AVX MOBO™ Spring Contact Interconnect Solutions



Version 7.1



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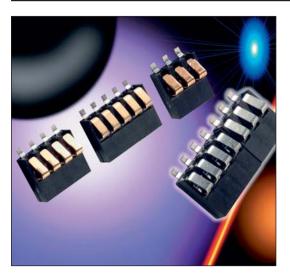
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9155 Standard Battery





GENERAL DESCRIPTION

The standard battery connector is specifically designed for mobile equipment. The connectors are available in 3, 4 and 5 contact positions all on a 2.50mm pitch. The insulator height provides a 3mm spacing, with various contact nose heights from 1.20mm to 2.60mm, to provide spacing options to the end user.

All contacts are stamped and are rated to 3A, with Gold plating. Parts are supplied in tape and reel for automatic pick and place. Optional retaining brackets are available to provide greater strength when connected to the PCB.

Whatever your requirements, the 9155 series Battery Connector can also be customized to suit your applications.

APPLICATIONS

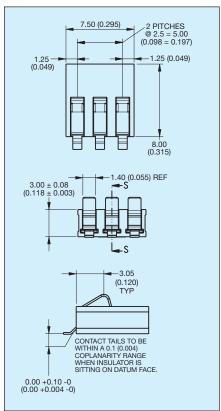
- Mobile Phones
- PDA
- Medical
- PMR
- Industrial

KEY FEATURES AND BENEFITS

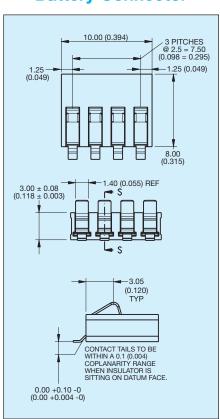
- Suitable for 5000 mechanical cycles.
- · Variety of contact heights offered to suit different mechanical designs.
- Connectors can be end to end stackable.
- RoHS Compliant available.



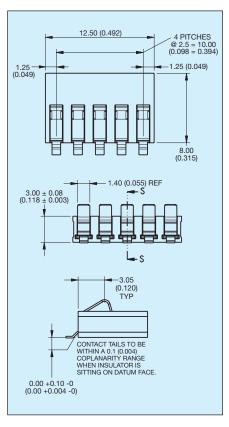
3 Way Battery Connector



4 Way Battery Connector



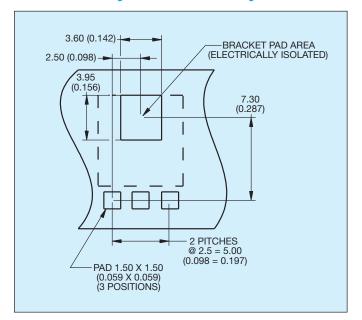
5 Way Battery Connector



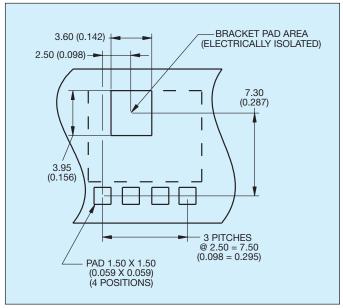
9155 Standard Battery



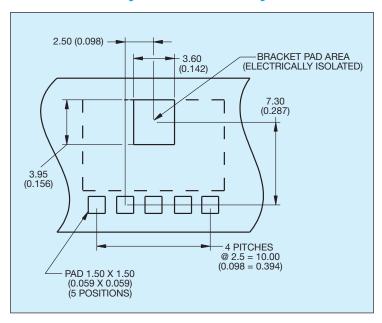
3 Way PCB Board Layout



4 Way PCB Board Layout



5 Way PCB Board Layout



HOW TO ORDER 00 00 6 9155 003 00 **Contact Height Plating Option** Prefix **Series Bracket** No of Standard Battery 1 = 1.20 (0.047) / 1.50 (0.059) 00 = Standard00 = No Bracket 6 = 0.4µm Selective Gold, Ways Connector 58 = Special 00 = Standard Force 2 = 1.80 (0.071) / 2.10 (0.083)01 = With Bracket Pure Tin Tail 3 = 0033 = 2.30(0.091) / 2.60(0.102)8 = 0.8µm Selective Gold, 4 = 004Pure Tin Tail 5 = 005

9155 Size Reduced Battery Connector

GENERAL DESCRIPTION

The newest product in AVX's Interconnect family of battery connectors saves 50% in volume over the initial 9155 series compression connectors as illustrated in the photograph. These connectors are rated at a full 3 amps per contact on 2.5mm centers. Sizes range from 2 positions through 5 positions and are end to end stackable.

APPLICATIONS

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

KEY FEATURES AND BENEFITS

- 2.4mm insulator height
- 3 amps/contact
- Large SMT mounting area for positive mechanical attachment
- 5k mating cycles
- End-to-end stackable





HOW TO ORDER





Code	No. of Ways	Reel Qty	Packing Qty
002	2	2000	2000
003	3	2000	2000
004	4	2000	2000
005	5	2000	2000



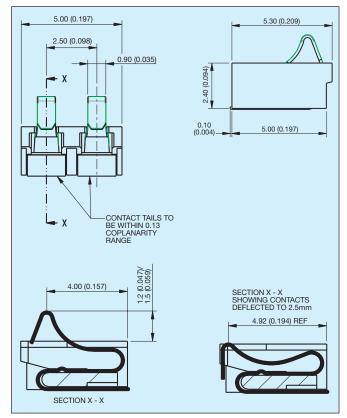
Code	Description
201	Reduced Size Battery Connector



