

DS-0011

2/04



WingGard™ Electrical Wire Connector #86™ (Red)

APPLICATION

Use #86™ 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 #18 to #10 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 9/16" (14 mm). For 16 gauge stranded wires, strip 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 - Red

Innerspring: Zinc plated, square profile steel wire

Temperature Rating: 105 °C (221 °F)

WIRE RANGE

#18 to #10 AWG Solid or Stranded conductors

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

REGULATORY APPROVALS

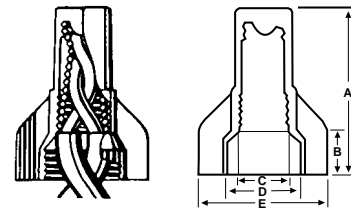
UL: List for pressure type wire connectors per UL 486C, file number 760R. UL94V-2 flame retardant.

CSA: Certified to CSA standard 22.2 No188, File LR36793



DIMENSIONS

Model		A	B	C	D	E
#86™	(in)	1 1/4	5/16	9/32	7/16	29/32
	(mm)	31.8	7.9	7.1	11.1	23



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

2 / 3 #10
2 - 5 #12
2 - 6 #14
4 - 6 #16
6 #18

1 #10 + 1 / 2 #12
1 #10 + 1 - 4 #14
1 #10 + 1 #16 / 18
2 #10 + 1 #12 / 14

1 #12 + 1 - 5 #14
1 #12 + 1 / 2 #16
1 #12 + 2 - 4 #18

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

1 #14 + 2 / 3 #16
1 #14 + 3 - 5 #18

2 #14 + 1 #16
2 #14 + 1 / 2 #18

1 #16 + 4 / 5 #18
2 #16 + 2 - 4 #18
3 #16 + 1 - 3 #18
4 #16 + 1 #18

300 V max. building wiring
1 #8 + 1 #10, 12 / 14
1 #10 + 3 #12
1 #10 + 1 #12 + 1 #14
1 #10 + 1 #12 + 1 / 2 #16
1 #10 + 1 #14 + 1-3 #16
1 #10 + 2 #14 + 1 #16
1 #10 + 2 - 4 #16
1 #10 + 2 - 5 #18

2 #10 + 2 #14
2 #10 + 1 / 2 #16

1 #12 + 1 #14 + 1 - 4 #16
1 #12 + 2 #14 + 1 / 2 #16
1 #12 + 3 - 5 #16
1 #12 + 5 #18

2 #12 + 1 #14 + 1 / 2 #16
2 #12 + 1 - 4 #16
2 #12 + 3 / 4 #18

3 #12 + 2 #18
3 #12 + 1 / 2 #16

1 #14 + 4 / 5 #16
2 #14 + 1 - 4 #16
2 #14 + 3 / 4 #18

3 #14 + 3 #18
4 #14 + 1 #16
4 #14 + 1 / 2 #18
5 #14 + 1 #18

4 #16 + 2 #18
5 #16 + 1 #18