

DS-0012

2/04



### WingGard™ Electrical Wire Connector #89™ (Blue)

#### APPLICATION

Use #89™ WingGard™ twist-on wire connector in general purpose applications of 2 or more copper wires and where wings are needed to aid with installation torque.

#### SPECIFICATIONS

WingGard™ connectors shall feature wing type shell & steel inner spring and be suitable for connecting copper wire from #14 to #6 AWG. Shell shall have offset wings to aid with gripping and installation torque. Spring shall be plated to resist corrosion and have a square profile to provide secure contact with wires.

Connectors shall be rated for use with 600 V building wire / 1000 V lighting applications plus be UL listed and CSA certified for applications up to 105 °C. WingGard™ connectors must have few turns to meet required torque, meet or exceed UL pull out and dielectric test requirements.

#### INSTALLATION INSTRUCTIONS

- Strip wire 5/8" (16 mm).
- Pretwisting unnecessary. Hold stripped wires together with ends even. (Lead stranded wires slightly).
- Align any frayed strands or conductors.
- Screw on connector; push wires firmly into connector when starting.
- To be sold only with installation instructions.

**⚠ WARNING: Shut off power before working on a circuit. Use approved materials and conform to all electrical codes.**

#### CONSTRUCTION

**Shell:** Polypropylene, Color - Blue

**Innerspring:** Zinc plated, square profile steel wire

**Temperature Rating:** 105 °C (221 °F)

#### WIRE RANGE

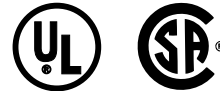
#14 to #6 AWG Solid or Stranded conductors

Copper conductors only, 600 V max. building wire; 1000 V max. for lighting fixtures and luminaires/signs

#### REGULATORY APPROVALS

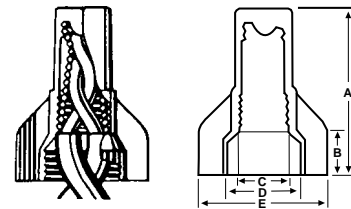
**UL:** List for pressure type wire connectors per UL 486C, file number 760R. UL94V-2 flame retardant.

**CSA:** Certified to CSA standard 22.2 No188, File LR36793



#### DIMENSIONS

Model	A	B	C	D	E	
#89™	(in)	1 8/16	7/16	3/8	3/4	1 1/4
	(mm)	38.1	11.1	9.5	19.1	31.8



#### LISTED WIRE COMBINATIONS

LISTED FOR USE WITH: COPPER TO COPPER Temperature rating: 105 °C (221 °F) Listed as a PRESSURE-TYPE wire connector for the following solid and/or stranded wire connections:

600 V max. building wiring  
1000 V max. lighting  
fixtures/luminaires & signs

1 / 2 #6  
2 / 3 #8  
2 - 5 #10  
3 - 6 #12  
5 / 6 #14

1 #6 + 1 / 2 #8  
1 #6 + 1 #8 + 1 #12  
1 #6 + 1 #8 + 1 / 2 #14 sol  
1 #6 + 1 / 2 #10  
1 #6 + 1 #10 + 1 / 2 #12  
1 #6 + 1 #10 + 1 - 3 #14 sol

1 #6 + 2 #10 + 1 #14 sol  
1 #6 + 1 - 4 #12  
1 #6 + 2 #12 + 1 - 3 #14 sol  
1 #6 + 3 #12 + 1 #14 sol

1 #8 + 1 - 3 #10  
1 #8 + 1 #10 + 1 - 3 #12  
1 #8 + 1 #10 + 1 - 4 #14 sol  
1 #8 + 2 #10 + 1 / 2 #12  
1 #8 + 2 #10 + 3 #14 sol  
1 #8 + 3 #10 + 1 #14 sol  
1 #8 + 1 - 5 #12  
1 #8 + 1 #12 + 1 - 4 #14 sol  
1 #8 + 2 #12 + 1 - 3 #14 sol  
1 #8 + 3 #12 + 1 / 2 #14 sol  
1 #8 + 4 #12 + 1 #14 sol

2 #8 + 1 #10  
2 #8 + 1 #10 + 1 #12  
2 #8 + 1 #10 + 1 / 2 #14 sol

2 #8 + 1 / 2 #12  
2 #8 + 1 #12 + 1 - 3 #14 sol  
2 #8 + 2 #12 + 1 #14 sol

1 #10 + 1 - 5 #12  
1 #10 + 1 #12 + 1 - 4 #14 sol  
1 #10 + 2 #12 + 1 - 3 #14 sol  
1 #10 + 3 #12 + 1 / 2 #14 sol  
1 #10 + 4 #12 + 1 #14 sol  
1 #10 + 3 - 5 #14

2 #10 + 1 - 4 #12  
2 #10 + 1 #12 + 1 - 3 #14 sol  
2 #10 + 3 #12 + 1 #14 sol  
2 #10 + 1 - 3 #14

3 #10 + 1 - 3 #12 / 14  
3 #10 + 1 #12 + 1 / 2 #14 sol  
3 #10 + 2 #12 + 1 #14 sol

4 #10 + 1 #12  
4 #10 + 1 #12 + 1 #14 sol  
4 #10 + 1 / 2 #14

1 #12 + 5 #14  
2 #12 + 3 / 4 #14  
3 #12 + 1 - 3 #14  
4 #12 + 1 #14

300 V max. building wiring

1 #6 + 1 #8 + 1 #10  
1 #6 + 1 #8 + 2 #12  
1 #6 + 1 #8 + 3 / 4 #14 sol  
1 #6 + 3 #10  
1 #6 + 1 #10 + 3 #12  
1 #6 + 1 #10 + 4 #14 sol  
1 #6 + 2 #10 + 1 #12  
1 #6 + 2 #10 + 2 #14 sol  
1 #6 + 5 #12  
1 #6 + 3 #12 + 2 #14 sol

1 #6 + 4 #12 + 1 #14 sol  
2 #6 + 1 #12

1 #8 + 4 #10  
1 #8 + 1 #10 + 4 #12  
1 #8 + 2 #10 + 3 #12  
1 #8 + 3 #10 + 1 #12  
1 #8 + 3 #10 + 2 #14 sol

2 #8 + 2 #10  
2 #8 + 3 / 4 #12  
2 #8 + 1 #10 + 2 #12  
2 #8 + 1 #10 + 3 #14 sol  
2 #8 + 2 #10 + 1 #14 sol  
2 #8 + 2 #12 + 2 #14 sol  
2 #8 + 3 #12 + 1 #14 sol  
3 #8 + 1 #12

4 #10 + 2 #12  
5 #10 + 1 #12