



NEPTAPE® Data Sheet

Foil Free Edge Shielding Tapes NEPTAPE® F5542

Construction: 0.00048" (12μ) "wide" polyester film (foil free edge)
0.00048" (12μ) co-extruded polyester film
0.00035" (9μ) aluminum foil

Description: Three ply tape with a thicker film layer which overlaps the foil, combining the attributes of a standard shielding tape with a core binder in typical applications such as process control cable.

Typical Properties	US Customary	Metric	Test Method
Thickness	0.0015 inches	38 microns	ASTM D374
Tensile Strength	23,100 psi	160 MPa	Calculated
Break Strength	35 lbs/in width	61 N/10 mm width	ASTM D882
Elongation at Break	123%	123%	ASTM D882
Dielectric Constant of Film	3.0 (dimensionless)	3.0 (dimensionless)	Vendor Data
Electrical Resistance	42 Ω/mft @ 1" wide	350 Ω/km @10mm wide	Calculated
Colors	Blue		
Splice Type	#5 Film, #53 Finished Product 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" Core OD - 12" or 18"		
Standard Traverse Put-Ups	3" x 11" x 3"		

PLEASE SEE REVERSE SIDE FOR YIELD INFORMATION

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Yield: Below are the most popular widths for F5542. Other aluminum and foil free widths are available upon request. Foil free edges may be ordered in increments of 0.062" (1.6 mm).

Width				Yield	
Foil		Outer Film			
inch	mm	inch	mm	lbs/mft	kgs/km
0.2500	6.4	0.3750	9.5	0.29	0.44
0.3750	9.5	0.5000	12.7	0.42	0.63
0.5000	12.7	0.7500	19.1	0.59	0.87
0.5000	12.7	0.6250	15.9	0.55	0.82
0.5625	14.3	0.6875	17.5	0.61	0.91
0.6250	15.9	0.8750	22.2	0.71	1.06
0.6250	15.9	0.7500	19.1	0.68	1.01
0.6875	17.5	0.8125	20.6	0.74	1.10
0.7500	19.1	0.8750	22.2	0.81	1.20
0.7500	19.1	1.0000	25.4	0.84	1.25
0.8750	22.2	1.1250	28.6	0.97	1.44
1.0000	25.4	1.2500	31.8	1.10	1.63
1.5000	38.1	1.7500	44.5	1.61	2.40
2.0000	50.8	2.2500	57.2	2.12	3.16
2.7500	69.9	3.0000	76.2	2.89	4.31

*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.