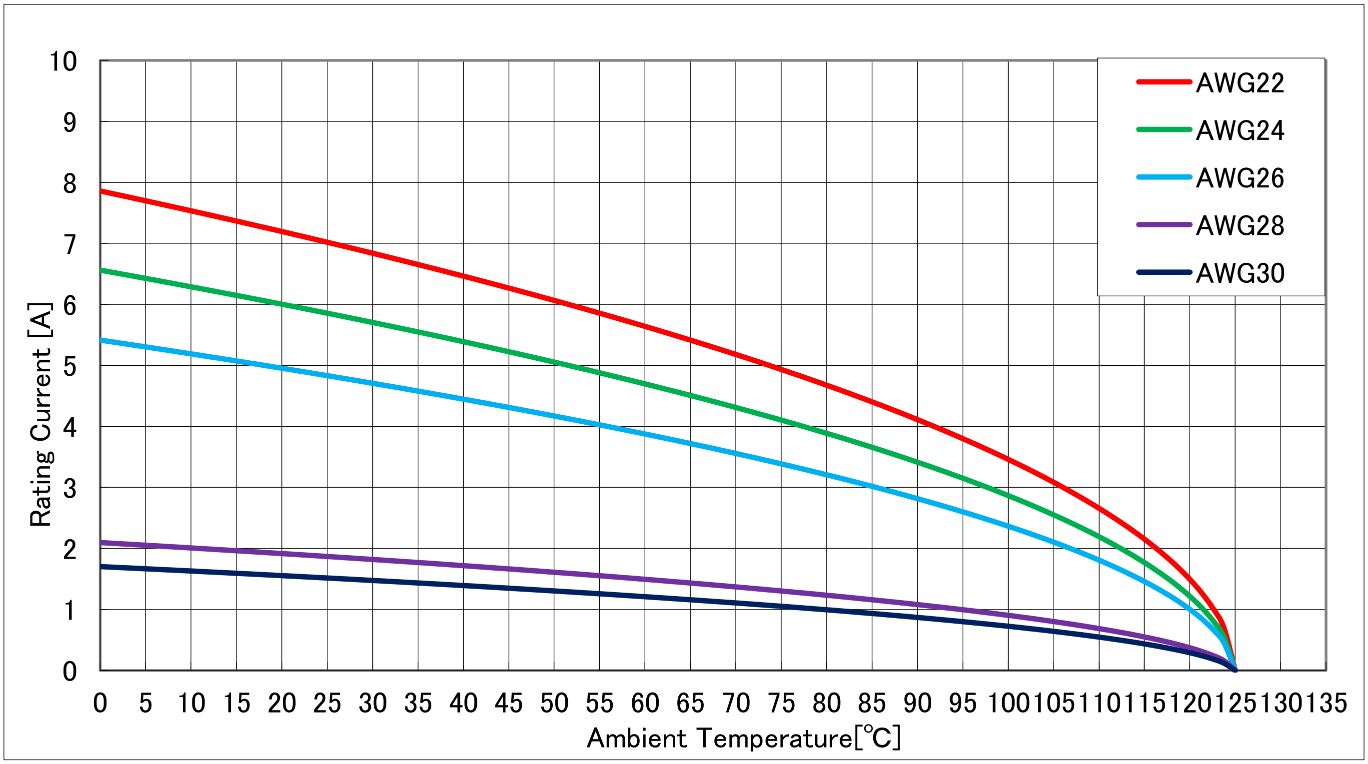
◆ **2-4POSN**



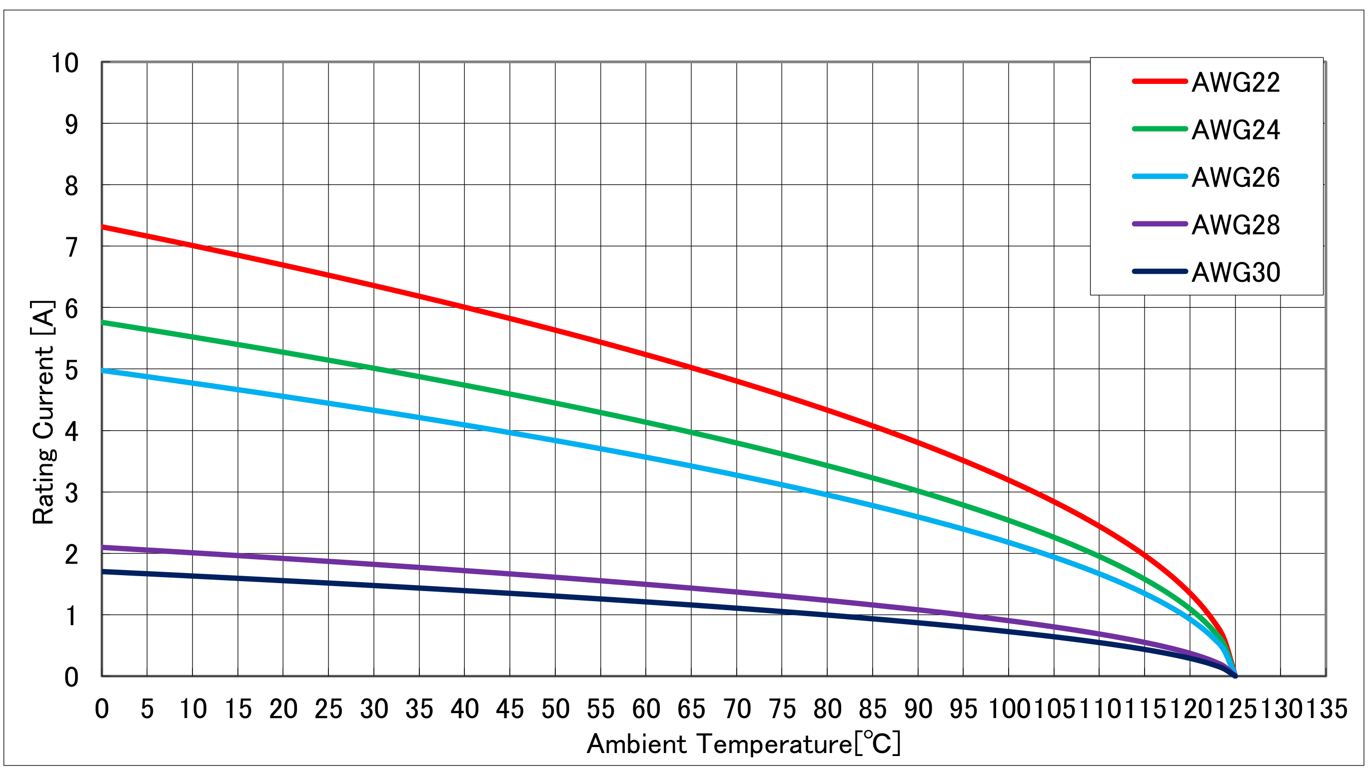

◆ **5-6POSN**



