

# Wire-to-Wire Connectors



Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологоград (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калининград (4012)72-03-81 Каров (3832)68-02-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81 Киргизия (996)312-96-26-47 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новосибирск (3843)20-46-81 Новосибирск (3843)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Россия (495)268-04-70

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Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (862)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Казахстан (772)734-952-31 Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-61 Чроспавр. (4852)69-52-93

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Statements of suitability for certain applications are based on KYOCERA AVX knowledge of typical operating conditions for such applications, but are not intended to constitute and KYOCERA AVX specifically disclaims any warranty concerning suitability for a specific customer application or use.

## ANY USE OF PRODUCT OUTSIDE OF SPECIFICATIONS OR ANY STORAGE OR INSTALLATION INCONSISTENT WITH PRODUCT GUIDANCE VOIDS ANY WARRANTY.

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Although KYOCERA AVX designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Unless specifically agreed to in writing, KYOCERA AVX has not tested or certified its products, services or deliverables for use in high risk applications including medical life support, medical device, direct physical patient contact, water treatment, nuclear facilities, weapon systems, mass and air transportation control, flammable environments, or any other potentially life critical uses. Customer understands and agrees that KYOCERA AVX makes no assurances that the products, services or deliverables are suitable for any high-risk uses. Under no circumstances does KYOCERA AVX warrant or guarantee suitability for any customer design or manufacturing process.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicted or that other measures may not be required.

## Wire-to-Wire Connectors

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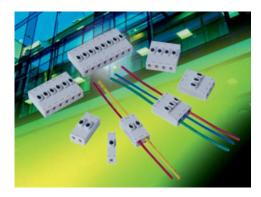
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### **General Information**



Wire-to-Wire connectors have been used in the industrial market for years with traditional 2-Piece (plug and socket) connector systems which require crimp and poke wire terminations to connect electrical or electronic components. In the general wiring market (2-3 wires) there are a number of connector styles available, however, they are limited in sizes, expanded wire gauges and the ability to reuse them when repair or replacement is needed. Based on the existing success of "Poke-Home" wire-to-board connectors, KYOCERA AVX has developed a new family of wire-to-wire connectors to meet the cost, flexibility and ease-of-use targets in industrial wiring applications.

The 9286 series of Thru-Wire connectors provides a high spring force Beryllium Copper contact system that uses simple push button activation to insert and remove individual stripped wires in the connection process. There is a forward and aft shrouded (to prevent accidental activation) push button for each wire connection that can be operated individually or simultaneously with a simple plastic tool or ball point pen tip. Up to eight wires can be electrically connected in a single connector body which will support any combination of wire gauges from 18AWG up to 26 AWG. Wires can be removed or replaced up to 5 times so there is no need to replace the connector in a new installation.

### **APPLICATIONS**

- Industrial/Machine Control; motors, solenoids, PLC's, pumps, valves, sensors, fans...
- Commercial/Building; fixtures, fire, security, surveillance, blinds, sensors, controls...
  - Commercial/Industrial LED; retail, office,
- manufacturing, signage, displays...Application notes; refer to 201-01-135

### **FEATURES AND BENEFITS**

- High spring force top contact provides a lance type retention to capture and retain the wire
- Shrouded dual push button activation for easy wire insertion/removal
- Accepts 18-26AWG Solid and Stranded wires; any combination
- Expanded size offering to maximize application potential; 1, 2, 3, 4, 6 & 8 positions
- Optional mounting tape to secure in panel mounting applications
- Molded in position numbers and schematic for easy identification

### ELECTRICAL

- Current Rating: 8 Amps / Contact
- Voltage Rating: 300 VAC

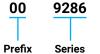
### ENVIRONMENTAL

 Operating Temperature: -40°C to +125°C

### MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper / Phosphor Bronze
- Plating: Tin over Nickel
- Replacibility: 5 Cycles

### **HOW TO ORDER**

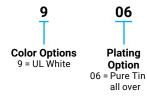


Number of Ways No of Code Details Ways 001 Page 3 002 2 Page 4 003 3 Page 5 004 4 Page 6 006 6 Page 7 008 8 Page 8

**00X** 

	W	/ire Size				
Code	Wire	Max	Max			
Coue	Gauge	Conductor	Insulation			
021	18 to 26	1.05mm	2.10mm			
021	AWG	Diameter	Diameter			

021

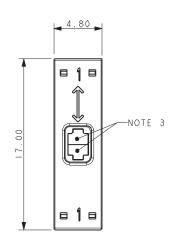


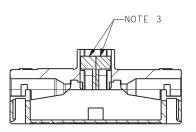


Certification: UL File #E90723

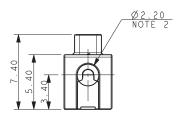
### **1** Position

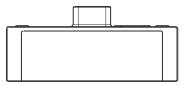
18-26 AWG 1 WAY POKE-HOME - THRU WIRE





SECTION ON A-A







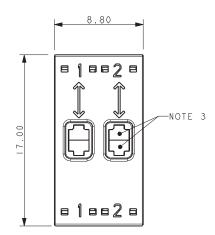
### **PACKING DETAILS**

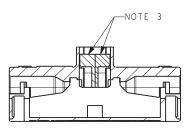
Pack 400 pieces in a clear plastic bag.

