

**SEMITRONICS**

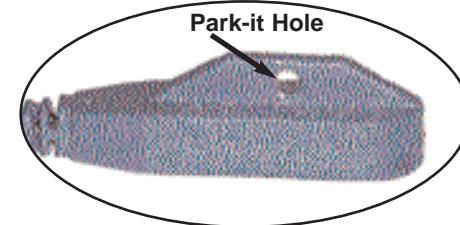
"If any part of the loop should open (become disconnected or have out of limit resistance), the circuit will go into the alarm state" [ref TR20.20], nonetheless, due to the redundancy inherent in the dual wire wrist strap design, the operator will continue to be grounded via the second intact wire.

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."

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



Dual Wire Coil Cord provides redundancy; even if one 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
- Coil cord with molded 1 Megohm current limiting resistor on both ground paths to protect user from shock due to inadvertent contact with line voltage
- 28 gauge wire
- 3.5mm phono plug connector
- Single (Snap-One™) snap head allows operators to quickly and easily attach and detach the cord from the wristband (Use Desco wristband)
- Park-it feature on Snap-One™ molded snap head provides convenient park station for cord when not in use. Simply insert phono plug into hole to allow for hanging cord at workbench.
- Custom manufactured right angle mono-plug reduces chance of accidental disconnects providing more secure ground connection
- Patented\* dual wire technology
- Superior warranty - See details of 1 year Limited Warranty

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

ITEM	REF. #	DESCRIPTION
63500	SE4333	6' Coil Cord, 4mm female snaps, right angle mono plug
63502	SE4343	12' Coil Cord, 4mm female snaps, right angle mono plug
63504	SE4353	18' Coil Cord, 4mm female snaps, right angle mono plug

#### COIL CORD, DUAL-WIRE, SNAP-ONE™, RIGHT ANGLE MONO PLUG

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DRAWING NUMBER  
63500

DATE:  
January  
2009

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