

PRODUCT NUMBER  
20020009-XXXXXXLF

20020009-

PITCH

C : 3.50 mm  
D : 3.81 mm  
G : 5.00 mm  
H : 5.08 mm

POLES

02: 2 POLES  
03: 3 POLES  
04: 4 POLES  
:  
:  
:  
24: 24 POLES

LF : DENOTES ROHS COMPATIBLE

1 : STANDARD PRODUCT  
W/ BOX PACKING

SCREW CODE

| CODE | SCREW TYPE                                                                              | AVAILABILITY    |
|------|-----------------------------------------------------------------------------------------|-----------------|
| A    | -/+  | ON REQUEST ONLY |
| B    | -    | STANDARD        |

ALL FLANGE SCREWS ARE ONLY AVAILABLE IN +/-  
COMBINATION SCREW TYPES.

PROPERTY TABLE

| FCI SERIES NAME                           |          | 02-350                                                                              | 02-381   | 02-500                                                                              | 02-508   |     |
|-------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|-----|
| PITCH (mm)                                |          | 3.50                                                                                | 3.81     | 5.00                                                                                | 5.08     |     |
| VOLTAGE RATING (VAC)                      |          | 300                                                                                 | 300      | 300                                                                                 | 300      |     |
| CURRENT RATING (A)                        | cULus    | 8                                                                                   | 8        | 12                                                                                  | 12       |     |
|                                           | VDE      | 10                                                                                  | 10       | NA                                                                                  | NA       |     |
| APPLICABLE WIRE RANGE (AWG)               | 1-WIRE   | 16~28                                                                               | 16~28    | 12~24                                                                               | 12~24    |     |
|                                           | 2-WIRE   | 20                                                                                  | 20       | 18                                                                                  | 18       |     |
| WIRE CROSS SECTION<br>(mm <sup>2</sup> )  | SOLID    | 1-WIRE                                                                              | 1.5      | 1.5                                                                                 | 2.5      |     |
|                                           |          | 2-WIRE                                                                              | 0.5      | 0.5                                                                                 | 1.0      | 1.0 |
|                                           | STRANDED | 1-WIRE                                                                              | 1.5      | 1.5                                                                                 | 2.5      | 2.5 |
|                                           |          | 2-WIRE                                                                              | 0.75     | 0.75                                                                                | 1.5      | 1.5 |
| OPENING CONTACT HOUSING(mm <sup>2</sup> ) |          | 2.8x1.7                                                                             | 2.8x1.7  | 2.6x3.3                                                                             | 2.6x3.3  |     |
| WIRE STRIP LENGTH(mm)                     |          | 6~7                                                                                 | 6~7      | 6~7                                                                                 | 6~7      |     |
| TORQUE +/−10% (N-m/Lb-in)                 |          | 0.19/1.7                                                                            | 0.19/1.7 | 0.4/3.5                                                                             | 0.4/3.5  |     |
| SCREW                                     |          | M2x0.4                                                                              | M2x0.4   | M3x0.5                                                                              | M3x0.5   |     |
| WITHSTANDING VOLTAGE (kV)                 | cULus    | 1.6                                                                                 | 1.6      | 1.6                                                                                 | 1.6      |     |
|                                           | VDE      | 2.5                                                                                 | 2.5      | NA                                                                                  | NA       |     |
| OPERATING TEMP. (°C)                      |          | −40~+115                                                                            | −40~+115 | −40~+115                                                                            | −40~+115 |     |
| POLES AVAILABLE                           |          | 02~24                                                                               | 02~24    | 02~24                                                                               | 02~24    |     |
| SAFETY CERTIFICATE                        |          |  |          |  |          |     |

HOUSING CODE

| CODE | COLOR             | AVAILABILITY    |
|------|-------------------|-----------------|
| 1    | GREEN(RAL 6018/T) | STANDARD        |
| 2    | BLACK             | ON REQUEST ONLY |
| 3    | GREY(RAL 7004/P)  | ON REQUEST ONLY |
| 4    | BLUE(RAL 5015/A)  | ON REQUEST ONLY |

## NOTES:

## 1. MATERIALS

- 1-1 HOUSING: THERMALPLASTIC RESIN, UL 94V-0 RATED.
- 1-2 SCREW AND FLANGE SCREW: STEEL, ZINC PLATED.
- 1-3 CLAMP: COPPER ALLOY, NICKEL PLATED.
- 1-4 TERMINAL: COPPER ALLOY, TIN PLATED.

