

Jewel®



Jewel® MagSnap Coil Cords meet or exceed the requirements of ANSI/ESD S20.20 and ANSI/ESD S1.1 including section 5.4 Breakaway Force "With the ground cord connected to the cuff in a normal manner, a force of $\geq .45$ kg (1 lb) but ≤ 2.3 kg (5 lb) applied to the ground cord, in the normal disconnect direction, shall be required to separate the ground cord from the cuff."

Per ANSI/ESD S20.20 Paragraph 6.2.2.1. Personnel Grounding Requirements "All personnel shall be bonded or electrically connected to ground or contrived ground when handling ESD sensitive items. When personnel are seated at ESD protective workstations, they shall be connected to the common point ground via a wrist strap system."

"At first glance, the ground cord appears to be a relatively simple assembly. However, the design requirements are considerable, given the wide range of user applications and the durability requirements of constant tugging, flexing, and dragging over the edge of workstation tops and equipment chassis."
(ESD Handbook TR20.20 paragraph 5.3.2.2.2 Wrist Strap Ground Cord)

NOTE: Complete wrist strap kits include an alligator clip. Wrist strap kits include an alligator clip for occasions when a grounded banana jack is not available. However, "Wrist strap ground cords must be connected to a groundable point or an equipotential bonding point. Do not connect to a snap on a dissipative mat unless it is the groundable point for the mat. Do not clip a wrist strap to the edge of a dissipative mat." (ESD Handbook TR20.20 section 5.3.2.7)

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."

- **Patented revolutionary magnetic interconnect technology (U.S. Patent 5,004,425)**
Creates magnetic connection between wristband and coil cord; meets ESD S1.1, including disengagement force test (1-5 lbs). More consistent disengagement force than standard 4 mm designs.
- **More reliable design**
MagSnap revolutionary design provides consistent retention and release performance.
- **To be used with MagSnap wristbands**
- **Relaxed retraction strength black PVC**
More comfortable - will not interfere with wearer's movements
- **Superior resistor connection strain relief**
Superior reliability. Greatly exceeds ESD S1.1 Bending Life Test. Tested at over 1,000,000 cycles vs. the 16,000 requirement
- **Tensile strength at each end in excess of 30 lbs.**
Longer lasting cord saves money
- **One megohm series resistor at snap end per ANSI/ESD S1.1**
To protect operator from accidental contact with equipment line voltage; meets UL & OSHA minimum requirements
- **UL Listed**
Note: This product is not recommended for use on equipment with operating voltage exceeding 250 VAC.
- **CAUTION:** The ESD Series is for electrostatic control. It will not reduce or increase your risk of receiving electric shock when using or working on electrical equipment. Follow the same precautions you would use without wrist straps, including:
 - Make certain that equipment having a grounding type plug is properly grounded.
 - Make certain that you are not in contact with grounded objects other than through the ESD Series.
- **Date coded**
Providing lot tractability to ensure quality control
- **Covered by one or more of the following patents:**
Coil Cord: 5,951,337
- **Superior warranty**
See details of 1 year Limited Warranty at <http://www.desco.com/Warranty.aspx>
- **Made in America**

ITEM	DESCRIPTION
09180	Jewel® MagSnap Coil Cord, 6 ft
09181	Jewel® MagSnap Coil Cord, 12 ft
09182	Jewel® MagSnap Coil Cord, 20 ft

See Drawings 09183 and 09186 for details on Jewel® MagSnap Wristbands



Made in America

Jewel® MagSnap Coil Cord

DESCO

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09180

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