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# DESCO

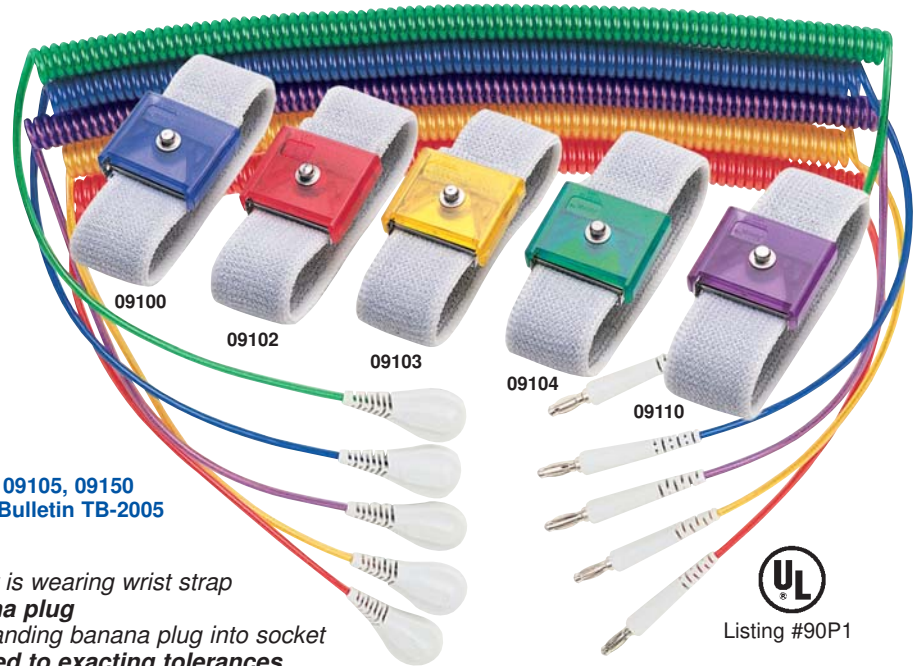
## WRIST STRAPS & COIL CORDS

### Jewel<sup>®</sup>

#### ELASTIC ADJUSTABLE WRIST STRAPS

- 09100 Wrist Strap, 6' Cord, Sapphire
- 09102 Wrist Strap, 6' Cord, Ruby
- 09103 Wrist Strap, 6' Cord, Topaz
- 09104 Wrist Strap, 6' Cord, Emerald
- 09110 Wrist Strap, 6' Cord, Amethyst
- 09130 Wrist Strap, 10' Cord, Sapphire
- 09105 Wristband Only, Sapphire
- 09106 Wristband Only, Ruby
- 09107 Wristband Only, Topaz
- 09108 Wristband Only, Emerald
- 09109 Wristband Only, Amethyst
- 09140 Replacement Elastic Strip

Drawings: 09105, 09150  
Technical Bulletin TB-2005



Listing #90P1

- **High visibility**  
*Bright colors allow supervisor to see that worker is wearing wrist strap*
- **Patented\* contoured spring supported banana plug**  
*Ensures reliable path-to-ground connection expanding banana plug into socket*
- **Solid stainless steel wrist band stud machined to exacting tolerances and precise profile**  
*Ensures reliable path-to-ground connection to spring loaded 4mm stainless steel constant contact coil cord snap*
- **Lifetime warranty on our wrist band stud**  
*If damaged during normal use, will provide no-charge replacement*
- **Durable, lightweight fabric**  
*Some users prefer the softness, comfort and flexibility of this material*
- **Made in America**

For detailed information on all  
Desco wrist straps:  
[www.desco.com/catalog](http://www.desco.com/catalog)

#### PREMIUM METAL EXPANSION WRIST STRAPS

- 09041 Band Only
- 09042 Band Only Extra Large
- 09085 Band with 6' Coil Cord
- 91070 Band with 6' Coil Cord & Angle Banana

#### PREMIUM METAL EXPANSION FIXED SIZE WRIST STRAPS

- 09045 Band Only, Small
- 09044 Band Only, Medium
- 09043 Band Only, Large
- 09088 Band with 6' Coil Cord, Small
- 09087 Band with 6' Coil Cord, Medium
- 09086 Band with 6' Coil Cord, Large