## 2. PRODUCT SPECIFICATION REFER TO FCI GS-12-625.

## 3. BOXED PACKAGING,

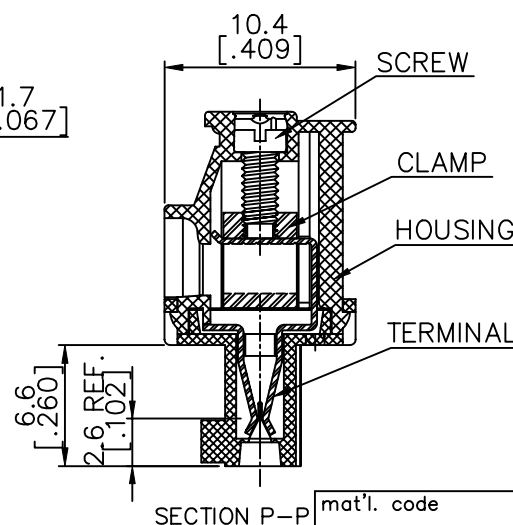
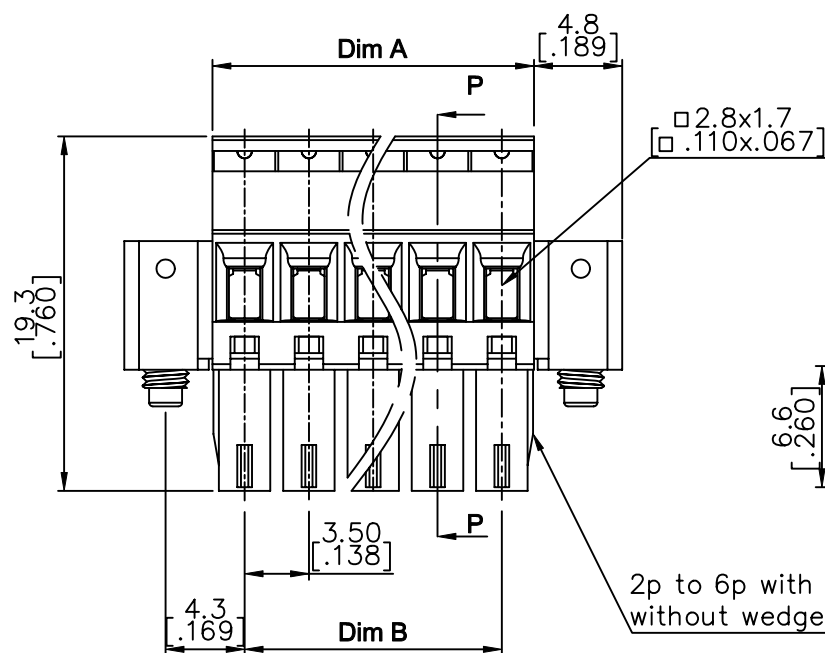
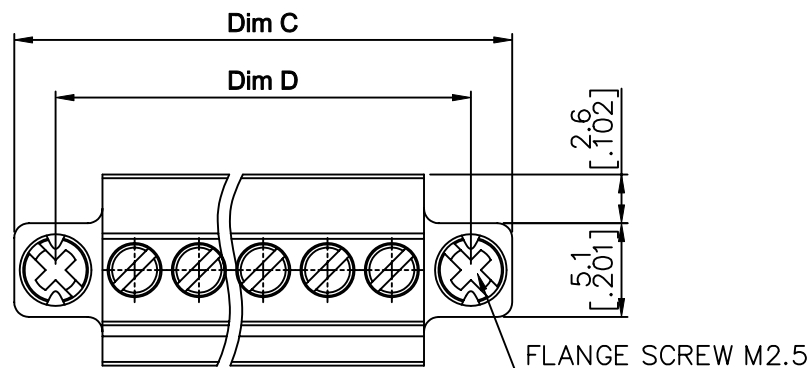
DETAILED PRODUCT PACKING SPECIFICATION REFER TO FCI GS-14-1394.

