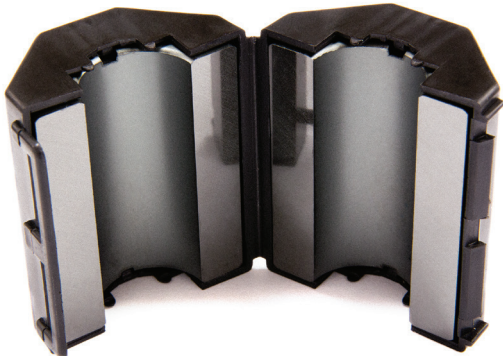




## 75 Material for Low Frequency Suppression

Once again, Fair-Rite Products Corp. is the first to introduce an innovative solution to the electronics industry! Our new 75 material is now available in Snap-It form so you can quickly find a solution to your low-frequency noise issues. Providing enhanced impedance between 150 kHz and 10 MHz, this material is superior to any other product available on the market and delivers **twice the impedance** at 1 MHz.



Ideal for cable assemblies, 75 material suppresses noise caused by conducted common-mode, low-frequency EMI from sources such as switching power supplies. Fair-Rite provides comparable impedances in both solid and Snap-It cores, allowing you to troubleshoot your EMI issues knowing the performance will be analogous in your final product while requiring fewer turns (and a shorter cable!).

For more information or to obtain a sample kit: please contact your local sales rep or visit our website: [www.fair-rite.com](http://www.fair-rite.com)

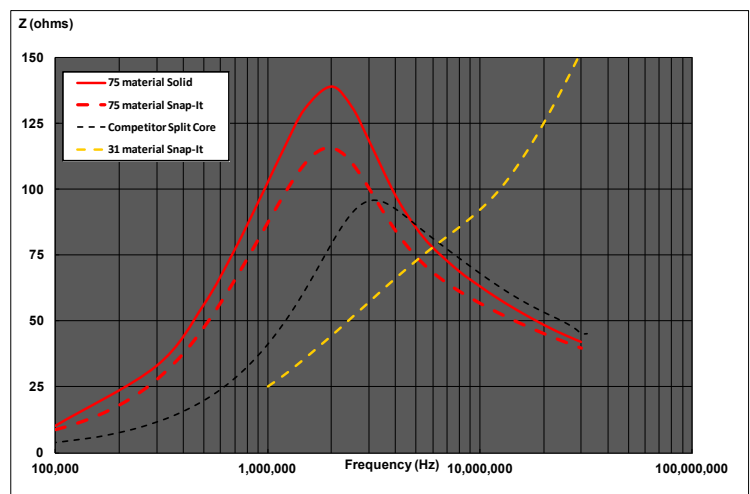
### Key Benefits:

- Optimized to solve low-frequency EMI issues between 150 kHz and 10 MHz
- Suppresses common-mode noise up to 30 MHz
- Replaces expensive line filters to mitigate conducted noise
- Split cores closely resemble solid cores, allowing seamless transitions from test to production

### Applications:

- **Automotive:** Inverter assemblies, inductive motors
- **Consumer Electronics:** Power supplies, peripheral cables
- **Medical:** Transducer isolation, human-machine interfaces
- **White Goods:** Control units, motors

Comparison of Material Cable Cores





# 75 Material

Our engineering kits are available to test materials and sizes so you can select the part that's right for you! With both Snap-It and Solid cores, you can use these on either terminated or non-terminated cables for easier test and implementation regardless of the application.

## Optimal Impedance Frequency Band

Solid Cores	Nominal Dimension [mm]			Typical Impedance ( $\Omega$ )											
				200 kHz			500 kHz			1 MHz			5 MHz		
	Part Number	A (OD)	B (ID)	C (Ht)	# of turns			# of turns			# of turns			# of turns	
1					3	5	1+	3	5	1+	3	5	1+	3	5
2675023002	9.50	5.10	19.05	20	160	500	43	394	1070	68	620	1695	96	870	2384
2675540202	14.30	6.35	13.45	17	130	400	39	347	940	58	530	1470	52	475	1317
2675540002	14.30	6.35	28.60	32.5	255	800	80	737	2016	133	1200	3280	95	858	2347
2675625102	15.90	7.90	28.60	27	245	635	60	535	1460	83	718	2000	50	447	1240
2675665702	17.40	9.50	28.60	23	185	600	56	504	1392	102	907	2536	82	765	2100
2675626402	18.70	10.15	28.60	25	230	640	62	560	1600	92	850	2350	67	610	1660
2675102002	25.90	12.85	28.60	34	300	584	83	767	2170	120	1110	3120	54	485	1260
2675821502	31.00	19.00	15.00	12	110	310	29.5	268	752	43	391	1086	20	182	498
<b>Snap-It Cores</b>															
0475181651	12.80	5.10	25.00	14	114	330	35	290	820	66	540	1500	110	1000	2800
0475164281	20.00	6.60	39.40	19	180	500	49	470	1350	102	990	2700	110	960	2600
0475178281	21.50	9.00	39.40	18	163	450	46	430	1200	87	790	2200	74	660	1800
0475167281	23.70	10.15	39.40	17	152	418	47	400	1120	92	810	2260	67	600	1810
0475164181	31.00	13.05	39.40	20	180	500	58	520	1470	102	890	2500	50	445	1220
0475176451	38.60	18.35	47.50	30	275	760	92	850	2400	130	1180	3270	66	585	1600

+ Indicates actual test frequency



SLF/75PROMO Rev 2/15