

A

B

C

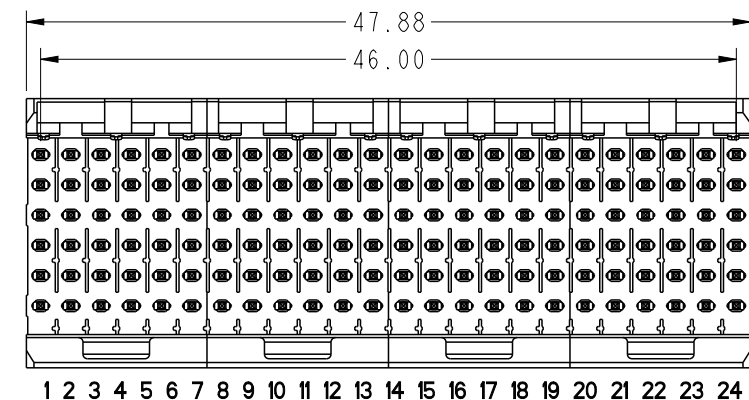
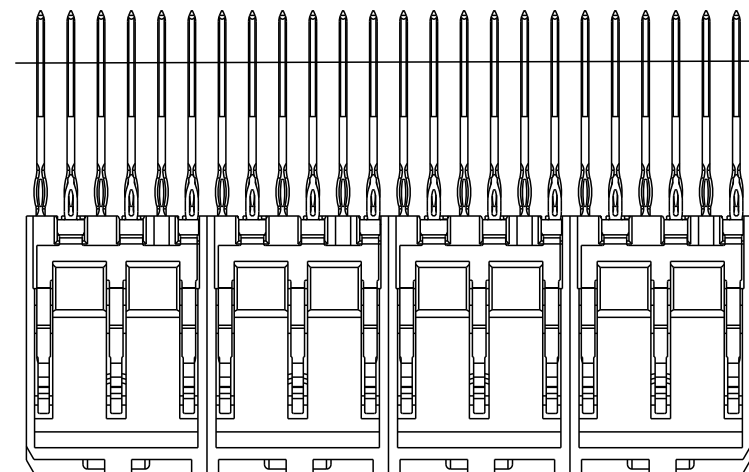
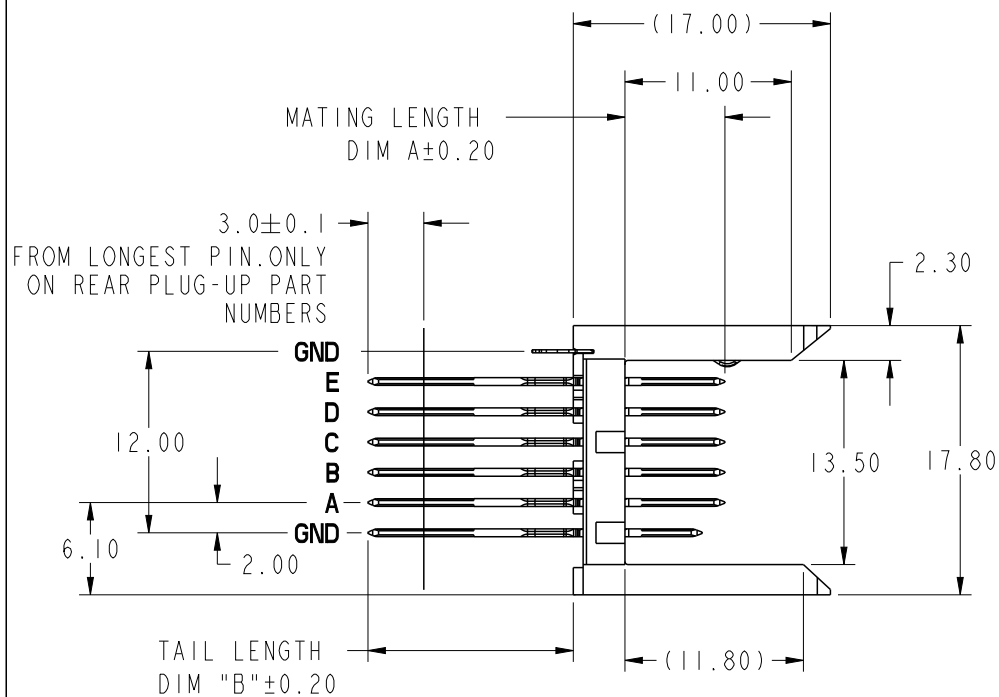
D

