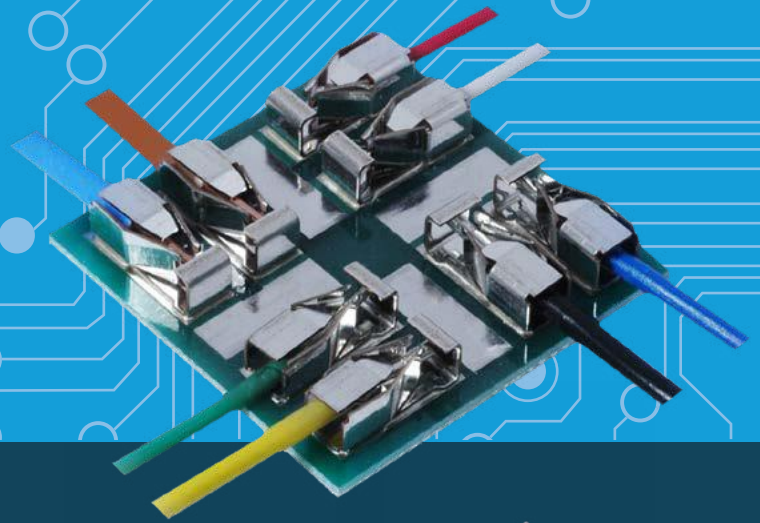
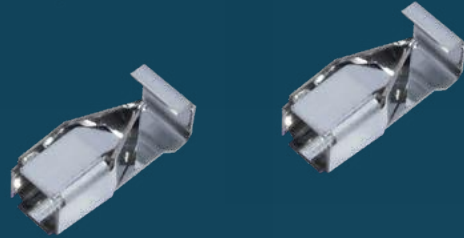


# CONNECTOR SELECTOR GUIDE



## CONTACT TECHNOLOGIES

- STRIPT™
- INSULATION DISPLACEMENT (IDC)
- POKE-HOME
- 1-PIECE COMPRESSION



# AVX INTERCONNECT: DECADES OF CONTACT TECHNOLOGY

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AVX Interconnect (formerly Elco Corporation) has been producing connectors since 1947. Throughout the years, our commitment to designing innovative and demanding contact systems has allowed us integrate new materials and process in each generation.

## 1970'S/1980'S

AVX expands the VARICON hermaphroditic contact system into mission critical military and space applications. Based on a patented tuning fork style contact with four self-cleaning (wiping) surfaces, the connection provides a gas-tight, ultra-low contact resistance and high current carrying capabilities.

AVX develops and patents the very first eye-of-the needle compliant pin press-fit zone (VARIPIN) for the telecom backplane market. This new technology provided a solderless connection to the PCB in complex systems, allowing for individual pin replacement in the field.

## 1990'S/2000'S

The VARIPIN compliant pin goes into a second generation design in 1991 to achieve qualification under IEC, DIN and M55302 specifications to meet harsh industrial and military applications. Later in this decade, a third generation was optimized to meet the emerging and demanding requirements in automotive electronics. Today, a high percentage of the automotive connectors selected for critical systems such as Passive Safety, ABS/ESP and ESP utilize compliant pin technology. Providing a cold-welded connection to the PCB, these connectors have proven to be reliable for almost 20 years.

AVX pioneered and patented the very first one-piece compression BTB contact technology to offer cost savings (over two-piece) and large "Z" axis tolerance absorption capabilities. These gold plated, Beryllium Copper cantilever contacts provide fatigue resistant properties in a broad range of industrial and medical applications.

## 2010'S

Early in this decade, AVX introduced the very first SMT, harsh environment, Insulation Displacement Contact (IDC) technology which would meet automotive levels of temperature, shock and vibration in wire-to-board applications. Developing a cold-welded connection to the wire, the contact/connector can be potted or over molded without jeopardizing the connection in outdoor applications.

This decade has also realized the development and evolution of insulator-less connectors. Pioneered by AVX, this broad range of full functioning STRIPT™ contacts proved to be very robust in transportation and industrial applications. Included in this range of products are IDC, Poke-Home and compression style contacts, all of which have UL certifications.

