

Technical drawing of the MSDP-XXBFFM-SL8000 cable assembly, showing three views: front, side, and rear.

**Front View:** Shows the connector with "Amphenol" branding. Dimensions include a diameter of  $\varnothing 15.3$ , a length of 42.5, and a total length of L (mm). The cable is labeled "Cable" with "OD" (Outer Diameter) indicated.

**Side View:** Shows the connector with a height dimension of 12.90 (Hex.).

**Rear View:** Shows the connector with a pin configuration of 4000.

**Notes:**

- \*  $\varnothing$  Important Dim
- \*  $\Delta$  Waterproof Rate: B
- \* Connector: PU+GF
- \* Female Pin: Copper
- \* Screw Nut: Nylon
- \* Outer Mold: PU, B
- \* Cable: (A) UL25

- \*  Important Dimension.
- \*  Waterproof Rate: IP68, IP69K.
- \* Connector: PU+GF, Black.
- \* Female Pin: Copper Alloy, Gold Plated.
- \* Screw Nut: Nylon, Black.
- \* Outer Mold: PU, Black.
- \*  Cable: (A) UL2517, PVC Jacket, Yellow.
- (B) UL20549, PUR Jacket, Black.
- (D) UL2517, PVC Jacket, Black.
- (E) CAT5E, PU Jacket, Black.
- \*  Rated Voltage: 3 & 4Pin 250V dc. or ac.
- 5Pin 60V dc. or ac.
- \* Rated Current: 4A
- \* Operating Temperature: -25~+85°C
- \* Cable Length Tolerance: 01M:±40mm
- 02M~05M:±60mm
- 06M~10M:±100mm
- 11M~30M:±200mm
- 31M~99M:±500mm

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| UNIT: mm           |  |
| TOLERANCE          |                                                                                     |
| $\pm 0.5\text{mm}$ |                                                                                     |

|                         |     |         |        |
|-------------------------|-----|---------|--------|
| TITLE                   |     |         |        |
| M12 D Type Female Conn. |     |         |        |
| SCALE                   | 3:2 | SIZE    | A4     |
|                         |     | SHEET   | 1 OF 2 |
| REV.                    | B   | WC-REV. | A.2    |
| QC: Inspection item     |     |         |        |