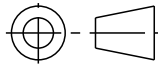
|                 |                                             |
|-----------------|---------------------------------------------|
| PRODUCT NUMBER  | FOR REAR PLUG-UP<br>APPLICATIONS USE SHROUD |
| 63779-XZZZ(L)LF | 84818-X04LF                                 |

X REFER PLATING PERFORMANCE △  
SEE NOTE 6

L REFER LUBRICATED (OPTIONAL) △  
SEE NOTE 6

X REFER PLATING PERFORMANCE △  
SEE NOTE 6



|                                                                                                            |          |       |        |                                                                                     |                           |                               |                                                                                       |                                                                                       |                |                        |       |     |               |              |
|------------------------------------------------------------------------------------------------------------|----------|-------|--------|-------------------------------------------------------------------------------------|---------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|------------------------|-------|-----|---------------|--------------|
| spec ref                                                                                                   |          |       |        | dr                                                                                  | P-Mathew Nebu             | 2011/05/20                    |  |  | size           | A4                     | scale | 1:1 |               |              |
| tolerance std                                                                                              |          |       |        | eng                                                                                 | Rahul Mohan-M             | 2021/08/25                    |                                                                                       |                                                                                       | ecn no         |                        |       |     | ELX-I-41555-1 |              |
| ISO 406<br>ISO 1101                                                                                        |          |       |        | chr                                                                                 | -                         | -                             |                                                                                       |                                                                                       | rel level      |                        |       |     | Released      |              |
| TOLERANCES UNLESS<br>OTHERWISE SPECIFIED                                                                   |          |       |        | appr                                                                                | Kuriakose, San            | 2021/08/25                    |                                                                                       |                                                                                       | product family |                        |       |     | METRAL 1000   |              |
| surface<br><br>ISO 1302 | linear   | 0.X   | ±0.3   |  | title                     |                               |                                                                                       |                                                                                       | dwg no         | 63779                  |       |     |               | rev          |
|                                                                                                            |          | 0.XX  | ±0.13  |                                                                                     |                           |                               |                                                                                       |                                                                                       |                |                        |       |     |               |              |
|                                                                                                            |          | 0.XXX | ±0.050 |                                                                                     | VERTICAL SIGNAL HDR 5 ROW |                               |                                                                                       |                                                                                       |                |                        |       |     |               |              |
|                                                                                                            | ISO 1302 |       |        |                                                                                     | amphenol-icc.com          | cat. no.                      |                                                                                       |                                                                                       |                | Product - Customer Drw |       |     |               | sheet 1 of 7 |
| angular                                                                                                    |          |       |        | 0°                                                                                  | ±2°                       | P.F. 120 POS. SELECT LOAD STD |                                                                                       |                                                                                       |                | V                      |       |     |               |              |

Creo File:ELX-MC-AAC,REV F,2020-12-21

2

3

PDS: Rev :V

STATUS:Released

Printed: Aug 25, 2021

| PIN NO. | DIM A<br>MATING<br>LENGTH | DIM B<br>TAIL<br>LENGTH | PCB THICKNESS RANGE<br>ACCOMMODATED BY PIN'S TAIL LENGTH |             |                                                         |             |               |
|---------|---------------------------|-------------------------|----------------------------------------------------------|-------------|---------------------------------------------------------|-------------|---------------|
|         |                           |                         | WHEN MATING TO A 73981 OR<br>84688 SERIES RECEPTACLE     |             | WHEN MATING TO A 52057 SERIES<br>METRAL 4000 RECEPTACLE |             |               |
|         |                           |                         | ROWS A,B,C,D,E                                           | GROUND ROW  | ROWS:A,B,D,E                                            | ROW C       | GROUND ROW ** |
| 01*     | 5.00                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN      |
| 22      |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20   |
| 30      |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95   |
| 05      |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70   |
| 35      |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45   |
| 48      |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20   |
| 40      |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70   |
| 65      |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40   |
| 09      |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10   |
| 02*     | 5.75                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN      |
| 44      |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20   |
| 31      |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95   |
| 06      |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70   |
| 36      |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45   |
| 49      |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20   |
| 25      |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70   |
| 66      |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40   |
| 10      |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10   |
| 03*     | 6.50                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN      |
| 45      |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20   |
| 32      |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95   |
| 07      |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70   |
| 37      |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45   |
| 50      |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20   |
| 41      |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70   |
| 24      |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40   |
| 11      |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10   |

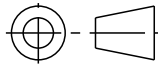
\* STUB PINS - NO REAR PLUG-UP  
\*\* THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF  
PIN 'GND' IS ONE SIZE SHORTER THAN THE OTHER PINS.

