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[Desco](#)
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sales@integrated-circuit.com



"If any part of the loop should open (become disconnected or have out of limit resistance), the circuit will go into the alarm state" [ref TR20.20], nonetheless, due to the redundancy inherent in the dual wire wrist strap design, the operator will continue to be grounded via the second intact wire.

Per ESD Handbook TR20.20 section 5.3.9.2.2 Dual Conductor Resistance Continuous Monitors, "This type of monitor is used with a two wire (dual conductor) wrist strap. The wrist strap assembly consists of a two-wire ground cord and a wristband that has two isolated halves. When a person is wearing the wrist strap properly, the monitor measures the loop resistance consisting of one wire of the ground cord, one-half of the wristband, the person's skin, the second half of the wristband, and a second wire in the ground cord. If any part of the loop should open (become disconnected or have out of limit resistance), the circuit will go into the alarm state.

ESD Handbook TR 20.20 paragraph 5.3.2.4.4 Test Frequency "Because wrist straps have a finite life, it is important to develop a test frequency that will guarantee integrity of the system. Typical test programs recommend that wrist straps that are used daily should be tested daily. However, if the products that are being produced are of such value that knowledge of a continuous, reliable ground is needed, and then continuous monitoring should be considered or even required"

Continuous Monitors pay for themselves improving quality, productivity, eliminating wrist strap daily testing and test result logging. Per ESD-S1.1 paragraph 6.1.3 Frequency of Functional Testing "Daily [Wrist Strap] testing may be omitted if constant monitoring is used."

Improve wrist strap contact with Rezstore™ ESD Hand Lotion



*U.S. Patents 6,052,053 and 6,205,408

Made in America

Dual Wire Wrist Strap provides redundancy; even if one dual wire wrist strap conductor is severed, operator has reliable path-to-ground with other wire.

- Used with resistive loop technology continuous monitor, continuously verifies the proper resistance to ground of the operator
- Comfortable adjustable wrist band made of silver suffused monofilament conductive interior
- 4mm snaps are machined to precision profile from 300 series stainless steel for a consistent and reliable connection. 7mm snaps are stamped.
- 304 stainless steel back plate
- Woven Silveron™ fabric infused with silver monofilament conductive fiber is comfortable and hypo-allergenic
- Patented* dual wire technology
- Superior resistor connection strain relief

Superior reliability. Greatly exceeds ESD S1.1 Bending Life Test. Tested at over 200,000 cycles vs. the 16,000 requirement

- Superior warranty - See details of 1 year Limited Warranty at <http://www.Desco.com/Warranty.aspx>
- Superior quality product Made in America at our Chino CA facility

Use patented* Dual Wire Wrist Strap with Desco Dual Wire Continuous Monitor

ITEM	REF. #	DESCRIPTION
19690	SE5000	Adjustable Wristband, 4mm male snaps, with 6' Snap-One Coil Cord, 4mm female snaps, right angle mono plug
19851	SE5100	Adjustable Wristband, 4mm male snaps, with 12' Snap-One Coil Cord, 4mm female snaps, right angle mono plug
19861	SPR1100	Adjustable Wristband, 7mm female snaps (UL Listed)
19860	SPR1006	Adjustable Wristband, 7mm female snaps, with 6' Dual-snap Coil Cord, 7mm male snaps, right angle mono plug

See Drawing 19695 for details on Snap-One Coil Cords

See Drawing 19868 for details on the Dual-snap coil cords

WRISTBAND, ELASTIC SILVERON™, DUAL WIRE, ADJUSTABLE

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**DRAWING
NUMBER**
19690

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March
2009

DESCO