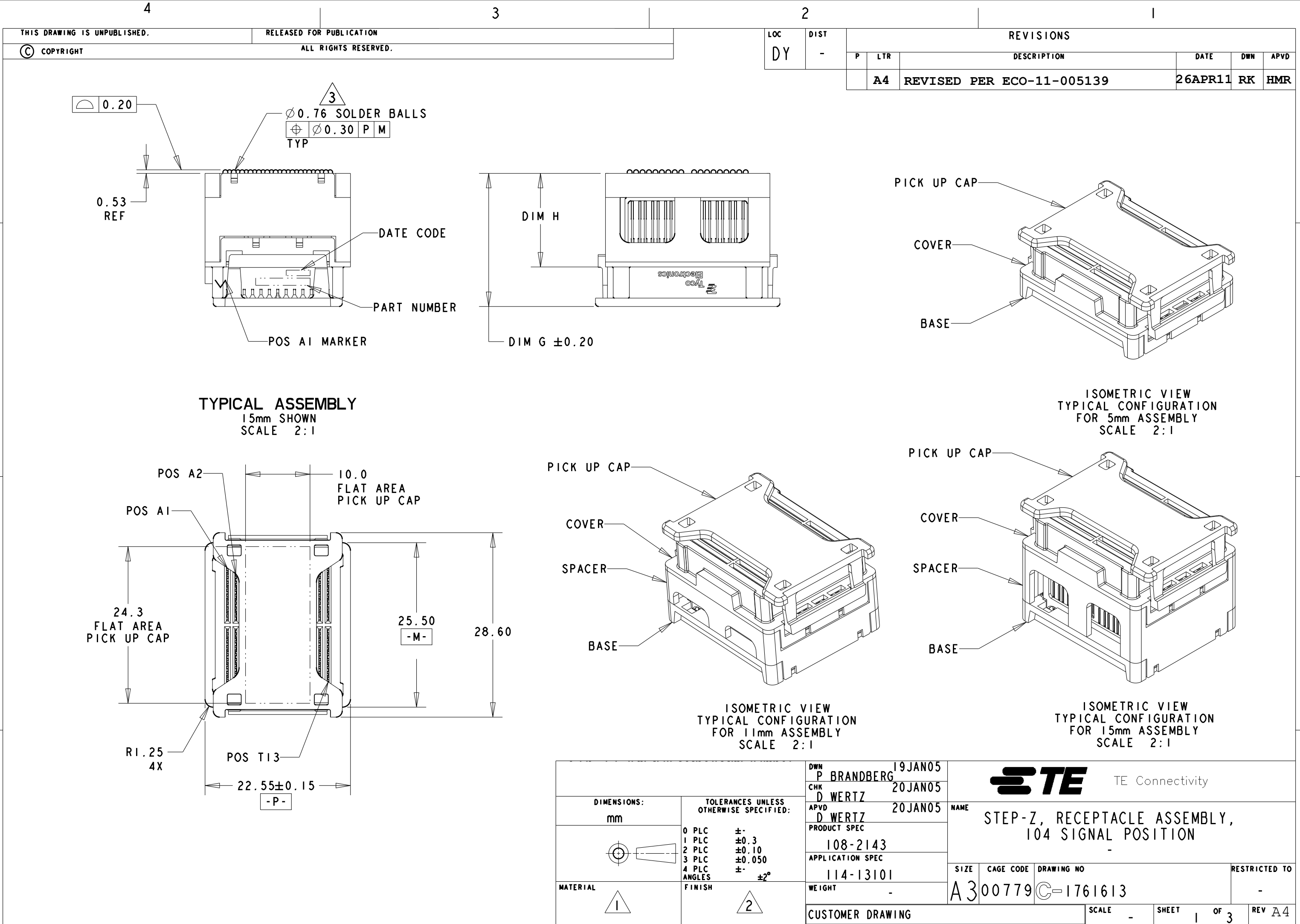




0.20

0.53 REF

3

Ø 0.76 SOLDER BALLS

Ø 0.30 P M

TYP

DATE CODE

PART NUMBER

POS A1 MARKER

DIM H

DIM G ±0.20

PICK UP CAP

COVER

BASE

TYPICAL ASSEMBLY

15mm SHOWN

SCALE 2:1

POS A2

10.0

FLAT AREA

PICK UP CAP

POS A1

24.3

FLAT AREA

PICK UP CAP

25.50

-M-

28.60

RI.25

4X

POS T13

22.55±0.15

-P-

PICK UP CAP

COVER

SPACER

BASE

ISOMETRIC VIEW

TYPICAL CONFIGURATION

FOR 11mm ASSEMBLY

SCALE 2:1

POS A2

10.0

FLAT AREA

PICK UP CAP

POS A1

24.3

FLAT AREA

PICK UP CAP

25.50

-M-

28.60

RI.25

4X

POS T13

22.55±0.15

-P-

PICK UP CAP

COVER

SPACER

BASE

ISOMETRIC VIEW

TYPICAL CONFIGURATION

FOR 15mm ASSEMBLY

SCALE 2:1

DIMENSIONS:

mm

0 PLC

1 PLC

2 PLC

3 PLC

4 PLC

ANGLES

FINISH

±°

±0.3

±0.10

±0.050

±°

±2°

2

1

2

1

2

DWN  
P BRANDBERG  
CHK  
D WERTZ  
APVD  
D WERTZ  
PRODUCT SPEC  
108-2143  
APPLICATION SPEC  
114-13101  
WEIGHT  
-

19JAN05  
20JAN05  
20JAN05

NAME  
STEP-Z, RECEPTACLE ASSEMBLY,  
104 SIGNAL POSITION  
-

SIZE  
A3

CAGE CODE  
00779

DRAWING NO  
C-1761613

RESTRICTED TO  
-

CUSTOMER DRAWING

SCALE  
-

SHEET  
1

OF  
3

REV  
A4

4

3

2

1

| LOC<br>DY | DIST<br>- | REVISIONS |     |             |      |     |      |
|-----------|-----------|-----------|-----|-------------|------|-----|------|
|           |           | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|           |           |           | -   | SEE SHEET 1 | -    | -   | -    |

1 MATERIAL:  
BASE, SPACER, COVER: THERMOPLASTIC  
PICK UP CAP: THERMOPLASTIC  
CONTACT: COPPER ALLOY  
SOLDER BALL: Sn/Pb FOR P/N 1761613-1 THRU 5-1761613-0  
Sn/Ag FOR P/N 5-1761613-1 THRU 9-1761613-9

2 FINISH:  
CONTACT: 0.00076 MIN GOLD OVER 0.00127 MIN NICKEL.  
(30µ" MIN GOLD OVER 50µ" MIN NICKEL)

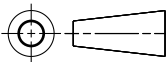
3 SOLDER BALLS WILL NOT BE PERFECT  
SPHERICAL SHAPE DUE TO REFLOW ATTACHMENT.

4 CONTACTS IN ROWS A,C,E,G,J,K,M,P,R, AND T  
ARE SINGLE BEAM CONTACTS,  
TYPICALLY USED AS GROUND PINS.  
(NOTE: CONTACTS IN ROWS J & K ARE TIED  
TOGETHER [COMMONED]).

5 CONTACTS IN ROWS B,D,F,H,L,N,O, AND S  
ARE DUAL BEAM CONTACTS,  
TYPICALLY USED AS SIGNAL PINS.

6 SPECIFIED POSITIONAL TOLERANCE DEFINES PAD TO PAD  
LOCATION WITHIN LAND PATTERN. POSITIONAL TOLERANCE  
OF LAND PATTERN TO FUDICIAL MARKS OR PCB DATUMS  
SHALL BE DEFINED BY CUSTOMER. FOR RECOMMENDED  
PRODUCT APPLICATION AND PCB DESIGN DETAILS, SEE  
APPLICATION SPEC 114-13101.

|       |       |            |             |             |
|-------|-------|------------|-------------|-------------|
|       |       |            |             |             |
|       |       |            |             |             |
| 14.51 | 20.65 | -          | 15mm Sn/Ag  | 6-1761613-5 |
| 10.51 | 16.65 | -          | 11mm Sn/Ag  | 6-1761613-1 |
| 4.51  | 10.65 | -          | 5mm Sn/Ag   | 5-1761613-5 |
|       |       |            |             |             |
|       |       |            |             |             |
| 14.51 | 20.65 | -          | 15mm Sn/Pb  | 1-1761613-5 |
| 10.51 | 16.65 | -          | 11mm Sn/Pb  | 1-1761613-1 |
| 4.51  | 10.65 | -          | 5mm Sn/Pb   | 1761613-5   |
| DIM H | DIM G | LOAD STYLE | DESCRIPTION | PART NUMBER |