## 4. FCI, SAFETY CERTIFICATE LOGO AND SERIES NAME TO BE SHOWN ON PRODUCT SURFACE.

## 5. THE PRODUCTS WHERE THE PART NUMBER END IN "LF" MEET THE EUROPEAN UNION DIRECTIVE AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

| mat'l. code |          |    |        | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection<br> | product family<br>TERMINAL BLOCK       |
|-------------|----------|----|--------|---------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------|
| ltr         | ecn no   | dr | date   | tolerances unless otherwise specified |                         |                                                                                                     | title                                  |
| A           | T10-0062 | WL | 050710 | angles                                | X.±0.5[.020]            | MM                                                                                                  | TERMINAL BLOCK                         |
| B           | T10-0127 | WL | 080910 | to 1°                                 | X.X±0.3[.012]           | INCH                                                                                                | PLUGGABLE PLUG, SIGNAL, ENTRYSIDE HOOK |
| C           | T10-0140 | WL | 090310 | X'±1°                                 | X.XX±0.1[.004]          | scale                                                                                               | W/FLANGE                               |
| D           | T10-0155 | WL | 093010 | dr                                    | WENDY CHEN              | 042310                                                                                              | sheet 1 of 5                           |
| E           | T10-0187 | WL | 121410 | enr                                   | JASON HSU               | 042310                                                                                              | size                                   |
| F           | T11-0013 | WL | 040811 | chr                                   | GARY HSIEH              | 042310                                                                                              | 20020009                               |
| G           | T-004860 | WL | 080411 | appd                                  | JOSEPH HSIA             | 042310                                                                                              | A4                                     |
| sheet       | revision | G  | G      | G                                     | G                       | G                                                                                                   | type                                   |
| index       | sheet    | 1  | 2      | 3                                     | 4                       | 5                                                                                                   | CUSTOMER Drawing                       |

| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020009-CXXXXXXLF | 02-350      | 3.50 mm |



2p to 6p with wedge, above 7p  
without wedge (including 7p)

