

3M™ Ground Cord Product Selection Guide

| Features | Model |
|--|-----------|
| Premium | |
| Ground Cord, 15 ft. (4.5 m) with 10 mm snap, connects mats to building ground, integral 1 megohm resistor | 3040 |
| Ground Kit for 3M Static Dissipative Laminate, 10 ft. (3.0 m) cord, integral 1 megohm resistor | 3041 |
| Common Point Grounding System for 2 wrist straps, 10 ft. (3.0 m) cord | 3042 |
| Interconnect Mat Cord, 5 ft. (1.5 m) with 10 mm snap at each end, connects mats to each other | 3043 |
| Common Point Grounding System for workstation components, single-row, six terminal strip, 10 ft. (3.0 m) ground cord, integral 1 megohm resistor | 3047 |
| Common Point Grounding System for 2 wrist straps and table mat, 15 ft. (4.5 m) cord, 10 mm snap, integral 1 megohm resistor | 3048 |
| Economy | |
| Ground Cord, 15 ft. (4.5 m) with 10 mm snap, connects mats to building ground, integral 1 megohm resistor, low cost | FGC151M |
| Common Point Grounding System for 2 wrist straps and table mat, 15 ft. (4.5 m) cord, 10 mm snap, integral 1 megohm resistor, low profile, low cost | LPCGC151M |
| Metal Grounding Block Common Point Grounding System for 2 wrist straps, 10 ft. (3.0 m) cord, low cost | WSGR2 |

3M™ Dissipative Rubber Mats and Rolls (Premium Performance)

3M Static Dissipative Rubber Mats and Rolls 8800 Series consist of a top layer of static dissipative rubber laminated to a bottom layer of conductive rubber. Both layers are made from vulcanized synthetic rubber, which offers excellent resistance to oil, grease and most common solvents. They offer superior resistance to heat and hot solder as compared to vinyl or olefinic materials. Non-standard sizes are available on a custom order basis. Compatible with constant monitors.

3M™ Floor Mats 8870 Series

Dissipative floor mats include one 15 ft. (4.6 m) 3M™ Ground Cord 3040 and two 3M™ Snap Fasteners 3034 (installed).

3M™ Floor Rolls 8880/8890 Series

Dissipative floor rolls include two 15 ft. (4.6 m) 3M Ground Cords 3040 and five 3M Snap Fasteners 3034 to be installed by user.

Note: 8890 Series – no hardware included.

3M™ Table Mats 8810/8830/88A/88B Series

Dissipative table mats include two 3M™ Snap Fasteners 3034 (installed) and one 3M™ Wrist Strap Grounding System 3048.

3M™ Table Rolls 8800/8820/8840/8850/8860 Series

Dissipative table rolls include two 15 ft. (4.6 m) 3M Ground Cords 3040 and five 3M Snap Fasteners 3034 to be installed by the user.

Note: 8800, 8820 and 8850 – no hardware included.



3M™ Static Dissipative Rubber Mat

Meets the requirement of ESD Standard 4.1, ESD Standard 20.20, EIA 625, MIL-HDBK-263, and MIL-STD-1686. RTG: 10⁷ ohm; RTT: 10⁷; Thickness: .065 in. Compatible with constant monitors.

Properties

| Property | Typical Value |
|-----------------------------|---|
| Material | Top and Bottom Layers — Nitrile™ Rubber |
| Thickness | 0.065 in. (1.7 mm) |
| Hardness | 60 Shore A |
| *Resistance | |
| (Surface to Ground) | 5 x 10 ⁶ ohm |
| (Surface to Surface) | 1 x 10 ⁶ ohm |

* Tested per ESD Association Standard S4.1 at 72°F, 50% RH using 3M™ Test Kit 701 for Static Control Surfaces (Megohmmeter).

