

# SSC 200x Series

**Solder Splice Connectors** 

# Data Sheet

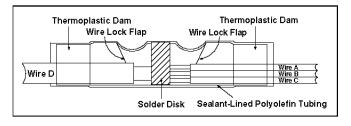
# Ingenious, patented design

The  $3M^{\sim}$  SSC 200x is a one-piece design. It is insulated with a flame retardant, heat-shrinkable sleeve of  $3M^{\circ}$ s new flexible THV fluoropolymer. THV offers outstanding clarity of the insulating sleeve which allows easy inspection of the connection. Inside the sleeve are colored thermoplastic sealing dams and a wire-locking barrel with a fluxed solder disk.

After the wires are inserted and held in place by the barrel wire locks, heat is applied and three events occur:

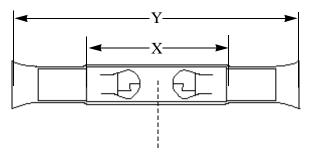
- · The solder disk melts and connects the wires
- · The thermoplastic dams melt and flow, forming the moisture seal
- · The sleeve shrinks, forming the electrical insulation

# **Construction Detail**



# **Product Description**

3M SSC 200x Comes in four sizes, identified by color of sealing dam.



Model	Color	X (in.)	Y (in.)	I.D. (in.)	
		nommai	пошна	nommai	
SSC 2000	White	0.57	0.98	0.09	
SSC 2001	Red	0.83	1.54	0.14	
SSC 2002	Blue	1.00	1.93	0.21	
SSC 2003	Yellow	1.25	2.40	0.26	

#### Size selection

Generally, the SSC 200x works well with any wire or combination of wires that can be easily inserted. Tables 1 and 2 may be used as a general guide. Note: Insulation thickness is an important consideration in choosing the correct size SSC 200x. The size recommendations in Tables 1 and 2 are based on typical insulation thickness, in some cases you may need to use a Solder Splice Connector that is a different size from the one indicated in the Tables. In that case, the way to determine the correct connector size is to experiment with the different SSC 200x sizes and the specific wires to be spliced. Remember, 3M Solder Splice Connectors are not tied to specific wire gauges; each reliably splices a wide range of sizes.

Table 1: Single-wire to Single-wire Connections.

Part Number	Color	Wire Size (AWG)
SSC 2000	White	28-20
SSC 2001	Red	22-16
SSC 2002	Blue	20-14
SSC 2003	Yellow	14-8
Se	elect smallest applic	able size

Table 2: Two or three wires per side of Splice.

Part No.	Wire Gauge (AWG)										
	28	26	24	22	20	18	16	14	12	10	8
SSC2000	1-3	1-2	1-2	1-2	1						
SSC2001			1-2	1-2	1	1	1	1			
SSC2002				1-3	1-3	1-2	1-2	1	1	1	
SSC2003					1-3	1-3	1-2	1-2	1-2	1	1

### **Table 3: Typical Properties**

Transparent, radiation cross- linked fluoro-terpolymer (3M THV) that meets MIL-DTL-23053/18 Class 3. Tubing is flame retardant.
Meltable fluorinated thermoplastic.
Wire failure or 125 lbs. min.
-55°C to 150°C 43% lead, 43% tin, 14% bismuth per Federal Specification QQ-S- 571 with non-corrosive flux.
Tin-Plated cartridge brass.
0 - 1 mV
10 kV min.
0.5 miliohms max.
0.250 micro amps max.

Specifications: UL File E165969–UL Approved for selected wire combinations for 600V and 150°C. Approved on U.S Army, Tank Automotive Command (TACOM) Drawing number 12420927, Issued April 5, 1995.

Limited Warranty - 3M expressly warrants that for a period of ninety days from the date of purchase, 3M static control products will be free of defects in materials (parts) and workmanship (labor). Defects occurring during the warranty period will be repaired or products will be replaced at 3M's option and expense, if 3M receives notice during the warranty period. Defective products must be returned to 3M with proof of purchase date. Warranty Exclusions - THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESS AND IMPLIED, INCLUDING FITNESS AND MERCHANTIBILITY. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean, or repair products. Limit of Liability – In no event will 3M or Seller be responsible or liable for special, incidental, or consequential losses or damages, whether based in tort or contract. Fulfillment of 3M's warranty obligations will be Customer's exclusive remedy and 3M's and Seller's limit of liability for any breach of warranty or otherwise. For your nearest distributor or to order, call 1-800-328-1368

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