Mechatronics, the integration of connectors with secondary components and/or electro-mechanical functionality also emerged and flourished this past decade. AVX Interconnect has been at the forefront of this evolution, providing precise automation capabilities to meet high volume requirements.



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Poke-Home

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2 Piece Connectors  
1-Piece Compression  
Battery and Removable Modules  
1-Piece Card Edge  
Subscriber Identity Module (SIM)


## **10-11** (WTW) | WIRE-TO-WIRE APPLICATIONS

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Poke-Home  
Input/Output

# WIRE-TO-BOARD APPLICATIONS


## Insulation Displacement (IDC)




Standard 26-28 AWG 00-9175	
Application	Discrete Wire
# of Positions	2 & 3
Current Rating	1A/Contact
Voltage Rating	150 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




Capped 26-28 AWG 9175-700	
Application	Discrete Wire
# of Positions	2 & 3
Current Rating	1A/Contact
Voltage Rating	150 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977



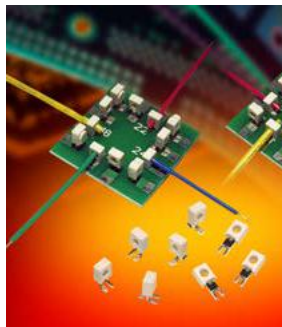
Standard 18-24 AWG 00-9176	
Application	Discrete Wire
# of Positions	1, 2, 3
Current Rating	10A/Contact
Voltage Rating	1p: 600 VAC, 2p/3p: 300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977



Single IDC Contact 22-28 AWG 9176-400	
Application	Discrete Wire
# of Positions	1
Current Rating	6A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977

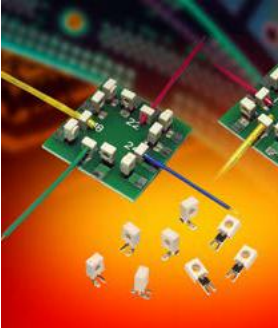


Single IDC Contact 18-24 AWG 9176-500	
Application	Discrete Wire
# of Positions	1
Current Rating	10A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




Single Tine PTH 18-24 AWG 9176-600	
Application	Discrete Wire
# of Positions	1
Current Rating	Up to 9A/Contact
Voltage Rating	600 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977


# Insulation Displacement (IDC)



Single Tine SMT 18-24 AWG 9176-650	
Application	Discrete Wire
# of Positions	1
Current Rating	Up to 9A/Contact
Voltage Rating	600 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




Capped 18-24 AWG 9176-700	
Application	Discrete Wire
# of Positions	1, 2, 3
Current Rating	10A/Contact
Voltage Rating	1p: 600 VAC, 2p/3p: 300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




Low Profile IDC 22-30 AWG 9176-800	
Application	Discrete Wire
# of Positions	1, 2, 3, 4
Current Rating	Up to 6A/Contact
Voltage Rating	1p: 600VAC 2p-4p: 100VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977



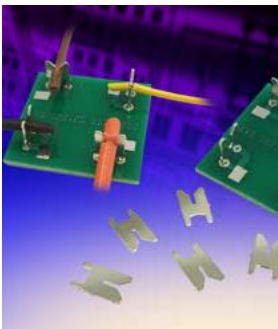
Standard 14-20 AWG 00-9177	
Application	Discrete Wire
# of Positions	1, 2, 3
Current Rating	15A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1059




PTH 12-18 AWG 00-9177	
Application	Discrete Wire
# of Positions	1
Current Rating	15A
Voltage Rating	600 VAC
Operating Temp	-40°C to +125°C
Certifications	N/A



Single IDC Contact 12-18 AWG 9177-500	
Application	Discrete Wire
# of Positions	1
Current Rating	15A
Voltage Rating	600 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




PTH 12-18 AWG 9177-600	
Application	Discrete Wire
# of Positions	1
Current Rating	15A
Voltage Rating	600 VAC
Operating Temp	-40°C to +125°C
Certifications	N/A

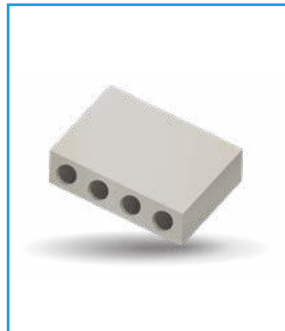


IDC/Press-Fit WTB 18-24 AWG 53-8702	
Application	Automotive Electronic Systems
# of Positions	5
Current Rating	Up to 10A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	--