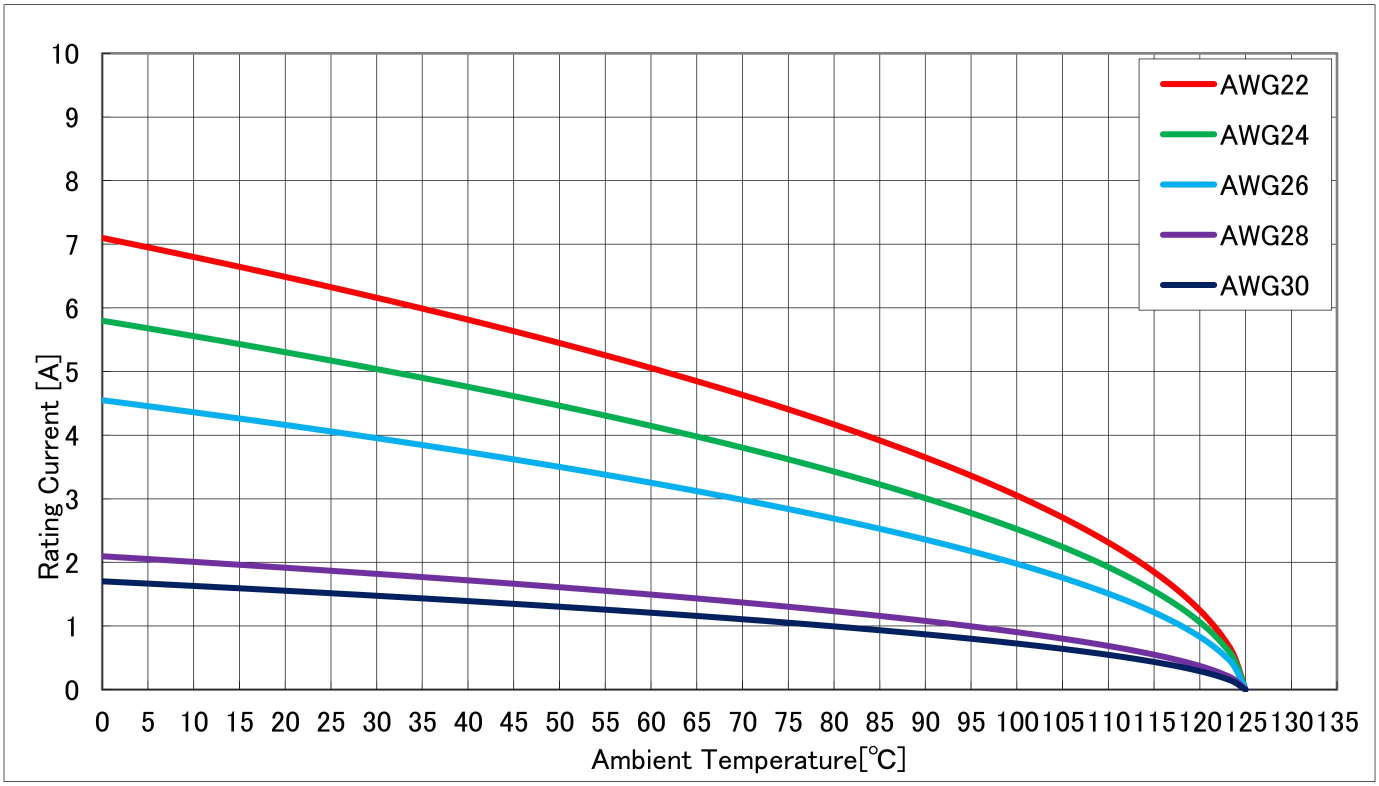
◆ **7-8POSN**




◆ **9-12POSN**



◆ **13-18POSN**




◆ **19-24POSN**