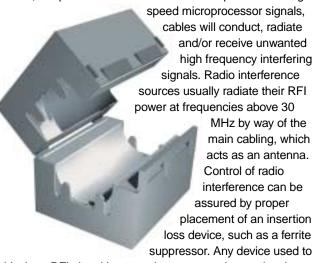
BF Series

Split Ferrite Suppressors for Round Cables

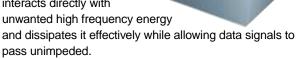
Electronic cables and wires, by virtue of their length-to-width ratios, are perfect natural antennas. In the presence of high



block an RFI signal between its source and a receiver is an electromagnetic interference (EMI) shield. The measure of this ability to attenuate RFI is shielding effectiveness, "SE", which is expressed in decibels, "dB", the ratio of field strength on one side of the shield to the other side.

One of the most versatile and cost effective shielding

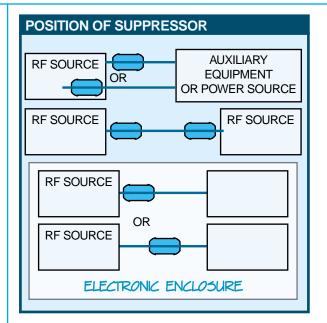
methods that can be used today is the API Delevan bisected ferrite cable snap assembly. The bisected styling, or familiar clamshell enclosure design offers the ultimate in adaptability. The RF absorbing material interacts directly with



Bisected ferrites have a concentrated, homogeneous magnetic structure with high permeability. These are consistently stable at +20°C to +60°C and provide RF suppression without eddy current losses.

AIR GAP EFFECT

The air gap in bisected ferrites actually extends current carrying capabilities with only an extremely small reduction in impedance versus solid ferrites of the same size. The gap is magnetically insignificant while it is electrically significant as a discontinuation, thereby accommodating more current.



POSITION OF SUPPRESSOR The suppressor should normally be located close to the cable termination where it exits the enclosure. Where a cable connects two enclosures containing RF sources, a suppressor on each end may be required. For circuits within an enclosure, a position close to the RF is best. However, other locations along the circuit may work as well.

Material and U.L. Data API-1 Material, see characteristics and information on page 121.