Drawings 09043 and 09480

- **Premium metal expansion wrist strap**  
*Comfortable, designed not to pinch or pull hair*
- **Patented\* contoured spring supported banana plug**  
*Ensures reliable path-to-ground connection expanding banana plug into socket*
- **Solid stainless steel wrist band stud machined to exacting tolerances and precise profile**  
*Ensures reliable path-to-ground connection to spring loaded 4mm stainless steel constant contact coil cord snap*
- **Superior contact with skin**  
*For reliable removal of generated static charges*
- **Adjustment band changes quickly and easily to any size**  
*One size fits all; only one item number to purchase and stock - no "extra" links to lose*
- **Made in America**

Circumference - Regular: 5.5" - 13", Extra large: 6.25" - 14.5"

Drawings 09041, 09480, and 91095, Technical Bulletin TB-2005

**NOTE:** All bands on this page have a 4mm snap stud.  
Wrist strap kits include an alligator clip (excluding right angle products).

\*US Patent 5951337

ANSI/ESD S20.20 Paragraph 6.2.2.1 Personnel Grounding Requirement "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."

Web Site: [www.desco.com](http://www.desco.com) • Phone: (909) 627-8178 • Fax: (909) 627-7449



09085

Better choice  
for clean room and  
other critical  
environments.



Listing #90P1

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# DESCO

## WRIST STRAPS & COIL CORDS

### ELASTIC ADJUSTABLE WRIST STRAPS

#### ELASTIC FIXED SIZE WRISTBANDS

- 09025 Band Only, Small
- 09026 Band Only, Medium
- 09027 Band Only, Large
- Drawing 09025



Listing #90P1



09070

- 09028 Band Only
- 09070 Band with 6' Black Coil Cord
- 09069 Band with 12' Black Coil Cord
- 09029 Elastic Replacement Strip
- 09031 Replacement Clasp Only

- **Extra wide, soft elastic band**  
*Increased wearer comfort*
- **Has silver impregnated nylon knitted on inside for superior conductivity**  
*Reliably removes generated static charges*
- **Adjustable**  
*Only one item to stock; may be fitted to almost all people*
- **Locking clasp**  
*Band locked so it will not slip*
- **Made in America**

Circumference - 2.5" - 13"

Drawings 09028, 09480, and 14010, Technical Bulletin TB-2005

### LIGHTWEIGHT ELASTIC ADJUSTABLE WRIST STRAPS

- 14810 Band with 6' Coil Cord
- 14830 Band with 10' Coil Cord
- 14840 Band Only



Listing #90P1



14810

- **Durable, lightweight fabric**  
*Some users prefer the softness, comfort and flexibility of this material*
- **Has silver impregnated nylon knitted on inside for superior conductivity**  
*Reliably removes generated static charges*
- **Adjustable**  
*Only one item to stock; may be fitted to almost all people*
- **Unique patented (US Patent 4,662,695) adjustment design eliminates exposed conductive "tail" of band**  
*Provides added safety, eliminating chance of providing inappropriate ground path*
- **Made in America**

Circumference - 2.5" - 14"

Drawings 14810 and 14010, Technical Bulletin TB-2005

### HOOK & LOOP WRIST STRAPS

- 09060 Band Only
- 09078 Band with 6' Coil Cord

- **Non reactive, anti-microbial, anti-bacterial medical grade conductive strip**  
*Reduces growth of mold, mildew, and fungus; the best choice for users with ultra sensitive skin*
- **Return loop, quick, easy adjustment mechanism**  
*One size fits all; only one item to purchase and stock*
- **Sewn inner conductive surface with no exposed conductive materials on exterior**  
*Provides added safety eliminating chance of providing inappropriate ground path*
- **Molded plastic cover**  
*Provides stable base for cord attachment*
- **Made in America**

Drawings 09060 and 09480, Technical Bulletin TB-2005

NOTE: All bands on this page have a 4mm snap stud. Complete wrist strap kits include an alligator clip.



