



# EMI Cores for Cables

## High Frequency Noise Suppression in Electronic Circuits



### Why Choose KEMET

KEMET Electronics Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry, along with an expanding range of electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

### Features & Benefits

- Flat, round and snail versions
- Split versions for post-production attachment
- Broad range by simply adding turns

### Product Checklist

- What frequency range is the target, AM or FM?
- What kind of cables are being used?
- Do you worry about damage to cable covering and insulation?
- Would you like to retrofit the core?
- When do you want to fix the core?

For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.

### Applications

- FM frequency in MHz range filtering with NiZn
- AM frequency in kHz range filtering with MnZn
- According EMI standards IEC, CISPR, ECE and regional FCC, EN, VCCI



### Electrical/Physical Characteristics

Product Family			Series Name	Family	Material	Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)
Solid	For Round Cables	Bare type	Toroidal Cores	ESD-R	MnZn & NiZn	9.5 – 38.1	5.0 – 19.0	3.0 – 28.5
		Coated type	Toroidal Cores	ESD-R	MnZn & NiZn	12.0 – 32.0	6.2 – 19.0	3.0 – 28.8
		With case	Toroidal Cores	ESD-R	MnZn & NiZn	12.9 – 61.0	6.0 – 32.4	6.4 – 24.0
		With snail-shaped case	Toroidal Cores	ESD-R-B	MnZn & NiZn	21.5 – 51.5	8.8 – 25.5	13.0 – 17.5
		With high heat resistance & cable holding mechanism	Toroidal Cores	ESD-R-H	MnZn	52.5	22.7	8.5
	For Flat Cables	Bare type	Solid Cores	ESD-FPL	NiZn	14.5 – 80.0	0.55 – 2.2	2.75 – 12.0
Split	For Round Cables	With case	Snap-on Cores	ESD-SR	NiZn		Ø6 – Ø14.5	
		With high heat resistance & cable holding mechanism	Snap-on Cores for Round Cables	ESD-SR-H	NiZn		Ø9 – Ø13	
	For Flat Cables	With metal clamp	Split Cores	ESD-FPD	NiZn	37.0 – 80.0	2.0 – 2.6	10
		With plastic	Split Cores	ESD-FPD-1	NiZn	37.0 – 80.0	2.0 – 2.6	10
Bead	Single piece core	Bead Cores	B-20	MnZn & NiZn	2.8 – 9.7	0.8 – 4.8	1.2 – 8.0	