**Amphenol LTW**  
安費諾亮泰企業股份有限公司

|                    |             |            |
|--------------------|-------------|------------|
| ITEM NO            | DRAWN BY    | DATE       |
|                    | Yulong_wang | 2016-10-14 |
| DWG NO             | CHECKED BY  | DATE       |
| MSDP-XXBFFM-SL8XXX | Jinhai      | 2016-10-14 |
| CUSTOMER           | APPROVED BY | DATE       |
| ALTW               | Jerry       | 2016-10-14 |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |                                                                                                                                               |                                                                                                                           |                                                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |
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|                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3 | 4 | 5 | 6                                                                                                                                             | 7                                                                                                                         | 8                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |
| F                  | <div><div><div>SDP:D-Code Plastic Nut</div><div>03:3Pin</div><div>04:4Pin</div><div>05:5Pin</div></div><div><div>B:Cable Without S/R (線端無網尾)</div><div>F:Female Connector (母座)</div><div>F:Female Pin (母Pin)</div><div>M:Molding Type (射出成型)</div><div>S:Screw (螺紋式)</div></div><div><div>XX:01~99Meters</div><div>01:01Meter</div><div>02:02Meters</div><div>:</div><div>99:99Meters</div></div><div><div>A:PVC UL2517 Cable, Yellow (PVC黃色外被線材)</div><div>B:PUR UL20549 Cable, Black (PUR黑色外被線材)</div><div>D:PVC UL2517 Cable, Black (PVC黑色外被線材)</div><div>E:PU Cat5e Cable, Black (PU Cat5e黑色外被線材)</div></div><div><div>8:IP68/69K (防水等級68/69K)</div><div>L:Straight (180°線端)</div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   | <div><div>4P</div><div>5P</div><div>4P</div><div>3P</div><div>5P</div><div>4P</div><div>3P</div><div>5P</div><div>4P</div><div>3P</div></div> | <div><div>PU</div><div>PVC</div><div>PUR</div><div>PVC</div></div>                                                        | <div><div>6.2</div><div>5.1</div><div>4.8</div><div>4.5</div><div>4.4</div><div>4.0</div><div>3.8</div><div>5.1</div><div>4.8</div><div>4.5</div></div> | <div>22</div>                                                                                                                                | <div><div>MSDP-04BFFM-SL8EXX</div><div>MSDP-05BFFM-SL8DXX</div><div>MSDP-04BFFM-SL8DXX</div><div>MSDP-03BFFM-SL8DXX</div><div>MSDP-05BFFM-SL8BXX</div><div>MSDP-04BFFM-SL8BXX</div><div>MSDP-03BFFM-SL8BXX</div><div>MSDP-05BFFM-SL8AXX</div><div>MSDP-04BFFM-SL8AXX</div><div>MSDP-03BFFM-SL8AXX</div></div> |                                                                                                                                     |  |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   | Contacts                                                                                                                                      | Cable Jacket                                                                                                              | Cable OD                                                                                                                                                | AWG                                                                                                                                          | Item No.                                                                                                                                                                                                                                                                                                      |                                                                                                                                     |  |
|                    | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |                                                                                                                                               | <div><div>ALTW</div><div>DCC. DEPT.</div><div>CONFIDENTIAL</div><div>2016.10.14</div><div>ISSUED</div></div>              |                                                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <div><div><div><div>5</div><div>--</div><div>Black</div><div>黑</div></div><div><div>4</div><div>Black</div><div>黑</div></div><div><div>3</div><div>Blue</div><div>藍</div></div><div><div>2</div><div>--</div><div>Brown</div><div>棕</div></div></div><div><div><div>5</div><div>--</div><div>Black</div><div>黑</div></div><div><div>4</div><div>Black</div><div>黑</div></div><div><div>3</div><div>Blue</div><div>藍</div></div><div><div>2</div><div>White</div><div>白</div></div><div><div>1</div><div>Brown</div><div>棕</div></div></div><div><div><div>5</div><div>Gray</div><div>灰</div></div><div><div>4</div><div>Black</div><div>黑</div></div><div><div>3</div><div>Blue</div><div>藍</div></div><div><div>2</div><div>White</div><div>白</div></div><div><div>1</div><div>Brown</div><div>棕</div></div></div><div><div><div>4</div><div>Green</div><div>綠</div></div><div><div>2</div><div>White/Green</div><div>白/綠</div></div><div><div>3</div><div>Orange</div><div>橙</div></div><div><div>1</div><div>White/Orange</div><div>白/橙</div></div></div></div> <div><div>Twist</div><div>對線</div></div> <div><div>Twist</div><div>對線</div></div> |   |   |   |                                                                                                                                               |                                                                                                                           |                                                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <div><div>Pin #</div><div>Wire</div><div>Pin #</div><div>Wire</div><div>Pin #</div><div>Wire</div><div>Pin #</div><div>Wire (Cat5e)</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |                                                                                                                                               |                                                                                                                           |                                                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |
| <div>Pin Out</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |                                                                                                                                               |                                                                                                                           |                                                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |
| B                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <div><div><div><div>3P</div><div><div><div>1</div><div>3</div><div>4</div></div></div></div><div>3P</div></div><div><div><div><div>4P</div><div><div><div>1</div><div>3</div><div>4</div><div>2</div></div></div></div><div>4P</div></div><div><div><div><div>5P</div><div><div><div>1</div><div>3</div><div>4</div><div>5</div><div>2</div></div></div></div><div>5P</div></div><div><div><div><div>4P</div><div><div><div>1</div><div>3</div><div>4</div><div>2</div></div></div></div><div>4P</div></div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |                                                                                                                                               | <div><div>B</div></div>                                                                                                   |                                                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |
|                    | <div>Pin Assignments Front View</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |                                                                                                                                               |                                                                                                                           |                                                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |
|                    | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div><div><div>UNIT:mm</div><div><div><div><div></div><div></div></div></div><div>TOLERANCE</div><div>±0.5mm</div></div></div><div><div>TITLE</div><div>MI2 D Type Female Conn.</div><div><div><div>SCALE3:2</div><div>SIZEA4</div><div>SHEET2OF2</div></div><div><div>REV.B</div><div>WC-REV.A.2</div><div>QC:Inspection item</div></div></div></div><div><div>Amphenol LTW</div><div>安費諾亮泰企業股份有限公司</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |                                                                                                                                               | <div><div>ITEM NO</div><div>DWG NO</div><div>CUSTOMER</div></div> <div><div>MSDP-XXBFFM-SL8XXX</div><div>ALTW</div></div> |                                                                                                                                                         | <div><div>DRAWN BY</div><div>CHECKED BY</div><div>APPROVED BY</div></div> <div><div>Yulong_wang</div><div>Jinhai</div><div>Jerry</div></div> |                                                                                                                                                                                                                                                                                                               | <div><div>DATE</div><div>DATE</div><div>DATE</div></div> <div><div>2016-10-14</div><div>2016-10-14</div><div>2016-10-14</div></div> |  |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |                                                                                                                                               | <div><div>8</div><div>FMW10702-01-02A1</div></div>                                                                        |                                                                                                                                                         |                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |  |

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