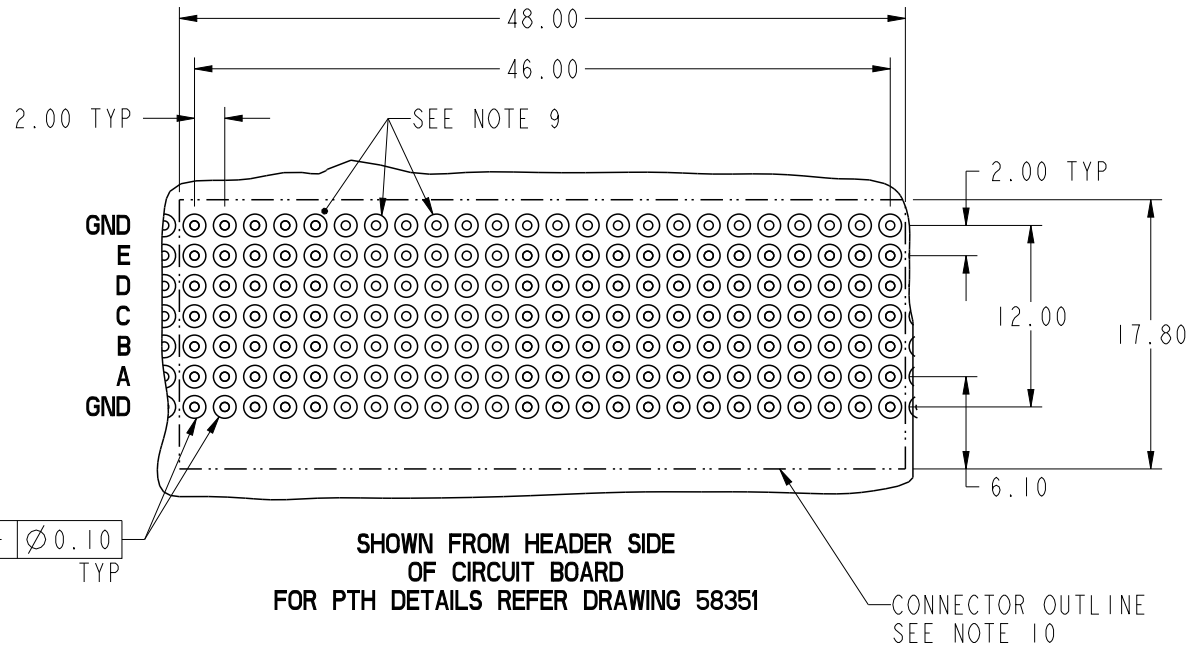
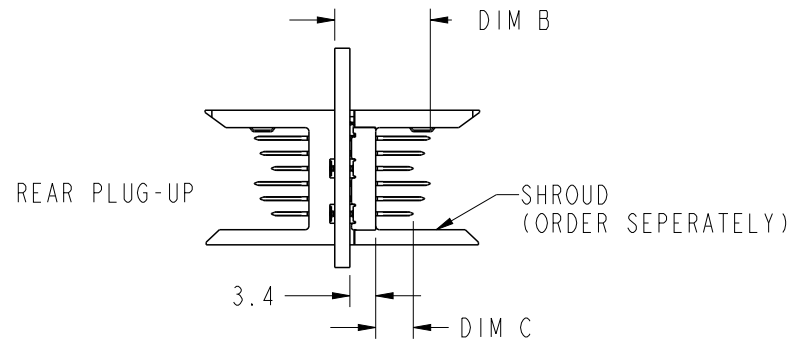
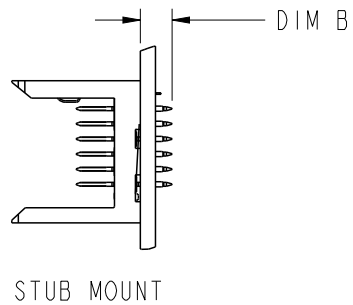
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|---------------|---------------------------------------|---------|--------|---------------------|------------------|-----------------------------------|---------------------------|------------------------|---------------------------|------------|----------------|--------------|---------------|-----|---|
| spec ref      |                                       | dr      |        | P-Mathew Nebu       | 2011/05/20       | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size                   | A4                        | scale      | 1:1            |              |               |     |   |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED |         |        | eng                 | Rahul Mohan-M    |                                   |                           | 2021/08/25             | ecn no                    |            |                |              | ELX-I-41555-1 |     |   |
|               |                                       |         |        | chr                 | -                |                                   |                           | -                      | rel level                 |            |                |              | Released      |     |   |
|               |                                       |         |        | ISO 406<br>ISO 1101 |                  |                                   |                           | appr                   | Kuriakose, San            | 2021/08/25 | product family |              | METRAL 1000   |     |   |
| surface       | linear                                | 0.X     | ±0.3   | Amphenol<br>FCi     | title            |                                   |                           |                        | VERTICAL SIGNAL HDR 5 ROW |            | dwg no         | 63779        |               | rev | V |
|               |                                       | 0.XX    | ±0.13  |                     |                  |                                   |                           |                        |                           |            |                |              |               |     |   |
|               |                                       | 0.XXX   | ±0.050 |                     |                  |                                   |                           |                        |                           |            |                |              |               |     |   |
|               | ISO 1302                              | angular | 0°     | ±2°                 | amphenol-icc.com | cat. no.                          |                           | Product - Customer Drw |                           |            |                | sheet 2 of 7 |               |     |   |

