

Jewel®



3.5 mm Mono Plug



09166

"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 ESD 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 ESD TR20.20 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 ANSI/ESD S1.1 section Frequency of Functional Testing "Daily [Wrist Strap] testing may be omitted if constant monitoring is used."

Improve wrist strap contact with Reztore™ ESD Hand Lotion.

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

See Drawing 09160 for details on Jewel® Coil Cords

Specifications and procedures subject to change without notice.



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.

- Meets ANSI/ESD S20.20 tested per ANSI/ESD S1.1 and ESD TR53
- Used with resistive loop technology continuous monitor, continuously verifies the proper resistance to ground of the operator
- Black ABS plastic cap.
- 300 series stainless steel backplate (0.015" thick). Manufacturing date code is stamped into stainless steel back plate.
- 4mm snaps are machined to precision profile from 300 series stainless steel for a consistent and reliable connection.
- Premium metal expansion band. Inside links are constructed of 300 Series Stainless Steel. Width of links is 0.630".
- Superior 1 megohm ±5% resistor connection strain relief
- .002" polyphenylsulfone sheet is laminated to each link before assembly. Provides >5,000 volt RMS insulation per ASTM D149. Will not flake or peel.
- Patented* dual wire technology
- 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
- UL listed



Use patented* Dual Wire Wrist Strap with Desco Dual Wire Continuous Monitor, 3M monitors, or other brands which use 3.5 mm mono plug.

ITEM	DESCRIPTION	CIRCUMFERENCE		WIDTH
		MIN	MAX	
19844	Premium Metal Expansion Wristband only, S	5.5" (139.7mm)	9" (228.6mm)	0.630"
19842	Premium Metal Expansion Wristband only, M	6" (152.4mm)	11" (279.4mm)	0.630"
19840	Premium Metal Expansion Wristband only, L	7" (177.8mm)	12" (304.8mm)	0.630"
09165	Premium Metal Expansion Wrist Strap, with 6' Coil Cord, right angle mono plug, S	5.5" (139.7mm)	9" (228.6mm)	0.630"
09166	Premium Metal Expansion Wrist Strap, with 6' Coil Cord, right angle mono plug, M	6" (152.4mm)	11" (279.4mm)	0.630"
09167	Premium Metal Expansion Wrist Strap, with 6' Coil Cord, right angle mono plug, L	7" (177.8mm)	12" (304.8mm)	0.630"
09168	Premium Metal Expansion Wrist Strap, with 12' Coil Cord, right angle mono plug, S	5.5" (139.7mm)	9" (228.6mm)	0.630"
09169	Premium Metal Expansion Wrist Strap, with 12' Coil Cord, right angle mono plug, M	6" (152.4mm)	11" (279.4mm)	0.630"
09170	Premium Metal Expansion Wrist Strap, with 12' Coil Cord, right angle mono plug, L	7" (177.8mm)	12" (304.8mm)	0.630"

Thermoplastic elastomer strain relief molded on. Flex life average >11,700,000 cycles (per ESD S1.1 Bending Life Test, greatly exceeding the 16,000 average cycle requirement). Break load average 30 pounds. Meets ESD S1.1 breakaway force requirement >1 pound <5 pound

Jewel® Premium Metal Expansion Dual Wire Wrist Strap, 4mm

DESCO WEST: 3651 WALNUT AVE., CHINO, CA 91710 WEB SITE: Desco.com
 PHONE (909) 627-8178 FAX (909) 627-7449
 DESCO EAST: ONE COLGATE WAY, CANTON, MA 02021-1407
 PHONE (781) 821-8370 FAX (781) 575-0172

DRAWING NUMBER
09165

DATE:
March 2010

DESCO