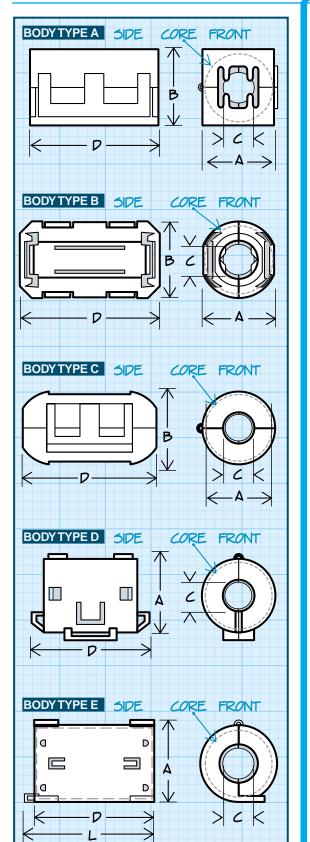
Continued on next page

IMPED-

ANCE

BF Series

Suppressors for Round Cables



	,	ANCE
AUMEER S TYPE		(OHMS) *
TYPE		, XV
		25 MHZ 100 MHZ
PE, IMI, SOD, Y B	/ 5 / 5 / 6	15/4/100

DIMENSIONS

Inches ± 0.04; mm ± 1.0

		<u> </u>							
	<u>S</u>	ERI	ES BF	- FOR	ROUND	CAB	LES		
BF2930	in.	Α	1.16	1.20	0.51	1.30		155	257
mm mm	mm		29.6	30.5	13.0	33.0	_		
BF2223	in.	Α	0.87	0.91	0.39	1.28		136	250
DI 2223	mm	^	22.3	23.3	10.0	32.6	_		
BF1719	in.	Α	0.70	0.76	0.25	1.28		171	325
DI 1713	mm		17.8	19.5	6.5	32.5	_		
BF1835	in.	В	0.70	0.77	0.35	1.37		112	172
	mm		18.0	19.7	9.0	35.0	_		
BF1125-5	in.	В	0.46	0.51	0.19	0.98		96	154
	mm		11.7	13.0	5.0	25.0	_		
BF1125-3	in.	В	0.46	0.51	0.13	0.98		139	191
	mm		11.7	13.0	3.5	25.0	_		
BF1429	in.	С	0.57	0.61	0.22	1.14		85	157
	mm		14.5	15.7	5.6	29.0	_		
BF1225	in.	С	0.50	0.57	0.15	0.98		82	146
	mm		12.8	14.7	4.0	25.0	_		
BF3024	in.	D	1.20	_	0.45	0.69	0.94	51	103
	mm		30.5		11.4	17.7	24.0		
BF2125	in.	D	0.84	_	0.32	0.77	1.01	50	107
	mm		21.5		8.15	19.7	25.8		
BF2123	in.	D	0.84	_	0.32	0.66	0.90	42	94
	mm		21.5		8.15	16.8	23.0		
BF1835-9	in.	Е	0.73	_	0.35	1.22	1.38	126	174
	mm		18.6		9.0	31.0	35.2		
BF3121	in.	D	1.24	_	0.59	0.60	0.84	41	95
	mm	U	31.5		15.0	15.2	21.5		

Physical Parameters

Material and U.L. Data API-1 Material, see characteristics and information on page 121.

* Note Impedance is typical, based on 1/2 turn (4.0") 18 AWG wire. Impedance measurement using HP4191A.

Color Black; Special colors Available for bases on a non-cancellable, non returnable basis C = Cream; W = White; Gr = Grey

U.L. Recognized

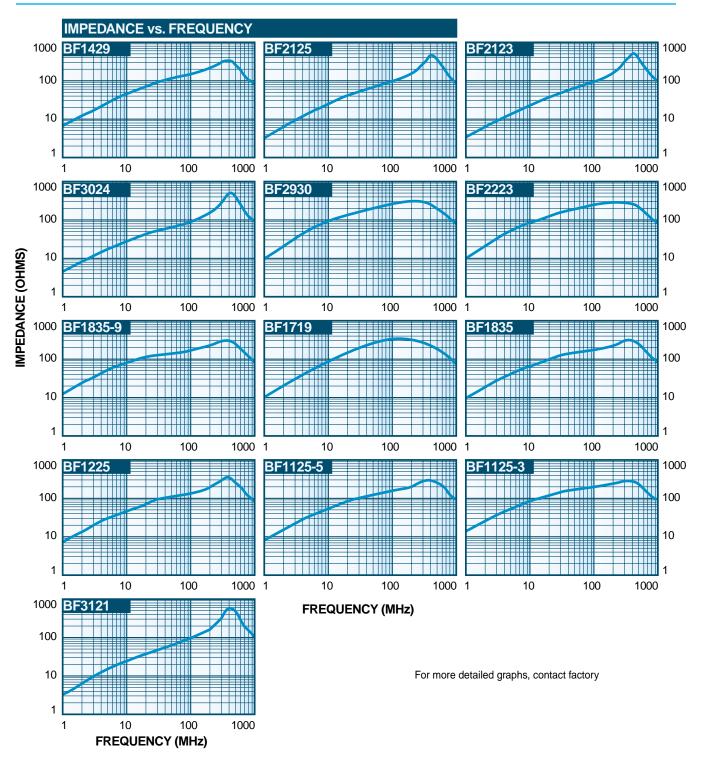
All plastic and adhesive components use U.L. Recognized materials with Flammability Ratings of UL94V-0, UL-510 or UL-746C

SEE Z vs. f GRAPHS ON NEXT PAGE



BF Series

Split Ferrite Suppressors for Round Cables



Additional Information on Preceding Pages

Note Impedance is typical, based on 1/2 turn (4.0") 18 AWG wire. Impedance measurement using HP4191A

