Reduced Size I/O, 16 Position
XX-9257

An I/O interconnect system designed for portable equipment. AVX offers this plug and socket reduced size system as a standard product. The fixed SMT socket is designed to be mounted on a PCB and housed within a portable device. The plug is designed for cable termination with options of single and double sided contacts and customizing the overmold cover or parts can be supplied as connector only for sub contract termination. The socket connector houses 16 contacts in two rows on 1.25mm pitch with a rating of 1 amp per contact. Both connectors are RoHS compliant.

APPLICATIONS
- Cellular Phones
- Handheld Devices
- Industrial Modules
- Medical Electronics

FEATURES AND BENEFITS
- No latching is required due to the click design of the contacts.
- Optional customization of the overmold cover.
- Options of single row (8 way) or dual row (16 way) plug connector.
- Compact size to optimize PCB real estate.
- Metal outer cover provides integrated PCB location and solder tab.
- Positive alignment and orientation of the plug and socket.
- 5K mating cycles and 1 amp rated.

ELECTRICAL
- Current Rating: 1 Amp / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL
- Operating Temperature: -55°C to +85°C

MECHANICAL
- Insulator Material: Nylon 46; UL94 V-O
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5,000 Cycles

HOW TO ORDER

Plug Options – Example

<table>
<thead>
<tr>
<th>Prefix</th>
<th>10</th>
<th>Series</th>
<th>9257</th>
<th>No of Ways</th>
<th>0XX</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 = Plug</td>
<td>008 = 8 Way – One side of the moulding loaded with contacts</td>
<td>016 = 16 Way – Both sides of the moulding loaded with contacts</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact</th>
<th>001</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 = Solder Bucket</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating Option</th>
<th>003</th>
</tr>
</thead>
<tbody>
<tr>
<td>003 = 0.8μm Selective Gold, Pure Tin Tail</td>
<td></td>
</tr>
</tbody>
</table>

Socket Options – Example

<table>
<thead>
<tr>
<th>Prefix</th>
<th>20</th>
<th>Series</th>
<th>9257</th>
<th>No of Ways</th>
<th>016</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 = Socket</td>
<td>016 = 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact</th>
<th>001</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 = SMT Termination</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solder Bracket with Location Pegs</th>
<th>01</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 = Solder Bracket</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating Option</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 = 0.8μm Selective Gold, Tin Tail</td>
<td></td>
</tr>
</tbody>
</table>

PACKING
- Parts packed in tubes
- 50 per tube

RoHS COMPLIANT
Reduced Size I/O, 16 Position

XX-9257

SINGLE SIDED 8 WAY I/O PLUG CONNECTOR

NOTES:
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS TOLERANCED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-089.
3. POSITIONS 2, 4, 6 ... 16 USED, POSITION 1, 3, 5 ... UNUSED.
Reduced Size I/O, 16 Position

XX-9257

DOUBLE SIDED 16 WAY I/O PLUG CONNECTOR

SECTION Z-Z

50 PARTS PER TUBE

NOTES:
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS TOLERANCED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-089.
3. POSITIONS 2, 4, 6 ... 16 USED, POSITION 1, 3, 5 ... UNUSED.
SUGGESTED OVERMOULDING FOR PLUG CONNECTOR
(16 WAY – STANDARD STYLE)

NOTES:
1. STANDARD STRAIN RELIEF MOULDING.
2. DIMENSION MARKED WITH A * ARE VARIABLE DIMENSION TO SUIT CUSTOMER DESIGN AND APPLICATION.
3. TYPICALLY FOR CABLE OUTER JACKET DIAMETERS ABOVE 4.50MM.
SUGGESTED OVERMOULDING FOR PLUG CONNECTOR
(16 WAY – SLIM STYLE)

NOTES:
1. STANDARD STRAIN RELIEF MOULDING.
2. DIMENSION MARKED WITH A * ARE VARIABLE DIMENSION TO SUIT CUSTOMER DESIGN AND APPLICATION.
3. TYPICALLY FOR CABLE OUTER JACKET DIAMETERS ABOVE 4.50MM.
NOTES:
1. PROPOSAL FOR 16 WAY I/O SOCKET.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELECO SPEC 201-01-089.
3. GENERAL TOLERANCE ±0.20MM UNLESS OTHERWISE STATED.
4. SMT FEET WITHIN ±0.10MM COPLANARITY.