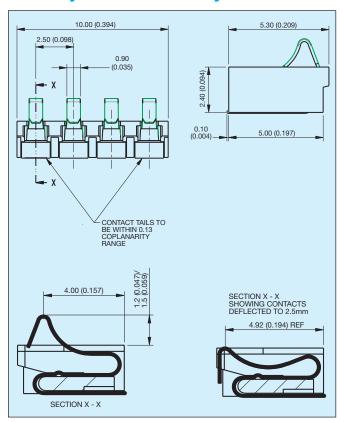
Code	Description
006	0.4µm Selective Gold, Pure Tin Tail
800	0.8µm Selective Gold, Pure Tin Tail

9155 Size Reduced Battery Connector

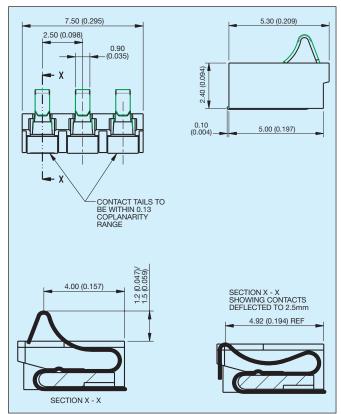
2 Way Reduced Battery Connector



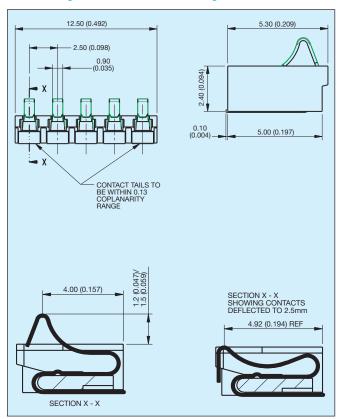
4 Way Reduced Battery Connector



3 Way Reduced Battery Connector



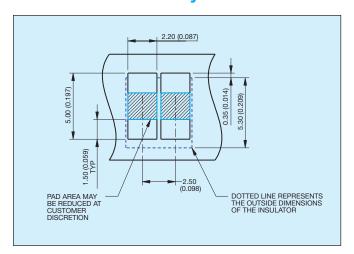
5 Way Reduced Battery Connector



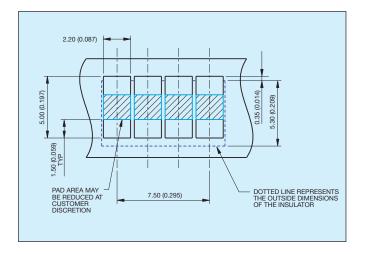


9155 Size Reduced Battery Connector

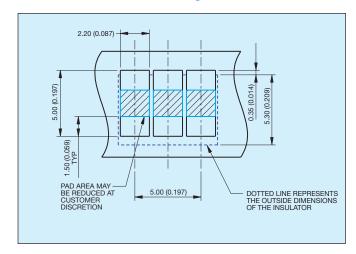
2 Way Reduced Battery Connector PCB Layout



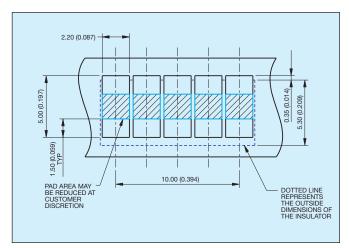
4 Way Reduced Battery Connector PCB Layout



3 Way Reduced Battery Connector PCB Layout



5 Way Reduced Battery Connector PCB Layout



9155 Ultra-Low Profile Battery



GENERAL DESCRIPTION

The AVX Interconnect group has released a new ultra-low profile 3 amp per contact connector for battery pack or slide-in module applications. The compressed "Z" axis height of 1.3mm leads the industry from a profile standpoint. The initial product is in a 2 & 3 position configuration with other sizes expected to follow. The connector has an integral end block to act as a mechanical stop.

APPLICATIONS

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

KEY FEATURES AND BENEFITS

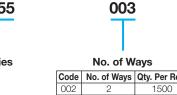
- Ultra-Low Profile
- 3 amps/contact
- Integral End Stop
- 5k mating cycles





HOW TO ORDER





No. of Ways							
Code	No. of Ways	Qty. Per Reel					
002	2	1500					
003	3	1200					



Code	Description	Operating Height
101	Low Profile Battery Connector	1.30 (0.051)



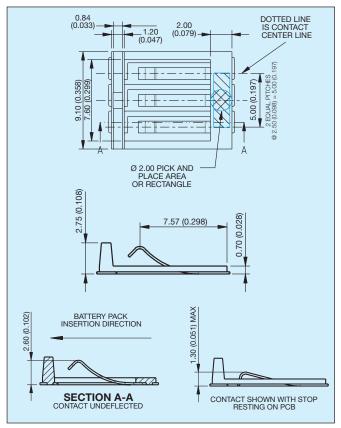
Plating Option

Code	Description
006	0.4µm Selective Gold, Pure Tin Tail
008	0.8µm Selective Gold, Pure Tin Tail

2 Way Low Profile Battery Connector

2.00 1.20 ^(0.079) (0.098)DOTTED LINE IS CONTACT CENTER LINE 2.50 6.60 (0.260) 5.10 (0.201) Ø 2.00 PICK AND PLACE AREA OR RECTANGLE 2.75 (0.108) 0.70 (0.028) 7.57 (0.298) .30 (0.051) MAX BATTERY PACK INSERTION DIRECTION (0.102)SECTION A-A CONTACT UNDEFLECTED CONTACT SHOWN WITH STOP