# Poke-Home




Horizontal Poke-Home 18-26 AWG 00-9276	
Application	WTB
# of Positions	1, 2, 3, 4, 6, 8
Current Rating	6A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




Low Profile Horizontal 20-26 AWG 00-9296	
Application	WTB
# of Positions	1, 2, 3, 4, 5, 6
Current Rating	Up to 8A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +130°C
Certifications	UL 1977




Single Horizontal Contacts 12-28 AWG 70-9296	
Application	WTB
# of Positions	1
Current Rating	Up to 20A
Voltage Rating	Dependent on Contact Spacing
Operating Temp	-40°C to +125°C
Certifications	UL 1977



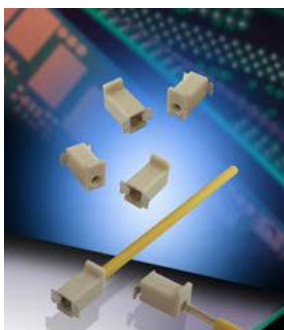
BTB Jumper 10-9296	
Application	Linear BTB in use with 70-9296 Contacts
# of Positions	1 & 2
Current Rating	9A
Voltage Rating	300 VAC (Based on Spacing)
Operating Temp	-40°C to +105°C
Certifications	In Process




Vertical Top Entry 18-26 AWG 00-9296	
Application	WTB
# of Positions	1, 2, 3, 4, 5, 6
Current Rating	Up to 7A/Contact
Voltage Rating	600 VAC 1p, 300 VAC 2p-6p
Operating Temp	-40°C to +125°C
Certifications	UL 1977



Inverted Thru Board 18-26 AWG 00-9296	
Application	Inverse WTB
# of Positions	1, 2, 3, 4, 5, 6
Current Rating	Up to 7A/Contact
Voltage Rating	600 VAC 1p, 300 VAC 2p-6p
Operating Temp	-40°C to +125°C
Certifications	UL 9177




Single Vertical Top Entry 18 AWG Solid 58-9296	
Application	WTB
# of Positions	1
Current Rating	8A
Voltage Rating	600 VAC
Operating Temp	-40°C to +130°C
Certifications	UL 1977

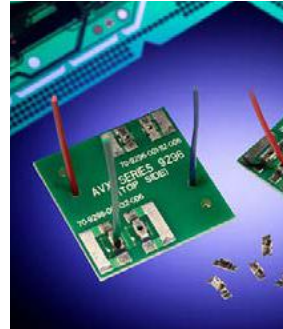


Standard Vertical Top Entry 18-22 AWG 00-9296	
Application	WTB
# of Positions	1
Current Rating	Up to 8A
Voltage Rating	600 VAC
Operating Temp	-40°C to +130°C
Certifications	UL 1977

# Poke-Home



Single Vertical Contacts 18-24 AWG S .AVX 70-9296	
Application	Vertical & Inverse WTB
# of Positions	1
Current Rating	Up to 15A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




Micro Single Vertical Contact 22-26 AWG S .AVX US 70-9296	
Application	Vertical & Inverse WTB
# of Positions	1
Current Rating	Up to 8A/Contact
Voltage Rating	Dependent on Contact Spacing
Operating Temp	-40°C to +125°C
Certifications	UL 1977


## Coming Soon.... Your Next Connector!


AVX Interconnect has the interest & capability to design customized solutions, it can be an extension to an existing range or development of new products.


