



NEPTAPE® Data Sheet

SHIELDING TAPE - Standard Film/Foil Laminates NEPTAPE® 1099

Construction: 0.00048" (12 μ) polyester film
0.00070" (18 μ) 0.5 ounce electrodeposited copper foil

Description: Copper laminate typically used as a salt corrosion resistant shield in military cable.

Typical Properties	US Customary	Metric	Test Method
Thickness	0.0013 inches	33 microns	ASTM D374
Yield	28.4 ft ² /lb 2.93 lbs/mft @ 1" wide	5.8 m ² /kg 1.72 kg/km @ 10mm wide	NEPTCO TM-002
Tensile Strength	31,700 psi	219 MPa	Calculated
Break Strength	41 lbs/in width	72 N/10mm width	ASTM D882
Elongation at Break	15%	15%	ASTM D882
Dielectric Strength of Film	2.8 kV	2.8 kV	Supplier Data
Dielectric Constant of Film	3.0 (dimensionless)	3.0 (dimensionless)	Supplier Data
Density	NA	5.21 g/cm ³	Calculated
Electrical Resistance	13 Ω /mft @ 1" wide	108 Ω /km @ 10mm wide	Supplier Data
Colors	Natural (Copper)		
Splice Type	#13, max. 5/pad for < 22" OD or 6/pad for > 22" OD Max. 1/1000' for traverse packages		
Standard Pad Put-ups	Core ID - 3" or 6" Pad OD - 12" or 18"		
Standard Traverse Put-ups	3" x 5.75" x 3.5" - narrow slit material 3" x 11" x 3"		

*ASTM Test Methods are listed for reference only. Actual testing performed according to modified equipment and conditions. Specific test methods available upon request.

The data presented here is intended for product selection purposes only. Typical properties represent data characteristics of the product, but do not necessarily reflect minimum values during normal testing. Specification data can be provided upon request.