- 1. 1 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
- 2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
- FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135. 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

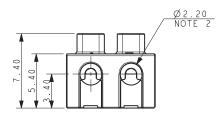
### **2** Position

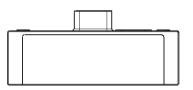
### 18-26 AWG 2 WAY POKE-HOME - THRU WIRE

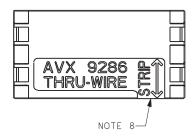




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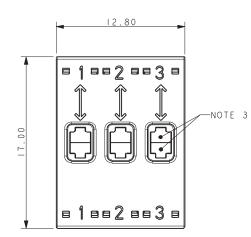
### **PACKING DETAILS**

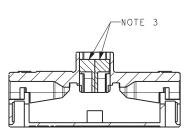
Pack 400 pieces in a clear plastic bag.

- 1. 2 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
- 2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN
  - INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132. FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
- 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

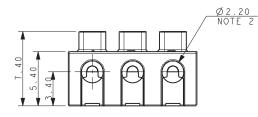
### **3** Position

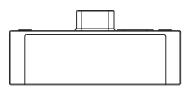
### 18-26 AWG 3 WAY POKE-HOME - THRU WIRE

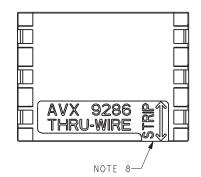




**SECTION ON A-A** 





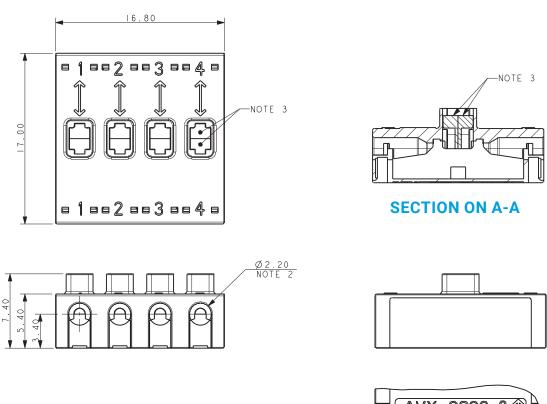


### **PACKING DETAILS**

Pack 400 pieces in a clear plastic bag.

- 1. 3 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
- 2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132. FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
- 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

### 4 Position



### 18-26 AWG 4 WAY POKE-HOME – THRU WIRE

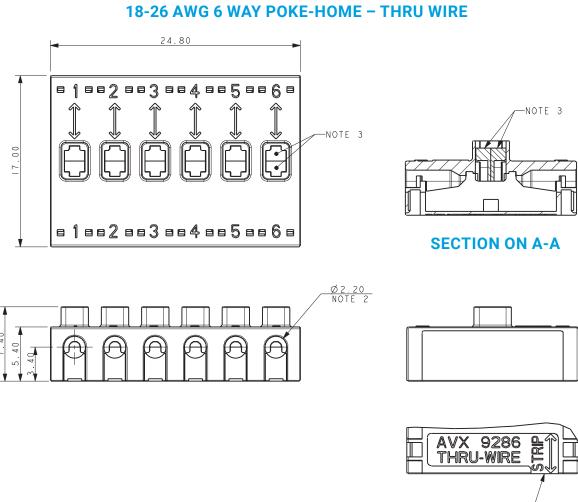


#### PACKING DETAILS

Pack 400 pieces in a clear plastic bag.

- 1. 4 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
- 2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132. FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
- 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

### 6 Position



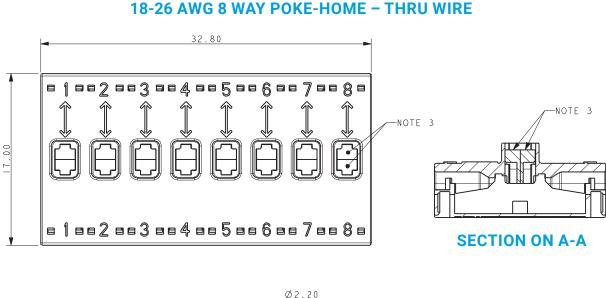
NOTE 8-

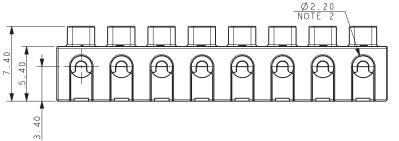
#### **PACKING DETAILS**

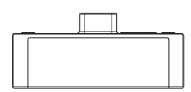
Pack 400 pieces in a clear plastic bag.

- 1. 6 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
- 2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132. FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
- 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

### 8 Position









#### **PACKING DETAILS**

Pack 400 pieces in a clear plastic bag.

