

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 or aluminum backed with conductive pressure-sensitive adhesives.



Copper tape meets the requirements of MIL-T-47012 for corrosion resistance. Typical properties are shown in Table 1.

Copper tape is available with a non-conductive adhesive for applications requiring surface conductivity only. Standard length rolls and die-cut custom shapes can be ordered. Other types of shielding tape are available by request.

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

	Copper Foil with Conductive Acrylic Adhesive	Aluminum Foil with Conductive Acrylic Adhesive	Nickel Copper with Conductive Adhesive
Color	Copper	Silver	Gray
Temperature Resistance	155 degrees C	—	-40 C to +110 C
Resistivity through Adhesive	10 milliohms/square inch	40 milliohms/square inch	50 milliohms/square inch
Elongation at Break	4%	5%	—
Backing	.0014" (1oz) Copper Foil	.0018" Aluminum Foil	0.003" conductive fabric
Adhesive	Conductive Acrylic	Conductive Acrylic	—
Inter Liner	Polyethelene Coated Paper Line	—	—
Adhesive (thickness)	—	—	.002"
Peel Strength	35 oz./inch of width	35 oz./inch of width	51 oz./inch of width
Breaking Strength	25 lbs./inch of width	15 lbs./inch of width	—
RFI attenuation	—	—	90 – 100 dB from 20 MHz to 10 GHz
Tape Dimensions (Max)	—	—	Width 1000mm, Length 100 M