# 3M Scotchlok™ U1B and U1R Inline Connectors

### Instructions

### 1.0 General

1.1 This instruction covers the 3M<sup>™</sup> Scotchlok U1 Series Inline Connectors. They are self stripping, insulated and moisture resistant. Also covered are the wire sizes they can accommodate and in general, how to use them.

The operation of the 3M E-9BM Scotchlok tool required is also covered.



3M U1 Series Scotchlok Connector

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### 2.0 Description

2.1 Schematic:



2.2 Wire Ranges: (Sizes may be intermixed within a connector).

	Wire Size		Max Insulation O.D.	
Product	Metric	AWG	mm	inches
U1B	1.3-0.9 mm	16-19	3.18	.125
U1R	0.9-0.5 mm	19-24	3.18	.125
UIK	0.9-0.5 mm	19-24	3.10	.125

## 3.0 Procedure for Splicing with 3M U1B and U1R Connectors

- 3.1 Hold a pair of conductors from one cable end together.
- 3.2 Clip ends evenly at desired position of connector. DO NOT STRIP INSULATION.
- 3.3 Insert both wires all the way into ports at one end of connector.
- 3.4 Repeat with corresponding pair of conductors from the other cable.

### 4.0 Crimping

- *Note:* Use only the  $3M^{\text{TM}}$  Scotchlok<sup>TM</sup> E-9BM tool.
- 4.1 Set tool jaws to "thick-thin". (Jaws can be easily pried from position using a screwdriver or similar object).
- 4.2 Crimp the button. DEPRESS ALL THE WAY. Cap must be FLUSH with connector body.

4.3 Repeat the operation until all wires are spliced. Connectors should be staggered and bundled to the core of splice.



*Note: Position each connector so as to produce the smallest possible bundle.* 

### 5.0 Scotchlok E-9BM Crimping Tool

5.1 The Scotchlok E-9BM Crimping Tool has adjustable jaws with parallel closing action, and a 7-1 mechanical advantage for proper crimping of all Scotchlok connectors.



3M Scotchlok E-9B Crimping Tool

	Packaging					
Product	Quantity	Quantity	Wt. per			
	per	per	Shipper			
	Primary	Shipper	Kg. Lb.			
U1B	100/box	1,000	7.3	16		
U1R	100/box	1,000	7.3	16		
E9-BM	1/box	10	2.3	5		

### 6.0 Product Summary

**Important Notice** - Before utilizing the product the user should determine the suitability of the product for its intended use. The user assumes all risks and liability in connection with such use. 3M'S WRITTEN WARRANTY FOR THE PRODUCT IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The user's exclusive remedy for breach of 3M's written warranty shall be the repair or replacement of such quantity of product which is proven to be defective. In no case shall 3M be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

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