- 1. 8 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
- 2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
- FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
- 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

### Poke-Home – Junction Box 18-26 AWG: 00-9286

### **General Information**



Wire-to-Wire connectors have been used in the industrial market for years with traditional 2-Piece (plug and socket) connector systems which require crimp and poke wire terminations to connect electrical or electronic components. In the general wiring market (2-3 wires) there are a number of connector styles available, however, they are limited in sizes, expanded wire gauges and the ability to reuse them when repair or replacement is needed. Based on the existing success of "Poke-Home" wire-to-board connectors, KYOCERA AVX has developed a new family of wire-to-wire connectors to meet the cost, flexibility and easeof-use targets in industrial wiring applications.

The 9286 series of Junction Box connectors provide a high spring force Beryllium Copper contact system that uses simple push button activation to insert and remove individual stripped wires in the connection process. There is a forward and aft shrouded (to prevent accidental activation) push button for each wire connection that can be operated individually or simultaneously with a simple plastic tool or ball point pen tip. This connector family has been designed to bring a single wire in and then have multiple output (bus structure) wires of the same power or signal. Four, Six or Eight wires can be electrically connected together in a single connector body which will support any combination of wire gauges from 18AWG up to 26 AWG. Wires can be removed or replaced up to 5 times so there is no need to replace the connector in a new installation.

#### APPLICATIONS

- · Industrial/Machine Control; motors, solenoids, PLC's, pumps, valves, sensors, fans...
- Commercial/Building; fixtures, fire, security, surveillance, blinds, sensors, controls...
- Commercial/Industrial LED; retail, office, manufacturing, signage, displays...
- Application notes; refer to 201-01-135

### FEATURES AND BENEFITS

- · High spring force top contact provides a lance type retention to capture and retain the wire
- Shrouded dual push button activation for easy wire insertion/removal
- Accepts 18-26AWG Solid and Stranded wires; any combination
- Expanded size offering to maximize application potential; 4, 6 or 8 positions
- Optional mounting tape to secure in panel mounting applications
- . Molded in position numbers and schematic for easy identification

Max

### **ELECTRICAL**

- Current Rating: 10 Amps total
- Voltage Rating: 300v AC

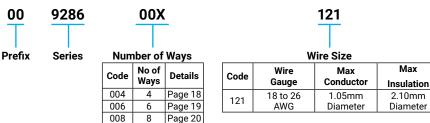
### **ENVIRONMENTAL**

 Operating Temperature: -40°C to +125°C

### **MECHANICAL**

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper / Phosphor Bronze
- Plating: Tin over Nickel
- Replacibility: 5 Cycles

### **HOW TO ORDER**



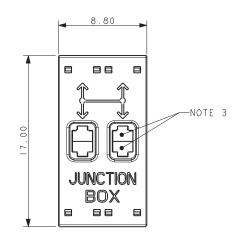


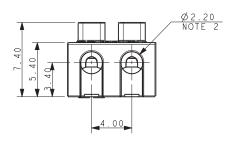


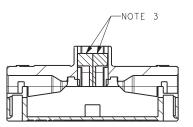
Certification: UL File #E90723

### **4** Position

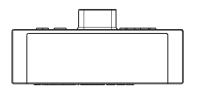
#### 18-26 AWG 4 WAY POKE-HOME - JUNCTION BOX

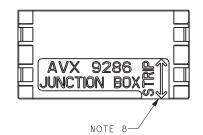






**SECTION ON A-A** 





### **PACKING DETAILS**

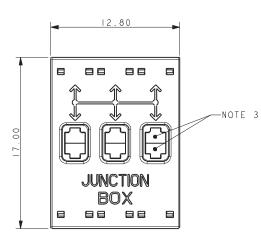
Pack 400 pieces in a clear plastic bag.

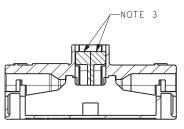
- 1. 4 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED. ALL TERMINALS INTERCONNECTED.
- 2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 17.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132. FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
- 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 21.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 22.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

## Poke-Home – Junction Box 18-26 AWG: 00-9286

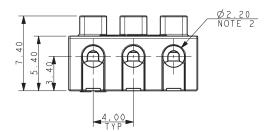
### 6 Position

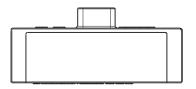
18-26 AWG 6 WAY POKE-HOME – JUNCTION BOX

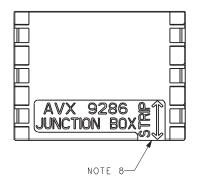




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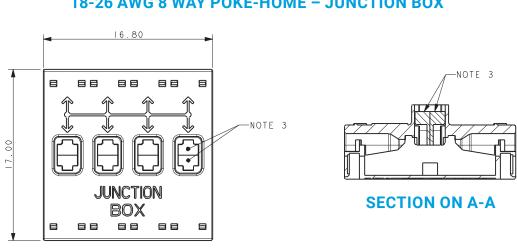
#### **PACKING DETAILS**

Pack 400 pieces in a clear plastic bag.