# BOARD-TO-BOARD APPLICATIONS


## 2-Piece Connectors





 <b>Horizontal Plug 10-9159</b>	
Application	Linear BTB
# of Positions	2, 3, 4, 5, 6
Current Rating	5A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977





 <b>Solder Cup Plug 22-24 AWG 11-9159</b>	
Application	Horizontal WTB with Latch
# of Positions	2, 3, 4, 5, 6
Current Rating	5A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




 <b>Vertical Plug 13-9159</b>	
Application	Perpendicular BTB
# of Positions	2, 3, 4, 5, 6
Current Rating	5A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




 <b>IDC Plug 22-24 AWG 14-9159</b>	
Application	Right Angle WTB with Latch
# of Positions	2, 3, 4, 5, 6
Current Rating	5A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




 <b>Horizontal Socket 20-9159</b>	
Application	Linear BTB
# of Positions	2, 3, 4, 5, 6
Current Rating	5A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




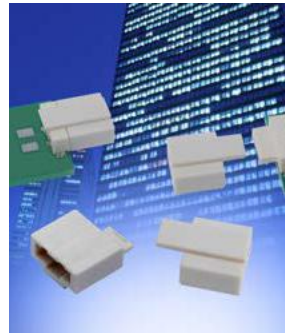
 <b>Top Load Socket 22-9159</b>	
Application	Linear BTB
# of Positions	2, 3, 4, 5, 6
Current Rating	5A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




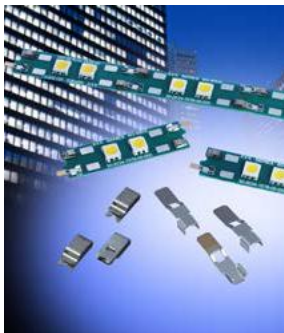
# 2-Piece Connectors




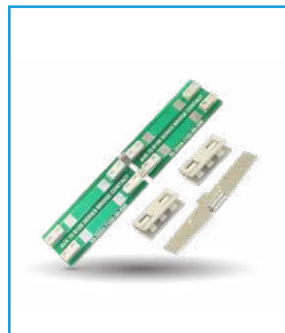
 <b>IDC Socket 22-24 AWG 24-9159</b>	
Application	Right Angle WTB with Latch
# of Positions	2, 3, 4, 5, 6
Current Rating	5A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




 <b>Shorting Socket 58-9159</b>	
Application	Shorting Socket
# of Positions	2
Current Rating	5A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977



 <b>Single 2PC Contacts 70-9159</b>	
Application	Linear BTB
# of Positions	1
Current Rating	5A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977



 <b>Bridge Contacts 70-9159</b>	
Application	Linear BTB
# of Positions	1
Current Rating	20 A
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977

## Coming Soon.... Your Next Connector!

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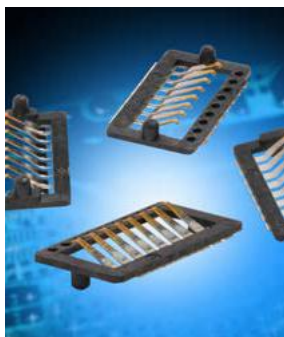
# 1-Piece Compression



Tall Stacker 00-9148	
Application	BTB
# of Positions	8
Current Rating	1 Amp continuous through all contacts
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	--



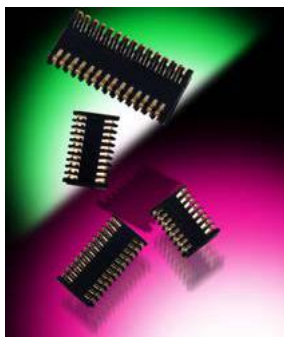
Ultra Low Profile 00-9155	
Application	Parallel PCB Stacking
# of Positions	2p & 3p
Current Rating	3A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +105°C
Certifications	--



Ultra Low Profile Stacker 00-9258	
Application	Parallel PCB Stacking
# of Positions	8
Current Rating	1A/Contact
Voltage Rating	125 VAC
Operating Temp	-55°C to +125°C
Certifications	--



Single Compression Contacts 70-9155	
Application	Parallel PCB Stacking
# of Positions	1
Current Rating	3A/Contact
Voltage Rating	Up to 300VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977



Dual Row Stacker 00-9158	
Application	Parallel PCB Stacking
# of Positions	16p-28p Standard
Current Rating	1A/Contact
Voltage Rating	125 VAC
Operating Temp	-55°C to +125°C
Certifications	--

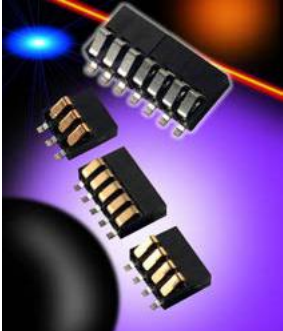


Pogo-Pin 70-9150	
Application	BTB & Docking
# of Positions	1
Current Rating	1A/Contact
Voltage Rating	Based on Placement Distance
Operating Temp	-40°C to +125°C
Certifications	--




