

## Wrist Straps and Other Grounding Systems

**NEW**

The NEW 3M™ 4600 Series Adjustable Wrist Straps feature a thermoplastic band with an integrally molded conductive interior. It comes with an easy on/easy off adjustable "zipper" style latching mechanism and is available in five highly visible colors. The 4600 Series is available with 4 mm, 7 mm or 10 mm snaps and either 5 ft. or 10 ft. ground cords.



4600 Series Wrist Band

### Product No. Description

|             |                                                     |
|-------------|-----------------------------------------------------|
| <b>4610</b> | Ground Cord, Coiled, 5 ft. (1.5 m), 4 mm snap end   |
| <b>4611</b> | Ground Cord, Coiled, 10 ft. (3.0 m), 4 mm snap end  |
| <b>4612</b> | Ground Cord, Coiled, 5 ft. (1.5 m), 7 mm snap end   |
| <b>4613</b> | Ground Cord, Coiled, 10 ft. (3.0 m), 7 mm snap end  |
| <b>4614</b> | Ground Cord, Coiled, 5 ft. (1.5 m), 10 mm snap end  |
| <b>4615</b> | Ground Cord, Coiled, 10 ft. (3.0 m), 10 mm snap end |

### Product No. Color Description

|             |              |                                      |
|-------------|--------------|--------------------------------------|
| <b>4620</b> | Blue         | Wrist Band with 4 mm stud.           |
| <b>4621</b> | Green        | Wrist Band with 4 mm stud.           |
| <b>4622</b> | Purple       | Wrist Band with 4 mm stud.           |
| <b>4623</b> | Maroon       | Wrist Band with 4 mm stud.           |
| <b>4624</b> | Lime         | Wrist Band with 4 mm stud.           |
| <b>4629</b> | Mixed Colors | Five of each color packed in carton. |

|             |              |                                      |
|-------------|--------------|--------------------------------------|
| <b>4630</b> | Blue         | Wrist Band with 7 mm stud.           |
| <b>4631</b> | Green        | Wrist Band with 7 mm stud.           |
| <b>4632</b> | Purple       | Wrist Band with 7 mm stud.           |
| <b>4633</b> | Maroon       | Wrist Band with 7 mm stud.           |
| <b>4634</b> | Lime         | Wrist Band with 7 mm stud.           |
| <b>4639</b> | Mixed Colors | Five of each color packed in carton. |

| Product No. | Color        | Description                         |
|-------------|--------------|-------------------------------------|
| <b>4640</b> | Blue         | Wrist Band with 10 mm stud.         |
| <b>4641</b> | Green        | Wrist Band with 10 mm stud.         |
| <b>4642</b> | Purple       | Wrist Band with 10 mm stud.         |
| <b>4643</b> | Maroon       | Wrist Band with 10 mm stud.         |
| <b>4644</b> | Lime         | Wrist Band with 10 mm stud.         |
| <b>4649</b> | Mixed Colors | Five of each color packed in carton |

| Product No. | Color        | Description                                   |
|-------------|--------------|-----------------------------------------------|
| <b>4650</b> | Blue         | Wrist Band with 5 ft. coiled cord, 4 mm stud. |
| <b>4651</b> | Green        | Wrist Band with 5 ft. coiled cord, 4 mm stud. |
| <b>4652</b> | Purple       | Wrist Band with 5 ft. coiled cord, 4 mm stud. |
| <b>4653</b> | Maroon       | Wrist Band with 5 ft. coiled cord, 4 mm stud. |
| <b>4654</b> | Lime         | Wrist Band with 5 ft. coiled cord, 4 mm stud. |
| <b>4659</b> | Mixed Colors | Wrist Band with 5 ft. coiled cord, 4 mm stud. |

|             |              |                                               |
|-------------|--------------|-----------------------------------------------|
| <b>4660</b> | Blue         | Wrist Band with 5 ft. coiled cord, 7 mm stud. |
| <b>4661</b> | Green        | Wrist Band with 5 ft. coiled cord, 7 mm stud. |
| <b>4662</b> | Purple       | Wrist Band with 5 ft. coiled cord, 7 mm stud. |
| <b>4663</b> | Maroon       | Wrist Band with 5 ft. coiled cord, 7 mm stud. |
| <b>4664</b> | Lime         | Wrist Band with 5 ft. coiled cord, 7 mm stud. |
| <b>4669</b> | Mixed Colors | Wrist Band with 5 ft. coiled cord, 7 mm stud. |

|             |              |                                                |
|-------------|--------------|------------------------------------------------|
| <b>4670</b> | Blue         | Wrist Band with 5 ft. coiled cord, 10 mm stud. |
| <b>4671</b> | Green        | Wrist Band with 5 ft. coiled cord, 10 mm stud. |
| <b>4672</b> | Purple       | Wrist Band with 5 ft. coiled cord, 10 mm stud. |
| <b>4673</b> | Maroon       | Wrist Band with 5 ft. coiled cord, 10 mm stud. |
| <b>4674</b> | Lime         | Wrist Band with 5 ft. coiled cord, 10 mm stud. |
| <b>4679</b> | Mixed Colors | Wrist Band with 5 ft. coiled cord, 10 mm stud. |

