

Multi-Aperture Cores

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Part Number**	Fig.	A	B*	C	E	H	Wt (g)	Typical Impedance(Ω) ¹		Z, R _s , X _L vs. Frequency Curve
								25 MHz	100 MHz	
2861001802	2	6.35±0.25 .250	6.15±0.25 .242	–	2.75±0.2 .108	1.1 + 0.3 .050	.8	–	119	Figure 15
2873001702	2	6.35±0.25 .250	12.0±0.35 .471	–	2.75±0.2 .108	1.1 + 0.3 .050	1.6	200	–	Figure 16
2843001702	2	6.35±0.25 .250	12.0±0.35 .471	–	2.75±0.2 .108	1.1 + 0.3 .050	1.6	–	256	Figure 17
2861001702	2	6.35±0.25 .250	12.0±0.35 .471	–	2.75±0.2 .108	1.1 + 0.3 .050	1.6	–	230	Figure 18
2873001502	1	13.3±0.6 .525	6.6±0.25 .260	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	1.7	50	–	Figure 19
2843001502	1	13.3±0.6 .525	6.6±0.25 .260	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	1.7	–	88	Figure 20
2861001502	1	13.3±0.6 .525	6.6±0.25 .260	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	1.7	–	69	Figure 21
2873000302	1	13.3±0.6 .525	10.3±0.3 .407	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	2.6	75	–	Figure 22
2843000302	1	13.3±0.6 .525	10.3±0.3 .407	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	2.6	–	130	Figure 23
2861000302	1	13.3±0.6 .525	10.3±0.3 .407	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	2.6	–	106	Figure 24
2873000102	1	13.3±0.6 .525	13.4±0.3 .528	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.5	94	–	Figure 25
2843000102	1	13.3±0.6 .525	13.4±0.3 .528	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.5	–	175	Figure 26
2861000102	1	13.3±0.6 .525	13.4±0.3 .528	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.5	–	138	Figure 27
2873000202	1	13.3±0.6 .525	14.35±0.5 .565	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.7	106	–	Figure 28
2843000202	1	13.3±0.6 .525	14.35±0.5 .565	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.7	–	180	Figure 29
2861000202	1	13.3±0.6 .525	14.35±0.5 .565	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.7	–	150	Figure 30
2873006802	1	13.3±0.6 .525	27.0±0.75 1.062	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	7.0	180	–	Figure 31
2843006802	1	13.3±0.6 .525	27.0±0.75 1.062	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	7.0	–	300	Figure 32
2861006802	1	13.3±0.6 .525	27.0±0.75 1.062	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	7.0	–	280	Figure 33
2843010402	3	19.45±0.4 .765	12.7±0.5 .500	9.5±0.25 .375	9.9±0.25 .390	4.75±0.2 .187	7.5	–	200	Figure 34
2843010302	3	19.45±0.4 .765	25.4±0.7 1.000	9.5±0.25 .375	9.9±0.25 .390	4.75±0.2 .187	18	–	400	Figure 35
2843009902	3	28.7±0.6 1.130	28.7±0.7 1.130	14.25±0.3 .560	14.0±0.3 .550	6.35±0.15 .250	48	–	500	Figure 36
2861010002	3	30.2±0.6 1.190	28.7±0.7 1.130	15.0±0.4 .590	14.6±0.4 .575	6.8±0.2 .268	46	–	600	Figure 37

* This dimension may be modified to suit specific applications.

** Bold part numbers designate preferred parts.

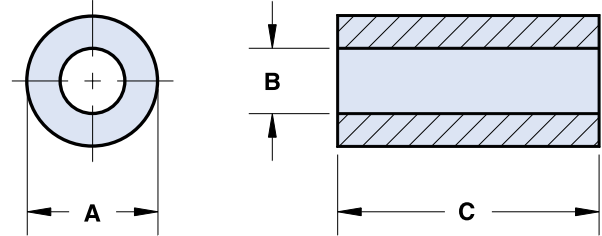
¹Guaranteed Z Min is Z Typ -20%

Round Cable EMI Suppression Cores

Listed in ascending order of "B" dimension.

Fair-Rite offers a broad selection of round cable EMI suppression cores with guaranteed impedance specifications over a wide frequency range.

- The "H" column gives for each core size the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere - turn) product. For the effect of the dc bias on the impedance of the core material, see the graphs on pages 179-180, Figures 16-20.



