

EMI Shielding Tape with Conductive Adhesive (2800 Series)

Product Summary

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.

Product Application

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.

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



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Product Technical Data

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)	—	2 sides: 1.5 each (.0381 each)				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 ² (ohms/cm ²)	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)				

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