3M™ Scotchlok™ Insulation Displacement Connectors (IDCs)





# Proven splicing technology designed for your specific applications.

Some 50 years after 3M introduced the industry's original insulation displacement connector, 3M™ Scotchlok™ Insulation Displacement Connectors still offer the quick installation and reliability that electricians and contractors demand. IDCs also incorporate a full wire range capability, an increased port size that accommodates up to 0.190" (4.82mm) insulation sizes, double "U" elements and a solvent-resistant plastic construction. Choose from 35 different Scotchlok IDCs to meet a variety of uses, including fluorescent ballast installation and replacement, fixture and appliance wiring, automotive and marine wiring and control circuit wiring.

## Quick, reliable splices are a snap. And a squeeze.

Scotchlok insulation displacement connectors (IDCs) are easy to use and can save time—to install one, just squeeze—no stripping or twisting. Our unique "U" contact provides a dependable electrical connection.



A "live-spring" joint is made by driving the "U" contact down into connector.



As the "U" contact is pressed into connector, it grasps conductors as it displaces insulation.



Contact grips conductor and holds with a firm, resilient pressure.

- Many Scotchlok IDCs are either UL-Listed (file No. E23458) or CSA-Certified (file No. LR 15503).
- UL Listed and CSA Certified products have a voltage rating of 600V maximum for building wire, 1000V maximum for signs or lighting fixtures (luminaries).

# 3M<sup>™</sup> Connector Crimping Tools make your job even easier.

#### **E-9BM Crimping Tool**

- For use with most Scotchlok connectors.
- Parallel closing action with adjustable jaws.
- · High mechanical advantage.

#### E-9C Cartridge Tool with Case

- Holds connectors (in cartridges) firmly in place, allowing the craftsperson use of the other hand for guiding wires.
- Time saving tool holds cartridges of many communications connectors.
- Automatic feed, ratchet and parallel jaw action assure perfect crimps.

#### E-9CW Cartridge Tool with Case and Window

• Same as E-9C tool with the addition of a window for viewing the connection.

#### **E-9E Crimping Tool**

 Parallel closing action tool for use with Scotchlok butt and tap connectors.

#### E-9Y Crimping Tool

- Stepped jaws and long nose provide parallel crimping action.
- Features include a side wire cutter, insulated handles and a return spring.



### **3M<sup>™</sup> Scotchlok<sup>™</sup> Insulation Displacement Connectors (IDCs) for Electrical Applications**

Con	nector	Type Connector	Special Features	Maximum Insulation	AWG (mm²) Wire Range	Operating Temperature	UL or CS/ Certified	A	
314*		###	Moisture Resistant Seal, Flame Retardant	0.155" (3,94 mm)	22-14 (0,5-1,5)	105°C (221°F)	$(\overline{\mathbf{U}_{\mathbf{L}}})$	<b>(1)</b>	MADE IN USA
314U*			Dry Environment Applications Flame Retardant	0.155" (3,94 mm)	22-14 (0,5-1,5)	105°C (221°F)	$(\widehat{\mathbf{U}_{\mathbf{L}}})$	4	MADE IN USA
316IR			Moisture Resistant Applications	0.155" (3,94 mm)	22-16 (0,5-1,5)	105°C (221°F)	$(\widehat{\mathbf{n}})$		MADE IN US
557*			Dual Element Connection Flame Retardant	0.120" (3,05 mm)	22-16 (0,5-1,5)	105°C (221°F)	(ŪL)	<b>(1)</b>	MADE IN USA
558*			Flame Retardant	0.120" (3,05 mm)	22-16 (0,5-1,5)	105°C (221°F)	(UL)	<b>(1)</b>	MADE IN USA
560			Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	105°C (221°F)	(UL)	<b>(1)</b>	MADE IN USA
560B			Run & Tap Splicing Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	105°C (221°F)	$(\underline{\mathbf{U}_{\mathbf{L}}})$		MADE IN USA
560N		#	Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	105°C (221°F)		4	MADE IN USA
562	1		Run & Tap Splicing Flame Retardant	0.190" (4,82 mm)	12-10 (3,0-4,0) Solid/Stranded 10 Stranded	90°C (194°F)	$(\widehat{\mathbf{U}}\mathbf{L})$		MADE IN USA
564			Dry Environment Applications	0.145" (3,68 mm)	18-14 (0,75-1,5)	90°C (194°F)			MADE IN USA
567			Dual Element Connection Flame Retardant	0.145" (3,68 mm) Tap 0.190" (4,82 mm) Run	18-14 (0,75-1,5) Tap 12-10 (3,0-4,0) Run	105°C (221°F)	(UL)	<b>(\$P</b> )	MADE IN USA
804		1	Moisture Resistant Applications Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	75°C (167°F)	(UL)		MADE IN USA
901			Disconnect	0.145" (3,68 mm)	18-14 (0,75-1,5)	90°C (194°F)	-		MADE IN USA
905			Low Voltage (Automotive) Applications	0.110" (2,79 mm) Tap 0.145" (3,68 mm) Run	22-18 (0,5-1,0) Tap 18-14 (0,75-1,5) Run	90°C (194°F)			MADE IN USA
905N			Low Voltage (Automotive) Applications	0.110" (2,79 mm) Tap 0.145" (3,68 mm) Run	22-18 (0,5-1,0) Tap 18-14 (0,75-1,5) Run	90°C (194°F)	-		MADE IN USA
951	*	1	T-Tap Disconnect Flame Retardant	0.150" (3,81 mm)	22-18 (0,5-1,0)	105°C (221°)		<b>(1)</b>	
952			T-Tap Disconnect Flame Retardant	0.150" (3,81 mm)	18-14 (0,75-1,5)	105°C (221°)	$(\widehat{\mathbf{n}}_{\mathbf{L}})$	<b>(1)</b>	
953	<b>*</b>	1	T-Tap Disconnect Flame Retardant	0.150" (3,81 mm)	12 (3,0)	105°C (221°)		1	
972-A		<del>-</del>	Fuse Holder	0.150" (3,81 mm)	18-14 (0,75-1,5)	105°C (221°F)	_		

