

Schlegel Electronic Materials (SEM) SnCu-C50 EMI Gaskets provide excellent performance for outdoor cabinet applications. SEM SnCu-C50 gaskets are designed with Tin-Copper cladding over woven fabric. This provides good galvanic compatibility for most common frame materials. This also yields one of the lowest surface resistances available.

100% RoHS Compliant

Schlegel Electronic Materials products are marketed around the world. As such we are committed to compliance with European Union Directive 2002/95/EC (RoHS). SEM products and materials have been tested by approved third party facilities and found to be in full compliance with RoHS threshold limits for Level A and Level B substances.

The “New Schlegel Electronic Materials”

As the originator of fabric-clad foam EMI shielding technology, Schlegel Electronic Materials is the industries most trusted name. SEM continues to set the standard for quality and innovation, designing advanced solutions for a wide range of applications. And our worldwide locations ensure you get what you need – when and where you need it. From concept to production, the SEM portfolio of shielding products combines highly conductive materials with flexible foams and coatings to provide the latest electronic containment solutions.



Schlegel Electronic Materials SnCu-C50 fabric is available in a variety of outdoor cabinet sealing shapes over closed cell foam cores including EPDM and Poron.

Rectangular shapes are available utilizing SnCu-C50 fabric and Poron cores.

SnCu-C50 is also available over our type 7 open cell foam with UL94-V0 rating in D shapes.

Please contact your **Schlegel Electronic Materials** Representative for complete availability.

schlegelemi.com

electromagnetic
interference
shielding products

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Specifications – SnCu-C50

Tin-Copper SnCu-C50 Specifications

SEM's SnCu-C50 gaskets are designed to provide improved galvanic compatibility with outdoor cabinet applications while maintaining maximum shielding effectiveness.

Material Specifications:

Cladding: Tin/Copper with C50 acrylic coating (polyester plain weave)
Surface Resistivity: 0.016 Ω /sq.

Shielding Effectiveness:

Shielding performance of 1/4" x 3/8" gasket per MIL-Dtl-83528C, frequency of 20MHz to 10 GHz: 95.3 dB (average)
Note: Gasket geometry and application determine actual shielding effectiveness

Contact Resistance (SEM LP-3001): 0.09 Ω -inch @ 1Kg load/inch

Abrasion Resistance (ASTM D3884):

No change resistivity: 1,000 cycles

Color Variation:

A tin oxy-hydroxide passive layer is formed on the top of the metal which may induce light color variations in time. This layer provides a more effective corrosion protection than nickel and doesn't affect the electrical characteristics of the fabric.

Shielding Effectiveness