|                                                                                                  |  |                                                                                                                                                      |  |                                                                  |  |                                                                |  |            |  |               |  |                 |  |           |  |
|--------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------|--|----------------------------------------------------------------|--|------------|--|---------------|--|-----------------|--|-----------|--|
| <div>DIMENSIONS:</div> <div>mm</div>                                                             |  | <div>TOLERANCES UNLESS OTHERWISE SPECIFIED:</div> <div><div>0 PLC±<br/>1 PLC±0.3<br/>2 PLC±0.10<br/>3 PLC±0.050<br/>4 PLC±<br/>ANGLES±2°</div></div> |  | DWN<br>P BRANDBERG19JAN05                                        |  | <div><div><div></div></div>TE</div> <div>TE Connectivity</div> |  |            |  |               |  |                 |  |           |  |
|                                                                                                  |  |                                                                                                                                                      |  | CHK<br>D WERTZ20JAN05                                            |  |                                                                |  |            |  |               |  |                 |  |           |  |
| <div></div> |  | <div>APVD<br/>D WERTZ20JAN05</div> <div>PRODUCT SPEC<br/>-</div> <div>APPLICATION SPEC<br/>-</div> <div>WEIGHT<br/>-</div>                           |  | NAME<br>STEP-Z, RECEPTACLE ASSEMBLY,<br>104 SIGNAL POSITION<br>- |  |                                                                |  |            |  |               |  |                 |  |           |  |
|                                                                                                  |  |                                                                                                                                                      |  |                                                                  |  |                                                                |  |            |  |               |  |                 |  |           |  |
|                                                                                                  |  |                                                                                                                                                      |  | SIZE                                                             |  | CAGE CODE                                                      |  | DRAWING NO |  | RESTRICTED TO |  |                 |  |           |  |
|                                                                                                  |  |                                                                                                                                                      |  | A3                                                               |  | 00779                                                          |  | C-1761613  |  | -             |  |                 |  |           |  |
| MATERIAL<br>-                                                                                    |  | FINISH<br>-                                                                                                                                          |  | CUSTOMER DRAWING                                                 |  |                                                                |  |            |  | SCALE<br>-    |  | SHEET<br>2 OF 3 |  | REV<br>A4 |  |

4

3

2

1

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LOC  
DY

DIST  
-

REVISIONS

P

LTR

DESCRIPTION

DATE

DWN

APVD

SEE SHEET 1

KEY ORIENTATION  
SILK SCREEN  
(OPTIONAL)