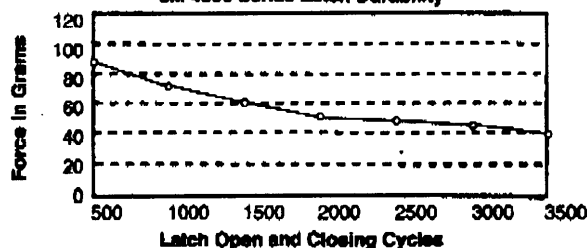
2 Items

For your nearest distributor, or to order, call 3M Customer Service at 1-800-328-1368.

## 4800 Grounding Cord Properties

| Grounding Cord                                               | Typical Value                     |
|--------------------------------------------------------------|-----------------------------------|
| Tensile Strength                                             | > 15 lbs.                         |
| Average Termination flex life per ESD S1.1 and MIL-PRF-87893 | > 200,000 flexes                  |
| Resistance End-to-end                                        | 1M $\Omega$ $\pm$ 20%             |
| Resistor Type                                                | 1M $\Omega$ -metal film $\pm$ 20% |

3M 4800 Series Latch Durability



## 4600 Wrist Band Properties

| Wrist Strap                 | Typical Value                                            |
|-----------------------------|----------------------------------------------------------|
| Wrist Band Size             | Adjustable, small/large, trim to size 1.7 to 2.7 in dia. |
| Resistance - Inside/Outside | > 100M $\Omega$                                          |
| Cleanable                   | Water/mild detergent or 10% isopropyl solution           |

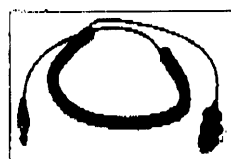
3M™ 2210, 2220 and 2240 Wrist Strap Ground Cords are highly durable with segmented strain relief, and a single bundle of tinsel conductors laced for great strength and reinforced with strong synthetic fibers. These features provide long cord life and easy movement. Each cord has a 1 megohm resistor molded into the snap end.



2210 Ground Cord



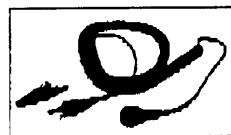
2220 Ground Cord



2243 Extension Ground Cord



2240 Ground Cord



2248 Ground Cord

| Product No. | Description                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2210        | Ground Cord, coiled 5 ft. (1.5 m) practical extended length.                                                                                                |
| 2220        | Ground Cord, coiled 10 ft. (3.0 m) practical extended length.                                                                                               |
| 2240        | Ground Cord, lightweight, heavy-duty, coiled, 5 ft. (1.5 m) practical extended length.                                                                      |
| 2248        | Ground Cord, lightweight, heavy-duty, coiled, 10 ft. (3.0 m) practical extended length.                                                                     |
| 2243        | Extension Ground Cord, lightweight, heavy-duty, coiled, 5 ft. (1.5 m) practical extended length. Can be used to extend any banana-plug type 3M ground cord. |
| 2250        | Ground Cord, Coiled, 5 ft. (1.5 m).                                                                                                                         |
| 2270        | Highland™ Ground Cord, 5 ft. (1.5 m).                                                                                                                       |
| 4610        | Ground Cord, Coiled, 5 ft. (1.5 m), 4 mm snap end.                                                                                                          |
| 4611        | Ground Cord, Coiled, 10 ft. (3.0 m), 4 mm snap end.                                                                                                         |
| 4612        | Ground Cord, Coiled, 5 ft. (1.5 m), 7 mm snap end.                                                                                                          |
| 4613        | Ground Cord, Coiled, 10 ft. (3.0 m), 7 mm snap end.                                                                                                         |
| 4614        | Ground Cord, Coiled, 5 ft. (1.5 m), 10 mm snap end.                                                                                                         |
| 4615        | Ground Cord, Coiled, 10 ft. (3.0 m), 10 mm snap end.                                                                                                        |