| PIN NO. | DIM A<br>MATING<br>LENGTH | DIM B<br>TAIL<br>LENGTH | PCB THICKNESS RANGE<br>ACCOMMODATED BY PIN LENGTH    |             |                                                         |             |               |
|---------|---------------------------|-------------------------|------------------------------------------------------|-------------|---------------------------------------------------------|-------------|---------------|
|         |                           |                         | WHEN MATING TO A 73981 OR<br>84688 SERIES RECEPTACLE |             | WHEN MATING TO A 52057 SERIES<br>METRAL 4000 RECEPTACLE |             |               |
|         |                           |                         | ROWS A,B,C,D,E                                       | GROUND ROW  | ROWS:A,B,D,E                                            | ROW C       | GROUND ROW ** |
| 04*     | 7.25                      | 4.30                    | 1.60 MIN                                             | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN      |
| 46      |                           | 12.20                   | 2.95 - 3.80                                          | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20   |
| 33      |                           | 12.95                   | 2.95 - 4.55                                          | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95   |
| 08      |                           | 13.70                   | 2.95 - 5.30                                          | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70   |
| 38      |                           | 14.45                   | 3.05 - 6.05                                          | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45   |
| 51      |                           | 15.20                   | 3.80 - 6.80                                          | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20   |
| 42      |                           | 15.70                   | 4.30 - 7.30                                          | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70   |
| 67      |                           | 16.40                   | 5.00 - 8.00                                          | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40   |
| 12      |                           | 17.10                   | 5.70 - 8.70                                          | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10   |
| 19*     | 8.00                      | 4.30                    | 1.60 MIN                                             | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN      |
| 47      |                           | 12.20                   | 2.95 - 3.80                                          | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20   |
| 34      |                           | 12.95                   | 2.95 - 4.55                                          | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95   |
| 20      |                           | 13.70                   | 2.95 - 5.30                                          | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70   |
| 39      |                           | 14.45                   | 3.05 - 6.05                                          | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45   |
| 52      |                           | 15.20                   | 3.80 - 6.80                                          | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20   |
| 43      |                           | 15.70                   | 4.30 - 7.30                                          | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70   |
| 68      |                           | 16.40                   | 5.00 - 8.00                                          | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40   |
| 21      |                           | 17.10                   | 5.70 - 8.70                                          | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10   |

\* STUB PINS - NO REAR PLUG-UP

\*\* THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF  
PIN 'GND' IS ONE SIZE SHORTER THAN THE OTHER PINS.

