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## QUALIFICATION REPORT – ANSI/ESD S20.20

### SCS ECWS61M-1

## ECONOMY SINGLE-WIRE ADJUSTABLE WRIST STRAP

ANSI/ESD S20.20	SCS Test Results	Test Methods
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Resistance (ohms), N=6 specimens, 10V-100V

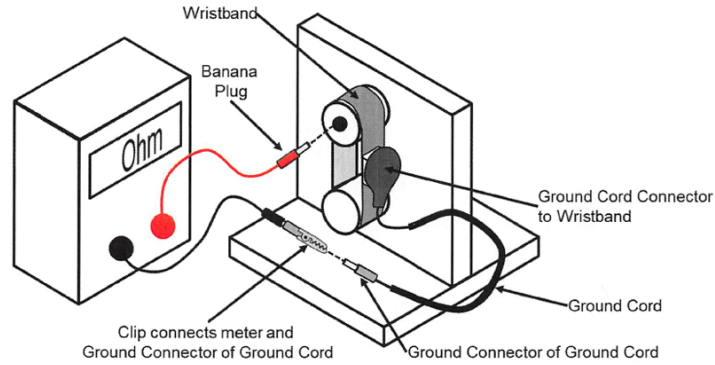
<b>Wrist Strap</b>	0.8 x 10 <sup>6</sup> to 1.2 x 10 <sup>6</sup>	See Table 1	ANSI/ESD S1.1 (Section 6.1)
<b>Wristband Interior</b>	< 1.0 x 10 <sup>5</sup>	See Table 1	ANSI/ESD S1.1 (Section 6.2)
<b>Wristband Exterior</b>	> 1.0 x 10 <sup>7</sup>	See Table 1	ANSI/ESD S1.1 (Section 6.2)
<b>Wrist Strap System</b>	< 3.5 x 10 <sup>7</sup>	See Table 1	ANSI/ESD S1.1 (Section 6.10)

#### Test Data:

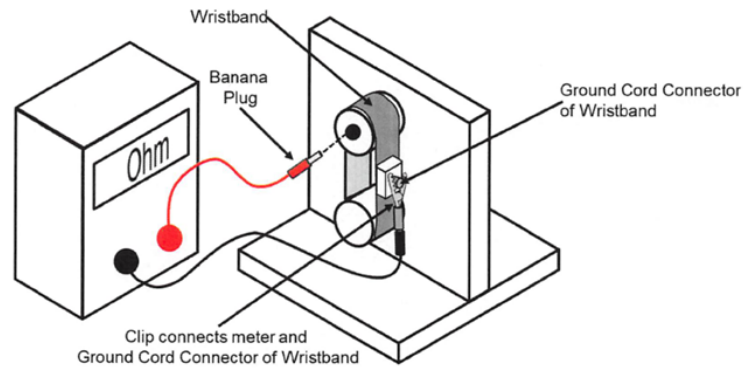
Table 1 – Resistance (ohms)

	Sample #1	Sample #2	Sample #3	Sample #4	Sample #5	Sample #6
<b>Wrist Strap</b> ANSI/ESD S1.1 – Figure 2	1.04 x 10 <sup>6</sup>	1.05 x 10 <sup>6</sup>	1.01 x 10 <sup>6</sup>	1.15 x 10 <sup>6</sup>	1.02 x 10 <sup>6</sup>	1.02 x 10 <sup>6</sup>
<b>Wristband Interior</b> ANSI/ESD S1.1 – Figure 4	< 1.0 x 10 <sup>3</sup>	< 1.0 x 10 <sup>3</sup>	< 1.0 x 10 <sup>3</sup>	< 1.0 x 10 <sup>3</sup>	< 1.0 x 10 <sup>3</sup>	< 1.0 x 10 <sup>3</sup>
<b>Wristband Exterior</b> ANSI/ESD S1.1 – Figure 4	4.42 x 10 <sup>11</sup>	7.30 x 10 <sup>11</sup>	2.13 x 10 <sup>11</sup>	2.20 x 10 <sup>11</sup>	1.55 x 10 <sup>11</sup>	3.19 x 10 <sup>11</sup>
<b>Wrist Strap System</b> ANSI/ESD S1.1 – Figure 8	1.06 x 10 <sup>6</sup>	1.07 x 10 <sup>6</sup>	1.04 x 10 <sup>6</sup>	1.09 x 10 <sup>6</sup>	1.06 x 10 <sup>6</sup>	1.05 x 10 <sup>6</sup>

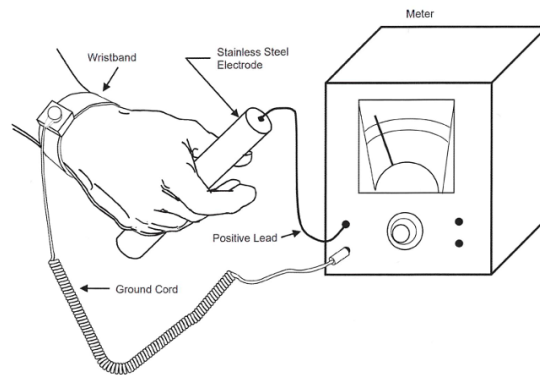
**References:**



**ANSI/ESD S1.1 – Figure 2: Set-up for Wrist Strap Resistance Test**



**ANSI/ESD S1.1 – Figure 4: Set-up for Wristband Resistance Test**



**ANSI/ESD S1.1– Figure 8: Wrist Strap System Resistance Test**