3 Way Low Profile Battery Connector

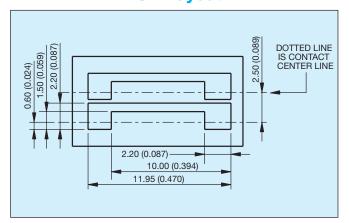




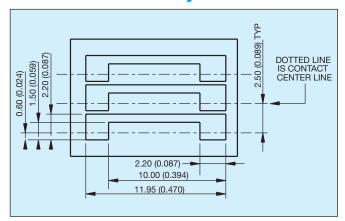
9155 Ultra-Low Profile Battery



2 Way Low Profile Battery Connector PCB Layout



3 Way Low Profile Battery Connector PCB Layout



9155 MOBO[™] Solderless Battery Connectors





GENERAL DESCRIPTION

As an addition to our range of Battery connectors we have added a solderless termination option. This option has the termination area gold plated and the contact form is compression to the PCB and to the Battery which is used in the end equipment.

Rated at 3 Amps and 5,000 operations (the same as the SMT version). These battery connectors compliment the existing standard range of RoHS compliant components giving the designer an added option of the solderless termination.

When these connectors are held in place by the casing of the end equipment, the connection to the PCB is achieved by compressing the connector contacts against the PCB and against the actual battery. It is the housing which maintains the connection.

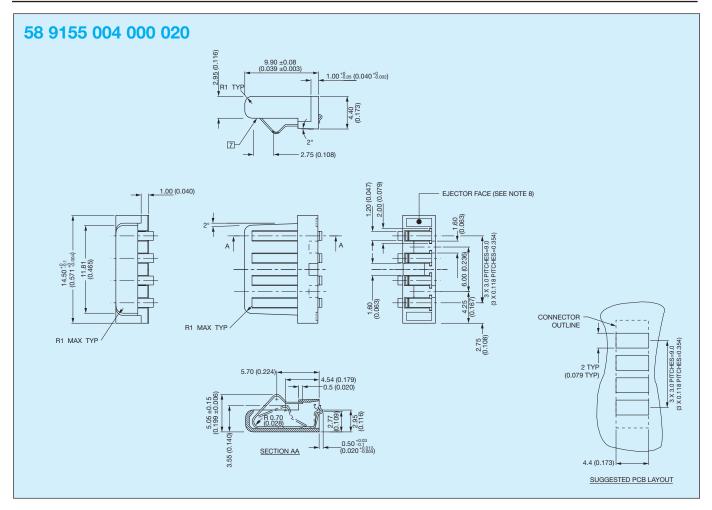
AVAILABLE DEVICES:

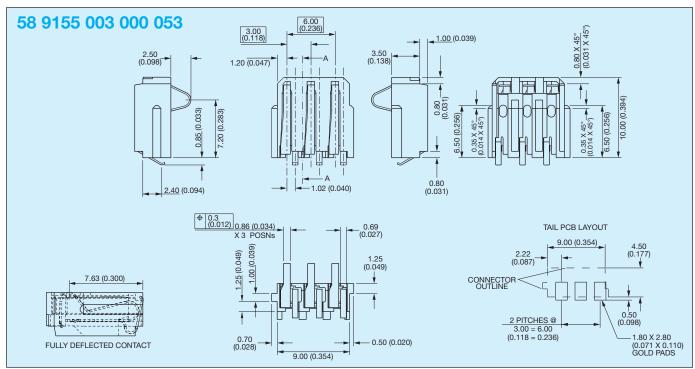
4 way: 58 9155 004 000 020 3 way: 58 9155 003 000 053



9155 MOBO[™] Solderless Battery Connectors







9162 Slide-In SIM Card Connector





GENERAL DESCRIPTION

The standard SIM connector is specifically designed for handheld devices requiring secure subscriber identification.

Following on from the introduction of our standard SIM block with an offering of 3 standard heights, 0.80mm, 1.60mm, or 2.40mm, AVX is now adding another standard to the 9162 series SIM connectors, the slide-in SIM.

Unlike SIM blocks which require SIM card guides to aid insertion, removal and retention of the SIM card, the slide-in SIM has guides as part of the connector mold design.

Contacts are stamped, gold plated, rated 0.5A, and 5000 mechanical cycles. Our contact design is specifically rounded to avoid any possible damage during and after card insertion to the card itself, assuming normal use. The design also incorporates protection features to avoid contact damage during

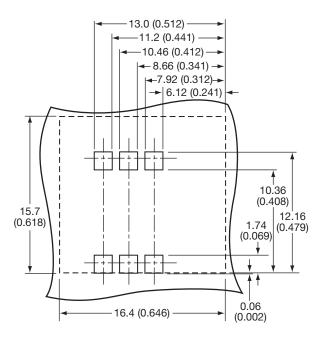
Please contact the appropriate sales office for further details of this service.

KEY FEATURES AND BENEFITS

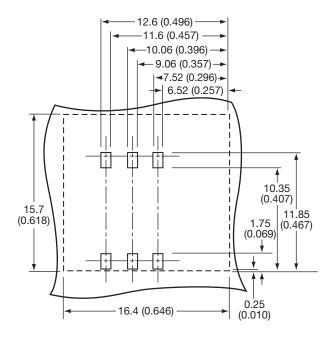
- Produced for use with micro SIM cards.
- The insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared soldering processes.
- Supplied on tape and reel packaging for pick and place assembly.
- The all plastic design, assuming normal use prevents damage to the SIM card on insertion.
- Optional SMT contact size: Standard SMT contact size - 1.60mm x 1.60mm Narrow SMT contact size - 1.05mm x 0.60mm
- RoHS Compliant available.



