

# TOROIDAL SUPPRESSION CORE KITS



Toroidal suppression cores stand out as essential components in electronics and power systems. The toroidal shape of these cores allows for compact and efficient winding of wire around a closed loop core, minimizing electromagnetic interference and providing superior performance. These kits allow engineers to experiment with different materials and sizes to achieve the required amount of impedance. Including five materials to target EMI from as low as 100s of kHz to over 1GHz. Separating these from normal ferrite toroids, these are rated and built to impedance specifications as opposed to the normal low frequency inductance factor and maximum loss factor specifications.

For more information on Fair-Rite® Toroidal Suppression Cores, please visit our web site at [www.fair-rite.com](http://www.fair-rite.com). For more specific questions use the [Ask the Advisor](#) section.

## TOROIDAL SUPPRESSION CORE KITS:

**75 MATERIAL TOROIDAL SUPPRESSION CORE KIT**  
PN: 0199000053

**52 MATERIAL TOROIDAL SUPPRESSION CORE KIT**  
PN: 0199000056

**31 MATERIAL® TOROIDAL SUPPRESSION CORE KIT**  
PN: 0199000054

**61 MATERIAL™ TOROIDAL SUPPRESSION CORE KIT**  
PN: 0199000057

**44 MATERIAL TOROIDAL SUPPRESSION CORE KIT**  
PN: 0199000055

**ATTENUATION STATION**  
PN: 0199000058  
*Includes: 0199000053, 0199000054, 0199000055, 0199000056, 0199000057*

### 75 MATERIAL CORES - OPTIMAL FREQUENCY: 100kHz - 30MHz

PART NUMBER	OD	ID	HEIGHT	QTY
2675800102	5.95	3.05	1.65	24
2675800202	9.50	4.75	3.30	16
2675800302	12.70	7.15	4.90	10
2675801102	12.70	7.90	6.35	8
2675801802	22.10	13.70	6.35	16
2675801202	29	19	13.85	4
2675805302	34.5	23	15	4
2675828302	61	34.5	20	3

### 31 MATERIAL® CORES - OPTIMAL FREQUENCY: 1MHz - 300MHz

PART NUMBER	OD	ID	HEIGHT	QTY
2631800102	5.95	3.05	1.65	24
2631800202	9.50	4.75	3.30	16
2631800302	12.70	7.15	4.90	10
2631801102	12.70	7.90	6.35	8
2631801802	22.10	13.70	6.35	16
2631801202	29	19	13.85	4
2631805302	34.5	23	15	4
2631828302	61	34.5	20	3



# TOROIDAL SUPPRESSION CORE KITS

## 44 MATERIAL CORES - OPTIMAL FREQUENCY: 10MHz - 300MHz

PART NUMBER	OD	ID	HEIGHT	QTY
2644800102	5.95	3.05	1.65	24
2644800202	9.50	4.75	3.175	16
2644800302	12.70	7.15	4.90	10
2644801102	12.70	7.90	6.35	8
2644801802	22.10	13.70	6.35	16
2644801202	29	19	13.85	4
2644805302	34.5	23	15	4
2644828302	61	34.5	20	3

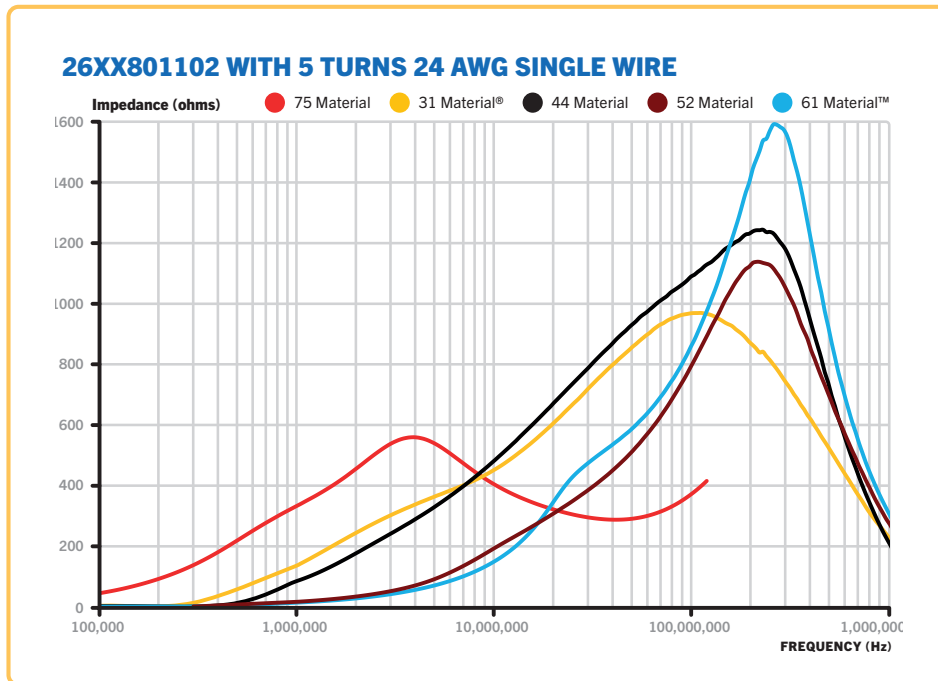
## 52 MATERIAL CORES - OPTIMAL FREQUENCY: 30MHz - 500MHz

PART NUMBER	OD	ID	HEIGHT	QTY
2652800102	5.95	3.05	1.65	24
2652800202	9.50	4.75	3.30	16
2652800302	12.70	7.15	4.90	10
2652801102	12.70	7.90	6.35	8
2652801802	21.70	13.40	6.10	16
2652801202	29	19	13.85	4
2652805302	34.5	23	15	4
2652828302	61	34.5	20	3

## 61 MATERIAL™ CORES - OPTIMAL FREQUENCY: 100MHz - 1000MHz

PART NUMBER	OD	ID	HEIGHT	QTY
2661800102	5.95	3.05	1.65	24
2661800202	9.50	4.75	3.30	16
2661800302	12.70	7.15	4.90	10
2661801102	12.70	7.90	6.35	8
2661801802	22.10	13.70	6.35	16
2661801202	29	19	13.85	4
2661805302	34.5	23	15	4
2661828302	61	34.5	20	3

MATERIAL	μ <sub>i</sub>	FREQUENCY RANGE	NOTES
75	5000	150kHz-10MHz	Superior low-frequency suppression
31	1500	1MHz-300MHz	Good broadband impedance with extended low frequency
44	500	25MHz-300MHz	Industry standard material; 44 has improved resistivity
52	250	50MHz-1000MHz	Low permeability material with high saturation flux density and curie temp
61	125	200MHz-1GHz	For VHF applications; Low sensitivity to temperature and DC bias



**FAIR-RITE**  
YOUR SIGNAL SOLUTION™

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