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

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Approval Contact

Style

No wire

stop

With wire

stop

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

HOW TO ORDER

	00		9286		00)	K			253		×
	Prefi	x	Series	Nu	mber o	f Ways			Wire Size		Insulator Co
Code	Туре	Details		Code	No of Ways	DIM. A		Code	Accepted Wire Gauge	Max Insulation	Standard 9 = UL Wh Specal Order
00	Poke	Wire-to-		004	4	8.0/8.5	1		18 – 24 AWG	2.10mm	0 = UL Bla
00	Home	Wlre		006	6	12.0/12.5	1	253	Solid or Stranded	Diameter	2 = UL Bro
				008	8	16.0/16.5		L	Solid of Stranded	Diameter	3 = UL Blu

Insulator Color Standard 9 = UL White Specal Order Only	
0 = UL Black 2 = UL Brown	Code
3 = UL Blue 4 = UL Yellow	0
6 = UL Green 7 = UL Orange	1



UL

Approved

Yes

Yes



06



CURRENT RATING

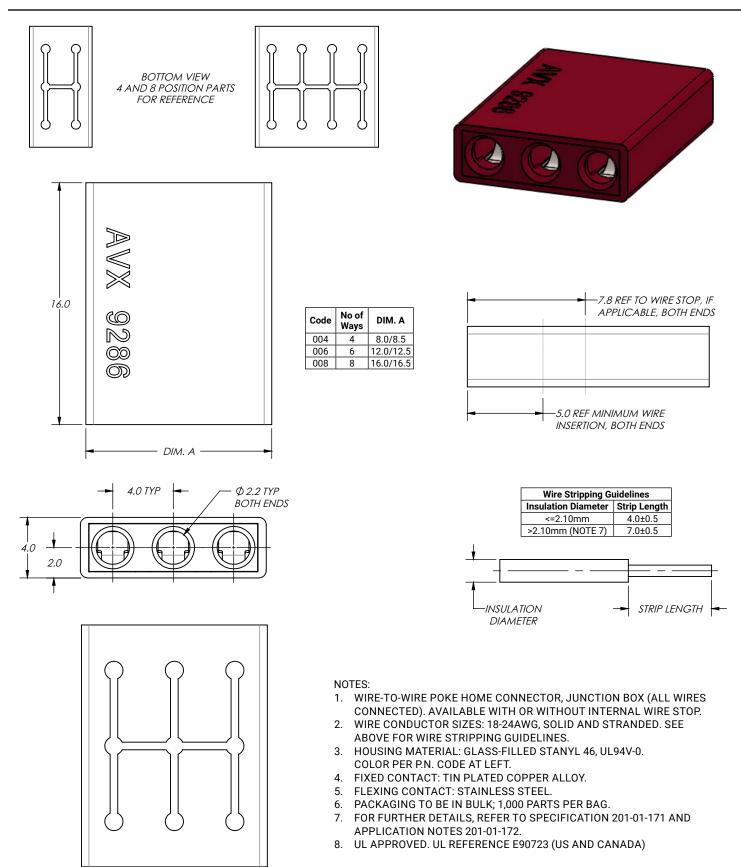
M/:	Maximum approved current (amps)						
Wire gauge	UL (USA)	UL (Canada)					
18AWG	8	7					
20AWG	8	7					
22AWG	6	6					
24AWG	4	4					

UL File #E90723



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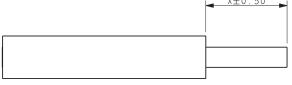
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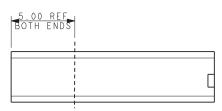
Wire Trim



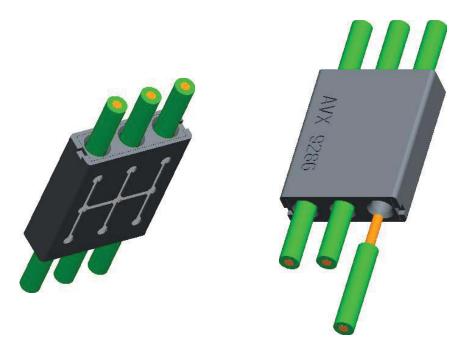


Insulation Diameter	Wire Trim Length X
Up to 2.10 Diameter	4.00 ± 0.50
Above 2.10mm Diameter	
See Application Notes	7.00 ± 0.50
201-01-172	

REST POSITION OF CONTACT TIP



POKE HOME – THRU WIRE ASSEMBLY



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



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