

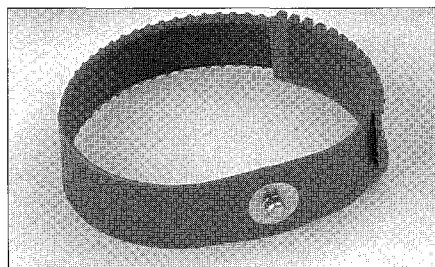


## Wrist Straps and Other Grounding Systems

## Adjustable Thermoplastic Wrist Straps

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.

**NEW**



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.

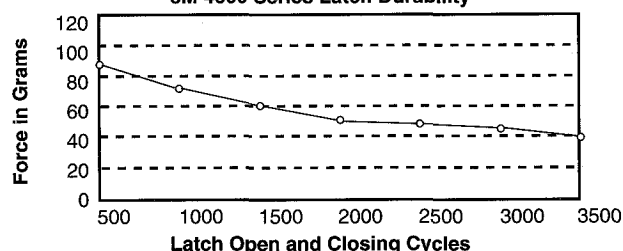
**4600 Grounding Cord Properties**

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%

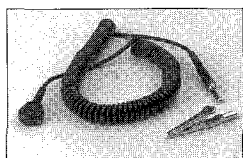
**4600 Wrist Band Properties**

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

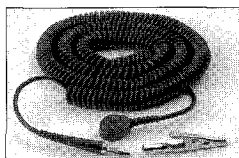
3M 4600 Series Latch Durability

**Wrist Strap Ground Cords**

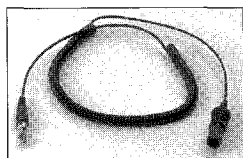
3M™ 2210, 2220 and 2240 Wrist Strap Ground Cords are highly durable with segmented strain relief, and a single bundle of tinsel conductors laced for great strength and reinforced with strong synthetic fibers. These features provide long cord life and easy movement. Each cord has a 1 megohm resistor molded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



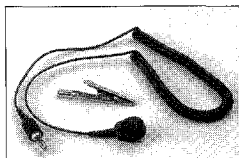
2210 Ground Cord



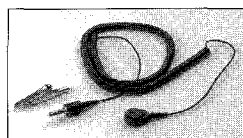
2220 Ground Cord



2243 Extension Ground Cord



2240 Ground Cord



2248 Ground Cord

Product No.	Description
<b>2210</b>	Ground Cord, coiled 5 ft. (1,5 m) practical extended length.
<b>2220</b>	Ground Cord, coiled 10 ft. (3,0 m) practical extended length.
<b>2240</b>	Ground Cord, lightweight, heavy-duty, coiled, 5 ft. (1,5 m) practical extended length.
<b>2248</b>	Ground Cord, lightweight, heavy-duty, coiled, 10 ft. (3,0 m) practical extended length.
<b>2243</b>	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.
<b>2250</b>	Ground Cord, Coiled, 5 ft. (1,5 m).
<b>2270</b>	Highland™ Ground Cord, 5 ft. (1,5 m).
<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.