The 9157 series was specifically designed for portable equipment. AVX now offers this two-part system as a standard product. The fixed SMT socket is designed to be housed within the confined dimensional constraints of the portable device. The plug/cover connector has sprung contacts and is designed for termination to accessory equipment. The connector is designed to house fifteen signal contacts on a 1mm pitch rated at 1.5A. There is the option to include a switching RF coax.

A cradle SMT plug connector for docking applications is also available as standard and has the option of including a SMT RF coax. Whatever your requirements, the 9157 series can also be customized to suit your application.

**APPLICATIONS**
- Mobile Phones
- PDA
- Medical
- Docking/Charging for any portable device

**FEATURES AND BENEFITS**
- Patented 20° angled face on the socket gives self-cleaning face when mated with plug.
- Metal Latching area integral to socket which saves PCB real estate.
- Integral to socket is a mechanical 50Ω switching coax for SMT termination.
- Single sprung plug contact design gives ten thousand mating cycles and cleaning/wiping action.
- Customer has option to terminate own RF coax using AVX custom tooling: 06-9157-7116-01-000.
- SMT plug has unique location pyramids that give positive alignment to portable device, and assist blind mating.
- RoHS Compliant.

**ELECTRICAL**
- Current Rating: 1.5 Amps / Contact
- Voltage Rating: 125 VAC

**ENVIRONMENTAL**
- Operating Temperature: -55°C to +125°C

**MECHANICAL**
- Insulator Material: Glass-Filled Nylon 46; UL94 V-O
- Contact Material: Beryllium Copper (plug) Phosphor Bronze (socket)
- Plating: Gold over Nickel
- Durability: 10,000 Cycles

**HOW TO ORDER**

### Plug Options – Example

**Prefix**
- 10 = Plug
- 58 = Special

**Series**
- 9157

**No of Ways**
- 15 = 015

**RF Coax Option**
- 000 = No RF Coax
- 001 = With RF Coax

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<th>Code</th>
<th>Contact Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>006</td>
<td>Wire</td>
<td>Nickel, Gold Nose, Pure Tin Tail</td>
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<tr>
<td>007</td>
<td>SMT</td>
<td>Nickel, Gold Nose, Pure Tin Tail</td>
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</tbody>
</table>

**Socket Options – Example**

**Prefix**
- 20 = Socket
- 58 = Special

**Series**
- 9157

**No of Ways**
- 15 = 015

**RF Coax Option**
- 000 = No RF Coax
- 001 = With RF Coax

**Contact Type**
- 006 = SMT

**Packing Details**

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<th>Type</th>
<th>Size</th>
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<td>NA</td>
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<tr>
<td>SMT</td>
<td>300</td>
<td>Tape &amp; Reel</td>
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**Cover Options – Example**

**Prefix**
- 30 = Cover

**Series**
- 9157

**No of Ways**
- 15 = 015

**Grommet Variation**

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<tr>
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<tr>
<td>000</td>
<td>No Grommet</td>
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<td>050</td>
<td>5.0mm Grommet</td>
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**Packing Details**

Kit to be ordered in multiples of 580

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<tr>
<td>Cover Body</td>
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<td>Latch Button</td>
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<td>Metal Latch</td>
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<td>Grommet</td>
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<tr>
<td>Fixing Screw</td>
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<td>1160</td>
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</table>

**RoHS Compliance**

Patent: 2276285 5540599

FEBRUARY 2015 1
9157 PLUG WIRE WITHOUT COAX

NOTES:
1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
2. PACKED IN TUBES, 20 PIECES PER TUBE.
3. MINIMUM ORDER QUANTITY 580 PIECES, THEREAFTER TO BE SUPPLIED IN MULTIPLES OF 580.
4. FOR FULL PRODUCT INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.
9157 Plug SMT without Coax

NOTES:
1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
2. PACKED IN TAPE AND REEL, 300 PIECES PER REEL.
3. FOR FULL PRODUCT INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.
Standard I/O, 15 Position

XX-9157

9157 PLUG WIRE WITH COAX

SECTION B-B

CRIMPING DETAILS

PACKING DETAIL

NOTES:
1. TOOL TO CRIMP BARREL ELECO PART NUMBER 06-9157-7117-01-000.
2. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
3. PACKED IN TUBES, 20 PIECES PER TUBE.
4. MINIMUM ORDER QUANTITY 580 PIECES, THEREAFTER TO BE SUPPLIED IN MULTIPLES OF 580.
5. FOR FULL PRODUCT INFORMATION REFER TO ELECO SPECIFICATION 201-01-079.
Standard I/O, 15 Position

9157 PLUG SMT WITH COAX

NOTES:
1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
2. PACKED IN TAPE AND REEL, 300 PIECES PER REEL.
3. FOR FULL PRODUCT INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.
Standard I/O, 15 Position
XX-9157

9157 SOCKET WITHOUT COAX

NOTES:
1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
2. FOR FULL INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

RECOMMENDED PCB LAYOUT

SECTION A-A
Standard I/O, 15 Position

XX-9157

9157 SOCKET WITH COAX

NOTES:
1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
2. FOR FULL INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

SECTION A-A
Standard I/O, 15 Position

XX-9157

30-9157-9700-00-XXX
PRESS AND SCREW VERSION

COVER KIT SHOWN FULL ASSEMBLED
WITH PLUG ASSEMBLY 10-91557-015-XXX-001

NOTES:
3FOR FULL PRODUCT INFORMATION REFER TO
ELCO SPECIFICATION 201-01-079.