

# Shield-Kon®

## Connector for Multiple or Overall Shielded Cables Grounded With One Compression

### Cushioned Shield-Kon® Connector

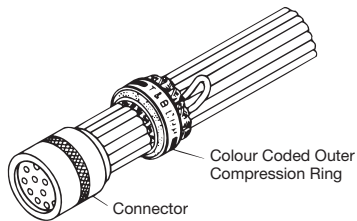
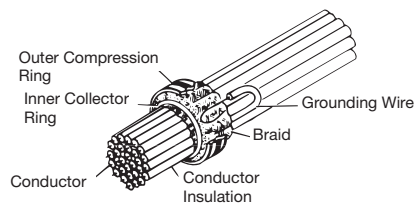


A special feature is the smooth, heat stabilized nylon insulator which acts as a cushion to protect conductor insulation from abrasion. This molded blue nylon insulator is wedge-fitted to the hard brass inner collector rings.



### Overall Shield and Multiple-Conductor Shield

Particularly useful in small space applications as in this 90° connector. The three different ring techniques ground the multiple conductor shields as well as the overall outer braid.



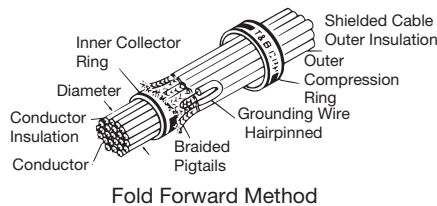
Typical installation for multi-pin connector application. After shielding is extracted, attach ground wire(s) to connector pin and place between collector and compression rings. Colour-coded die will make a 360° compression in one stroke. For complete assembly procedures refer to instructions enclosed with the product.

**Warning:** Never install on energized wire.

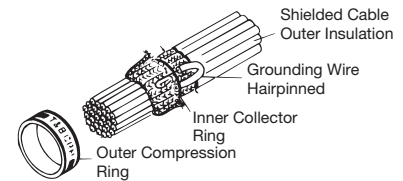
The Shield-Kon Connector System for multiple-conductor shielded cable is based on the principle of cold swaging. It utilizes a two-piece compression connector colour-coded to match the proper die. The connector consists of a hard brass collector inner ring with a tough, smooth insulator and a soft copper compression outer ring. Each set of rings and matching installing die will connect a minimum of 5 shielding braids with one ground wire. The maximum number of braids is limited only by the space between the inner and outer rings.

### The design advantages are:

1. Positive selection of inner and outer sleeves and installing die by a complete colour-coded system.
2. A more reliable grounding termination because only one ground wire connection is made – conventional daisy chain jumper method is eliminated.
3. Smaller, more compact bundle is easy to inspect.
4. Only one ground wire is required, however additional ground wires may be used if needed.
5. Smooth insulator protects conductor insulation.
6. With one stroke of the tool, the interlace die will produce a 360° compression uniformly securing all individual shields around the connector.

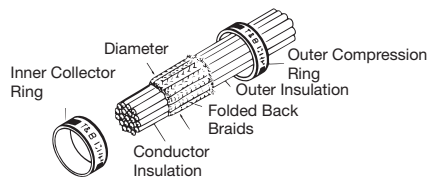


Fold Forward Method



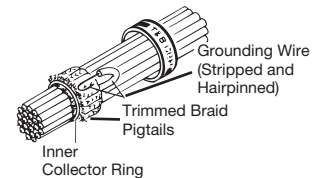
Fold Back Method

### Single Fold Shield Methods



### Double Fold Method

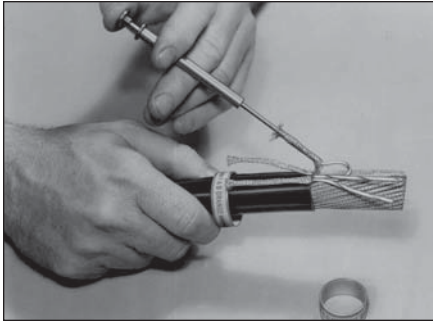
Grounding wire can be inserted from front or back



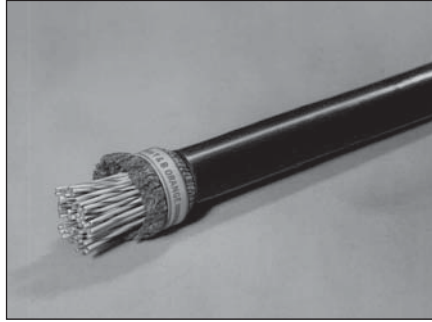
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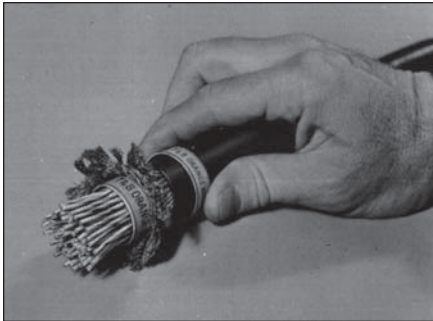
### Multi-Shielded Cable Connector Installation Procedure



1. After overall insulation is removed to expose shielded cables, each conductor must be freed from the shielding braid. The Thomas & Betts lead extractor tool simplifies this operation by pushing the inner conductor through an opening in the shielding braid. The braid is then folded back until all conductors are freed. See Lead Ext. Table, page 235.



3. Position outer compression ring over the flattened shielding braid, locating it over the center of the inner collector ring. Braid may be trimmed even with the edge of the outer compression ring before or after compression. Ground wire or wires may be inserted between the outer compression ring and the shield prior to compression.



2. Flattened shielding braids are evenly distributed around the periphery of the inner collector ring.



4. Selection of compression dies is determined by colour code on rings. The dies are colour coded to match the rings. The appropriate dies are easily inserted or removed by depressing die locking button shown.