Standard SMT Contact Layout



Narrow SMT Contact Layout

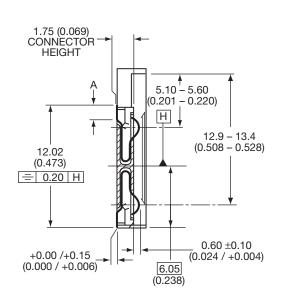




9162 Slide-In SIM Card Connector

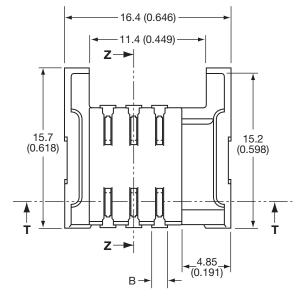


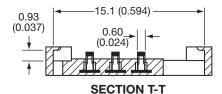
Connector Height 1.75mm



SECTION Z-Z

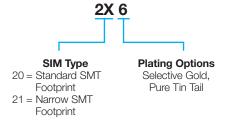
	Standard	Narrow
Α	1.46 (0.057)	1.05 (0.041)
В	1.60 (0.063)	0.60 (0.024)





HOW TO ORDER

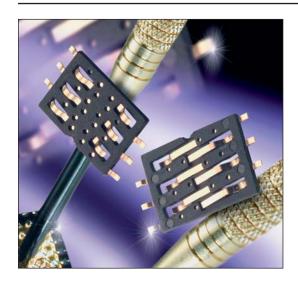






9162 SIM Card Block





GENERAL DESCRIPTION

The standard SIM connector is specifically designed for handheld devices requiring secure subscriber identification.

The connectors are available in a standard 6 pin configuration on a 2.54mm pitch and at optional heights of 0.8mm, 1.6mm or 2.4mm.

Contacts are stamped, gold plated, rated at 0.5A, and 5000 mechanical cycles.

Our contact design is specifically rounded to avoid any possible damage during and after card insertion to the card itself, assuming normal use. The design also incorporates protection features to avoid contact damage during this operation such as contact snagging.

In addition to our offering presented here, other operating heights are available as custom alternatives.

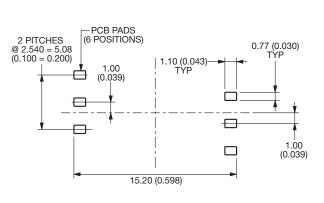
Please contact the appropriate sales office for further details of this service.

KEY FEATURES AND BENEFITS

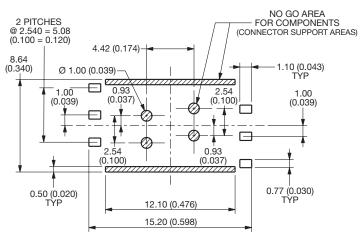
- Produced for use with both full ISO cards and micro SIM cards.
- Stand-off designs allow other components to be mounted underneath the connector offering greater effective use of PCB real estate.
- The insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared soldering processes.
- Supplied on tape and reel packaging for pick and place assembly.
- RoHS Compliant.



0.8mm PCB Pad Layout



1.6mm / 2.4mm PCB Pad Layout

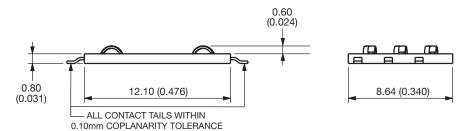


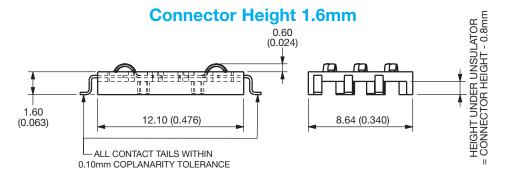


9162 SIM Card Block

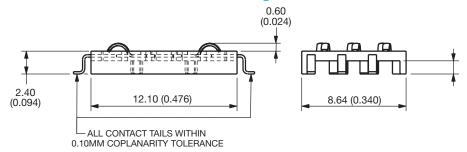


Connector Height 0.8mm





Connector Height 2.4mm



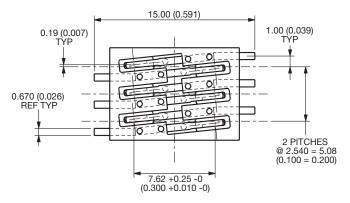
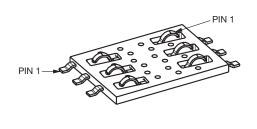


Illustration of Pin Configuration



HOW TO ORDER









SIM Type 006 = Selective Gold, Pure Tin Tail

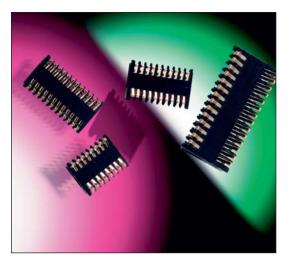


080 = 0.8mm stack height 160 = 1.6mm stack height 240 = 2.4mm stack height



9158 SOLO STACKER™





GENERAL DESCRIPTION

The MOBO™ series 9158 is a one-piece connector used to connect two PCBs within mobile phones, pagers, PDAs, security, handheld scanners, etc. in a cost-effective manner.