|                     |                                       |       |        |                  |                               |                                                                                                             |                                                                                                     |                        |                           |       |              |               |  |     |   |
|---------------------|---------------------------------------|-------|--------|------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------|---------------------------|-------|--------------|---------------|--|-----|---|
| spec ref            |                                       | dr    |        | P-Mathew Nebu    | 2011/05/20                    | <div>projection</div>  | <div>MM</div>  | size                   | A4                        | scale | 1:1          |               |  |     |   |
| tolerance std       | TOLERANCES UNLESS OTHERWISE SPECIFIED |       |        | eng              | Rahul Mohan-M                 |                                                                                                             |                                                                                                     | 2021/08/25             | ecn no                    |       |              | ELX-I-41555-1 |  |     |   |
|                     |                                       |       |        | chr              | -                             |                                                                                                             |                                                                                                     | -                      | rel level                 |       |              | Released      |  |     |   |
| ISO 406<br>ISO 1101 |                                       | appr  |        | Kuriakose, San   | 2021/08/25                    | product family                                                                                              |                                                                                                     | METRAL 1000            |                           |       |              |               |  |     |   |
| surface             | linear                                | 0.X   | ±0.3   | Amphenol FCI     | title                         |                                                                                                             |                                                                                                     |                        | VERTICAL SIGNAL HDR 5 ROW |       | dwg no       | 63779         |  | rev | V |
|                     |                                       | 0.XX  | ±0.13  |                  |                               |                                                                                                             |                                                                                                     |                        |                           |       |              |               |  |     |   |
|                     |                                       | 0.XXX | ±0.050 |                  | P.F. 120 POS. SELECT LOAD STD |                                                                                                             |                                                                                                     |                        |                           |       |              |               |  |     |   |
| ISO 1302            | angular                               | 0°    | ±2°    | amphenol-icc.com | cat. no.                      |                                                                                                             |                                                                                                     | Product - Customer Drw |                           |       | sheet 3 of 7 |               |  |     |   |



|               |                                       |       |        |                         |                               |                       |                        |            |                           |       |              |           |               |          |     |   |
|---------------|---------------------------------------|-------|--------|-------------------------|-------------------------------|-----------------------|------------------------|------------|---------------------------|-------|--------------|-----------|---------------|----------|-----|---|
| spec ref      |                                       | dr    |        | P-Mathew Nebu           | 2011/05/20                    | <div>projection</div> | <div>MM</div>          | size       | A4                        | scale | 1:1          |           |               |          |     |   |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED |       |        | eng                     | Rahul Mohan-M                 |                       |                        | 2021/08/25 | ecn no                    |       |              |           | ELX-I-41555-1 |          |     |   |
|               |                                       |       |        | chr                     | -                             |                       |                        | -          |                           |       |              |           |               |          |     |   |
|               |                                       |       |        | appr                    | Kuriakose, San                |                       |                        | 2021/08/25 | product family            |       | METRAL 1000  | rel level |               | Released |     |   |
| surface       | linear                                | 0.X   | ±0.3   | <div>Amphenol FCI</div> | title                         |                       |                        |            | VERTICAL SIGNAL HDR 5 ROW |       | dwg no       |           | 63779         |          | rev | V |
|               |                                       | 0.XX  | ±0.13  |                         |                               |                       |                        |            |                           |       |              |           |               |          |     |   |
|               |                                       | 0.XXX | ±0.050 |                         | P.F. 120 POS. SELECT LOAD STD |                       |                        |            |                           |       |              |           |               |          |     |   |
| ISO 1302      | angular                               | 0°    | ±2°    | amphenol-icc.com        | cat. no.                      |                       | Product - Customer Drw |            |                           |       | sheet 4 of 7 |           |               |          |     |   |

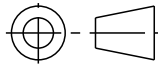
## SELECT LOAD PATTERNS

| PRODUCT #                             | ROW | COLUMN |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------------------------|-----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                       |     | 1      | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 63779-X001LF                          | E   | 03     | 02 | 02 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 03 |    |
|                                       | D   | 03     | 02 | 02 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 03 |    |
|                                       | C   | 03     | 02 | 02 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 03 |    |
|                                       | B   | 03     | 02 | 02 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 03 |    |
|                                       | A   | 03     | 02 | 02 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 03 |    |
|                                       | GND | 01     | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| PRODUCT #                             | ROW | COLUMN |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                       |     | 1      | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 63779-X002LF<br>SEE NOTE 11<br>*RPU** | E   | 55     | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | D   | 55     | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | C   | 55     | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | B   | 55     | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | A   | 55     | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | GND | 55     | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
| PRODUCT #                             | ROW | COLUMN |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                       |     | 1      | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 63779-X003LF<br>SEE NOTE 11<br>*RPU** | E   | 55     | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | D   | 55     | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | C   | 55     | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | B   | 55     | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | A   | 55     | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |
|                                       | GND | 55     | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 02 | 02 | 02 | 02 | 55 | 55 |

\*\* NOT A POSSIBLE METRAL  
1000 OR 4000 REAR PLUG-UP  
PART NUMBER,  
SPECIAL APPLICATION.