Staggered Stacker 00-9188	
Application	Parallel PCB Stacking
# of Positions	4, 6, 8
Current Rating	1A/Contact
Voltage Rating	125 VAC
Operating Temp	-55°C to +125°C
Certifications	--


# Battery and Removable Modules




Standard 2.5mm Pitch 9155-000	
Application	Battery or BTB Connections
# of Positions	3, 4, 5
Current Rating	3A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	--



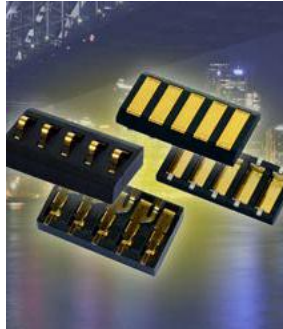
Ultra Low Profile 2.5mm Pitch 9155-100	
Application	Battery or BTB Connections
# of Positions	2 & 3
Current Rating	3A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +105°C
Certifications	--




Reduced 2.5mm Pitch 9155-200	
Application	Battery or BTB Connections
# of Positions	2, 3, 4, 5
Current Rating	3A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	--




Right Angle 3.0mm Pitch 9155-300	
Application	Battery or BTB Connections
# of Positions	2, 3, 4, 5, 6
Current Rating	3A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +105°C
Certifications	--




Two Piece 4.00mm Pitch 9155-400	
Application	Battery or BTB Connections
# of Positions	2, 3, 4, 5, 6
Current Rating	5A/Contact
Voltage Rating	150 VAC
Operating Temp	-40°C to +125°C
Certifications	--



Right Angle 2.5mm Pitch 9155-500	
Application	Battery or BTB Connections
# of Positions	2, 3, 4, 5
Current Rating	3A/Contact
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	--




Right Angle 2.0mm Pitch: 9155-700	
Application	Battery or BTB Connections
# of Positions	2, 3, 4, 5, 6,
Current Rating	2p-4p: 2A 5p-6p: 1.5A
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	--




Vertical Mate 2.0mm Pitch 9155-800	
Application	Battery or BTB Connections
# of Positions	2, 3, 4, 5, 6
Current Rating	Up 50 2A
Voltage Rating	125 VAC
Operating Temp	-40°C to +125°C
Certifications	--


# 1-Piece Card Edge



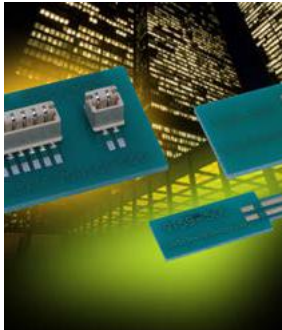
Standard 00-9159	
Application	Linear BTB
# of Positions	2, 3, 4, 5
Current Rating	3A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977



Inverted Thru Board 00-9159	
Application	Perpendicular BTB
# of Positions	2, 3, 4, 5, 6
Current Rating	2A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +120°C
Certifications	UL 1977

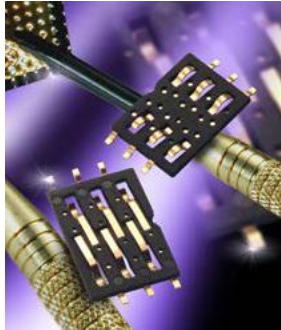


Open Ended 00-9159	
Application	Linear BTB
# of Positions	4, 6, 8, 10
Current Rating	3.0 amps 4p/6p, 2.5 amps 8p/10p
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




Vertical Top Mount 00-9159	
Application	Perpendicular BTB
# of Positions	2, 3, 4, 5, 6
Current Rating	2A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +120°C
Certifications	UL 1977

# Subscriber Identity Module (SIM)




SIM Block 9162-000	
Application	Cellular Phones/ Radios
# of Positions	6
Current Rating	0.5A max
Voltage Rating	50 Vdc
Operating Temp	-40°C to +80°C
Certifications	--