A standard range is available with 16, 20, 24 and 28 contacts to suit stack heights of 1.90mm to 3.30mm. Other contact variants are also available up to 5.10mm, in custom housings. The SOLO STACKER $^{\text{TM}}$ can allow a spacing tolerance of up to ± 0.30 mm and still provide reliable connections between the PCBs, even if they are not parallel.

SOLO STACKER™ is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the boards.

Whatever your requirements this SOLO STACKER™ can also be customized to suit your applications.

APPLICATIONS

Suitable applications include:

- Mobile Phones
- PDA
- Medical
- PMR
- Industrial
- Security
- Handheld Scanner

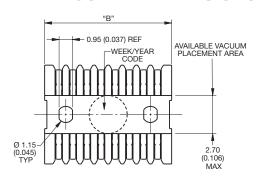
KEY FEATURES AND BENEFITS

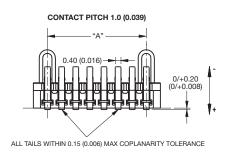
Single piece Connector – no mating half connector required to connect two boards together which means:

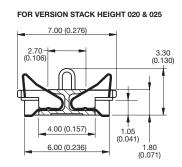
- · Reduced assembly time.
- Only one part to purchase and stock.
- Due to the unique contact design, the mating device does not have to be parallel.
- Extremely robust when subjected to shock and vibration.
- · Cost effective.
- Helps reduce tolerance accumulation within system.



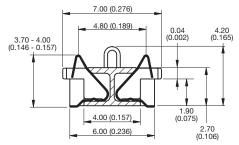
DRAWINGS AND DIMENSIONS







FOR VERSION STACK HEIGHT 030



Number of Positions	Part Number	Α	В
16	00-9158-016-XXX-XXX	7	9.00
20	00-9158-020-XXX-XXX	9	11.00
24	00-9158-024-XXX-XXX	11	13.00
28	00-9158-028-XXX-XXX	13	15.00

A = Number of contact pitches at 1mm

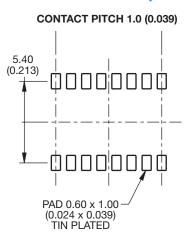
B = Connector Length

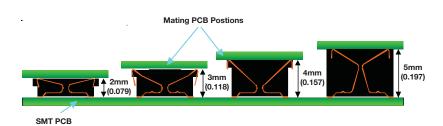


9158 SOLO STACKER™



SMT PCB Footprint



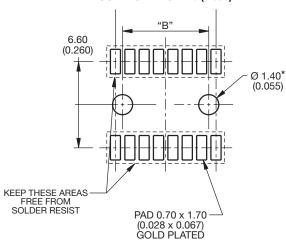


Mating		Standard Positions Special Positions									
Height	16	20	24	28	32	4	18	28	30	34	40
2mm	Х	Х	Х	Х	Х					Х	
3mm	Х	Х	Х	Х	Х						
4mm						Х	Х	Х			Х
5mm									Х		

Other sizes available on request.

Mating PCB Footprint for version stack height 020 & 030

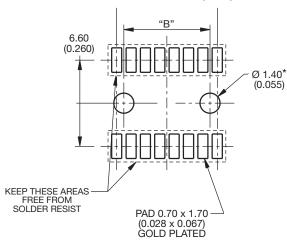
CONTACT PITCH 1.0 (0.039)



^{*} Used for Boss versions only.

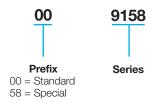
Mating PCB Footprint for version stack height 025

CONTACT PITCH 1.0 (0.039)



В	Dim
16	6.00 (0.236)
20	8.00 (0.315)
24	10.00 (0.394)
28	12.00 (0.472)

HOW TO ORDER



XXX No of

No of Ways 16 = 016 20 = 020 24 = 024 28 = 028



Stack Height020 = 1.9mm to 2.1mm
025 = 2.1mm to 2.7mm
030 = 2.8mm to 3.3mm



Plating Variation
06 = Selective Gold
0.25µm
Gold Plated
Contact Nose,
Pure Tin Tail



PCB Location Bosses

1 = With PCB Location Bosses 2 = Without PCB Location Bosses





RoHS



GENERAL DESCRIPTION

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

Suitable applications include:

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

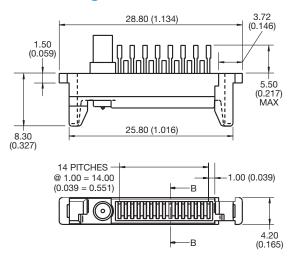
KEY FEATURES AND BENEFITS

- 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.
- \bullet 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 available.

