



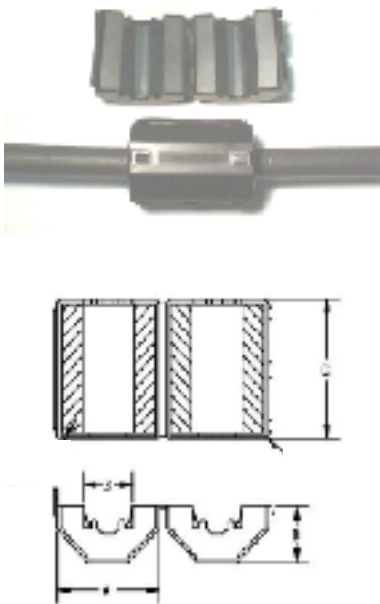
Fair-Rite Products Corp.®

Your Signal Solution®



High Impedance "Snap It" EMI Suppression Cores For 19 & 25.4 mm Diameter Cables

To accommodate larger cable diameters and wire harnesses, Fair-Rite has introduced two new larger "Snap-It" suppression assemblies in two materials. These new cores are designed to fit 19mm (.750") and 25.4mm (1.000") diameter cables. Both these new designs are available in the MnZn 31 as well as in the NiZn 44 material. Plastic cases firmly hold the suppressor cores while allowing for an easy snap on installation. The cases are molded from polypropylene with a UL 94-V0 flammability rating. For additional information or samples, visit our web site at www.fair-rite.com, or phone (845) 895-2055.



Material Specifications

Property	Unit	Symbol	44	31
Initial Permeability @ B< 10 Gauss		μ_i	500	1500
Flux Density @ Field Strength	gauss oersted	$\frac{B}{H}$	3000 10 @ 25° C	3400 5 @ 25° C
Residual Flux Density	gauss	B_r	1100	2500
Coercive Force	oersted	H_c	0.45	0.35
Loss Factor @ Frequency	10^{-6} MHz	$\tan \delta / \mu_i$	125 1.0	20 0.1
Curie Temperature	°C	T_c	>160	>130
Resistivity	Ω -cm	ρ	1×10^9	3×10^3

Part Number	Max. Cable Diameter	A	B*	C	D	Typical Impedance (Ω) ¹		
						10 MHz	25 MHz	100 MHz
0431176451	18.7	38.6	18.35	47.5	19.15	130	225	380
	.736	1.520	.722	1.870	.754			
0444176451	18.7	38.6	18.35	47.5	19.15		175	365
	.736	1.520	.722	1.870	.754			
0431177081	25.9	56.4	25.4	42.95	27.45	145	235	375
	1.020	2.220	1.000	1.690	1.080			
0444177081	25.9	56.4	25.4	42.95	27.45		195	340
	1.020	2.220	1.000	1.690	1.080			

Dimensions (Bold numbers are in millimeter, light numbers are nominal in inches.)

* Nominal core dimension

¹ Guaranteed Z Min is Z Typ -20%

