

Cable Cores for EMI Suppression

Since 1952, Fair-Rite Products Corp. has been providing the electronics industry with a variety of products to solve EMC issues.

With an assortment of materials to suppress frequencies from 100 kHz into the GHz range, Fair-Rite has the spectrum covered.

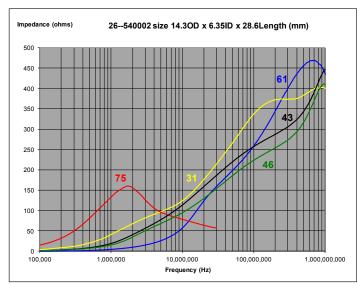
From our industry-standard 43 material to our flagship 31 material to our newest 75 material, we are *Your Signal Solution*.

Fair-Rite has catalog products available to support a wide range of cable diameters – from 3.5mm (.137") up to 101.6mm (4").

To help select the correct component for your application, refer to our Technical Article "How to Choose Ferrite Components for EMI Suppression" at www.fair-rite.com or contact your local sales representative.

We can also work with you on custom cable designs!





Material	Composition	Frequency		
31	MnZn	1 MHz – 300 MHz	Good broadband impedance with extended low frequency	
43	NiZn	20 MHz – 300 MHz	Industry standard	
44	NiZn	20 MHz – 300 MHz	Improved 43 material with higher resistivity	
46	MgZn	20 MHz – 300 MHz	Environmentally friendly, cost-effective alternative	
61	NiZn	200 MHz – 1 GHz	Low sensitivity to temperature and DC bias	
75	MnZn	100 kHz – 5 MHz	Superior low-frequency suppression	



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 application.



			Material		o = available, s = solid equivalent exists			
Snap-It Part Number	Maximum Cable Diameter	Solid Equivalent Part	31	43	44	46	61	75
04XX178181	4.10 mm (.161")	none	0	0			O ^k	
04XX173951	4.90mm (.193")	26XX023002	os ^k	s	0	0		
04XX164951	4.90 mm (.193")	26XX480002	os ^k	s	0	os ^k	os ^k	
04XX181651	4.90 mm (.193")	26XX023002						os ^k
04XX164251	6.30mm (.250")	26XX540002		os ^k		os		
04XX164281	6.30mm (.250")	26XX540002	os ^k	s	0	os ^k	os ^k	os ^k
04XX625006	7.60 mm (.299")	26XX625002		os ^k				
04XX178281	8.70 mm (.846")	26XX665702	os	os			os	os ^k
04XX665806	9.20 mm (.362")	26XX665802		os ^k				
04XX167251	9.85 mm (.388")	26XX626402		os ^k		os		
04XX167281	9.85 mm (.388")	26XX626402	os ^k	s	0	os ^k	os ^k	os ^k
04XX164151	12.70 mm (.500")	26XX102002		os ^k		os		
04XX164181	12.70 mm (.500")	26XX102002	os ^k	S	0	os ^k	os ^k	os ^k
04XX800506	12.80 mm (.504")	26XX800502		os ^k				
04XX806406	15.0 mm (.591")	26XX806402		os ^k				
04XX176451	18.0 mm (.709")	26XX103002	os ^k	s	0	0	0	O ^k
04XX173551	18.5 mm (.728")	26XX103102	0	s	0	0		
04XX177081	25.2 mm (.990")	26XX626202	os	S	0			

^kParts are available in the Kits below

Kit Part Number	Kit Name	Description
0199000030	31 Material Snap-It Kit	Contains a range of parts to support cable diameters from 4.9mm (0.193") to 18mm (0.709").
0199000031	43 Material Snap-It Kit	Contains snap-it parts to support cable diameters from 6.3mm (0.250") to 15.0mm (0.591").
0199000032	46 Material Core and Snap-it Kit	Contains both cable cores and snap-it parts to support cable diameters from 4.9mm (0.193") to 12.7mm (0.500").
0199000033	61 Material Snap-It Kit	Contains snap-it parts to support cable diameters from 4.1mm (0.161") to 12.7mm (0.500").
0199000041	75 Material Snap-It Kit	Contains snap-it parts to support cable diameters from 4.9mm (0.193") to 18mm (0.709").

SLF/CABLECORES Rev 2/15