\*\* NOT A POSSIBLE METRAL  
1000 OR 4000 REAR PLUG-UP  
PART NUMBER,  
SPECIAL APPLICATION.

\*REAR PLUG-UP PART NUMBER

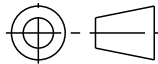
|                                                                                                            |                                       |        |                  |                                                                                     |                                                                     |                                                                                       |                                                                                       |            |        |               |          |          |
|------------------------------------------------------------------------------------------------------------|---------------------------------------|--------|------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------|--------|---------------|----------|----------|
| spec ref                                                                                                   |                                       | dr     |                  | P-Mathew Nebu                                                                       | 2011/05/20                                                          |  |  | size       | A4     | scale         | 1:1      |          |
| tolerance std                                                                                              | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                  | eng                                                                                 | Rahul Mohan-M                                                       |                                                                                       |                                                                                       | 2021/08/25 | ecn no | ELX-I-41555-1 |          |          |
|                                                                                                            |                                       |        |                  | chr                                                                                 | -                                                                   |                                                                                       |                                                                                       | -          |        |               |          |          |
| ISO 406<br>ISO 1101                                                                                        |                                       | appr   |                  | Kuriakose, San                                                                      | 2021/08/25                                                          | product family                                                                        |                                                                                       | METRAL HS  |        | rel level     | Released |          |
| surface<br><br>ISO 1302 | linear                                | 0.X    | ±0.3             |  | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 120 POS. SELECT LOAD STD |                                                                                       |                                                                                       |            | dwg no | 63779         |          | rev<br>V |
|                                                                                                            |                                       | 0.XX   | ±0.13            |                                                                                     |                                                                     |                                                                                       |                                                                                       |            |        |               |          |          |
|                                                                                                            | 0.XXX                                 | ±0.050 | amphenol-icc.com |                                                                                     | cat. no.                                                            |                                                                                       | Product - Customer Drw                                                                |            |        | sheet 5 of 7  |          |          |
|                                                                                                            | angular                               | 0°     | ±2°              |                                                                                     |                                                                     |                                                                                       |                                                                                       |            |        |               |          |          |

| SELECT LOAD PATTERNS |     |        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|-----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| PRODUCT #            | ROW | COLUMN |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                      |     | 1      | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 63779-X004LF         | E   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                      | D   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                      | C   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 04 | 04 | 04 |
|                      | B   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                      | A   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                      | GND | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| PRODUCT #    | ROW | COLUMN |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------|-----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|              |     | 1      | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 63779-X005LF | E   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|              | D   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|              | C   | 04     | 02 | 02 | 02 | 02 | 02 | 04 | 02 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 02 | 04 | 02 | 02 | 02 | 02 | 02 |
|              | B   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|              | A   | 02     | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|              | GND | -      | 02 | 02 | 02 | 02 | -  | -  | 02 | 02 | 02 | 02 | -  | -  | 02 | 02 | 02 | 02 | -  | -  | 02 | 02 | 02 | 02 | -  |

| PRODUCT #            | ROW | COLUMN |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|-----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                      |     | 1      | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 63779-X006LF<br>*RPU | E   | 22     | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 01 | 01 | 01 | 01 |
|                      | D   | 22     | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 01 | 01 | 01 | 01 |
|                      | C   | 22     | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 01 | 01 | 01 | 01 |
|                      | B   | 01     | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                      | A   | 01     | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                      | GND | 22     | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

