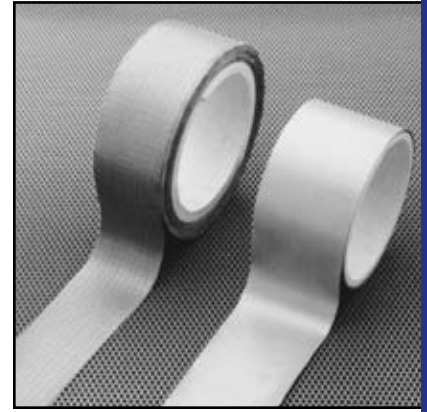
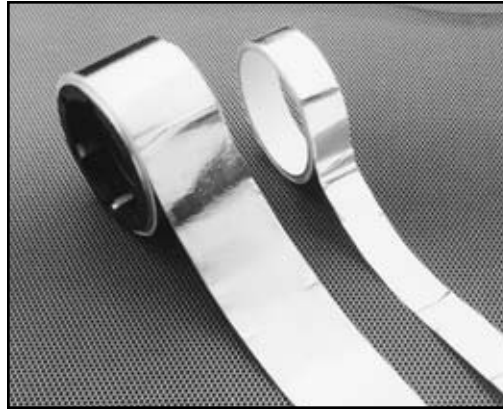


# EMI Shielding Tape with Conductive Adhesive (2800 Series)



Tapes are an economical EMI shielding solution for a variety of commercial uses. The tapes are available in copper, aluminum or tinned copper foil backed with highly conductive pressure-sensitive adhesives. Copper tape meets the requirements of MIL-T-47012 for corrosion resistance. Conductive adhesive backed copper tape is available in both flat and corrugated finish. Typical properties are shown in Table 1.

Copper tape is available with a non-conductive adhesive for application requiring surface conductivity only. Standard length rolls and die-cut custom shapes can be ordered.

## Typical Applications for Shielding Tapes

*Provide a low impedance connection between a braided cable shield and the metal connector backshell in molded cables. An effective EMI-shielded assembly can be achieved without soldering the tape to the braid or backshell.*

- EMI radiation measurement trouble-shooting, using tape to shield ventilation slots or seam gaps.
- Provide electrical continuity in seams of EMI shielding rooms and electronic enclosures.
- Supply electrical contact to surfaces that can't be soldered, such as conductive plastic or aluminum.
- Provide EMI shielding for cables when tape is wrapped around the cable. (An overlap is recommended.)
- Provide ESD shielding.
- Provide corrosion-resistant ground contact points.
- Fabric tape available where weight and flexibility are important, such as for wrapping cables.

Properties — Table 1

Property	Test Method	Typical Values					
Fabric/Foil Type	—	1 oz. RA Copper	Aluminum	1 oz. RA Copper	Aluminum	Nickel-Plated Cloth	
Fabric/Foil Thickness (mm)	—	1.4 (.0356)	2 (.0508)	1.4 (.0356)	2 (.0508)	5 (.127)	
Adhesive Type	—	Electrically Conductive Acrylic Pressure Sensitive					
Adhesive Thickness (mm)	—	1.5 (.0381)			1 side Only		1.5 (.0381)
Total Thickness (mm)	—	2.9 (.0737)	3.5 (.0889)	4.4 (.1118)	5 (.127)	6.5 (.165)	
Temperature Range °F (°C)	—	-40 to 400 (-40 to 205)				-40 to 180 (-40 to 82)	
Electrical Resistance ohms/in <sup>2</sup> (ohms/cm <sup>2</sup> )	MIL-STD-202C	<.003 (.0004)	<.010 (.002)	<.010 (.002)	<.010 (.002)	<.100 (.020)	
Flame Resistance	UL Subject 510	PASS	PASS	MEETS	MEETS	N/A	
Adhesion to Aluminum oz./inch (ppi) (N/m)	ASTM D1000	>40 [2.5] (438)					