** Note: Green mat table/runner identifies work surface as a lead-free area.

| Product No. | Description | Size, ft. | (m) |
|-------------|--------------------------------|-----------|---------------|
| 8800 | Table Roll, No Hardware, Gray | 2 x 40 | (0.6 x 12.2) |
| 8801 | Table Roll, No Hardware, Blue | 2 x 40 | (0.6 x 12.2) |
| 8802 | Table Roll, No Hardware, Green | 2 x 40 | (0.6 x 12.2) |
| 8810 | Table Mat, Gray | 2 x 4 | (0.6 x 1.2) |
| 8811 | Table Mat, Blue | 2 x 4 | (0.6 x 1.2) |
| 8812** | Table Mat, Green | 2 x 4 | (0.6 x 1.2) |
| 8820 | Table Roll, No Hardware, Gray | 2.5 x 40 | (0.75 x 12.2) |
| 8821 | Table Roll, No Hardware, Blue | 2.5 x 40 | (0.75 x 12.2) |
| 8822 | Table Roll, No Hardware, Green | 2.5 x 40 | (0.75 x 12.2) |
| 8830 | Table Mat, Gray | 3 x 4 | (0.9 x 1.2) |
| 8831 | Table Mat, Blue | 3 x 4 | (0.9 x 1.2) |
| 8832 | Table Mat, Green | 3 x 4 | (0.9 x 1.2) |
| 8840 | Table Roll, Gray | 2 x 24 | (0.6 x 7.2) |
| 8841 | Table Roll, Blue | 2 x 24 | (0.6 x 7.2) |
| 8842** | Table Roll, Green | 2 x 24 | (0.6 x 7.2) |
| 8850 | Table Roll, No Hardware, Gray | 3 x 40 | (0.9 x 12.2) |
| 8851 | Table Roll, No Hardware, Blue | 3 x 40 | (0.9 x 12.2) |



| Product No. | Description | Size, ft. | (m) |
|-------------|--------------------------------|-----------|--------------|
| 8852 | Table Roll, No Hardware, Green | 3 x 40 | (0.9 x 12.2) |
| 8860 | Table Roll, Gray | 3 x 24 | (0.9 x 7.2) |
| 8861 | Table Roll, Blue | 3 x 24 | (0.9 x 7.2) |
| 8862 | Table Roll, Green | 3 x 24 | (0.9 x 7.2) |
| 8870 | Floor Mat, Gray | 4 x 6 | (1.2 x 1.8) |
| 8871 | Floor Mat, Blue | 4 x 6 | (1.2 x 1.8) |
| 8872 | Floor Mat, Green | 4 x 6 | (1.2 x 1.8) |
| 8880 | Floor Roll, Gray | 4 x 24 | (1.2 x 7.2) |
| 8881 | Floor Roll, Blue | 4 x 24 | (1.2 x 7.2) |
| 8882 | Floor Roll, Green | 4 x 24 | (1.2 x 7.2) |
| 8890 | Floor Roll, No Hardware, Gray | 4 x 40 | (1.2 x 12.2) |
| 8891 | Floor Roll, No Hardware, Blue | 4 x 40 | (1.2 x 12.2) |
| 8892 | Floor Roll, No Hardware, Green | 4 x 40 | (1.2 x 12.2) |
| 88A0 | Table Mat, Gray | 2 x 3 | (0.6 x 0.9) |
| 88A1 | Table Mat, Blue | 2 x 3 | (0.6 x 0.9) |
| 88A2 | Table Mat, Green | 2 x 3 | (0.6 x 0.9) |
| 88B0 | Table Mat, Gray | 2 x 2 | (0.6 x 0.6) |
| 88B1 | Table Mat, Blue | 2 x 2 | (0.6 x 0.6) |
| 88B2 | Table Mat, Green | 2 x 2 | (0.6 x 0.6) |

Non-standard sizes available on custom order basis up to 50 ft. (15.2 m) maximum length.



Product Referral Generator

Wrist Straps pg. 2
 Heel Grounders pg. 26
 Static Control Surface Mark Remover pg. 44



3M™ Dissipative Vinyl Three-Layer Mats and Rolls (Premium Performance)

3M Mats and Rolls 8200 Series are soft table and floor mats with a unique three-layer construction. The top layer is durable static dissipative vinyl, which has sufficiently low resistance to discharge static-laden conductors, yet will prevent the shorting of pins on the backs of printed circuit boards laid on the mat. The middle layer is a highly conductive scrim that provides the main discharge path to ground, and the bottom layer is static dissipative foam, providing a durable nonskid cushion. Non-standard sizes are available on a custom order basis. Compatible with constant monitors.

3M™ Floor Mats 8200 Series

Includes one 15 ft. (4.6 m) 3M™ Ground Cord 3040 and two 3M™ Snap Fasteners 3050 (installed).

3M™ Floor Rolls 8250, 8290, 82A Series

Includes two 15 ft. (4.6 m) 3M Ground Cords 3040 and two 3M Snap Fasteners 3050 to be installed by customer.

Note: 8290 and 82A – no hardware included.

3M™ Table Mats 8210 + 8220 Series

Includes two 3M Snap Fasteners 3050 (installed) and one 3M™ Wrist Strap Grounding System 3048. Wrist Straps must be ordered separately.

3M™ Table Rolls 8230, 8240, 8260, 8270, 8280 Series

Includes two 15 ft. (4.6 m) 3M Ground Cords 3040 and two 3M Snap Fasteners 3050 to be installed by user.

