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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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3M™ Scotchlok™

Self-Stripping Electrical Tap Connectors 951, 952, and 953

Data Sheet

February 2009

Applications

Use 3M™ Scotchlok™ Self-Stripping Electrical Tap Connectors, 951, 952 and 953 to electrically tap into a wire in mid-span without cutting or stripping the wire. Connector then mates with a .250" (6,35 mm) male tab, making a reusable quick-connect wiring termination.

Agency Approvals & Self Certifications

- UL Listed – tested per UL Standard 310, File No. E70512
NOTE: UL Listed for AWG Only
- CSA Certified, CSA Std. C22.2 No. O. 188-MI983, CSA File No. LR15503, LR32411
- Federal Specification W-S-610D “Commercial Packaging”

Type	Class	Kind	Style
II	I	Cu	F

RoHS 2002/95/EC



RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2002/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

Specifications

Max. Voltage Rating:	600 V Building Wire 1000 V Signs or Fixtures (Luminaries)
Max. Operating Temp	221°F (105°C)
Insulator Material:	Flame retardant nylon, see table for color
Element:	Tin plated brass, .03 in. (.8 mm) thick
Flammability Rating:	C2.2 No. 0.6 V-2

3M™ Scotchlok™ Self-Stripping Electrical Tap Connectors

Wire Range

(See table for specific connector wire range) 22-12 AWG solid or stranded tinned or untinned (.5-3.0 mm sol. or str.) copper conductors. For use with common thermoplastic insulated wires such as: T, TW, TF, TFF, TFFN, THHN, AWM, TEW, SAE-GPT with a maximum wire insulation diameter of .150" (3,8 mm).

Maximum recommended connector current:

22 AWG	3.0 AMPS	20 AWG	4.0 AMPS
18 AWG	7.5 AMPS	16 AWG	10 AMPS
14 AWG	15 AMPS	12 AWG	20 AMPS

Conn. #	Color	Wire Range (AWG – mm ²)	Weight lb./gm
951	RED	22 – 18 (0,3 – 0,8)	.0023 (1,04)
952	BLUE	18 – 14 (0,8 – 2,0)	.0023 (1,04)
953	YELLOW	12 (3,0)	.0022 (1,00)

Installation



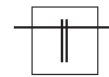
Warning

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

Recommended installation tools:

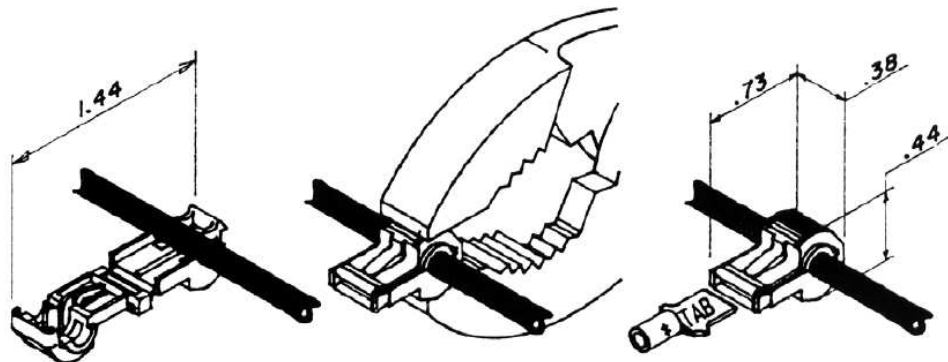
3M™ Scotchlok™ Hand Crimping Tool No. E-9BM Mechanic's (slip joint) Pliers

1. Do not strip run wire.
2. Place run wire in open channel.
3. Fold connector body until element contacts wire.
4. Crimp connector closed with pliers.
5. Slide completed T-Tap onto male tab.



Tap Connector

NOTE: Tab not included. Suitable for field or factory installation. For field wiring, a suitable UL Recognized strain relief device is required.



3M™ Scotchlok™ Self-Stripping Electrical Tap Connectors

Engineering Specifications

Self-Stripping T-Tap Female Quick-Slide connector (as manufactured by 3M) capable of connecting to an insulated, solid or stranded copper wire, in mid-span, without cutting or stripping the wire; and of connecting to a .250 in. x .032" Male Tab, such as a 3M™ Scotchlok™ Terminal MNG14-250DMI, in a separable, reusable manner, forming a Quick Connect Wiring Termination.

Shelf Life & Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

Availability

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-245-3573.

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