\*REAR PLUG-UP PART NUMBER

|                                                                                                            |                                       |      |       |                                                                                     |            |                                                                                       |                                                                                       |                           |    |               |              |          |     |   |
|------------------------------------------------------------------------------------------------------------|---------------------------------------|------|-------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------|----|---------------|--------------|----------|-----|---|
| spec ref                                                                                                   |                                       | dr   |       | P-Mathew Nebu                                                                       | 2011/05/20 |  |  | size                      | A4 | scale         | 1:1          |          |     |   |
| tolerance std                                                                                              | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng  |       | Rahul Mohan-M                                                                       | 2021/08/25 |                                                                                       |                                                                                       | ecn no                    |    | ELX-I-41555-1 |              |          |     |   |
|                                                                                                            |                                       | chr  |       | -                                                                                   | -          |                                                                                       |                                                                                       | rel level                 |    |               |              | Released |     |   |
| ISO 406<br>ISO 1101                                                                                        |                                       | appr |       | Kuriakose, San                                                                      | 2021/08/25 | product family                                                                        |                                                                                       | METRAL HS                 |    |               |              |          |     |   |
| surface<br><br>ISO 1302 | linear                                | 0.X  | ±0.3  |  | title      |                                                                                       |                                                                                       | VERTICAL SIGNAL HDR 5 ROW |    | dwg no        | 63779        |          | rev | V |
|                                                                                                            |                                       | 0.XX | ±0.13 |                                                                                     |            |                                                                                       |                                                                                       |                           |    |               |              |          |     |   |
|                                                                                                            |                                       |      | 0.XXX |                                                                                     | ±0.050     | P.F. 120 POS. SELECT LOAD STD                                                         |                                                                                       |                           |    |               |              |          |     |   |
|                                                                                                            | angular                               | 0°   | ±2°   | amphenol-icc.com                                                                    | cat. no.   |                                                                                       | Product - Customer Drw                                                                |                           |    |               | sheet 6 of 7 |          |     |   |

## NOTES:

- SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
- SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
- SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
- MATERIAL : BODY : THERMOPLASTIC UL94-V0.  
: CONTACT : COPPER ALLOY.
- FOR PLATING PERFORMANCE REFER DRAWING # 10159408.
- DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.  
FOR MATING WITH METRAL 1000 RECEPTACLES  
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E  
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A  
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E  
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A  
FOR MATING WITH METRAL 4000 RECEPTACLES  
DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A, B, D & E  
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C  
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A  
DIM C : 5.00mm MIN, 7.00mm MAX FOR ROWS A, B, D & E  
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C  
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
- THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLIANT SECTIONS OF THE GROUND SPRING OF THE HEADER DIRECTLY OPPOSE THE GROUND SPRING OF THE SHROUD. THE MIN PCB THICKNESS FOR FRONT PLUG-UP ONLY APPLICATIONS IS 1.6mm.
- THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
- THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.
- PIN CODE 55 CANNOT BE USED WITH METRAL 1000 SHROUDS. PIN CODE 55 HAS A DIM A=5.75mm, DIM B=11.55mm.
- THE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN
- A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

|               |                                       |         |        |               |                  |                       |               |                           |                |       |           |              |               |     |   |
|---------------|---------------------------------------|---------|--------|---------------|------------------|-----------------------|---------------|---------------------------|----------------|-------|-----------|--------------|---------------|-----|---|
| spec ref      |                                       | dr      |        | P-Mathew Nebu | 2011/05/20       | <div>projection</div> | <div>MM</div> | size                      | A4             | scale | 1:1       |              |               |     |   |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED |         |        | eng           | Rahul Mohan-M    |                       |               | 2021/08/25                | ecn no         |       |           |              | ELX-I-41555-1 |     |   |
|               |                                       |         |        | chr           | -                |                       |               | -                         | rel level      |       |           |              | Released      |     |   |
|               |                                       |         |        | appr          | Kuriakose, San   |                       |               | 2021/08/25                | product family |       | METRAL HS |              |               |     |   |
| surface       | linear                                | 0.X     | ±0.3   | Amphenol FCI  | title            |                       |               | VERTICAL SIGNAL HDR 5 ROW |                |       | dwg no    | 63779        |               | rev | V |
|               |                                       | 0.XX    | ±0.13  |               |                  |                       |               |                           |                |       |           |              |               |     |   |
|               |                                       | 0.XXX   | ±0.050 |               |                  |                       |               |                           |                |       |           |              |               |     |   |
|               | ISO 1302                              | angular | 0°     | ±2°           | amphenol-icc.com | cat. no.              |               | Product - Customer Drw    |                |       |           | sheet 7 of 7 |               |     |   |