<u>3MTM</u> Dual Conductor Wrist Strap

Dual Wire Adjustable Wrist Band and Coil Cord

3M's Dual Wire Wrist Straps are designed to work with dual wire, resistance style, constant monitors. The wrist band is fully adjustable and made from soft fabric that stays flat on the wrist for good contact. Dual wire coil cords offer a right angle (90deg) mono plug, 40 lb tensile, multi-conductor wire, and are available in 6 or 12 foot lengths. These wrist straps are compatible with dual wire monitors that accept a mono plug, including the 3M DWMONITOR1.

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Features

- Dual wire design provides secondary ground wire for redundant protection.
- Compatible with most dual wire, resistance style monitors.
- Single snap to band for improved reliability.
- Right Angle (90 degree) mono plug prevents damage to cord.

Item Numbers

| ITEM CODE: | DESCRIPTION: |
|------------|---|
| DWAFWS61M | DUAL WIRE ADJUSTABLE FABRIC BAND AND 6 FT CORD |
| DWAFWS121M | DUAL WIRE ADJUSTABLE FABRIC BAND AND 12 FT CORD |
| DWAFWS | DUAL WIRE ADJUSTABLE FABRIC BAND |
| DWCC61M | DUAL WIRE 6 FT CORD |
| DWCC121M | DUAL WIRE 12 FT CORD |
| ITEM CODE: | RELATED ITEMS |
| | RELATED ITEMS |
| DWMONITOR1 | DUAL WIRE CONSTANT WRIST STRAP MONITOR |
| DWPARK | PARKING BLOCK FOR DUAL WIRE WRIST STRAP |

Specifications

Color:

Ground Plug:

Standards Compliance:

ESDA S1.1, EIA 625, MIL-STD-1686, MIL-HDBK-263, ANSI ESD S-20.20 Wrist Band

| Wrist Balla | |
|--------------|-----------|
| Fabric: | Elastic p |
| Resistance: | <500 oh |
| Color: | Dark Blu |
| Snap: | 10 mm v |
| Back plates: | Stainles |
| Coil Cord | |
| Length: | 6 or 12 |
| Resistor: | 1 megol |
| Flex life: | 300,000 |
| | |

Elastic polyester with conductive threads <500 ohms typical Dark Blue 10 mm with dual contact Stainless Steel 6 or 12 feet 1 megohm 300,000 flexes Gray 1/8" mono (two conductor) 90 degree

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|------------------------|--|---|---|---|---|-----------------|---|---|--------------------------|----|---|---|--|--------------------------|--------|---|---|-----------|
| Dual Wire Wrist Straps | | | | | | | | | | | | 3M Electronic Solutions Division 6801 River Place Blvd. Austin, TX 78726-9000 | | | | | 3M is a trademark of 3M Company. All other trademarks herein are the property of their respective owners. | |
| | PRODUCT DUAL WIRE WRIST STRAPS FOR DUAL WIRE CONSTANT MONITORS | S | | | | item n SEE T | | - | <u>datashe</u> 1117-a | ET | | US and (Fax: 866 Intl: 919 | Canada: 86 -722-3735 -718-0000; | 6 -722- Fax: 9 | 19-774 | | 1.com/static © 2008 | 3M |

Application

Damage to electronic devices is primarily caused by static electricity from people. Connecting people to ground protects devices by equalizing their potential with ground. Wrist straps, consisting of a wristband and a coiled cord, are used to connect people to ground. With wear and use, wrist straps become damaged. Testing using a wrist strap tester is time consuming and labor intensive. Constant monitors are designed to continuously test the connection of the wrist strap system including the person, the wristband, and the coil cord to ensure that people remain grounded. To measure the connection resistance of the system, two pathways are required. To provide two pathways, a dual wire wrist strap uses a cord with two wires inside, and a wrist strap with two separate band sections and metal back plates. 3M dual wire wrist straps are designed for compatibility with dual wire constant monitors that accept a mono plug, including the 3M DWMONITOR1.

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How Dual Wire Straps Works

- Dual wire wrist straps use two paths (two wires and a two part band) to insure the connection of a person to ground.
- If one path fails, the other still grounds the person.
- The use of two paths also allows a constant monitor to test the connections by sending a signal down path 1, across the wearer's skin, and back to the monitor through path 2.
- This 'resistance test' insures proper connection of the cord, band and person.





Use a dual wire constant monitor with dual wire wrist straps.

SHEET

Dual Wire Wrist Straps

Adjustable dual conductor band

Band must contact skin to pass test.

PRODUCT DUAL WIRE WRIST STRAPS FOR DUAL WIRE CONSTANT MONITORS

1/8" mono plug compatible with most dual wire monitors.

> ITEM NUMBER DATASHEET 1117-A SEE TABLE

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DATA

Single snap to band

improved reliability

and ease of use.

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