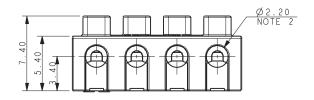
- 1. 6 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED. ALL TERMINALS INTERCONNECTED.
- 2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 17.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132. FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
- 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 21.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 22.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

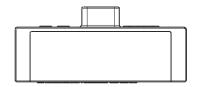
## Poke-Home – Junction Box 18-26 AWG: 00-9286

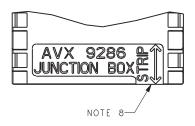
8 Position











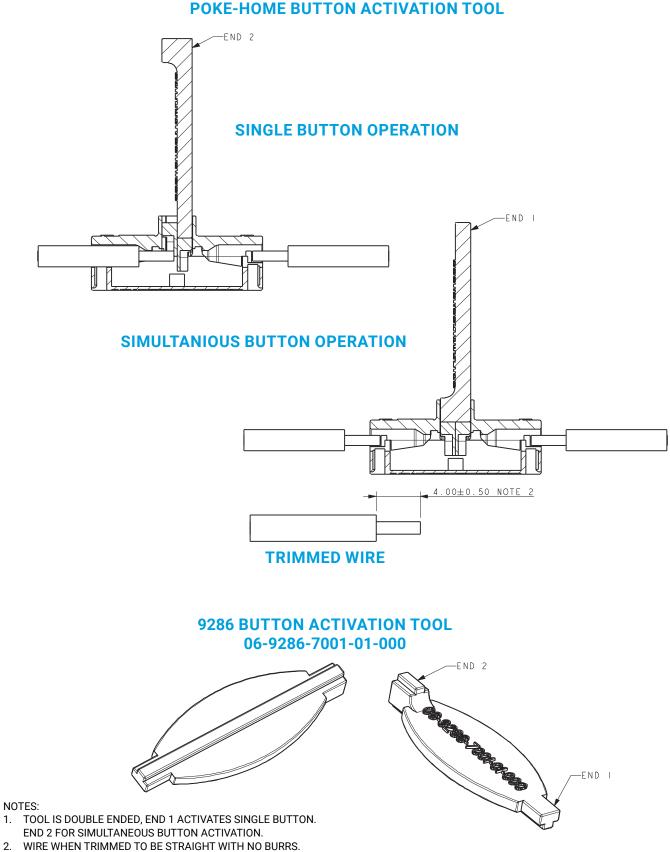
#### **PACKING DETAILS**

Pack 400 pieces in a clear plastic bag.

- 1. 8 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED. ALL TERMINALS INTERCONNECTED.
- WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM. 2.
- 3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
- 4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 17.
- 5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- 6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132. FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
- 7. GENERAL TOLERANCE ±0.20MM.
- 8. WIRE STRIP LENGTH GUIDE, SEE PAGE 21.
- 9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 22.
- 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

### Poke-Home – Junction Box: 00-9286

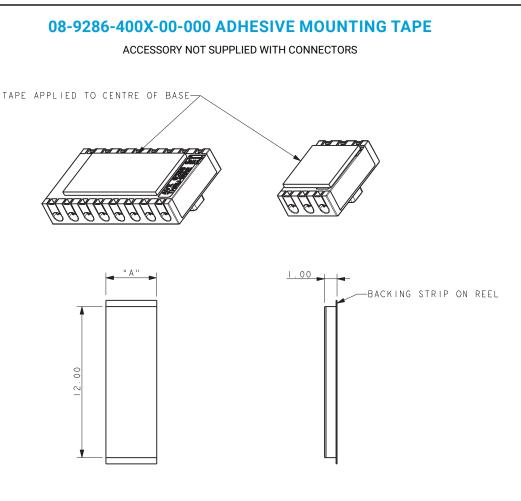
### Wire Insertion/Removal Process



- 3. FOR FULL ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-135.
- 4. SUPPLIED IN PACKS OF 100 PIECES.

### Poke-Home – Junction Box: 00-9286

### Adhesive Mounting Tape



		Matching Connectors			
Part Number	Dimension "A"	00-9286-00X-021-X06 Thru Wire	00-9286-00X-121-X06 Junction Box		
80-9286-4001-00-000	4.00	1 Way	N/A		
80-9286-4002-00-000	8.00	2 Way	4 Way		
80-9286-4003-00-000	12.00	3 and 4 Way	6 and 8 Way		
80-9286-4006-00-000	24.00	6 and 8 Way	N/A		

- 1. DOUBLE SIDED FOAM FILLED ADHESIVE TAPE.
- 2. WIDTH FOR 1 WAY, 2 WAY, 3 WAY AND 6 WAY CONNECTORS, FOR LENGTH SEE TABLE.
- 3. USED FOR ADHERE A 9286 CONNECTOR TO A FLAT SURFACE.
- 4. SOME SURFACES MAY REQUIRE THE USE OF A CLEANING SOLVENT TO ACHIEVE BEST RESULTS.
- 5. SUPPLIED CUT TO SIZE ON A REEL ON AN OVERSIZE BACKING STRIP PARTS 400 PER REEL.