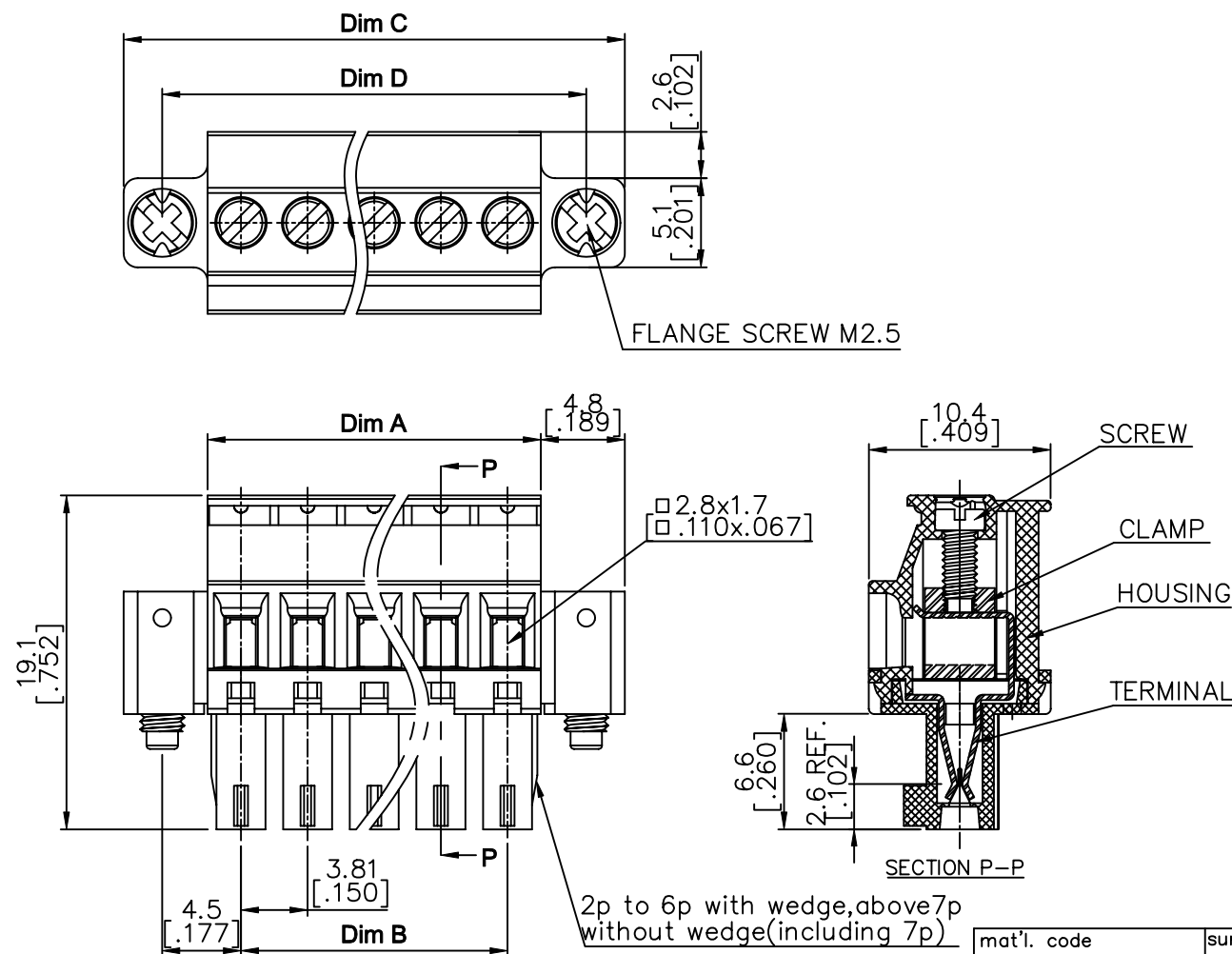
N = Number of poles

|       |                                      |
|-------|--------------------------------------|
| Dim A | $N \times 3.5[.138]$                 |
| Dim B | $(N-1) \times 3.5[.138]$             |
| Dim C | $N \times [.138] 3.5 + 9.6[.378]$    |
| Dim D | $(N-1) \times 3.5[.138] + 8.6[.339]$ |

| Poles   | Tolerance        |
|---------|------------------|
| 2p-6p   | $\pm 0.15[.006]$ |
| 7p-12p  | $\pm 0.20[.008]$ |
| 13p-16p | $\pm 0.25[.100]$ |
| 17p-24p | $\pm 0.30[.012]$ |

[illegible]

| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020009-DXXXXXXLF | 02-381      | 3.81 mm |



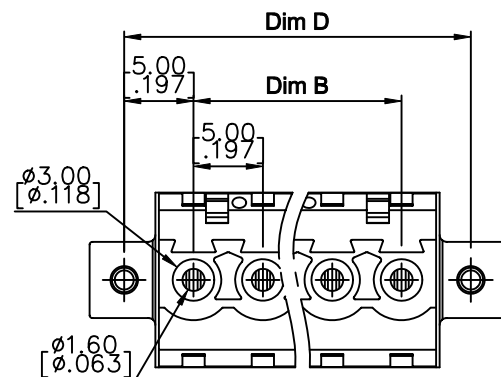
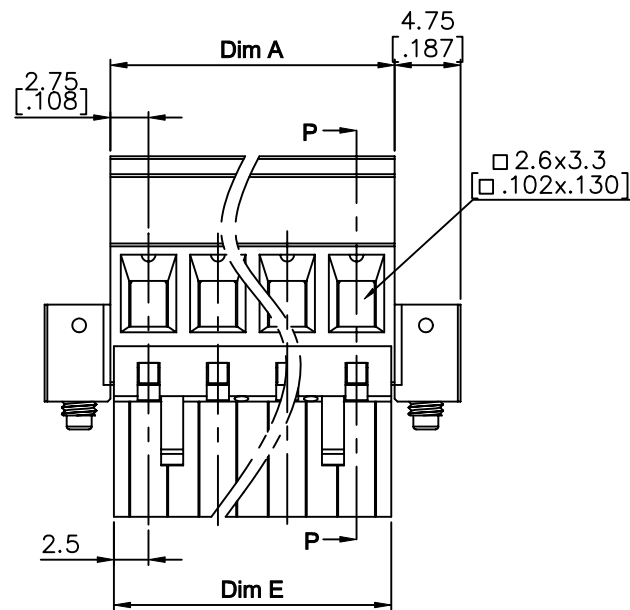
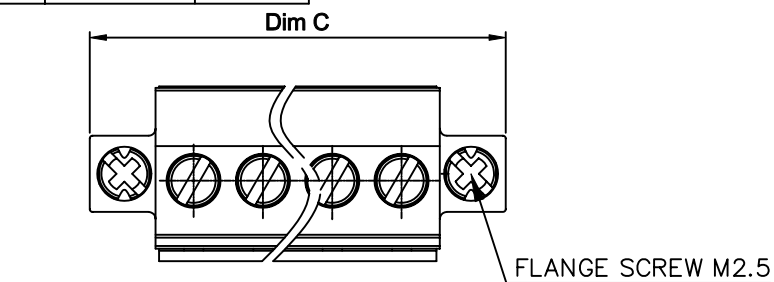
N = Number of poles

