

PERSONNEL GROUNDING



Dual Conductor Products

- Dependable
- Convenient
- Accurate

Products comply with the requirements of ESD SP9.2 Type A

www.transforming-technologies.com



Transforming Technologies
Outstanding Alternatives in Static Control

Dependable, Convenient and Accurate. The Transforming Technologies' Dual Conductor product line is the premiere work station grounding system available. The monitoring system uses specialized wrist bands and ground cords which contain two independent conducting elements that provide fail-safe ground protection. Using the CM2015 resistance monitor, the system continuously verifies the operation of grounding systems using a DC current source to measure a loop electrical resistance. The CM2015 and grounding products prevent the build up of static charge on assembly workers, eliminating possible damage to static-sensitive electronic components. The series includes cords available in 5, 10, or 20 feet lengths and both fabric and metal wristbands.

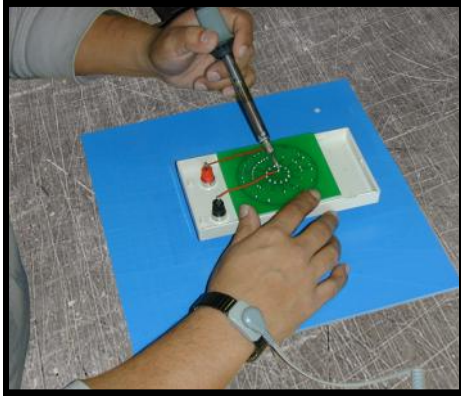
Resistance Workstation Monitor



A complete Resistance Monitor Workstation from Transforming Technologies consists of the CM2015, a dual conductor wrist band and ground cord. Utilizing very precise, low voltage, resistive loop technology, the CM2015 is an extremely sensitive and reliable instrument that uses the operator's skin resistance to determine if the system is operating properly. Audible and visible alarms are triggered if the operator's resistance exceeds 10 or 35 megohm (electable at factory with default of 35 megohm). Low resistance also triggers an alarm event.

Each monitor uses a Dual Conductor wrist strap and coil cord, WB5000, WB7000 or WB2850 from Transforming Technologies, **although other compatible wrist strap sets may be substituted.** Dual conductor wrist straps enable efficient, accurate resistance monitoring and grounding redundancy.

Dual Conductor Wrist Straps Sets



Dual Conductor wrist strap sets are used to maximize ESD protection. These specialized bands use two contact circuits to create a two paths two ground. Transforming Technologies offers three styles of bands:

- **WB0050:** An expandable Speidel®* metal band available in small, medium and large sizes.
- **WB0070:** One-size-fits-all! Features a silver-plated, monofilament, continuous thread with elastic nylon for full conductivity and comfort.
- **WB0025:** Adjustable fabric band with two 4mm snaps and 2 paths, 180 degrees around wrist.



WB5000

WB2580

WB7000

* A registered trademark of Speidel®

Transforming Technologies Dual Conductor Coil Cords provide unmatched reliability and value. The CC3000 features a double insulated jacket that provides incredible durability. A wide diameter straight plug makes it easy to insert and remove the cord from a remote input jack. The CC2080 series features dual grey and black 4mm sockets help maintain a constant connection.

Mobile Operator Grounding

Dual snap coil cords CC2080 (6') and CC2085 (12'), from Transforming Technologies, are perfect for grounding and monitoring mobile personnel in ESD controlled areas.

When used with an appropriate ESD garment, the cord frees the operator's hands and improves mobility. Dual snap cords come standard with two female snaps.



Dual Conductor Ground Cords

Feature (Typical Value)	Transforming Technologies Dual Conductor Cords				
Model Number	CC3050	CC3100	CC3200	CC2080	CC2085
Usable Working Length					
P = Practical E = Extended	P: 5 ft. E: 7 ft.	P:10 ft. E:12ft.	P: 20 ft. E: 24 ft.	P: 6 ft. E: 8 ft.	P: 12 ft. E: 13 ft.
Coil Cord Materials Double Insulated Jacket					
Cable	Hytrel	Hytrel	Hytrel	PU	PU
Over-molding					
Material	Hytrel	Hytrel	Hytrel	PU	PU
Plug End Type					
Straight or Right Angle	Straight	Straight	Straight	Right Angle	Right Angle
Plug Contact					
Tip: Stainless Steel Barrel: Ni Plated Bronze	✓	✓	✓	✓	✓
Plug Tip Diameter (Remote Plug End)					
3.0 mm (+/- 0.08mm)	✓	✓	✓	✓	✓
Plug Barrel Diameter					
Wrist Strap Connection	0.135 in. (+/- 0.003 in)	0.135 in. (+/- 0.003 in)	0.135 in. (+/- 0.003 in)	4mm (2 ea)	4mm (2 ea)
Electrical Resistance (End to End)					
Tip To Tip/ Barrel To Barrel 1 Meg ohm (+/- 10%)	✓	✓	✓	✓	✓

*This document is prepared for our customers as a service, and is to the best of our knowledge true and accurate.



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