

Schlegel Electronic Materials (SEM) C70 EMI gaskets provide outstanding value and performance for demanding telecommunication, server, and mainframe applications. SEM C70 gaskets are designed with Nickel-Copper cladding. These metals, when plated to our polyester rip-stop fabric, are non-abrasive to plated and painted surfaces, and maintain galvanic compatibility with a wide range of surfaces.



Specifications - Nickel-Copper C70

NiCu C70 gaskets consist of a layer of copper topped by a layer of nickel, plated to a polyester rip-stop fabric and sealed with our exclusive acrylic-based C70 coating. This fabric is non-abrasive to plated and painted surfaces. It is also quite versatile, maintaining galvanic compatibility with a wide range of surfaces. This design allows SEM to meet the design requirements of value-conscious OEMs, with no compromise to performance.

Material Specifications:

Cladding: Nickel/Copper C70 (polyester rip-stop)

Surface Resistivity: $\leq 0.066 \text{ ohm/}\blacksquare$ and $\text{CpK} \geq 2.0$

Shielding Effectiveness:

Shielding performance of gasket per MIL DTL 83528C in frequencies of 20 MHz to 10 GHz: 96dB (average)

Note: Gasket geometry and application determine actual shielding effectiveness

Contact Resistance (SEM LP-3001): 0.11 ohm-inch at 1kg load/inch

Abrasion Resistance (ASTM D3884): No change in surface resistivity: 1,000 cycles

Compliance: 2015/863/EU (RoHS 2.0)

Foam Specifications

All C70 products are constructed with SEM's unsurpassed, industry leading polyurethane foam core technology. Within the C70 cladding you can select from the following options:

- Standard, highly resilient UL 94-HB recognized foam
- Bromine-free flame retardant UL 94-V0 recognized foam

Compression Set:

The core of SEM shielding gaskets is open-celled polyether polyurethane foam in a high-resiliency (HB) formula. Compression set of foam that is encapsulated is 1% at ambient temperature, and $< 5\%$ at 70°C (158°F) when compressed 50% for 22 hours.

Shielding Effectiveness:

MIL DTL 83528 C