R1.25 REF  
4X

- N -

A  
B  
C  
D  
E  
F  
G  
H  
J  
K  
L  
M  
N  
P  
Q  
R  
S  
T

2

18 REF

25.5 REF

9

1  
8X  
2 PLACES

STENCIL CONNECTOR  
OUTLINE ONTO  
BOARD

6  
 $\phi 0.55 \pm 0.05$   
 $\phi 0.10$  N  
PAD SIZE  
TYP

1.3  
TYP

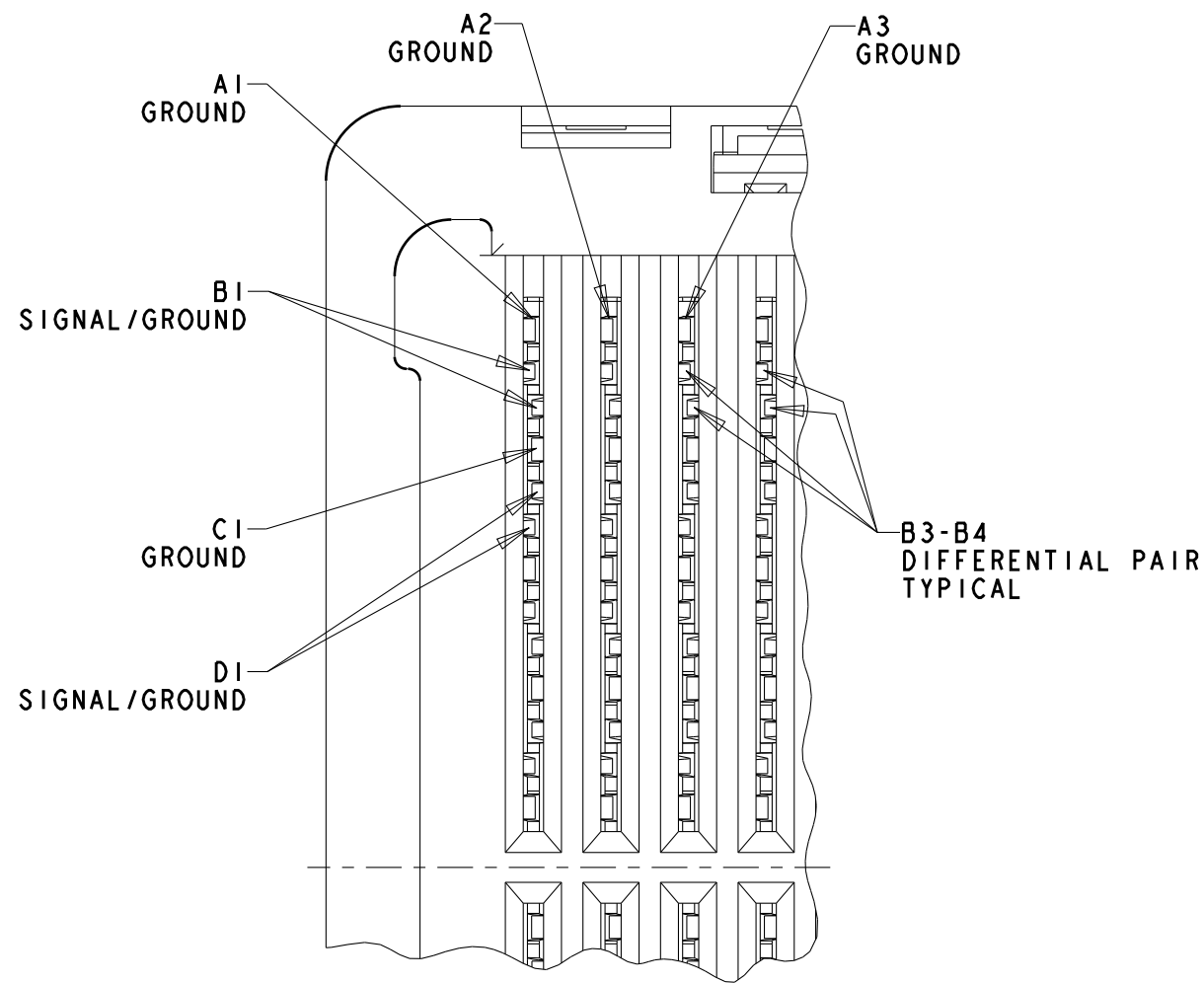
0.65  
TYP

8.125

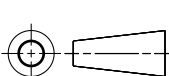
16.25 REF

22.55 REF

4 5 BOARD PATTERN  
SCALE 3:1



RECEPTACLE INTERFACE  
SCALE 8:1

|                                                                                       |  |                                                                                                                                  |  |                            |  |                                                                                                                  |  |                         |  |                    |  |
|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|--------------------|--|
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br><br>0 PLC ±-<br>1 PLC ±0.3<br>2 PLC ±0.10<br>3 PLC ±0.050<br>4 PLC ±-<br>ANGLES ±2° |  | DWN<br>P BRANDBERG 19JAN05 |  | <div></div> TE Connectivity |  |                         |  |                    |  |
|                                                                                       |  |                                                                                                                                  |  | CHK<br>D WERTZ 20JAN05     |  |                                                                                                                  |  |                         |  |                    |  |
|  |  |                                                                                                                                  |  | APVD<br>D WERTZ 20JAN05    |  | NAME<br>STEP-Z, RECEPTACLE ASSEMBLY,<br>104 SIGNAL POSITION<br>-                                                 |  |                         |  |                    |  |
|                                                                                       |  |                                                                                                                                  |  | PRODUCT SPEC<br>-          |  |                                                                                                                  |  |                         |  |                    |  |
| MATERIAL<br>-                                                                         |  | FINISH<br>-                                                                                                                      |  | APPLICATION SPEC<br>-      |  | SIZE<br>A3                                                                                                       |  |                         |  |                    |  |
|                                                                                       |  |                                                                                                                                  |  | WEIGHT<br>-                |  |                                                                                                                  |  |                         |  |                    |  |
|                                                                                       |  |                                                                                                                                  |  | CUSTOMER DRAWING           |  | CAGE CODE<br>00779                                                                                               |  | DRAWING NO<br>C-1761613 |  | RESTRICTED TO<br>- |  |
|                                                                                       |  |                                                                                                                                  |  |                            |  | SCALE<br>-                                                                                                       |  | SHEET<br>3              |  | OF<br>3            |  |
|                                                                                       |  |                                                                                                                                  |  |                            |  |                                                                                                                  |  |                         |  | REV<br>A4          |  |