Locking SIM 9162-300	
Application	Cellular Phones/ Radios
# of Positions	6
Current Rating	0.3A max
Voltage Rating	30 Vdc
Operating Temp	-40°C to +125°C
Certifications	--


# WIRE-TO-WIRE APPLICATIONS

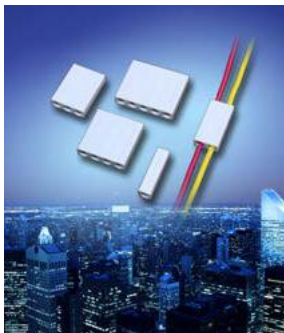
## Poke-Home





 <b>Thru Wire Connectors 00-9286</b>	
Application	Discrete Wire: 18-26 AWG
# of Positions	1, 2, 3, 4, 6, 8
Current Rating	Up to 8A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977





 <b>Junction Box Connectors 00-9286</b>	
Application	Discrete Wire: 18-26 AWG
# of Positions	4, 6, 8
Current Rating	8A Total
Voltage Rating	300 VAC
Operating Temp	-40°C to +125°C
Certifications	UL 1977




 <b>Reduced Thru Wire Connectors 9286-200</b>	
Application	Discrete Wire: 18-24 AWG
# of Positions	1, 2, 3, 4, 5, 6
Current Rating	Up to 8A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +130°C
Certifications	UL 1977




 <b>Reduced Junction Box Connectors 9286-250</b>	
Application	Discrete Wire: 18-24 AWG
# of Positions	4, 6, 8
Current Rating	Up to 8A/Contact
Voltage Rating	300 VAC
Operating Temp	-40°C to +130°C
Certifications	UL 1977




 <b>12-18 AWG WTW 9286-300</b>	
Application	WTW
# of Positions	1
Current Rating	Up to 12A
Voltage Rating	600 VAC
Operating Temp	-40°C to 125°C
Certifications	UL 1977


# Input / Output



Standard I/O 15P & 19P XX-9157	
Application	Portable Devices: Industrial / Medical
# of Positions	15 or 19
Current Rating	1.5A max
Voltage Rating	125 VAC
Operating Temp	-55°C to +125°C
Certifications	--



Mini I/O 12P XX-9257	
Application	Portable Devices: Industrial / Medical
# of Positions	12
Current Rating	0.5A max
Voltage Rating	50 VAC
Operating Temp	-25°C to +85°C
Certifications	--



Reduced I/O 16P XX-9257	
Application	Portable Devices: Industrial / Medical
# of Positions	8, 16
Current Rating	1.0A max
Voltage Rating	125 VAC
Operating Temp	-55°C to +85°C
Certifications	--

## Coming Soon.... Your Next Connector!

AVX Interconnect has the interest & capability to design customized solutions, it can be an extension to an existing range or development of new products.

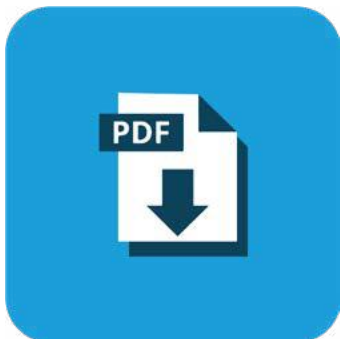
# STAY CONNECTED!



▶ Visit [www.AVX.com](http://www.AVX.com) to learn more about our connectors:  
<http://www.avx.com/connectors/>

## Tools Available Online:

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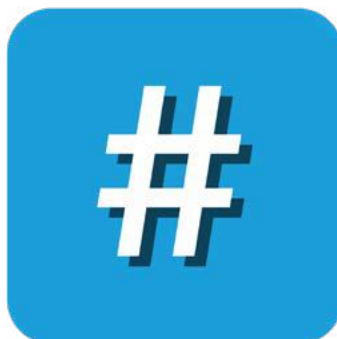
DATASHEET / CATALOG



3D MODELS



VIDEOS



PART NUMBER  
INFORMATION



APPLICATION  
NOTES

The AVX logo is rendered in a bold, white, sans-serif font with a registered trademark symbol (®) to the upper right of the 'X'. The letters are thick and blocky, with a slight shadow effect.

**PROVIDING SOLUTIONS  
ACROSS THE BOARD.**