|       |                            |
|-------|----------------------------|
| Dim A | NX3.81[.150]               |
| Dim B | (N-1)X3.81[.150]           |
| Dim C | NX3.81[.150]+9.6[.378]     |
| Dim D | (N-1)X3.81[.150]+9.0[.354] |

| Poles   | Tolerance   |
|---------|-------------|
| 2p-6p   | ±0.15[.006] |
| 7p-12p  | ±0.20[.008] |
| 13p-16p | ±0.25[.100] |
| 17p-24p | ±0.30[.012] |

|             |                         |                         |                          |                                                                                |
|-------------|-------------------------|-------------------------|--------------------------|--------------------------------------------------------------------------------|
| mat'l. code | surface<br>ASME Y14.5 ✓ | tolerance<br>ASME Y14.5 | projection<br>MM<br>INCH | product family<br>TERMINAL BLOCK                                               |
| ltr         | ecn no                  | dr                      | date                     | title<br>TERMINAL BLOCK<br>PLUGGABLE PLUG, SIGNAL, ENTRY SIDE HOOK<br>W/FLANGE |
| G           |                         |                         |                          | sheet 3 of 5 size<br>A4                                                        |
|             |                         |                         |                          | 20020009                                                                       |
|             |                         |                         |                          | type<br>CUSTOMER Drawing                                                       |
| dr          | WENDY CHEN              | 042310                  |                          |                                                                                |
| enr         | JASON HSU               | 042310                  |                          |                                                                                |
| chr         | GARY HSIEH              | 042310                  |                          |                                                                                |
| appd        | JOSEPH HSIA             | 042310                  |                          |                                                                                |
| sheet index | revision sheet          |                         |                          |                                                                                |

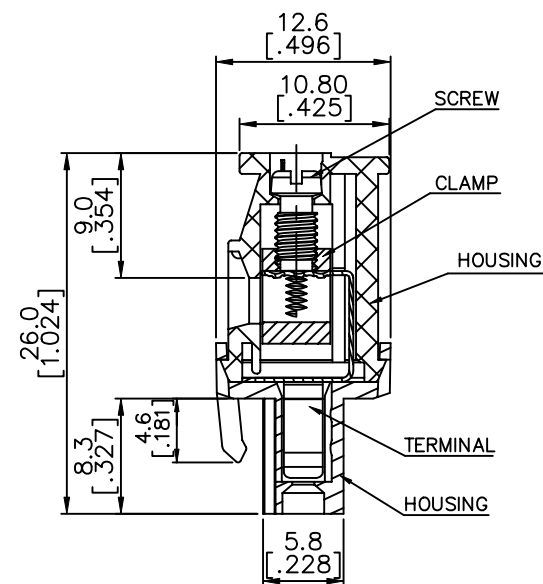
| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020009-GXXXXXXLF | 02-500      | 5.00 mm |