<sup>\*</sup>Also tested in accordance with UL Standard for Portable Electric Lamps, UL 153 paragraph 15, when housed within the body of the lamp.

### 3M™ Scotchlok™ Insulation Displacement Connectors (IDCs) for Electrical Applications

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Con	nector	Type Connector	Special Features	Maximum Insulation	AWG (mm²) Wire Range	Operating Temperature	UL or CSA Certified	
U1B**		1	Full Pair	0.125" (3,18 mm)	16-19 (1,3-0,9) Solid Wire	-40 to 285°F (-40 to 140°C)	-	
U1R**			Full Pair	0.125" (3,18 mm)	19-24 (0,9-0,5) Solid Wire	-40 to 285°F (-40 to 140°C)	-	
UAL**			For Aluminum Copper	0.082" (2,08 mm) Outside port 0.076" (1,93 mm) Center port	17-20 (1,15-0,5) Solid Wire 19-24 (0,9-0,5) Copper	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
								MADE IN USA
UB2A**			RUS Listed Full Featured	0.082" (2,08 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
UB2A-D	)**	-	RUS Listed Full Featured	0.082" (2,08 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
UG**			Moisture Resistant Seal	0.066" (1,67 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
	1	#						MADE IN USA
UP2**			Dry Flame Retardant	0.060" (1,52 mm)	22-26 (0,7-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
UP3**			Dry Flame Retardant	0.060" (1,52 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
UR**	8		Moisture Resistant Seal	0.060" (1,52 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
UR2**			RUS Listed Full Featured	0.082" (2,08 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
UR2-D*	*		Dry Full Featured	0.082" (2,08 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	_	MADE IN USA
UY**	8		Moisture Resistant Seal	0.060" (1,52 mm)	22-26 (0,7-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA
UY2**	<b>\bar{\bar{a}}</b>		RUS Listed Full Featured	0.082" (2,08 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	_	MADE IN USA
UY2-D*	<b>\&amp;</b>		Dry Full Featured	0.082" (2,08 mm)	19-26 (0,9-0,4) Solid Wire	-40 to 285°F (-40 to 140°C)	-	MADE IN USA

<sup>\*\*</sup>Solid wire only.

For more information, call 800-245-3573 or contact your local 3M Sales Representative.

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#### **Important Notice**

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

#### Warranty; Limited Remedy; Limited Liability.

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**WARNING** 

Turn power off before installing terminal

or connector. All work should be done according to appropriate electrical codes.



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