### **Reduced Thru Wire Connector** 18-24 AWG: 9286-200

### **General Information**



Wire-to-Wire (WTW) connectors have been used in the industrial market for years with traditional 2-Piece (plug & socket) connector systems. These require crimp and poke wire terminations to connect discrete wires together. While these provide repeated pluggability and latching, they are often size and cost prohibited in applications where the wires may only need to be replaced once or twice during their life.

The reduced 9286-200 series of thru wire connectors expands on the already proven 9286 poke-home discrete WTW family of connectors, but in a smaller package size. The development of an active stainless steel spring contact eliminates the need for push button activation to insert and remove wires which offers a significant cost savings. The mechanical properties of this contact provide maximum wire retention across a broad range of solid and stranded wire gauges, making this connector very versatile in field installations.

### APPLICATIONS

- · Industrial Machine Controls; motors, drives, sole- noids, sensors, fans, pumps, etc...
- Commercial Buildings; controls, security, fire and sensors
- Smart Grid; meters, breakers and panels
- SSL/LED; fixtures, signage and streetlights
- Application notes; refer to 201-01-17

#### FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with twist and pull wire extraction
- High spring force stainless steel contact maximizes cost, strength and flexibility
- Accepts 18-24 AWG solid and stranded wires
- Expanded size offering to cover multiple power and signal applications: 1p-6p

### **ELECTRICAL**

- Voltage Rating: 300 VAC
- Current Rating: See matrix below

### **ENVIRONMENTAL**

· Operating Temperature: -40°C to +130°C

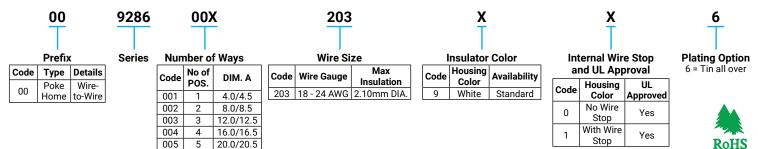
#### **MECHANICAL**

Insulator Material: Glass-Filled Nylon 46: UL94V0

ROHN

- Fixed Contact Material: Copper Alloy
- Flexing Contact: Stainless Steel
- Fixed Contact Plating; Tin over Nickel
- **Durability: 5 Cycles**

### **HOW TO ORDER**



### CURRENT RATING

Wine merine	Maximum approve	ed current (amps)
Wire gauge	UL (USA)	UL (Canada)
18AWG	8	8
20AWG	6	4
22AWG	5	4
24AWG	3	2

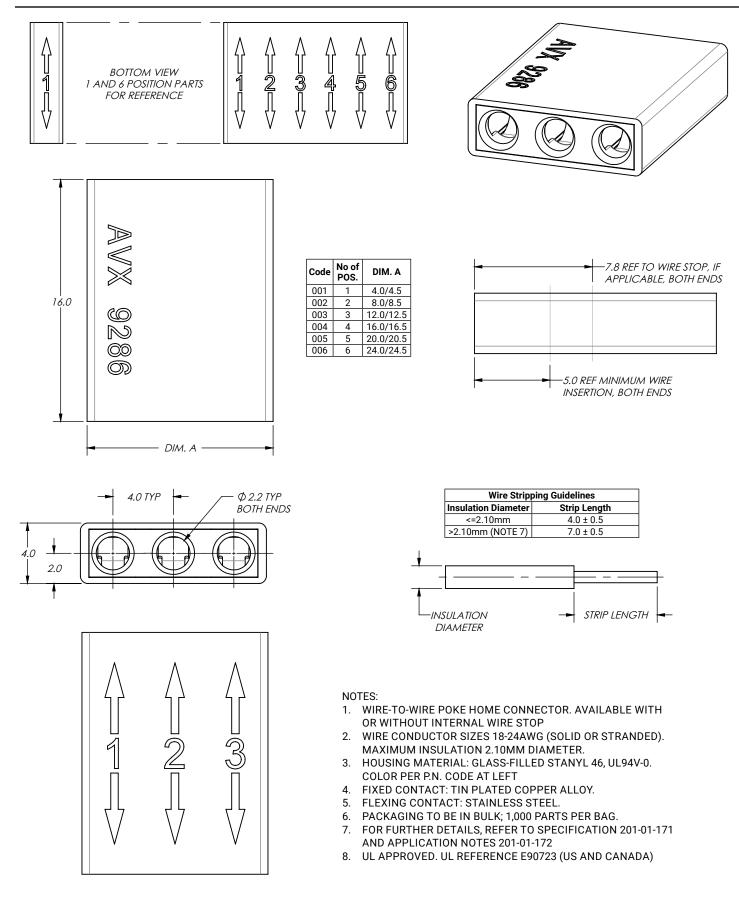
006

6

24.0/24.5

UL File #E90723

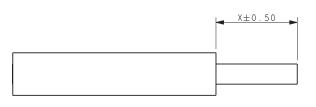
### Reduced Thru Wire Connector 18-24 AWG: 9286-200