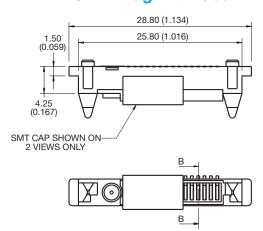


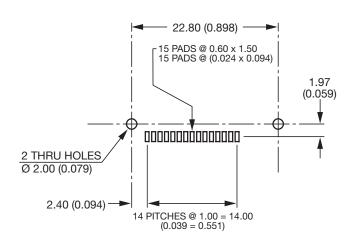


Plug Wire with Coax



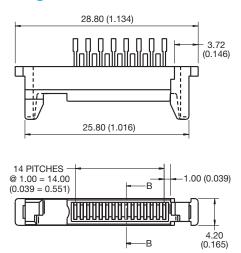
SMT Plug with Coax



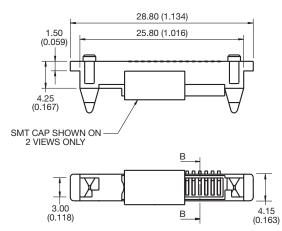


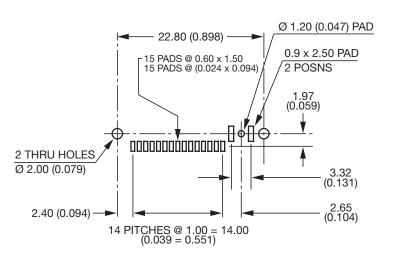
SUGGESTED PCB LAYOUT

Plug Wire without Coax



SMT Plug without Coax



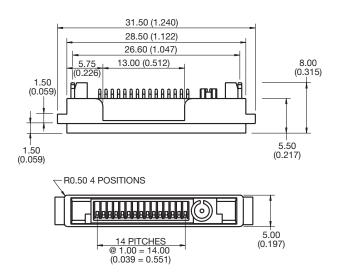


SUGGESTED PCB LAYOUT

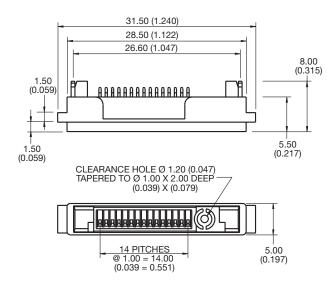




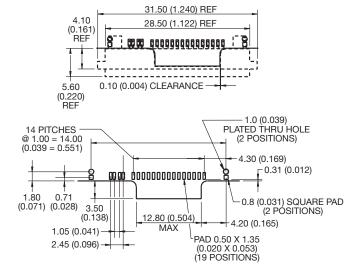
SMT Socket with Coax

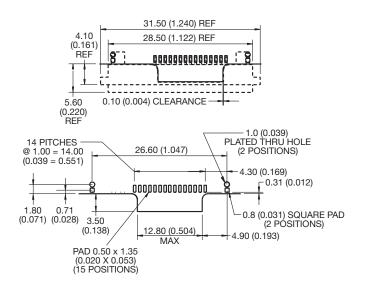


SMT Socket without Coax



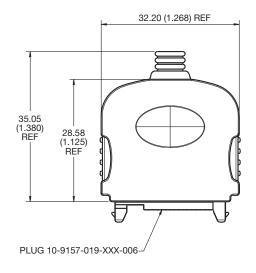
SMT PAD LAYOUT

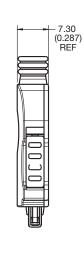






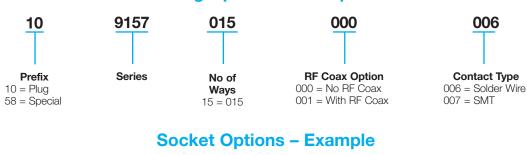
Cover Kit

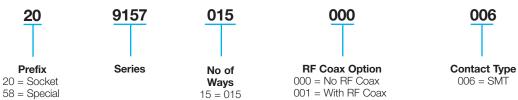




HOW TO ORDER

Plug Options - Example





Cover Options – Example * Parts supplied in kit form



Patent: 2276285 5540599

Note: Application tooling to terminate coax cable 06-9157-7116-01-000.



9157 MOBO[™] 19 Way I/O Connector





GENERAL DESCRIPTION

Based on our standard 15 way 9157 I/O family, AVX has now released a family 19 way devices. This range includes a SMT 90 degree plug, a wire socket version that is used with the standard 9157 cover and a SMT socket for charging applications.

Options with the 90 degree SMT socket include the sealing of the connector contacts and the connector to the housing up to IP67. There is also an option to have an EMLB (early mate, late break) on pins 1 and 19.

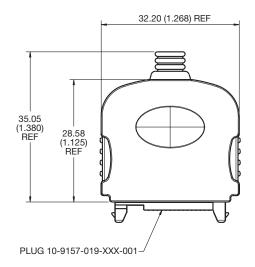
To achieve the seal to the device housing, it may be necessary to customize the device housing design.

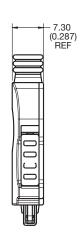
On the SMT 90 degree version, we also have the capability of an integrated DC jack, enabling both the DC jack and the 19 way cover to be plugged in at the same time.

AVAILABLE DEVICES:

10 9157 019 000 006 10 9157 019 000 007 20 9157 019 000 006 30 9157 97 XX 00 000 Plug wire version SMT charging version 90 degree SMT socket Cover options see page 19

Cover Kit

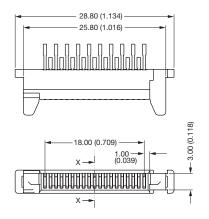




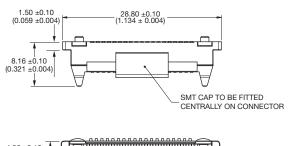
9157 MOBO[™] 19 Way I/O Connector



Plug Wire

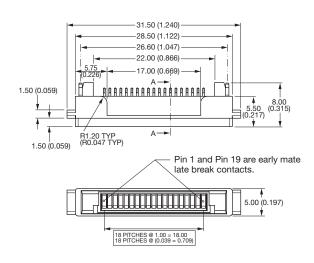


SMT Plug

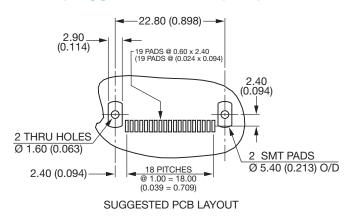




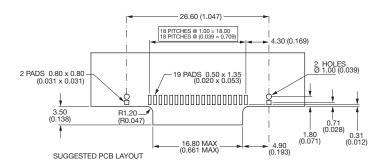
SMT Socket



SMT Plug (Suggested PCB Layout)



SMT Socket (Suggested PCB Layout)





9151/9152/9153 MOBO[™] High Reliability Spring Pin Connectors





GENERAL DESCRIPTION

To compliment the stamped and formed spring technology, we have available a range of spring pin devices used in high reliability battery and I/O applications. These applications range from secure radio I/O, microphone cable connections, battery backed medical equipment, logistics terminals and military equipment.

