

DESCO INDUSTRIES INCORPORATED

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QUALIFICATION REPORT – ANSI/ESD S20.20

DESCO PREMIUM METAL EXPANSION DUAL-WIRE WRIST STRAPS

| ANSI/ESD S20.20 | DESCO Test Results | Test Methods |
|-----------------|--------------------|--------------|
|-----------------|--------------------|--------------|

Resistance (ohms), N=6 specimens, 10V-100V

| | | | |
|------------------------------------|--|-------------|------------------------------|
| Wrist Strap (Band and Cord) | 0.8×10^6 to 1.2×10^6 | See Table 1 | ANSI/ESD S1.1 (Section 6.1) |
| Wristband Interior | $< 1.0 \times 10^5$ | See Table 1 | ANSI/ESD S1.1 (Section 6.2) |
| Wristband Exterior | $> 1.0 \times 10^7$ | See Table 1 | ANSI/ESD S1.1 (Section 6.2) |
| Wrist Strap System | $< 3.5 \times 10^7$ | See Table 1 | ANSI/ESD S1.1 (Section 6.10) |

Test Data:

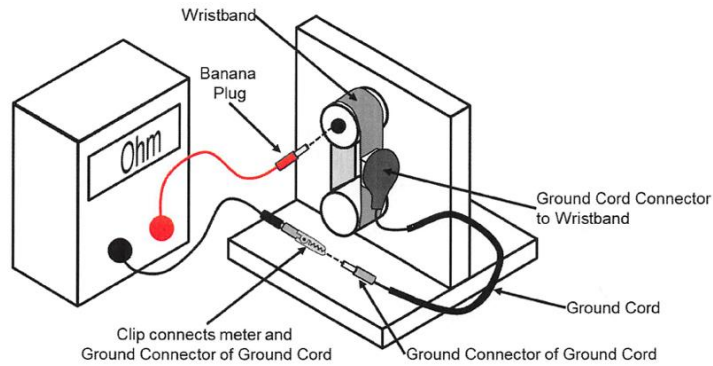
Table 1 – Resistance (ohms)

| | Sample #1 | Sample #2 | Sample #3 | Sample #4 | Sample #5 | Sample #6 |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Wrist Strap ANSI/ESD S1.1 – Figure 2 | 1.0×10^6 | 1.0×10^6 | 1.0×10^6 | 1.0×10^6 | 1.0×10^6 | 1.0×10^6 |
| Wristband Interior ANSI/ESD S1.1 – Figure 4 | $< 1.0 \times 10^3$ | $< 1.0 \times 10^3$ | $< 1.0 \times 10^3$ | $< 1.0 \times 10^3$ | $< 1.0 \times 10^3$ | $< 1.0 \times 10^3$ |
| Wristband Exterior ANSI/ESD S1.1 – Figure 4 | 3.00×10^7 | 5.65×10^7 | 2.44×10^7 | 3.25×10^7 | 2.76×10^7 | 2.67×10^7 |
| Wrist Strap System ANSI/ESD S1.1 – Figure 8 | 1.57×10^6 | 1.78×10^6 | 1.22×10^6 | 1.28×10^6 | 1.81×10^6 | 1.77×10^6 |

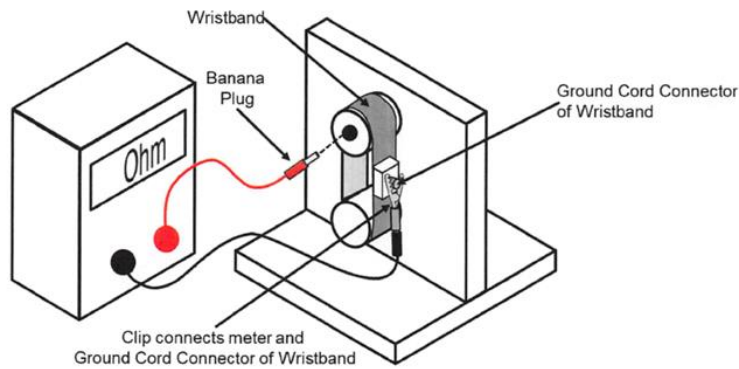
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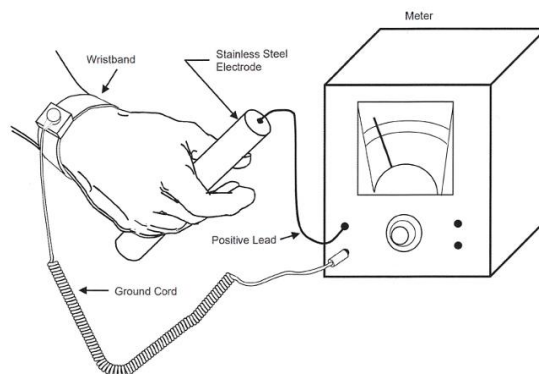
References:



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