### Reduced Thru Wire Connector 18-24 AWG: 9286-200

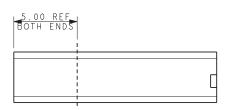
### Wire Trim

### POKE HOME – THRU WIRE WIRE TRIM



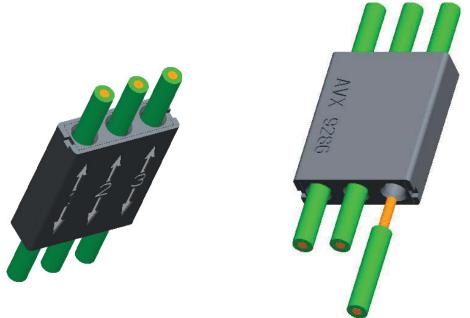
Insulation Diameter	Wire Trim Length X
Up to 2.10 Diameter	4.00 ± 0.50
Above 2.10mm Diameter See Application Notes 201-01-172	7.00 ± 0.50

### **REST POSITION OF CONTACT TIP**



**POKE HOME – THRU WIRE** 

ASSEMBLY



FOR FULL ASSEMBLY DETAILS REFER TO APPLICATION NOTE 201-01-172

### **Reduced Junction Box Connectors** 18-24 AWG: 9286-250

### **General Information**



Wire-to-Wire (WTW) connectors have been used in the industrial market for years with traditional 2-Piece (plug & socket) connector systems. These require crimp and poke wire terminations to connect discrete wires together. While these provide repeated pluggability and latching, they are often size and cost prohibited in applications where the wires may only need to be replaced once or twice during their life.

The reduced 9286-250 series of junction connectors expands on the already proven 9286 poke-home discrete WTW family of connectors, but in a smaller package size. Junction box connectors electrically connect each of the inserted wires together, similar to a branch or splitter application but with multiple outputs. The development of an active stainless steel spring contact eliminates the need for push button activation to insert and remove wires which offers a significant cost savings. The mechanical properties of this contact provide maximum wire retention across a broad range of solid and stranded wire gauges, making this connector very versatile in field installations.

#### **APPLICATIONS**

- Industrial Machine Controls; motors, drives, solenoids, sensors, fans, pumps, etc...
- Commercial Buildings; controls, security, fire and sensors
- Smart Grid; meters, breakers and panels
- SSL/LED; fixtures, signage and streetlights
- Application notes; refer to 201-01-172

### FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with twist and pull wire extraction
- High spring force stainless steel contact maximizes cost, strength and flexibility
- Accepts 18-24 AWG solid and stranded wires
- Expanded size offering to allow up to 8 wires to be connected together

### **ELECTRICAL**

- Voltage Rating: 300 VAC
- Current Rating: See matrix below

### **ENVIRONMENTAL**

 Operating Temperature: -40°C to +130°C

### **MECHANICAL**

- Insulator Material; Glass-Filled Nylon 46; UL94V0
- Fixed Contact Material; Copper Alloy

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4 = UL Yellow

6 = UL Green

7 = UL Orange

- Flexing Contact; Stainless Steel
- Fixed Contact Plating; Tin over Nickel
- Durability; 5 Cycles

#### **HOW TO ORDER**

	00		9286		00)	K		253		×		X	
	Prefiz	x	Series	Nu	mber o	f Ways		Wire Size		Insulator Color		Internal \	
Code	Туре	Details		Code	No of Ways	DIM. A	Code	Accepted Wire Gauge	Max Insulation	Standard 9 = UL White Specal Order Only		Stop and Approv	-
00	Poke	Wire-to-	]	004	4	8.0/8.5		18 – 24 AWG	2.10mm	0 = UL Black		Contact	UL
00	Home	Wire	J	006	6	12.0/12.5	253	Solid or Stranded	Diameter	2 = UL Brown	Code		Approved
				008	8	16.0/16.5				3 = UL Blue		No wire	

### **CURRENT RATING**

W:	Maximum approved current (amps)					
Wire gauge	UL (USA)	UL (Canada)				
18AWG	8	7				
20AWG	8	7				
22AWG	6	6				
24AWG	4	4				

