

Knitted Wire Mesh Tape (1000 Series)

Product Summary

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.

Product Application

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.

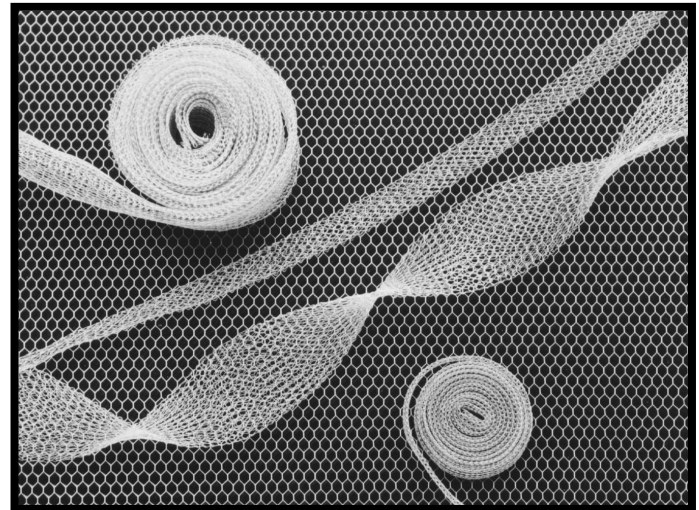
Product Technical Data

Specifications

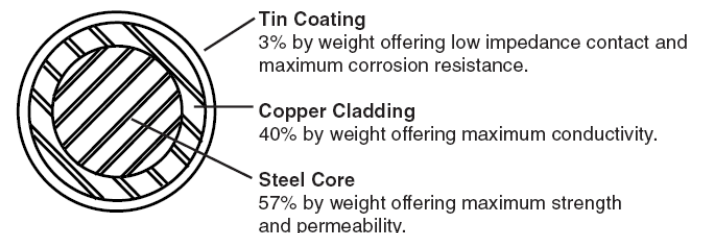
Material Description	
Wire Mesh	Sn/Cu/FE (tin-coated, copper-clad steel — see Figure 1) 0.114 + 0.012 mm (.0045 + .0005 in.) diameter in accordance with ASTM B-520.
Width	25.4 mm (1.00 in.) nominal
Thickness	0.45 mm (.02 in.) nominal.
Weight	745 grams per 100 meters (8.0 oz. per 100 feet)

Performance Characteristics	
Pull Strength	222 Newtons (50 lbs.)
Elongation (Maximum)	100 percent
Necking (Typical)	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



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



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"
1062-07027-xx	2.750"	2.750" to 3.125"
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.

Knitted Wire Mesh Tape (1000 Series) (Cont.)

Tape Length vs Cable Size — Figure 2