This flexible capability combines standard contacts with custom molded housings. These can vary in size, shape and termination style, for example flex, PCB and cable. The available contact options enables us to offer a wide range of variations.

Within the range we can offer options of turned pins for both plug and socket (9151), or turned pin socket (9152) and stamped plug (9153).

Custom designs from the product ranges include:

- Integrated coax connections
- Sealing up to IP68
- Variations for contact layout, (eg single row, dual row, circular and grid)
- Screw fixing of the plug to the socket from the cover
- · Latch fixing of the plug to the socket from the cover
- Die cast covers for military applications
- Polarization of covers on a multi-connector device
- 90 degree and in-line covers
- Variation of the contact pitch



9257 Reduced Size I/O Connector





GENERAL DESCRIPTION

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

Suitable applications include:

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

KEY 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.

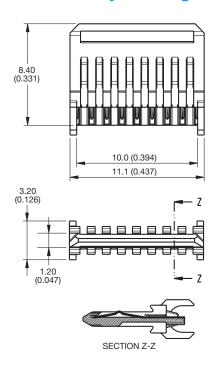


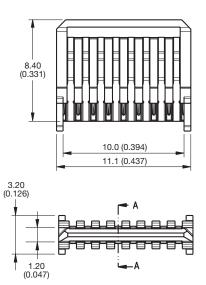
9257 Reduced Size I/O Connector



Single Sided 8 Way I/O Plug Connector

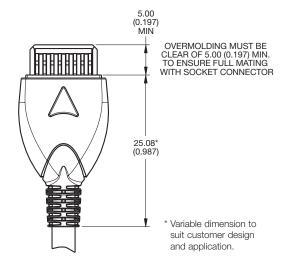
Dual Sided 16 Way I/O Plug Connector



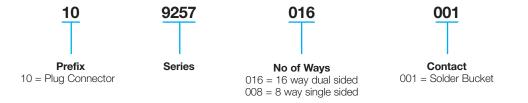


SECTION A-A

Suggested Overmolding for Plug Connector



HOW TO ORDER



Notes:

- 1. All dimensions are for reference only unless toleranced.
- 2. For full product specification refer to AVX spec 201-01-089.

003

Plating Option

003 = 0.8µm Selective Gold,

Tin Tail

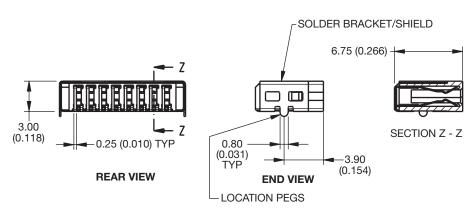
3. Parts packed in tube with 50 parts per tube.

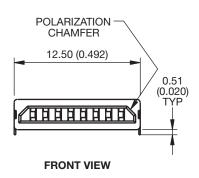


9257 Reduced Size I/O Connector

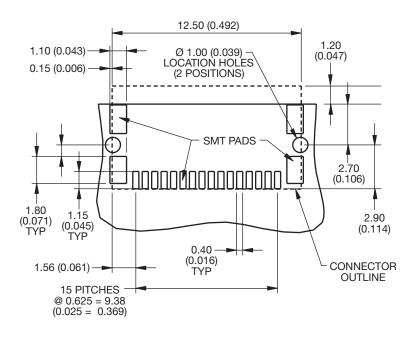


16 Position I/O Socket





PCB Layout



HOW TO ORDER



Packing Details				
Reel Qty.	1100			
Pack Qty.	5500			

Notes:

- 1. 16 Way I/O Socket.
- 2. For full product specification refer to AVX spec 201-01-089.
- 3. General tolerance ± 0.20 (0.008) unless otherwise stated.
- 4. SMT feet within 0.13 (0.005) coplanarity.





Wire to Board IDC Connector





The 9175 series from AVX offers customers the ability of connecting individual wires to a single row of contacts using IDC technology.

Available as a 2 or 3 pin connector it is both low profile and has a small PCB footprint. The connector is SMT assembled to the PCB prior to assembly of the wire.

Using a small application tool, the wires are then inserted into the contact slot. This process cuts the insulation and enables the individual conductors of the wire to form a homogeneous joint. The shape of the molding also forms a restraint to the wire when fully inserted in the contact. These connectors are supplied in tape and reel for easy pick and place. The wire options are 28 or 26 AWG solid or stranded wire.

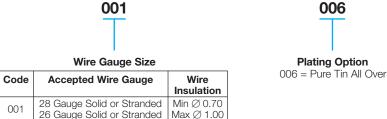
APPLICATIONS

- PCB to PCB individual wire interconnect
- High volume and high speed assembly
- Device to PCB interconnect (coils, sensors, etc.)

