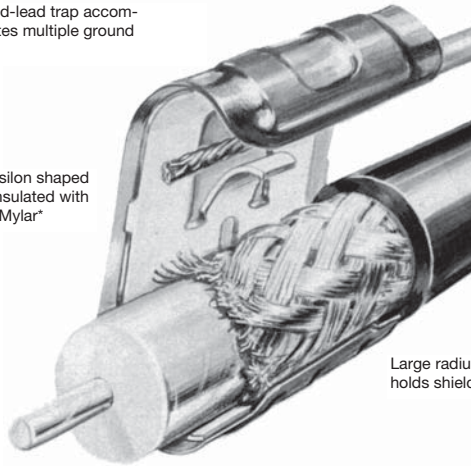


# Shield-Kon®

## RSK Connectors and Installation Tools

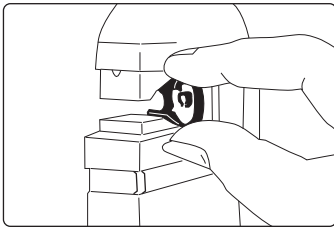
Ground-lead trap accommodates multiple ground wires

One piece. Epsilon shaped connector is insulated with colour-coded Mylar\*

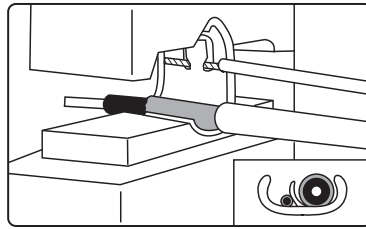


Large radius of connector holds shield

Conductor Dielectric



**1. After handles are fully opened, insert connector into plastic die ... small radius on the top.**



**2. Insert ground wires into ground-lead trap, and shielded cable into large opening. Squeeze handle of WT-740 or 13300 tool to form connector around the shield.**

### **RSK Connector for Shielded or Coaxial Cable**

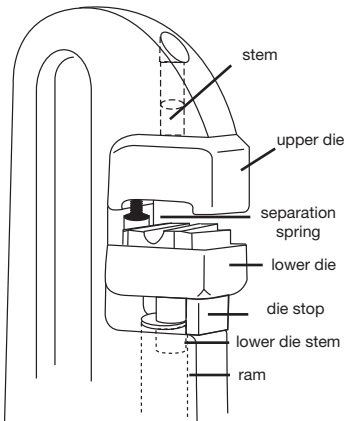
This solderless, wrap-around connector terminates shielded cable in seconds ... with uniform precision. It is particularly well suited for production work in aircraft, aerospace and electronic industries where size and weight are of importance.

Once crimped, it provides a compact, lightweight, low resistance, high strength connection. It meets and exceeds the performance requirements of MIL-F-21608. The connector works equally well on braided, wrapped, or foil shields and has the added advantage of being able to be used as a mid-span termination. Only four sizes are needed over the range of .050" to .300" diameter.

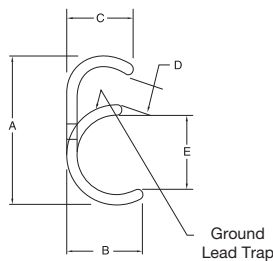
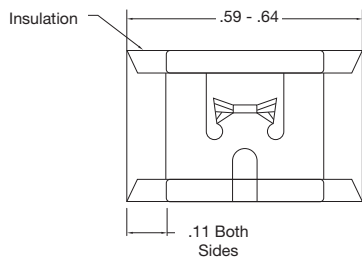
- Requires no heat to install.
- Low installed cost.
- Compact, low profile connector.
- One piece "Wrap-around" design.
- Inventory savings.
- Easily inspected.

# Shield-Kon®

## RSK Connectors and Installation Tools



The WT-740 hand tool and 13300 pneumatic tool both feature interchangeable dies for forming the full line of RSK connectors. The Shure-Stake® mechanism (on the WT-740) assures positive, controlled forming of connectors.



