

|                                                                                                                                                                                                                                      |         | 2                                                             | 3     | 4                                                                                                                                                                                                                                                                                                                                                  | 5 | 6                                                  | 7       | 8                   |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------|---------|---------------------|--------------------|-------------|---|---------|------------|------|-------|---|------------------------|------------|-------|----|-------|---------|------------|-------|----|--|--|--|
|                                                                                                                                                                                                                                      |         |                                                               |       | <table><tr><th>REV.</th><th>ECN NO.</th><th>DATE</th><th>SIGN</th><th>DESCRIPTION</th></tr><tr><td>G</td><td>C231031</td><td>2023/08/04</td><td>Ruru</td><td> X1</td></tr><tr><td>H</td><td>C240699</td><td>2024/06/20</td><td>Vicky</td><td> X2</td></tr><tr><td>I</td><td>C241122</td><td>2024/10/27</td><td>Henry</td><td> X1</td></tr></table> |   | REV.                                               | ECN NO. | DATE                | SIGN               | DESCRIPTION | G | C231031 | 2023/08/04 | Ruru | X1    | H | C240699                | 2024/06/20 | Vicky | X2 | I     | C241122 | 2024/10/27 | Henry | X1 |  |  |  |
| REV.                                                                                                                                                                                                                                 | ECN NO. | DATE                                                          | SIGN  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                        |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| G                                                                                                                                                                                                                                    | C231031 | 2023/08/04                                                    | Ruru  | X1                                                                                                                                                                                                                                                                                                                                                 |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| H                                                                                                                                                                                                                                    | C240699 | 2024/06/20                                                    | Vicky | X2                                                                                                                                                                                                                                                                                                                                                 |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| I                                                                                                                                                                                                                                    | C241122 | 2024/10/27                                                    | Henry | X1                                                                                                                                                                                                                                                                                                                                                 |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| Recommended Panel Cut-Out                                                                                                                                                                                                            |         |                                                               |       | Wire harness                                                                                                                                                                                                                                                                                                                                       |   | Connector                                          |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | Shield                                                                                                                                                                                                                                                                                                                                             |   | Nut                                                |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | O-Ring                                                                                                                                                                                                                                                                                                                                             |   | M16*1.5                                            |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| <table><tr><td>5</td><td>Gray</td><td>灰</td></tr><tr><td>4</td><td>Black</td><td>黑</td></tr><tr><td>3</td><td>Blue</td><td>藍</td></tr><tr><td>2</td><td>White</td><td>白</td></tr><tr><td>1</td><td>Brown</td><td>棕</td></tr></table> |         | 5                                                             | Gray  | 灰                                                                                                                                                                                                                                                                                                                                                  | 4 | Black                                              | 黑       | 3                   | Blue               | 藍           | 2 | White   | 白          | 1    | Brown | 棕 | <br>M12B-XXPFFC-SF8CXX |            |       |    | Note: |         |            |       |    |  |  |  |
| 5                                                                                                                                                                                                                                    | Gray    | 灰                                                             |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| 4                                                                                                                                                                                                                                    | Black   | 黑                                                             |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| 3                                                                                                                                                                                                                                    | Blue    | 藍                                                             |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| 2                                                                                                                                                                                                                                    | White   | 白                                                             |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| 1                                                                                                                                                                                                                                    | Brown   | 棕                                                             |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| Pin # Wire                                                                                                                                                                                                                           |         | XX: No. Of Pin                                                |       |                                                                                                                                                                                                                                                                                                                                                    |   | * RoHS Compliant                                   |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| Pin Out                                                                                                                                                                                                                              |         |                                                               |       | 15: 150mm                                                                                                                                                                                                                                                                                                                                          |   | *  Important dimension                             |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | 20: 200mm                                                                                                                                                                                                                                                                                                                                          |   | *  Waterproof rate: IP68, unmated 1m/24h           |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | 95: 950mm                                                                                                                                                                                                                                                                                                                                          |   | IP69K, mated                                       |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | Cable Pitch Unit=50mm                                                                                                                                                                                                                                                                                                                              |   | * Connector                                        |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | A0: 1000mm                                                                                                                                                                                                                                                                                                                                         |   | Housing: Thermoplastic, Black                      |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | A5: 1500mm                                                                                                                                                                                                                                                                                                                                         |   | Pin: Copper alloy, Gold plated                     |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | Cable Pitch Unit=100mm                                                                                                                                                                                                                                                                                                                             |   | O-Ring: Rubber, Green                              |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       | Wire Length (L): 150~1500mm                                                                                                                                                                                                                                                                                                                        |   | * Shield: Metal                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   | * Nut: Metal                                       |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   | * O-Ring: Rubber, Black                            |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   | * Wire harness: UL1061, 22AWG                      |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   | * For panel thickness max: 4.5mm                   |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   | * O-Ring and nut are assembled on connectors       |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   | * Wire harness tolerance: 150mm < L ≤ 300mm: ±15mm |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   | 300mm < L ≤ 1000mm: ±20mm                          |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   | 1000mm < L ≤ 1500mm: +50/-0mm                      |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| UNIT:mm                                                                                                                                                                                                                              |         | TITLE<br>N SEN, M12 B, SCREW RECEPTACLE, F, F, FI/PANEL CRIMP |       | Amphenol LTW                                                                                                                                                                                                                                                                                                                                       |   | ITEM NO                                            |         | DRAWN BY            | DATE               |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
| TOLERANCE<br>.X ±0.25<br>.XX ±0.1<br>.XXX ±0.05<br>ANGLES ±1°                                                                                                                                                                        |         | SCALE 2:1 SIZE A4 SHEET 1 OF 1                                |       | 安費諾亮泰企業股份有限公司                                                                                                                                                                                                                                                                                                                                      |   | DWG NO<br>M12B-XXPFFC-SF8CXX                       |         | CHECKED BY<br>Jerry | DATE<br>2024-10-27 |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         | REV. 1 WC-REV. A.5  Inspection item                           |       |                                                                                                                                                                                                                                                                                                                                                    |   | CUSTOMER<br>ALTW                                   |         | APPROVED BY<br>Fred | DATE<br>2024-10-27 |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
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|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
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|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
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|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
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|                                                                                                                                                                                                                                      |         |                                                               |       |                                                                                                                                                                                                                                                                                                                                                    |   |                                                    |         |                     |                    |             |   |         |            |      |       |   |                        |            |       |    |       |         |            |       |    |  |  |  |
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