## **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. 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.
- 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.
- Only one ground wire is required, however additional ground wires may be used if needed.
- 5. Smooth insulator protects conductor insulation.
- With one stroke of the tool, the interlace die will produce a 360° compression uniformly securing all individual shields around the connector.



Typical instantion 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.



# Shield-Kon<sup>®</sup>

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

### Multi-Shielded Cable Connector Installation Procedure



 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.



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



**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.



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.

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Colour-coded marking



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### **Connectors for Shielded Cable**

Cat. No.	I.D.	0.D.	Installing Die Cat. No.	Colour- Code
Inner Ring				
GSB-430	.430	.500	GS590	Red
GSB-550	.550	.620	GS710	Blue
GSB-670	.670	.750	GS840	Grey
GSB-810	.810	.880	GS1010	Brown
GSB-920	.920	1.000	GS1130	Green
GSB-1040	1.040	1.120	GS1250	Pink
GSB-1122	1.122	1.192	GS1332	Orange
GSB-1224	1.224	1.294	GS1440	Purple
GSB-1353	1.353	1.423	GS1563	Yellow
GSB-1425	1.425	1.545		
Outer Ring				
GSC-590	.590	.670	GS590	Red
GSC-710	.710	.790	GS710	Blue
GSC-840	.840	.920	GS840	Grey
GSC-1010	1.010	1.090	GS1010	Brown
GSC-1130	1.130	1.210	GS1130	Green
GSC-1250	1.250	1.330	GS1250	Pink
GSC-1332	1.332	1.412	GS1332	Orange
GSC-1440	1.440	1.520	GS1440	Purple
GSC-1563	1.563	1.643	GS1563	Yellow
GSC-1670	1.670	1.750		
GSC-1795	1.795	1.875		
GSC-1920	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.

## Shield-Kon<sup>®</sup>

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

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.
- Interlace 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

	For Lead		
Cat. No.	Dia. Up To	Plunger Colour-code	
VT-045B	.045	Red	
T-060W	.062	White	
/T-080G	.093	Blue	
VT-100B	.125	Green	
/T-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		

## Thomas & Betts 237