Listing #90P1



09078



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[www.desco.com/factory](http://www.desco.com/factory)



### ELASTIC ADJUSTABLE DUAL-WIRE WRIST STRAPS

- 19691 Wristband, 4mm male snaps
- 19690 Wristband, 4mm male snaps, with 6' Snap-One Coil Cord, 4mm female snaps, right angle mono plug
- 19851 Wristband, 4mm male snaps, with 12' Snap-One Coil Cord, 4mm female snaps, right angle mono plug
- 19861 Wristband, 7mm female snaps
- 19860 Wristband, 7mm female snaps, with 6' Dual-snap Coil Cord, 7mm male snaps, right angle mono plug

- **Use patented (6,052,053 and 6,205,408) Dual Wire Wrist Strap with Desco Dual Wire Continuous Monitor**  
*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*
- **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**

Drawing 19691

For detailed information on all Desco wrist straps and coil cords:  
[www.desco.com/catalog](http://www.desco.com/catalog)



### PREMIUM METAL EXPANSION DUAL-WIRE WRIST STRAPS

- 19844 Wristband Only, 4mm male snaps, small
- 19842 Wristband Only, 4mm male snaps, medium
- 19840 Wristband Only, 4mm male snaps, large
- 19854 Wristband Only, 7mm female snaps, small
- 19855 Wristband Only, 7mm female snaps, medium
- 19856 Wristband Only, 7mm female snaps, large
- 19859 Wristband, 4mm male snaps, small, with Snap-One 6' Coil Cord, 4mm female snaps, right angle mono plug
- 19858 Wristband, 4mm male snaps, medium, with Snap-One 6' Coil Cord, 4mm female snaps, right angle mono plug
- 19857 Wristband, 4mm male snaps, large, with Snap-One 6' Coil Cord, 4mm female snaps, right angle mono plug



- **Use patented (6,052,053 and 6,205,408) Dual Wire Wrist Strap with Desco Dual Wire Continuous Monitor**  
*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*
- **300 series stainless steel backplate (0.015" thick)**  
*Manufacturing date code is stamped into stainless steel back plate*
- **Premium metal expansion wristband**  
*Inside links are constructed of 300 Series Stainless Steel. Width of links is 0.630"*

Drawings 19840, 19854



### VINYL DISPOSABLE WRIST STRAPS

- 14401 Disposable Wrist Strap

- **Designed for one time use**  
*Perfect for guests, field service calls, or to be shipped with ESD sensitive products*
- **Packaged individually in a printed bag with instructions**  
*Ready to pack with your ESD sensitive products ensuring that when opened, the information and means are provided to continue protecting your ESD sensitive product*
- **Made in America**

Note: 35.5" long, mini alligator clip included

Drawing 14401





# DESCO

## WRIST STRAPS & COIL CORDS

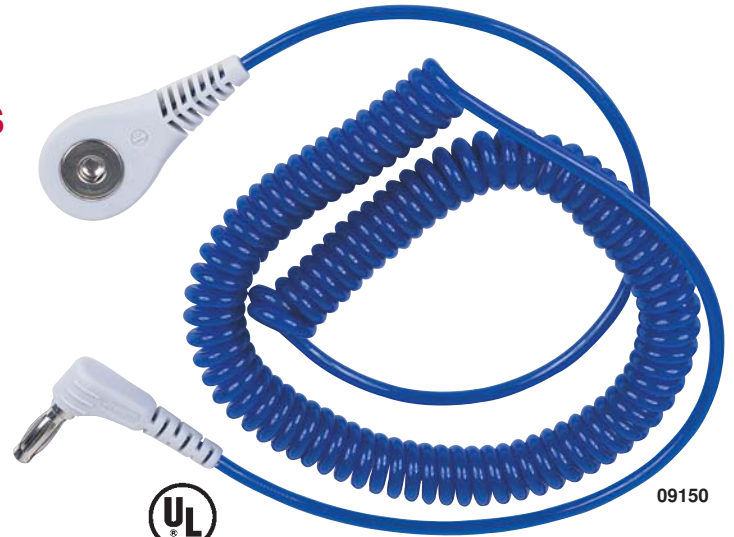
### Jewel®

#### RAPID RETRACTION COIL CORDS

- 09120 Coil Cord, 6', Sapphire
- 09122 Coil Cord, 6', Ruby
- 09124 Coil Cord, 6', Topaz
- 09126 Coil Cord, 6', Emerald
- 09128 Coil Cord, 6', Amethyst
- 09121 Coil Cord, 10', Sapphire
- 09150 Coil Cord, Right Angle, 6', Sapphire
- 09151 Coil Cord, Right Angle, 10', Sapphire