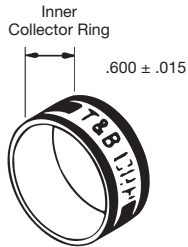
5. The prepared cable is placed in the installing die and compressed. Tool operates on hydraulic power output developing 9800 ±200 psi operating pressure.

6. Completed installation of the “single fold”-“fold forward” method typifies the reliability, compactness and neatness which is obtained with all Thomas & Betts recommended installation methods.

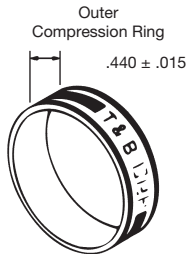
- Easier and quicker to install – one compression grounds all conductors simultaneously.
- Improved reliability – multiple connector errors eliminated.
- Smaller, less bulky bundle diameter – eliminates individual connectors and daisy chained jumpers.
- Reduce installed cost – fewer parts, less installation and inspection time.
- Smooth nylon insulator acts as cushion to protect conductors.

**Warning: Never install on energized wire.**

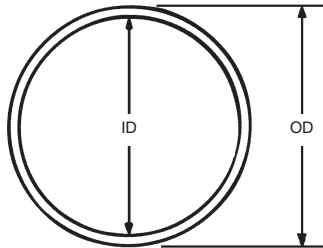
## Connector for Multiple or Overall Shielded Cables Grounded With One Compression



Colour-coded marking



Colour-coded marking



### Connectors for Shielded Cable

Cat. No.	I.D.	O.D.	Installing Die Cat. No.	Colour-Code
<b>Inner Ring</b>				
<b>GSB-430</b>	.430	.500	GS590	Red
<b>GSB-550</b>	.550	.620	GS710	Blue
<b>GSB-670</b>	.670	.750	GS840	Grey
<b>GSB-810</b>	.810	.880	GS1010	Brown
<b>GSB-920</b>	.920	1.000	GS1130	Green
<b>GSB-1040</b>	1.040	1.120	GS1250	Pink
<b>GSB-1122</b>	1.122	1.192	GS1332	Orange
<b>GSB-1224</b>	1.224	1.294	GS1440	Purple
<b>GSB-1353</b>	1.353	1.423	GS1563	Yellow
<b>GSB-1425</b>	1.425	1.545		
<b>Outer Ring</b>				
<b>GSC-590</b>	.590	.670	GS590	Red
<b>GSC-710</b>	.710	.790	GS710	Blue
<b>GSC-840</b>	.840	.920	GS840	Grey
<b>GSC-1010</b>	1.010	1.090	GS1010	Brown
<b>GSC-1130</b>	1.130	1.210	GS1130	Green
<b>GSC-1250</b>	1.250	1.330	GS1250	Pink
<b>GSC-1332</b>	1.332	1.412	GS1332	Orange
<b>GSC-1440</b>	1.440	1.520	GS1440	Purple
<b>GSC-1563</b>	1.563	1.643	GS1563	Yellow
<b>GSC-1670</b>	1.670	1.750		
<b>GSC-1795</b>	1.795	1.875		
<b>GSC-1920</b>	1.920	2.000		

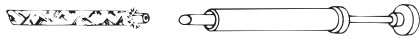
Materials: Inner ring; Copper Alloy ASTM B135, Alloy 2  
Outer ring; Copper ASTM B188

Finish: Electro Tin, MIL-T-10727 A, Type 1. For temp. up to 260°C (500°F), nickel; QQN290.

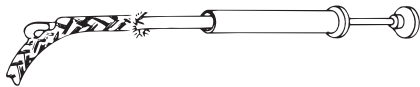
Note: The inner ring, outer ring and installing die are a matched set.

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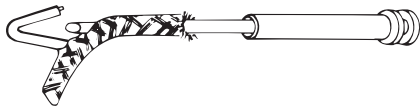
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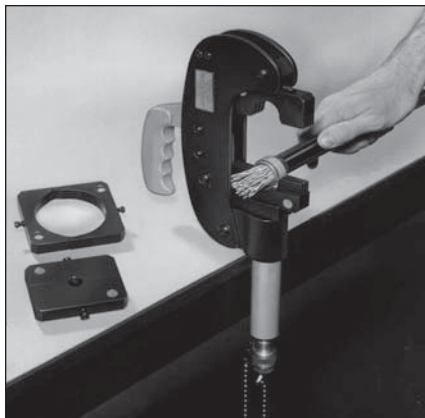
After insulation is stripped off, flare exposed braid. Push flared end of braid back causing braid to bulge.



Retract plunger and slide tube over wire until desired breakout point is reached.



Retract plunger and slide tube over wire until desired breakout point is reached.



### One Installing Tool Accommodates All Die Sizes

- Thomas & Betts installing tool can be used as a bench mounted or portable tool.
- Twenty-two colour-coded dies install complete range of all commonly used shielded cables; dies are easily snapped in or out.
- Interface die with 360° compression provided uniform pressure around circumference of connector.
- Narrow silhouette head permits complete operator visibility during compression cycle.

**Warning:** Never install on energized wire.

### Lead Extractor

Cat. No.	For Lead Dia. Up To	Plunger Colour-code
WT-045B	.045	Red
WT-060W	.062	White
WT-080G	.093	Blue
WT-100B	.125	Green
WT-130Y	.140	Yellow

### Installing Tool

Cat. No.	Description
13640	Installing Head (order dies separately)
13606	Hand-Foot Pump
13600	Electric Hydraulic Pump
13620	Hand Switch
13589A	Foot Switch
13619	Hydraulic Hose 10 ft.
13760	Air-Operated Hydraulic Pump