

FERRISHIELD RFI/EMI Gaskets and Fabrics



The Leading Edge in EMI Shielding Technology

RoHS Compliant This product is RoHS compliant.

RFI/EMI CONDUCTIVE SHIELDING FABRIC

Shielding effectiveness is determined by a combination of two events: reflection and absorption of RF signals. Absorption depends on the bulk, or thickness, of the shield material. However, reflection occurs at the shield surface and its effectiveness is independent of thickness. Reflection is the determining factor for all high frequency signal attenuation. (Note: When these materials are used in another regime; i.e., conductive shielding gaskets, conductivity is the determinant.) Maximum reflection occurs with the highest conductivity materials. The best overall metals are copper, nickel and combinations of both - based on high conductivity, compatibility with mating metals, manufacturing versatility and cost. The large 1040mm material width (41") minimizes seams; thin 0.08-0.10mm cross sections (0.003-0.004") maximize conformability to irregular surfaces.

Applications:

- Bonding or laminating to complex geometric shapes
- ESD, RFI-EMI; shielding attenuation >70.0dB up to 10.0GHz for CuNi type
- Enclosure panels and frames, seams, joints, shield curtains for back panel openings
- RFI-EMI conductive shielding gasket cover membranes
- Architectural shielding; shielded room finishing - ceilings, walls, floors; special purpose rooms



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Conductive Adhesive

- Sheet size 1040 x 914mm (41" wide x 36" long)
 - Available in full rolls of 50 meters (-164')
- For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	FerriShield Part No.	Adhesive	Polyester Fabric Bonded with	Surface Resistivity (Ω/mm ²)	Attenuation (dB)				Price Each			
					500KHz	100MHz	300MHz	1GHz	1	2	5	10
861-SF005PCU-CA	SF005PCN-CA	Conductive	Copper / Nickel	.005	79	81	86	82	74.93	72.19	69.41	66.03
861-SF030PCU-CA	SF030PCU-HM	Conductive	Copper	.030	N/A	67	65	62	67.63	65.12	62.61	59.56
861-SF050PNI-CA	SF050PNI-CA	Conductive	Nickel	.050	N/A	72	67	63	66.62	64.14	61.67	58.66

Hot Melt Adhesive

- Sheet size 1040 x 914mm (41" wide x 36" long)
 - Available in full rolls of 100 meters (-325')
- For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	FerriShield Part No.	Adhesive	Polyester Fabric Bonded with	Surface Resistivity (Ω/mm ²)	Attenuation (dB)				Price Each			
					500KHz	100MHz	300MHz	1GHz	1	2	5	10
861-SF005PCN-HM	SF005PCN-CA	Hot Melt	Copper / Nickel	.005	79	81	86	82	62.75	60.41	58.09	55.25
861-SF030PCU-HM	SF030PCU-HM	Hot Melt	Copper	.030	N/A	67	65	62	60.48	58.24	56.00	53.26
861-SF050PNI-HM	SF050PNI-HM	Hot Melt	Nickel	.050	N/A	72	67	63	54.36	52.35	50.33	47.88

No Adhesive

- Sheet size 1040 x 914mm (41" wide x 36" long)
 - Available in full rolls of 100 meters (-325')
- For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	FerriShield Part No.	Adhesive	Polyester Fabric Bonded with	Surface Resistivity (Ω/mm ²)	Attenuation (dB)				Price Each			
					500KHz	100MHz	300MHz	1GHz	1	2	5	10
861-SF005PCN	SF005PCN-CA	None	Copper / Nickel	.005	79	81	86	82	56.09	54.01	51.93	49.40
861-SF030PCU	SF030PCU	None	Copper	.030	N/A	67	65	62	48.77	46.96	45.15	42.95
861-SF050PNI	SF050PNI	None	Nickel	.050	N/A	72	67	63	42.97	42.92	42.89	42.04

EMC Conductive Shielding Aluminum

A high performance, cost-effective sheet shielding material. Very good electrical and thermal conductivity, high reflectivity and resistance to oxidation and corrosive environments. Composition is a four-layer matrix of static dissipative-EMC coating/polyester/Aluminum/polyethylene.

- Sheet size 1040 x 914mm (41" wide x 36" long)
- Available in full rolls of 182 meters (-600')

For quantities of 25 and up, call for quote.