- **High visibility**  
*Bright colors allow supervisor to see that worker is wearing wrist strap*
- **Superior strain relief tests in excess of 50,000,000 cycles per ESD S1.1 - See Bending Life Test (exceeds by over 3,100 times the minimum requirement)**  
*Eliminates intermittent failures that occur with less durable single and dual wire cords*
- **Patented\* contoured spring supported banana plug**  
*Ensures reliable path-to-ground connection expanding banana plug into socket*
- **Rapid retraction strength polyurethane coil cords**  
*Provides high memory and less coil cord dragging on work surface*
- **Made in America**

Drawings: 09120, 09150, Technical Bulletin TB-2005



Listing #90P1

#### RELAXED RETRACTION COIL CORDS

- 09480 Coil Cord, 6', Black
- 09680 Coil Cord, 12', Black
- 09682 Coil Cord, 20', Black
- 91095 Coil Cord, Right Angle, 6', Black
- 14113 Coil Cord, Banana-Banana, 12', Black
- 14114 Coil Cord, Banana-Banana, 20', Black

- **Relaxed retraction strength black PVC**  
*More comfortable; will not interfere with wearer's movements*
- **Superior strain relief tests in excess of 1,000,000 cycles, per ESD S1.1 - See Bending Life Test (exceeds by over 62 times the minimum requirement)**  
*Eliminates intermittent failures that occur with less durable single and dual wire cords*
- **Improved snap design**  
*Stronger strain relief and snap retention for long life; low profile keeps cord from being disconnected*
- **Banana plug molded at 90° on item 91095, creating low profile**  
*Cords are less likely to be accidentally pulled out, eliminating time where a damaging static discharge event might occur*
- **Banana plugs on both ends of coil cord on items 14113 and 14114**  
*Allows cart users to ground carts to common grounding point on bench*
- **Made in America**

Drawings 09480, 91095, and 14113, Technical Bulletin TB-2005



Listing #90P1



Listing #90P1

Per ESD Handbook TR20.20 paragraph 5.3.2.2.2 Wrist Strap Ground Cord, "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."



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\*US Patent 5951337



# DESCO

## WRIST STRAPS & COIL CORDS

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

- 19695 6' Coil Cord, 4mm female snaps, right angle mono plug
- 19696 12' Coil Cord, 4mm female snaps, right angle mono plug
- 19866 18' Coil Cord, 4mm female snaps, right angle mono plug

- **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**  
Protects user from shock due to inadvertent contact with line voltage
- **Single (Snap-One™) snap head**  
Allows operators to quickly and easily attach and detach the cord from the 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

Drawing 19695



### DUAL WIRE DUAL SNAP COIL CORD WITH RIGHT ANGLE MONO PLUG

- 19862 6' Coil Cord, 4mm female snaps, right angle mono plug
- 19868 6' Coil Cord, 7mm male snaps, right angle mono plug
- 19863 12' Coil Cord, 7mm male snaps, right angle mono plug

- **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**  
Protects user from shock due to inadvertent contact with line voltage
- **Custom manufactured right angle mono-plug**  
Reduces chance of accidental disconnects providing more secure ground connection

Drawing 19868



For detailed information on all Desco wrist straps and coil cords:  
[www.desco.com/catalog](http://www.desco.com/catalog)

For Dry Skin, Use Reztore™ Lotion to Improve Contact

### REZTORE™ ESD HAND LOTION

- 81080 8 oz. Bottle
- 81082 1 qt. Bottle with Pump
- 81081 1 gal. Bottle with Pump

- **Dissipative formulation creates a superior path to ground**  
Helps lower skin electrical resistance and eliminates annoying and time consuming dry skin wrist strap testing failures
- **Special ESD formulation for the electronic manufacturing environment; will not insulate skin like regular lotions**  
Helps provide reliable path-to-ground, protecting ESD susceptible product
- **Non-contaminating and solder-safe; free of chemicals that may adversely affect solderability or cause corrosion of electronic components**  
Reduces contamination that can cause solderability problems
- **Made in America**

Technical Bulletin TB-3012



81080



81081

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