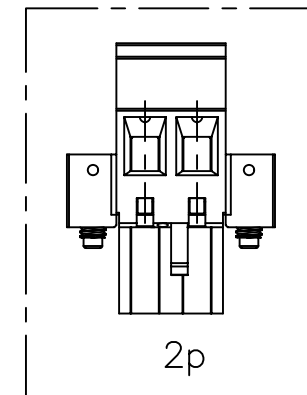
N = Number of poles

|       |                                       |
|-------|---------------------------------------|
| Dim A | $N \times 5.0 [0.197] + 0.5 [0.020]$  |
| Dim B | $(N-1) \times 5.0 [0.197]$            |
| Dim C | $N \times 5.0 [0.197] + 10.0 [0.394]$ |
| Dim D | $(N+1) \times 5.0 [0.197]$            |
| Dim E | $N \times 5.0 [0.197]$                |

| Poles   | Tolerance          |
|---------|--------------------|
| 2p-6p   | $\pm 0.15 [0.006]$ |
| 7p-12p  | $\pm 0.25 [0.010]$ |
| 13p-18p | $\pm 0.30 [0.012]$ |
| 19p-24p | $\pm 0.40 [0.016]$ |

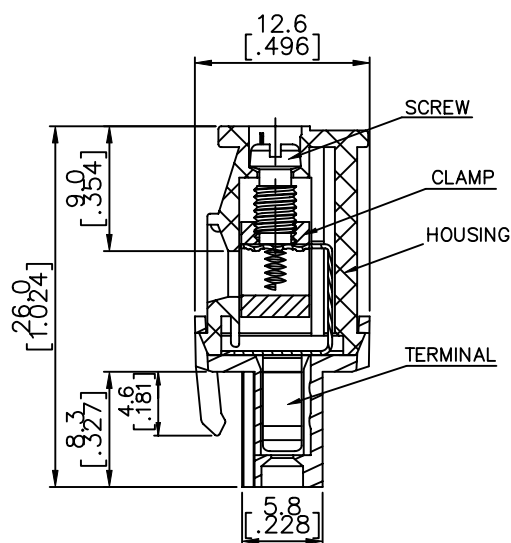
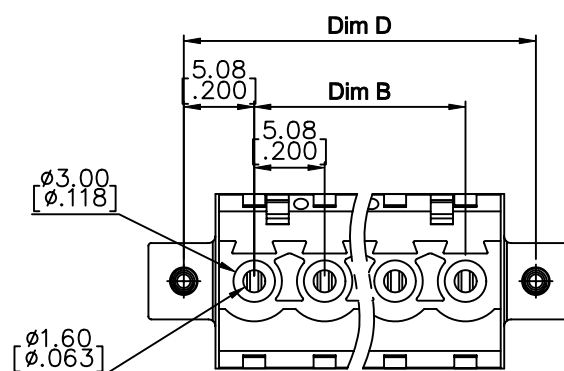
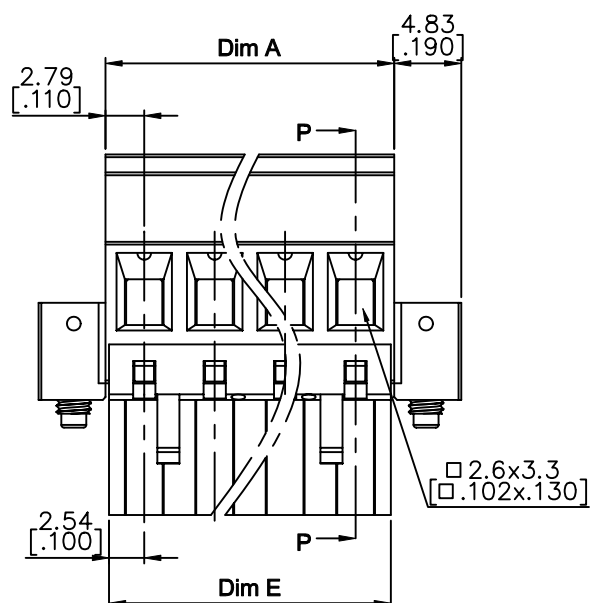
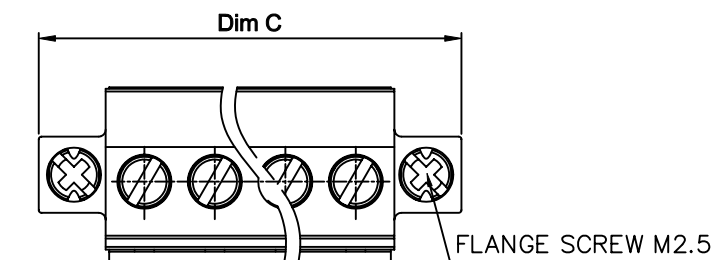


