



DESCO INDUSTRIES INC

926 JR INDUSTRIAL DRIVE, SANFORD, NC 27332 • PHONE (919) 718-0000 | (909) 627-9634 • StaticControl.com

QUALIFICATION REPORT – ANSI/ESD S20.20

SCS DUAL-WIRE, JACKET, KNITTED CUF, 3 POCKETS, NO COLLAR

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

Rpp (Resistance Point-to-Point) (ohms), 48-72 hours, 10V/100V, N=3 specimens

| | | | |
|---------------|-------------------------|-------------|-----------------|
| @ 12%RH, 23°C | < 1.0 x 10 ⁹ | See Table 1 | ANSI/ESD STM2.1 |
| @ 50%RH, 23°C | < 1.0 x 10 ⁹ | See Table 1 | ANSI/ESD STM2.1 |

Rppg (Resistance Point-to-Groundable-Point) (ohms), 48-72 hours, 10V/100V, N=3 specimens

| | | | |
|---------------|-------------------------|-------------|-----------------|
| @ 12%RH, 23°C | < 1.0 x 10 ⁹ | See Table 1 | ANSI/ESD STM2.1 |
| @ 50%RH, 23°C | < 1.0 x 10 ⁹ | See Table 1 | ANSI/ESD STM2.1 |

System – BCP to Gp (ohms), 48-72 hours, 10V/100V, N=3 specimens

(End users should verify system performance in their unique settings.)

| | | | |
|---------------|-------------------------|-----------------------------------|-----------------|
| @ 12%RH, 23°C | < 3.5 x 10 ⁷ | See Table 1 | ANSI/ESD STM2.1 |
| @ 50%RH, 23°C | < 3.5 x 10 ⁷ | See Table 1 For typical values | ANSI/ESD STM2.1 |

System – Person to Gp (ohms), 100V, N=3 specimens

(End users should verify system performance in their unique settings.)

| | | | |
|---------------|-------------------------|-----------------------------------|-----------------|
| @ 67%RH, 23°C | < 3.5 x 10 ⁷ | See Table 1 For typical values | ANSI/ESD STM2.1 |
|---------------|-------------------------|-----------------------------------|-----------------|

Test Equipment (Calibration records and test results are located at our corporate lab (Sanford, NC)):

For Test Method ANSI/ESD STM2.1:

- ETS Controlled Environment Chamber (Model 5532)
- SCS Surface Resistance Meter (Model 770761)
- DESCO Electrode, 5 lbs. (Model 50784)

Test Conditions:

| Environment | Moderate | Low |
|-------------|----------|-------|
| Humidity | 50%RH | 12%RH |
| Temperature | 23°C | 23°C |



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Test Data:

Table 1 – Resistance Results at Moderate and Low Test Conditions, 48 – 72 pre-conditioning hours

| Test Type | Test Location | Sample#1 | | Sample#2 | | Sample#3 | |
|-----------|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | | Moderate | Low | Moderate | Low | Moderate | Low |
| Rpp | LS to LFP | 8.43 x 10 ⁵ | 6.28 x 10 ⁵ | 7.71 x 10 ⁵ | 6.32 x 10 ⁵ | 7.92 x 10 ⁵ | 6.86 x 10 ⁵ |
| | LS to RFP | 1.38 x 10 ⁶ | 8.90 x 10 ⁵ | 1.31 x 10 ⁶ | 1.07 x 10 ⁶ | 1.63 x 10 ⁶ | 8.54 x 10 ⁵ |
| | LS to LBP | 8.72 x 10 ⁵ | 5.90 x 10 ⁵ | 9.80 x 10 ⁵ | 6.81 x 10 ⁵ | 9.40 x 10 ⁵ | 7.35 x 10 ⁵ |
| | LS to RBP | 1.25 x 10 ⁶ | 9.05 x 10 ⁵ | 1.49 x 10 ⁶ | 9.15 x 10 ⁵ | 1.42 x 10 ⁶ | 1.11 x 10 ⁶ |
| | LS to RS | 1.54 x 10 ⁶ | 9.21 x 10 ⁵ | 1.44 x 10 ⁶ | 9.60 x 10 ⁵ | 1.24 x 10 ⁶ | 1.22 x 10 ⁶ |
| | BCP to BCP | 9.34 x 10 ⁵ | 7.40 x 10 ⁵ | 9.27 x 10 ⁵ | 5.55 x 10 ⁵ | 9.73 x 10 ⁵ | 6.63 x 10 ⁵ |
| Rppg | LS to Gp | 1.45 x 10 ⁶ | 1.25 x 10 ⁶ | 1.87 x 10 ⁶ | 1.53 x 10 ⁶ | 2.13 x 10 ⁶ | 1.82 x 10 ⁶ |
| | LFP to Gp | 1.67 x 10 ⁶ | 1.21 x 10 ⁶ | 1.79 x 10 ⁶ | 1.28 x 10 ⁶ | 2.42 x 10 ⁶ | 1.79 x 10 ⁶ |
| | RFP to Gp | 1.39 x 10 ⁶ | 1.05 x 10 ⁶ | 1.45 x 10 ⁶ | 1.07 x 10 ⁶ | 1.64 x 10 ⁶ | 1.17 x 10 ⁶ |
| | LBP to Gp | 1.30 x 10 ⁶ | 1.29 x 10 ⁶ | 1.54 x 10 ⁶ | 1.32 x 10 ⁶ | 2.01 x 10 ⁶ | 1.65 x 10 ⁶ |
| | RBP to Gp | 1.14 x 10 ⁶ | 1.08 x 10 ⁶ | 1.72 x 10 ⁶ | 1.17 x 10 ⁶ | 1.69 x 10 ⁶ | 1.31 x 10 ⁶ |
| | RS to Gp | 1.78 x 10 ⁶ | 1.23 x 10 ⁶ | 1.83 x 10 ⁶ | 1.32 x 10 ⁶ | 2.00 x 10 ⁶ | 1.51 x 10 ⁶ |
| | BCP to Gp | 1.54 x 10 ⁶ | 1.23 x 10 ⁶ | 1.69 x 10 ⁶ | 1.35 x 10 ⁶ | 1.94 x 10 ⁶ | 1.34 x 10 ⁶ |
| System | BCP to Gp* | 1.06 x 10 ⁶ | 1.47 x 10 ⁶ | 1.09 x 10 ⁶ | 1.05 x 10 ⁶ | 1.09 x 10 ⁶ | 1.08 x 10 ⁶ |
| | Person to Gtp** | 1.42 x 10 ⁶ | | 1.40 x 10 ⁶ | | 1.34 x 10 ⁶ | |

** Test date: Low environment: 2023-07-14. Moderate environment: 2023-07-21

*** Test date: 2023-07-21

Reference:

| Test Location | | Test Type | |
|---------------|--------------------------|-----------|---|
| LS | Left Sleeve | Rpp | Resistance point-to-point |
| RS | Right Sleeve | Rppg | Resistance point-to-groundable point |
| LFP | Left Front Panel | System | Resistance in combination with a person |
| RFP | Right Front Panel | | |
| LBP | Left Back Panel | | |
| RBP | Right Back Panel | | |
| BCP | Body Contact Point | | |
| Gp | Garment Groundable Point | | |
| Gtp | Ground Termination Point | | |