

## Shielding Effectiveness Attenuation Characteristics

(typical products we sell - these are maximum values with optional components)

Model	Magnetic	Electric/Plane Waves			Microwave
	15KHz	15KHz	400MHz	1GHz	10GHz
USC - 26	58dB	120dB	120dB	120dB	110dB
USC - 44	40dB	100dB	100dB	85dB	60dB
AL2.5	15dB	65dB	45dB	40dB	40dB
AL5	40dB	90dB	92dB	90dB	88dB
AL20	50dB	90dB	100dB	92dB	90dB
X25	40dB	90dB	92dB	92dB	90dB
Ramsey AL	-	100dB	100dB	100dB	60dB
Ramsey SS	-	110dB	110dB	110dB	98dB
SFI DW Nova	39dB	35dB	94dB	98dB	100dB
SFI DW Juno	36dB	28dB	70dB	80dB	80dB

### Shielding Effectiveness (dB)

20  
40  
60  
80  
100  
120

### Attenuation Ratio

10 : 1  
100 : 1  
1,000 : 1  
10,000 : 1  
100,000 : 1  
1,000,000 : 1

### Percent Attenuation

90.0  
99.0  
99.9  
99.99  
99.999  
99.9999

Shielding effectiveness values are expressed in logarithmic, not linear, terms. Therefore, 80 dB of shielding effectiveness is not double the 40 dB level, but 100 times greater. Another way to express effectiveness is attenuation ratio, which compares the attenuation signal strength outside and inside the shield as shown above.