FEATURES AND BENEFITS

- Small single row IDC
- Rated at 1 amp
- Uses both stranded and solid wire (26 or 28 AWG)
- Insulators are end to end stackable for higher pin counts
- Uses simple hand tool for higher volume applications







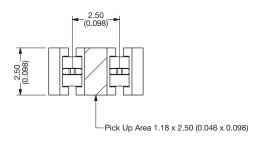
006

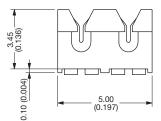


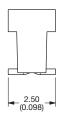
Wire to Board IDC Connector



2 WAY IDC CONNECTOR



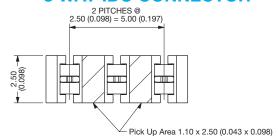


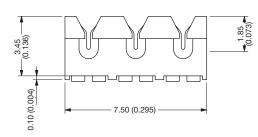


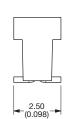
SMT PCB LAYOUT

PURE TIN PADS

3 WAY IDC CONNECTOR

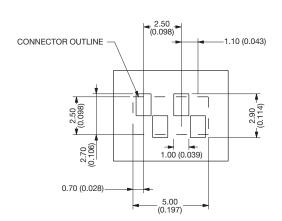


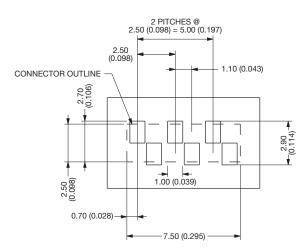




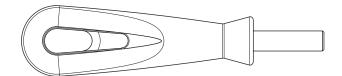
SMT PCB LAYOUT

PURE TIN PADS





HAND INSERTION TOOLING



UNIVERSAL HANDLE

Details	Tool Part Number
6.35 A/F HEX BIT HOLDER	06 7000 7730 01 000



HIGH PRODUCTION Metal

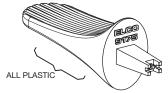
Max Insulation Dia	Tool Part Number
Ø 1.00	06 9175 7017 01 000



MED PRODUCTION Metal/Plastic

Wictal/T lastic	
Max Insulation Dia	Tool Part Number
Ø 1.00	06 9175 7016 01 000



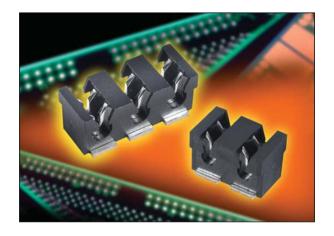


LOW PRODUCTION Plastic

Max Insulation Dia	Tool Part Number
Ø 1.00	06 9175 7004 01 000







The 9176 series from AVX offers customers the ability of connecting individual wires to a single row of contacts using IDC technology.

Available as a 2 or 3 pin connector it is both low profile and has a small PCB footprint. The connector is SMT assembled to the PCB prior to assembly of the wire.

Using a small application tool, the wires are then inserted into the contact slot. This process cuts the insulation and enables the individual conductors of the wire to form a homogeneous joint. The shape of the molding also forms a restraint to the wire when fully inserted in the contact. These connectors are supplied in tape and reel for easy pick and place. The wire options are 18 to 24 AWG stranded wire.

APPLICATIONS

- PCB to PCB individual wire interconnect
- Device to PCB interconnect (LED Modules and LED Strips)

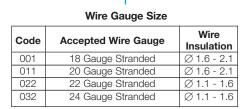
HOW TO ORDER 00 9176 002 Prefix Series Number of Ways

002 = 2

003 = 3

FEATURES AND BENEFITS

- Small single row IDC
- Rated at 10 amps
- Uses both stranded wire (18 to 24 gauge)
- Insulators are end to end stackable for higher pin counts
- Uses simple hand tool for higher volume applications



001



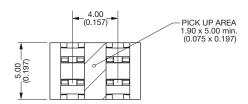




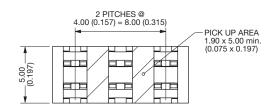
Wire to Board Strip IDC Connector

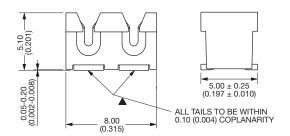


2 WAY IDC CONNECTOR



3 WAY IDC CONNECTOR

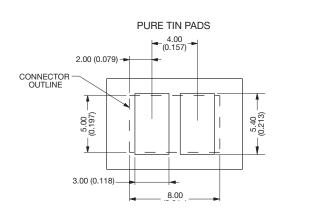


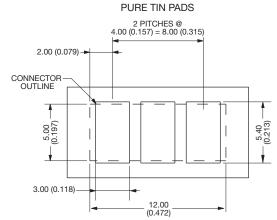


5.00 ± 0.25 (0.197 ± 0.010) 0.05-0.20 (0.002-0.008) ALL TAILS TO BE WITHIN 0.10 (0.004) COPLANARITY 12.00 (0.472)

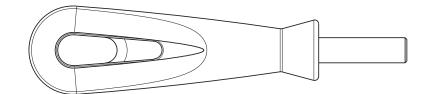
SMT PCB LAYOUT

SMT PCB LAYOUT



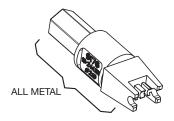


HAND INSERTION TOOLING



UNIVERSAL HANDLE

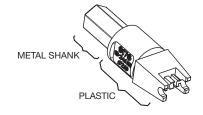
Details	Tool Part Number
6.35 A/F HEX BIT HOLDER	06 7000 7730 01 000



HIGH PRODUCTION

Metal

Max Insulation Dia	Tool Part Number
Ø 2.10	06 9176 7017 01 000
Ø 1.60	06 9176 7017 02 000



MED PRODUCTION Metal/Plastic

Max Insulation Dia	Tool Part Number
Ø 2.10	06 9176 7016 01 000
Ø 1.60	06 9176 7016 02 000



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