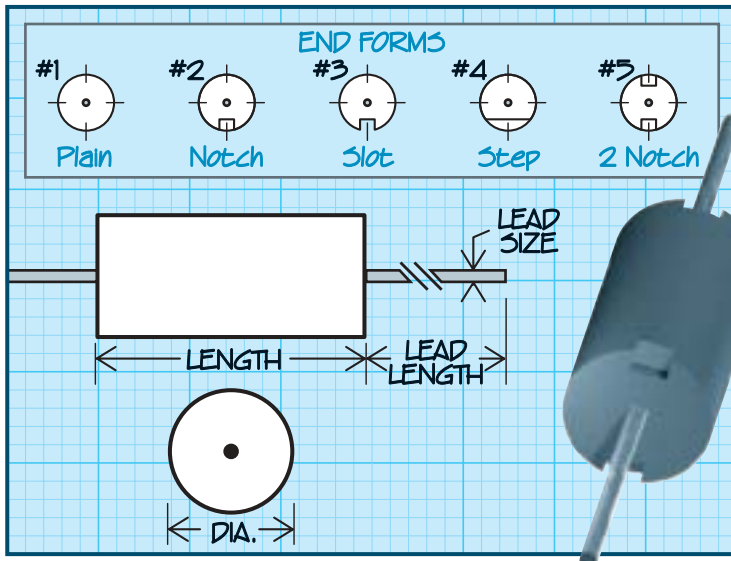


Series PI High Q Powdered Iron Coilforms



Iron powder coilforms are available from API Delevan in a wide range of sizes and material types. Powdered Iron materials are normally used in applications where a need exists for their high Q, temperature stability, high Curie temperatures and mechanical ruggedness.

Iron powder coilform cores have been widely used in high precision telecommunication equipment for many years. It is usually called as axial type cores because it has two leads on both ends. For axial type cores, ferrite is most widely used, but for inductors of small inductance iron powder material is preferred to the other materials.

API offers many kinds of iron powder coilform cores; the materials chart below will assist you in selecting the proper material for the application. Please make contact with our sales office for your special applications.

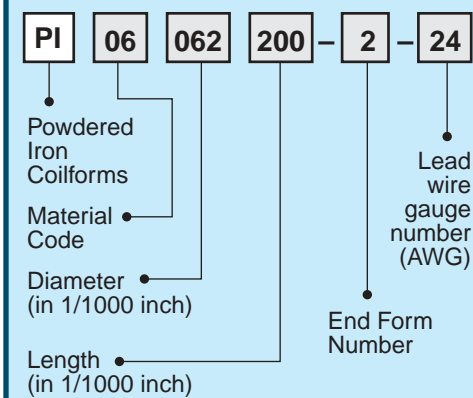
Lead type 1½", 100% tin plated copper

Material Properties for Iron Powder Coilforms

Material Code	Basic Powder Material	Initial Permeability	Temp. Coefficient (ppm/C°)	Suggested Frequency Range
00	Phenolic	1	0	40 MHz to 250 MHz
03	Carbonyl J	7	165	10 MHz to 150 MHz
04	Carbonyl SF	8	35	2 MHz to 40 MHz
05	Carbonyl TH	9	30	1 MHz to 20 MHz
06	Carbonyl E	10	45	50 KHz to 2 MHz
07	Carbonyl C	20	120	50 KHz to 2 MHz

	DIAMETER		LENGTH		END FORM OPTION AVAILABLE	LEAD AWG #
	INCHES ± 0.003"	mm ±0.08mm	INCHES ±0.010"	mm ±0.25mm		
0.047	1.19	0.170	4.32		1	24
0.047	1.19	0.175	4.45		1	24
0.051	1.29	0.150	3.81		1	24
0.051	1.29	0.175	4.45		1	24
0.062	1.57	0.194	4.93		1, 2, 5	22, 24
0.062	1.57	0.200	5.08		1, 2, 5	22, 24
0.070	1.78	0.196	4.98		1, 2, 5	22, 24
0.070	1.78	0.200	5.08		1, 2, 5	22, 24
0.070	1.78	0.322	8.18		1, 2, 5	22, 24
0.076	1.93	0.312	7.92		1, 2, 5	22, 24
0.107	2.72	0.250	6.35		1, 2, 3, 4, 5	20, 22
0.125	3.17	0.600	15.24		1, 2, 3, 4, 5	22
0.187	4.75	0.600	15.24		1, 3	20, 22
0.218	5.54	0.600	15.24		1, 3	20, 22
0.250	6.35	0.600	15.24		1, 3	20, 22

ORDERING CODE METHOD



EXAMPLE: PI 06 062 200-2-24

An API Powdered Iron coilform, of Carbonyl E, 0.062" diameter, 0.20" long, with ends single notched, and 24 AWG leads.

Ordering Information

Complete Part Number is defined by selecting the material, diameter, length, end form and lead wire size desired. See example above.