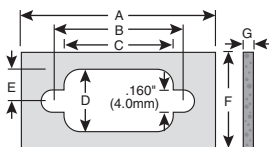
MOUSER STOCK NO.	FerriShield Part No.	Adhesive	Polyester Fabric Bonded with	Attenuation (dB)				Price Each			
				500KHz	100MHz	300MHz	1GHz	1	2	5	10
861-SF100PAL	SF100PAL	None	Aluminum	48	65	65	60	6.41	6.24	6.16	5.91

D-Sub RFI/EMI Shielding Gaskets

- Conformable to irregular surfaces
- Eliminates gap problems between connector and I/O surface plates
- Compresses from 0.10" to 0.025"



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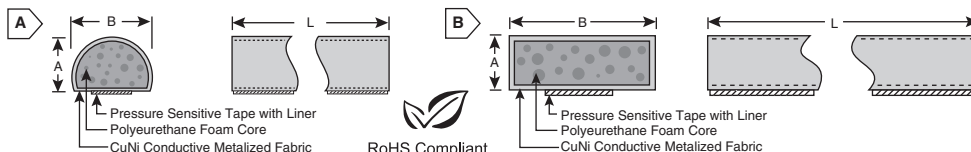


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MOUSER STOCK NO.	FerriShield Part No.	Conductors	Dimensions: mm						Price Each			
			A	B	C	D	E	F	1	25	50	100
861-SG140009DS	SG140009DS	9 Pin	35.6	24.9	19.8	11.2	5.6	17.8	1.34	1.28	1.23	1.19
861-SG175015DS	SG175015DS	15 Pin	44.5	33.3	28.2	11.2	5.6	17.8	1.50	1.46	1.40	1.35
861-SG228025DS	SG228025DS	25 Pin	57.9	47	41.9	11.2	5.6	17.8	1.66	1.62	1.55	1.49
861-SG293037DS	SG293037DS	37 Pin	74.4	63.5	58.2	11.2	5.6	17.8	1.82	1.73	1.67	1.60
861-SG284050DS	SG284050DS	50 Pin	72.1	61.2	55.9	14.2	7.1	20.3	2.55	2.42	2.33	2.24

RFI/EMI Metallized Fabric over Foam Shielding Gaskets

- Omnidirectional compression loading from any angle
- Quick, easy adhesive mounting on any surface
- Groove mount or surface mount
- Eliminates the need for mechanical clip-ons
- Universally functional for most applications
- Copper-nickel metallized fabric over open cell polyurethane foam



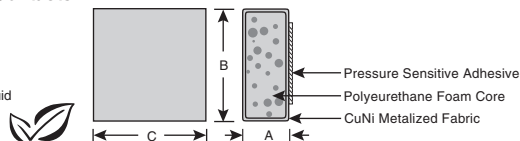
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MOUSER STOCK NO.	FerriShield Part No.	Fig.	Shape	Surface Resistivity (Ω/Lin. Inch)	Dimensions: mm			Price Each			
					A	B	L	1	25	50	100
861-SG187250D-24	SG187250D-24	A	D Shape RFI	0.005-0.01	4.7	6.35	610	5.02	4.99	4.95	4.38
861-SG250375D-24	SG250375D-24	A	D Shape RFI	0.005-0.01	6.35	9.5	610	8.19	7.60	7.05	5.32
861-SG375500D-24	SG375500D-24	A	D Shape RFI	0.005-0.01	9.5	12.7	610	10.20	9.25	8.50	7.06
861-SG125187D-24	SG125187D-24	A	Micro D Shape RFI	0.005-0.01	3.2	4.7	610	5.44	5.04	4.68	3.53
861-SG060125R-24	SG060125R-24	B	Rectangular RFI	0.005-0.01	1.2	3.2	610	3.15	3.11	3.08	2.72
861-SG125250R-24	SG125250R-24	B	Rectangular RFI	0.005-0.01	3.2	6.35	610	4.24	4.12	3.96	3.70
861-SG187375R-24	SG187375R-24	B	Rectangular RFI	0.005-0.01	4.7	9.5	610	5.46	5.31	5.10	4.82

RFI/EMI Shielding Contacts

- Very low profile
- Low compression force
- Simple adhesive mounting
- Excellent alternative to liquid Form-in-place gaskets



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MOUSER STOCK NO.	FerriShield Part No.	Surface Resistivity (Ω/Lin. Inch)	Dimensions: mm			Price Each			
			A	B	C	1	25	50	100
861-SC060138R	SC060138R	0.005-0.01	1.2	3.5	3.5	.48	.47	.43	.341

Thermal Transfer Material

- Fills microscopic gaps promoting efficient heat transfer between component and heatsink
- For each increase in operating temperature of 10°C, component life decreases 50%
- 4 grades accommodate most applications
- Sheet size 300x200x1.0mm



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MOUSER STOCK NO.	FerriShield Part No.	Thermal Conductivity (W/m-K)	Color	Withstand Voltage (KV)	Price Each			
					1	2	5	10
861-TGF120K	TGF120K	1.2	Black	16	16.36	14.89	13.74	12.76
861-TGF150D	TGF150D	1.5	Light Gray	14	21.47	19.54	18.03	16.75
861-TGF280L	TGF280L	2.8	Dark Gray	13	27.21	24.76	22.86	21.23
861-TGF600M	TGF600M	6.0	Brown	13	55.67	50.66	46.76	43.42