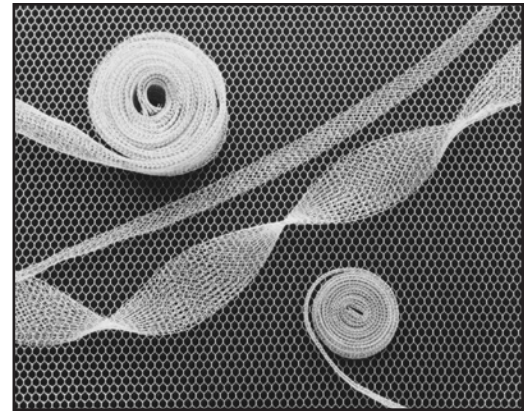


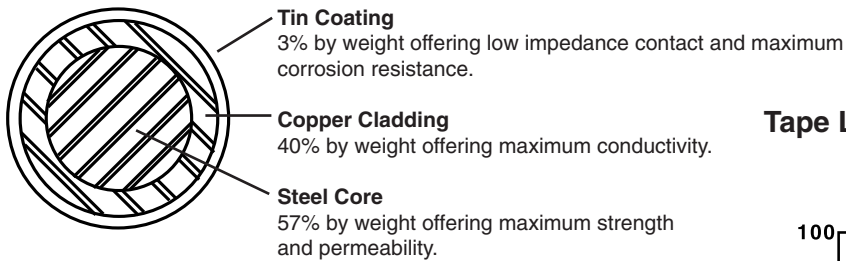
# Knitted Wire Mesh Tape (1000 Series)

Knitted Mesh Tape is a double-layered strip of knitted wire mesh providing an effective EMI shield for electrical and electronic cable assemblies. The knitted construction maximizes conformability and flexibility while minimizing bulk and weight. Knitted mesh tape uses Sn/Cu/Fe knitted or Monel wire to provide good physical strength and shielding effectiveness.



Recommended lead for most applications is 13mm (0.50 in.), although some additional shielding will be achieved when utilizing a 6mm (0.25 in.) lead. The length of EMC Shielding Tape required for each cable using these two types of lead wraps can be obtained by referring to Figure 2.

## Cross Section of Sn/Cu/Fe Wire — Figure 1



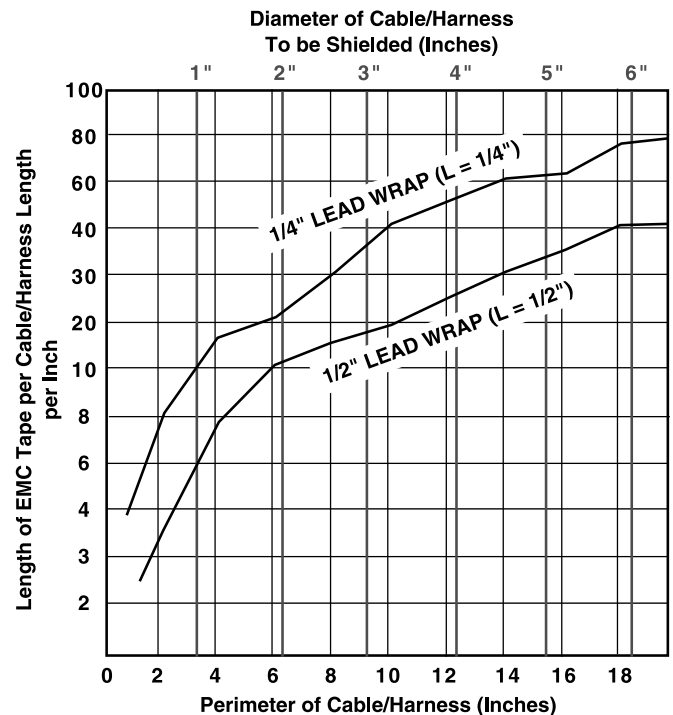
## Specifications

Material Description	
<b>Wire Mesh</b>	Sn/Cu/FE (tin-coated, copper-clad steel — see Figure 1) 0.114 + 0.012 mm (.0045 + .0005 in.) diameter in accordance with ASTM B-520.
<b>Width</b>	25.4 mm (1.00 in.) nominal
<b>Thickness</b>	0.45 mm (.02 in.) nominal.
<b>Weight</b>	745 grams per 100 meters (8.0 oz. per 100 feet)

Performance Characteristics	
<b>Pull Strength</b>	222 Newtons (50 lbs.)
<b>Elongation (Maximum)</b>	100 percent
<b>Necking (Typical)</b>	47 percent at 111 Newtons (25 lbs.) 75 percent at 222 Newtons (50 lbs.)

Material	H-Field 100 kHz	E-Field 10MHz	Plane Wave	
			1 GHz	10GHz
Sn/Cu/Fe	45	60	40	30

## Tape Length vs Cable Size — Figure 2



Part Number	Sleeve Dia.	Mesh Width
1008-07004-xx	0.437"	0.312" to 0.437"
1012-07006-xx	0.625"	0.500" to 0.625"
1016-07007-xx	0.750"	0.625" to 0.750"
1020-07008-xx	0.875"	0.750" to 0.875"
1026-07010-xx	1.125"	1.000" to 1.250"
1034-07016-xx	1.250"	1.250" to 1.500"
1042-07022-xx	2.250"	2.000" to 2.500"
1100-07065-xx	5.500"	7.000" to 8.000"

xx: 31 for monel wire; 32 for aluminum wire;  
34 for tin-plated, copperclad steel.