UL File #E90723



Yes

Yes



06

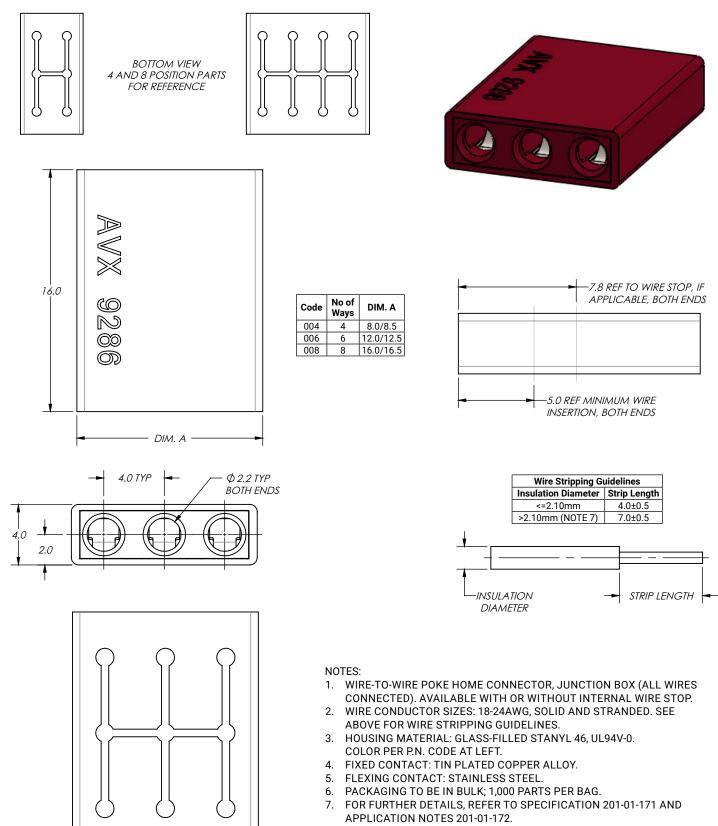


stop

With wire

stop

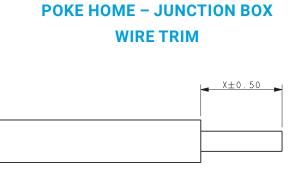
### Reduced Junction Box Connectors 18-24 AWG: 9286-250



8. UL APPROVED. UL REFERENCE E90723 (US AND CANADA)

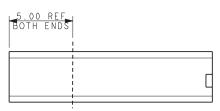
### Reduced Junction Box Connectors 18-24 AWG: 9286-250

### Wire Trim

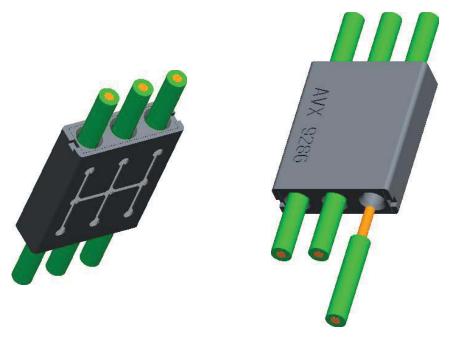


Insulation Diameter	Wire Trim Length X
Up to 2.10 Diameter	4.00 ± 0.50
Above 2.10mm Diameter See Application Notes 201-01-172	7.00 ± 0.50

### **REST POSITION OF CONTACT TIP**



POKE HOME – THRU WIRE ASSEMBLY



FOR FULL ASSEMBLY DETAILS REFER TO APPLICATION NOTE 201-01-172

### **General Information**



### **GERNERAL DESCRIPTION**

Poke-Home wire-to-wire connectors have been proven to be very simple and reliable over the past several years. Until today, they have been focused on the light industrial wire gauge ranges of 18AWG to 24AWG.

The latest product has just been developed to address the heavier 12AWG to 18AWG. This new 300 series of connectors employs a single, phosphor bronze contact technology with a center wire stop. Accepting both solid and stranded wires, pre-stripped wires can be easily inserted and then twist and pulled to be removed.

**MECHANICAL** 

Contact Material: Phosphor Bronze

Plating: Pure Tin Over NickelDurability: 5 Cycles

### **APPLICATIONS**

- Industrial Machine Controls: motors, drives, solenoids, pumps, coils or transformers
- · Commercial Building: controls, security and fire
- Smart Grid: meters, breakers and panels
- SSL: fixtures and wiring
- Application notes: refer to 201-01-218

### **ENVIRONMENTAL**

Operating Temperature: -40°C to +130°C

### FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with twist and pull wire extraction
- One-Piece contact with high force contact beams
  provide mechanical stability and wire retention
- Integral wires stop prevents over insertion
- -316 product will accept both 16AWG and 18AWG solid and stranded wires

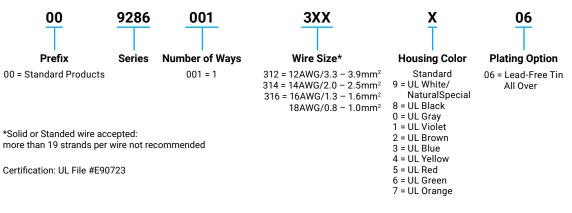
### ELECTRICAL

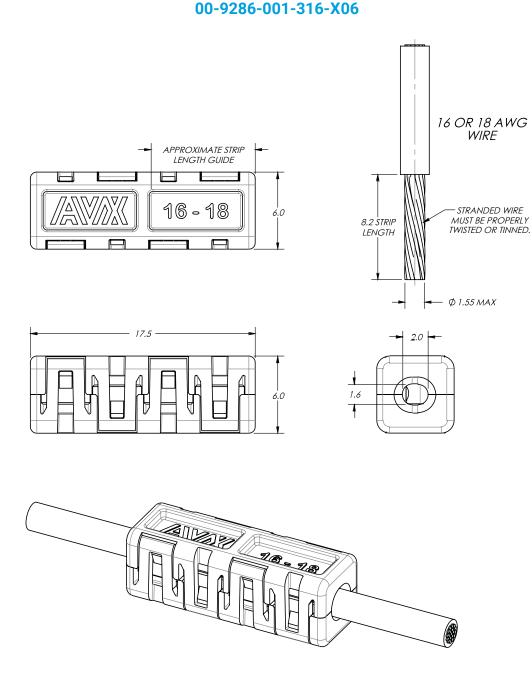
Current Rating:

ourient nutilig:					
Connector	Solid Wire				
16 AWG	18 AWG	10A			
16 AWG	16 AWG	11A			
14 AWG	14 AWG	13A			
12 AWG	12 AWG	15A			

