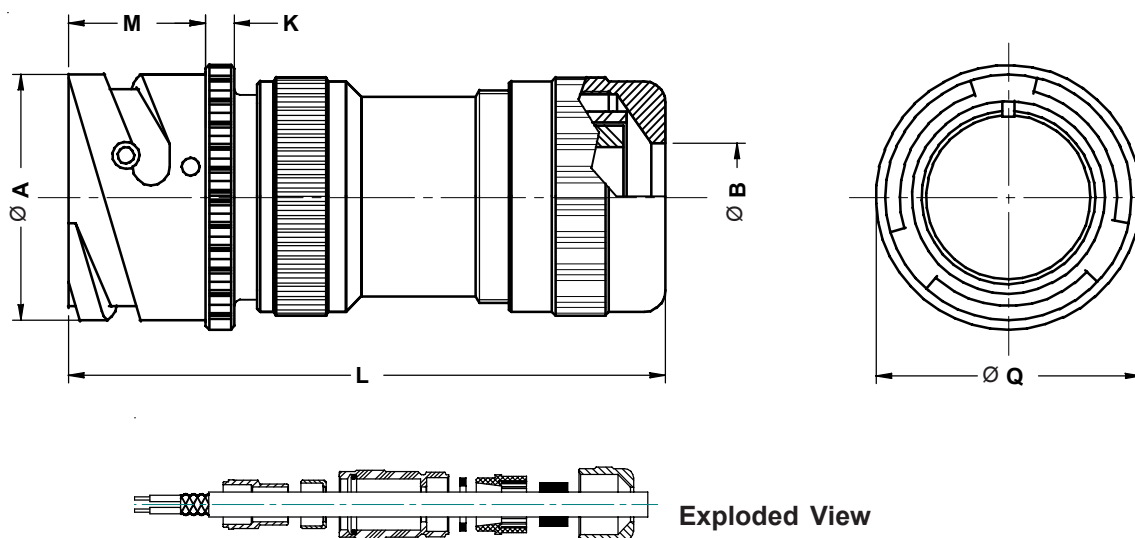


# ITS 3101 A (PHM-EMI67) and ITS 4101 A (PHM-EMI67) In-Line Cylindrical Receptacle Assembly with EMI/RFI and Environmental PHM Backshell

**ITS 31 01 A 20-27 P Y PHM11EM167 XXX**

|                                                                                     |                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Reverse Bayonet Coupling                                                            | Mod Code Option (See Table II)                                                |
| Contact Type<br>31 - Solder<br>41 - Crimp                                           | PHM Size                                                                      |
| 01 - In-Line                                                                        | Alternate Insert Rotation (W, X, Y, Z)<br>Omit for Normal (See Section A)     |
| Connector/Backshell Class<br>A - Non-Environmental; Supplied<br>with Backshell Only | Contact Gender<br>P - Pin<br>S - Socket                                       |
|                                                                                     | Shell Size and Insert Arrangement<br>(See Contact Arrangements,<br>Section C) |



## Application Notes:

1. In-line receptacle with an EMI/RFI PHM backshell.
2. Connector/Backshell Class "A" (non-environmental)—Wire sealing grommet not supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

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**In-Line Cylindrical Receptacle Assembly**  
**with EMI/RFI and Environmental PHM Backshell**



Series ITS

**TABLE I: DIMENSIONS**

| Shell Size   | PHM Size                            | ØA<br>+0<br>-0.1 | ØB<br>min. – Max.      | K<br>±0.2 | L<br>Max. | M<br>+0.2<br>-0 | ØQ<br>±0.1 |
|--------------|-------------------------------------|------------------|------------------------|-----------|-----------|-----------------|------------|
| <b>10 SL</b> | 9                                   | 18.2             | 2–9                    | 2.8       | 70        | 14.3            | 21.8       |
| <b>14 S</b>  | 11                                  | 24.5             | 2–11                   | 3.3       | 70        | 14.5            | 28.8       |
| <b>16 S</b>  | 11                                  | 27.2             | 2–11                   | 3.3       | 70        | 14.5            | 30.5       |
| <b>16</b>    | 11                                  | 27.2             | 2–11                   | 3.3       | 80        | 19.1            | 30.5       |
| <b>18</b>    | 11 / 18                             | 30.7             | 2–11 / 2–16.5          | 4.0       | 80        | 19.1            | 33.8       |
| <b>20</b>    | 11 / 18                             | 34.0             | 2–11 / 2–16.5          | 4.0       | 80        | 19.1            | 36.9       |
| <b>22</b>    | 18                                  | 37.3             | 2–16.5                 | 4.0       | 80        | 19.6            | 39.5       |
| <b>24</b>    | 18 / 22 / 24                        | 40.9             | 2–16.5 / 15–20 / 19–24 | 4.0       | 90        | 20.6            | 43.9       |
| <b>28</b>    | 18 / 22 / 24                        | 46.7             | 2–16.5 / 15–20 / 19–24 | 4.0       | 90        | 20.7            | 48.4       |
| <b>32</b>    | 22 / 24                             | 53.4             | 15–20 / 19–24          | 4.0       | 90        | 22.3            | 56.0       |
| <b>36</b>    | Contact the factory for information |                  |                        |           |           |                 |            |
| <b>40</b>    |                                     |                  |                        |           |           |                 |            |

**B**

**TABLE II: MODIFICATION CODES**

| CONTACT OPTIONS                                          |                                     |
|----------------------------------------------------------|-------------------------------------|
| Sym                                                      | Description                         |
| B0                                                       | Connector Less Contacts             |
| B1                                                       | Connector with Gold Plated Contacts |
| Omit for standard version (Silver plated)                |                                     |
| FINISH OPTIONS                                           |                                     |
| Sym                                                      | Description and RoHS compliant (*)  |
| F2                                                       | Bright Nickel Plating (*)           |
| F6                                                       | Black Electrodeposited Paint (*)    |
| F7                                                       | Black Zn-Co Plating (*)             |
| F8                                                       | Olive Drab Zn-Co Plating            |
| F11                                                      | Electroless Nickel (*)              |
| Omit for standard version<br>(Cadmium Olive Drab Finish) |                                     |