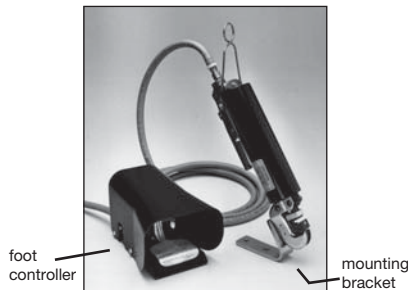
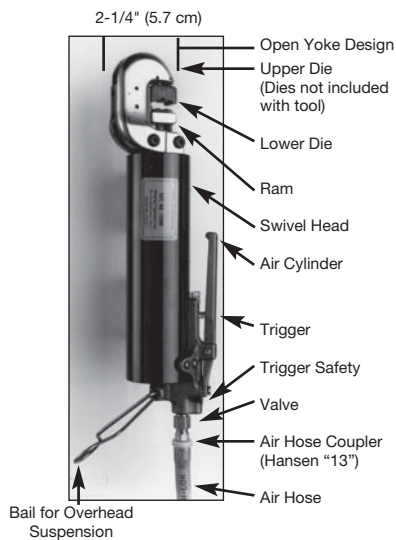
Connector Cat. No. & Colour	Dia. of Shield	Die Cat. No.	Ground Wire Range	Die Gage Cat. No.	Application Tool	
RSK101 Red	(1.27-1.78 mm) .050-.070 in.	101A	1 or 2 #24 AWG STR or 1 #22 AWG STR	101AG	Hand Tool WT740	
	(1.80-2.26 mm) .071-.089 in.	101B		101BG		
RSK201 Blue	(2.29-2.54 mm) .090-.100 in.	201C	1 or 2 #22 AWG STR or 1 #20 AWG STR	201CG		
	(2.56-3.00 mm) .101-.118 in.	201D		201DG		
	(3.022-3.33 mm) .119-.131 in.	201E		201EG		
	(3.35-3.63 mm) .132-.143 in.	201F		201FG		
RSK301 Yellow	(3.66-4.11 mm) .144-.162 in.	301G	1 or 2 #22 AWG STR or 1 or 2 #20 AWG STR	—		Air Tool 13300
	(4.14-4.70 mm) .163-.185 in.	301H		—		
	(4.72-5.10 mm) .186-.201 in.	301J		—		
RSK401 Green	(5.13-5.84 mm) .202-.230 in.	401K	1 or 2 #20 AWG STR or 1 #18 AWG STR	401KG		
	(5.87-6.35 mm) .231-.250 in.	401L		—		
	(6.37-6.98 mm) .251-.275 in.	401M		—		
	(7.01-7.62 mm) .276-.300 in.	401N		401NG		

### How to use connector die and tool selection chart

1. Use a calibrated measuring tool lightly over shield for most accurate measurement. Rotate shielded wire to pick up high spots on cable. Use "Diameter of Shield" column to match the measured dimension.
2. Select connector and die for WT-740 or 13300 tool from appropriate column.

- Notes: 1. Do not solder-dip ends of ground leads.  
2. For ground wire combinations not covered in table, consult Technical Service.

Cat. No.	Dimensions					Copper Thickness	Colour
	A	B	C	D	E		
RSK-101	.31	.16	.18	.06	.15	.02	Red
RSK-201	.38	.22	.18	.06	.18	.02	Blue
RSK-301	.47	.28	.24	.07	.22	.03	Yellow
RSK-401	.69	.43	.37	.08	.37	.03	Green



### 13301 Bench Mounting Kit Converts Easily to Foot Control

*The "13300" tool may be converted easily from a hand actuated type to a foot actuated type by the addition of the bench mounting kit, Cat. No. 13301. The kit contains the foot controller, mounting bracket, and all other required hardware.*

### "13300" Portable Pneumatic Crimping Tool

#### Installs RSK Series wrap-around connectors and ground wire to shielded cable in seconds

- Accepts 13 colour-coded precision wrap-around installing dies.
- Lightweight, compact, portable or bail-mounted.
- Bench mountable option.
- Applicable installations meet MIL-F-21608.

#### Specifications

Operating Air Pressure\*: 120 psi\* (8.3 Bar) max.

Output Force (at 120 psi): 1250 lb. (567 kg).

Ram Stroke: 1/2 in. (1.3 cm) minimum.

Weight: 3-1/4 lb. (1.4 kg).

Finish: Anodize & Nickel.

Air Hose: 8 ft. (2.44 m.).

Air Hose Coupler: Hansen "13".

\* Actual operating pressure required is 60-80 psi (4.1-5.5 Bar.).

#### Operation

Operation is quick and easy; however, you must follow the detailed instructions enclosed with the 13300 tool. Briefly, this is what you do:

1. Select the proper die set and install it into the tool. Refer to Table on page 177).
2. Select the proper connector and position it in the dies.
3. Insert the ground wire(s) and shielded cable in the connector.
4. Squeeze the trigger to complete the installation.

Warning: Keep hands clear of dies to avoid injury.

**Warning: Never crimp energized wires.**

### Performance Specification for Shield-Kon® RSK Connectors

#### Construction

Material: Copper conforming to CDA No. 110.

Finish: Electro-deposited tin in accordance with MIL-T-10727A.

Insulation: Type A Mylar\* polyester film, colour-coded for size identification.

#### Test Criteria

Shield-Kon RSK connectors meet the requirements of MIL-F-21608 for the following environmental and functional criteria:

Voltage drop: 9 millivolts maximum at 1 ampere after environmental exposure.

Insulation dielectric strength: 500 VRMS at 60 Hz for one minute.

Temperature Cycling: Between the limits of -65 degrees C and +125 degrees C.

Vibration: .03 inch double amplitude between 10 and 55 Hz for 6 hours on each of two axis.

Pullout strength: 15 pounds minimum for 22 AWG, and 19 pounds min. for 20 AWG.

Corrosion resistance: 48 hours in 5% salt fog.

In addition, hypot tests have shown that the cable manufacturers' specified working voltage rating is maintained after the installation of Shield-Kon RSK connectors. It is, however, still advisable to evaluate the suitability of these connectors and verify their performance for the particular application.