Voltage Rating: 600 V

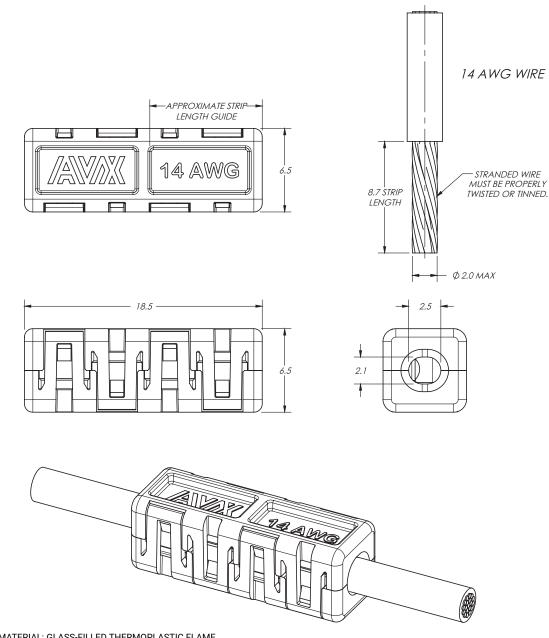
### **HOW TO ORDER**



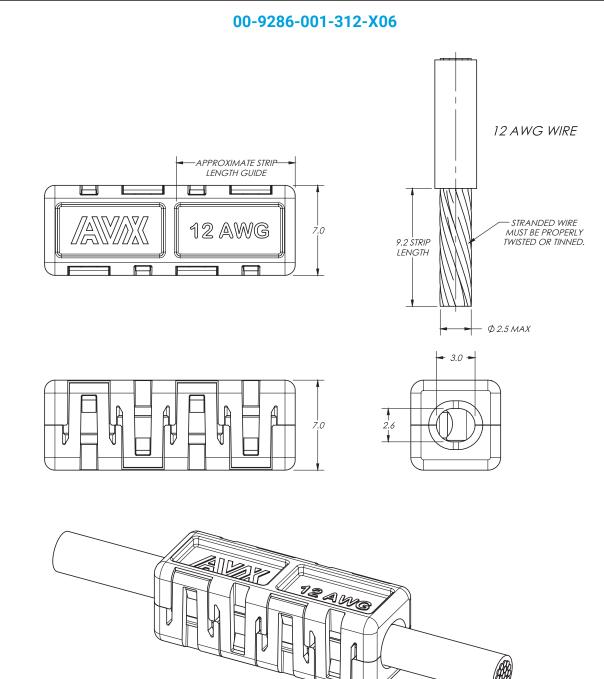


- 1. HOUSING MATERIAL: GLASS-FILLED THERMOPLASTIC FLAME RETARDANT PER UL94V-0: COLOR SEE PAGE 1.
- CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
- 3. CONTACT PLATING: LEAD-FREE TIN OVER NICKEL.
- 4. PACKAGING TO BE IN BULK, 500 PER BAG.
- FOR ADDITIONAL INFORMATION, SEE KYOCERA AVX PRODUCT SPECIFICATION 201-01-217, AND APPLICATION NOTES 201-01-218

### 00-9286-001-314-X06



- 1. HOUSING MATERIAL: GLASS-FILLED THERMOPLASTIC FLAME RETARDANT PER UL94V-0: COLOR SEE PAGE 1.
- CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
- 3. CONTACT PLATING: LEAD-FREE TIN OVER NICKEL.
- 4. PACKAGING TO BE IN BULK, 500 PER BAG.
- 5. FOR ADDITIONAL INFORMATION, SEE KYOCERA AVX PRODUCT SPECIFICATION 201-01-217, AND APPLICATION NOTES 201-01-218.



#### NOTES:

- 1. HOUSING MATERIAL: GLASS-FILLED THERMOPLASTIC FLAME
- RETARDANT PER UL94V-0: COLOR SEE PAGE 1. 2. CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
- CONTACT MATERIAL. HIGH STRENGTH COPPER ALLOY.
   CONTACT PLATING: LEAD-FREE TIN OVER NICKEL.
- 4. PACKAGING TO BE IN BULK, 500 PER BAG.
- FOR ADDITIONAL INFORMATION, SEE KYOCERA AVX PRODUCT SPECIFICATION 201-01-217, AND APPLICATION NOTES 201-01-218.

Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Волоград (8142)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калининград (4012)72-03-81 Калира (4842)92-23-67 Киров (3322)68-02-04 Краснодар (861)203-40-90 Красно Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орен (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Россия (495)268-04-70 Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (862)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Казахстан (772)734-952-31

Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93