Note: 8230, 8240, 8270 and 8280 – no hardware included.



3M™ Mats and Rolls 8200 Series

Properties

| Property | Typical Value |
|-----------------------------|-------------------------------|
| Material | Top and Bottom Layers — Vinyl |
| Thickness | 0.138 in. (3.5 mm) |
| Hardness | 40 – 50 Shore A |
| *Resistance | |
| (Surface to Ground) | 1 x 10 ⁷ ohm |
| (Surface to Surface) | 4 x 10 ⁷ ohm |

* Tested per ESD Association Standard S4.1 at 72°F, 50% RH using 3M™ Test Kit 701 for Static Control Surfaces (Megohmmeter).

Note: Non-standard sizes available on custom order basis up to 50 ft. (15.2 m) maximum length.

Workstation Products

| Product No. | Description | Size, ft. | (m) |
|-------------|--------------------------------|-----------|---------------|
| 8201 | Floor Mat, Brown | 4 x 6 | (1.2 x 1.8) |
| 8203 | Floor Mat, Gray | 4 x 6 | (1.2 x 1.8) |
| 8204 | Floor Mat, Blue | 4 x 6 | (1.2 x 1.8) |
| 8211 | Table Mat, Brown | 2 x 4 | (0.6 x 1.2) |
| 8213 | Table Mat, Gray | 2 x 4 | (0.6 x 1.2) |
| 8214 | Table Mat, Blue | 2 x 4 | (0.6 x 1.2) |
| 8221 | Table Mat, Brown | 2 x 3 | (0.6 x 0.9) |
| 8223 | Table Mat, Gray | 2 x 3 | (0.6 x 0.9) |
| 8224 | Table Mat, Blue | 2 x 3 | (0.6 x 0.9) |
| 8231 | Table Roll, No Hardware, Brown | 2 x 50 | (0.6 x 15.0) |
| 8233 | Table Roll, No Hardware, Gray | 2 x 50 | (0.6 x 15.0) |
| 8234 | Table Roll, No Hardware, Blue | 2 x 50 | (0.6 x 15.0) |
| 8241 | Table Roll, No Hardware, Brown | 2.5 x 50 | (0.75 x 15.0) |
| 8243 | Table Roll, No Hardware, Gray | 2.5 x 50 | (0.75 x 15.0) |
| 8244 | Table Roll, No Hardware, Blue | 2.5 x 50 | (0.75 x 15.0) |
| 8251 | Floor Roll, Brown | 4 x 24 | (1.2 x 7.2) |
| 8253 | Floor Roll, Gray | 4 x 24 | (1.2 x 7.2) |

| Product No. | Description | Size, ft. | (m) |
|-------------|--------------------------------|-----------|--------------|
| 8254 | Floor Roll, Blue | 4 x 24 | (1.2 x 7.2) |
| 8261 | Table Roll, Brown | 2 x 24 | (0.6 x 7.2) |
| 8263 | Table Roll, Gray | 2 x 24 | (0.6 x 7.2) |
| 8264 | Table Roll, Blue | 2 x 24 | (0.6 x 7.2) |
| 8271 | Table Roll, No Hardware, Brown | 3 x 50 | (0.9 x 15.0) |
| 8273 | Table Roll, No Hardware, Gray | 3 x 50 | (0.9 x 15.0) |
| 8274 | Table Roll, No Hardware, Blue | 3 x 50 | (0.9 x 15.0) |
| 82A1 | Floor Roll, No Hardware, Brown | 4 x 50 | (1.2 x 15.0) |
| 82A3 | Floor Roll, No Hardware, Gray | 4 x 50 | (1.2 x 15.0) |
| 82A4 | Floor Roll, No Hardware, Blue | 4 x 50 | (1.2 x 15.0) |
| 8281 | Table Roll, No Hardware, Brown | 2 x 40 | (0.6 x 12.2) |
| 8283 | Table Roll, No Hardware, Gray | 2 x 40 | (0.6 x 12.2) |
| 8284 | Table Roll, No Hardware, Blue | 2 x 40 | (0.6 x 12.2) |
| 8291 | Floor Roll, No Hardware, Brown | 4 x 40 | (1.2 x 12.2) |
| 8293 | Floor Roll, No Hardware, Gray | 4 x 40 | (1.2 x 12.2) |
| 8294 | Floor Roll, No Hardware, Blue | 4 x 40 | (1.2 x 12.2) |

The requirements of ESD Standard 4.1, ESD Standard 20.20, EIA 625, MIL-HDBK-263, and MIL-STD-1686. RTG: 10⁷ ohm; RTT: 10⁷; Thickness: .0125 in. Compatible with Constant Monitors.