SECTION P-P



|             |          |       |             |                                       |                         |              |                                        |
|-------------|----------|-------|-------------|---------------------------------------|-------------------------|--------------|----------------------------------------|
| mat'l. code |          |       |             | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection   | product family<br>TERMINAL BLOCK       |
| ltr         | ecn no   | dr    | date        | tolerances unless otherwise specified |                         |              | title                                  |
| G           |          |       |             | angles                                | $X \pm 0.5 [0.020]$     | MM<br>[INCH] | TERMINAL BLOCK                         |
|             |          |       |             | to line                               | $X.X \pm 0.3 [0.012]$   |              | PLUGGABLE PLUG, SIGNAL, ENTRYSIDE HOOK |
|             |          |       |             | $X^\circ \pm 1^\circ$                 | $X.XX \pm 0.1 [0.004]$  | scale        | W/FLANGE                               |
|             |          | dr    | WENDY CHEN  | 042310                                |                         | FCI          | sheet 4 of 5 size                      |
|             |          | enr   | JASON HSU   | 042310                                |                         |              | 20020009                               |
|             |          | chr   | GARY HSIEH  | 042310                                |                         |              | A4                                     |
|             |          | appd  | JOSEPH HSIA | 042310                                |                         |              | CUSTOMER Drawing                       |
| sheet index | revision | sheet |             |                                       |                         |              |                                        |

| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020009-HXXXXXXLF | 02-508      | 5.08 mm |

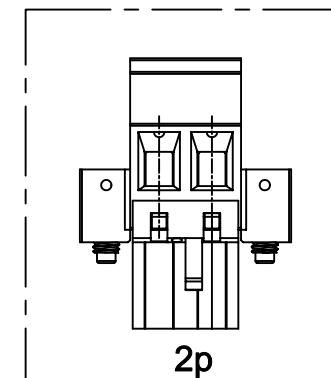


SECTION P-P

N = Number of poles

|       |                                      |
|-------|--------------------------------------|
| Dim A | $N \times 5.08 [.200] + 0.5 [.020]$  |
| Dim B | $(N-1) \times 5.08 [.200]$           |
| Dim C | $N \times 5.08 [.200] + 9.66 [.380]$ |
| Dim D | $(N+1) \times 5.08 [.200]$           |
| Dim E | $N \times 5.08 [.200]$               |

| Poles   | Tolerance         |
|---------|-------------------|
| 2p-6p   | $\pm 0.15 [.006]$ |
| 7p-12p  | $\pm 0.20 [.008]$ |
| 13p-18p | $\pm 0.30 [.012]$ |
| 19p-24p | $\pm 0.40 [.016]$ |



|             |                       |                         |                          |                                                                      |
|-------------|-----------------------|-------------------------|--------------------------|----------------------------------------------------------------------|
| mat'l. code | surface<br>ASME Y14.5 | tolerance<br>ASME Y14.5 | projection<br>MM<br>INCH | product family<br>TERMINAL BLOCK                                     |
| ltr         | ecn no                | dr                      | date                     | title                                                                |
| G           |                       |                         |                          | TERMINAL BLOCK<br>PLUGGABLE PLUG, SIGNAL, ENTRYSIDE HOOK<br>W/FLANGE |
|             |                       |                         |                          | sheet 5 of 5 size                                                    |
|             |                       |                         |                          | 20020009 A4                                                          |
|             |                       |                         |                          | type CUSTOMER Drawing                                                |
| sheet index | revision              | sheet                   |                          |                                                                      |