- For typical impedance vs. frequency curves, see Figures 1-5.
- Round cable EMI suppression cores are controlled for impedance limits only. They are tested for impedance with a single turn, using the Hewlett Packard HP 4193A Vector Impedance Meter for beads in 31 and 43 material and the HP 4191A RF Impedance Analyzer for 61 material beads.
- For smaller size cores, please refer to our EMI Suppression Beads section found on page 24 of this catalog.
- For any round cable EMI suppression core requirement not listed in the catalog, please contact our customer service group for availability and pricing.
- The Expanded Cable and Connector EMI Suppression Kit (part number 0199000005) contains a selection of these suppression cores. (See page 92).

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Typical Impedance(Ω)¹

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2631480102	12.3±0.4 .485	4.95±0.25 .200	12.7±0.4 .500	4.8	.52	58	88	140	-
2643480102	12.3±0.4 .485	4.95±0.25 .200	12.7±0.4 .500	4.8	.52	-	84	121	-
2631480002	12.3±0.4 .485	4.95±0.25 .200	25.4±0.75 1.000	9.5	.52	115	175	295	-
2643480002	12.3±0.4 .485	4.95±0.25 .200	25.4±0.75 1.000	9.5	.52	-	165	236	-
2643540702	14.3±0.45 .562	6.35±0.25 .250	5.3 - 0.45 .200	2.6	.43	-	30	50	-
2643540102	14.3±0.45 .562	6.35±0.25 .250	10.15±0.4 .400	5.1	.43	-	61	89	-
2631540202	14.3±0.45 .562	6.35±0.25 .250	13.8 - 0.7 .530	6.8	.43	58	88	140	-
2643540202	14.3±0.45 .562	6.35±0.25 .250	13.8 - 0.7 .530	6.8	.43	-	78	118	-
2661540202	14.3±0.45 .562	6.35±0.25 .250	13.8 - 0.7 .530	6.8	.43	-	-	125	180
2631540002	14.3±0.45 .562	6.35±0.25 .250	28.6±0.75 1.125	14	.43	119	181	300	-
2643540002	14.3±0.45 .562	6.35±0.25 .250	28.6±0.75 1.125	14	.43	-	171	250	-

**Bold part numbers designate preferred parts.

¹Guaranteed Z Min is Z Typ -20%

*This dimension may be modified to suit specific applications.

Fair-Rite Products Corp. P.O. Box J, One Commercial Row, Wallkill, NY 12589-0288

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(888) 324-7748 (888) 337-7483 Note: (914) Area Code has changed to (845).

Round Cable EMI Suppression Cores

Listed in ascending order of "B" dimension.

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Typical Impedance(Ω)¹

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2661540002	14.3±0.45 .562	6.35±0.25 .250	28.6±0.75 1.125	14	.43	-	-	250	310
2643540302	14.3±0.45 .562	7.1±0.25 .280	15.25±0.4 .600	7.5	.41	-	75	118	-
2643800302	12.7±0.25 .500	7.15±0.2 .282	4.9 - 0.25 .188	1.7	.43	-	26	42	-
2643540402	14.3±0.45 .562	7.25±0.15 .286	28.6±0.75 1.125	14	.40	-	143	215	-
2643801102	12.7±0.25 .500	7.9±0.2 .312	6.35±0.2 .250	2.1	.40	-	26	41	-
2643801902	12.7±0.25 .500	7.9±0.2 .312	12.7±0.4 .500	4.3	.40	-	44	73	-
2631625002	16.25 - 0.75 .625	7.9±0.25 .312	14.3±0.35 .562	8.7	.36	53	75	130	-
2643625002	16.25 - 0.75 .625	7.9±0.25 .312	14.3±0.35 .562	8.7	.36	-	70	113	-
2631625102	16.25 - 0.75 .625	7.9±0.25 .312	28.6±0.75 1.125	17	.36	103	156	260	-
2643625102	16.25 - 0.75 .625	7.9±0.25 .312	28.6±0.75 1.125	17	.36	-	130	213	-
2643625202	16.25 - 0.75 .625	7.9±0.25 .312	50.8±1.0 2.000	31	.36	-	235	384	-
2643665902	17.45±0.4 .687	9.5±0.25 .375	6.35±0.25 .250	4.5	.32	-	26	44	-
2643665802	17.45±0.4 .687	9.5±0.25 .375	12.7±0.5 .500	9.0	.32	-	55	88	-
2631665702	17.45±0.4 .687	9.5±0.25 .375	28.6±0.75 1.125	20	.32	89	138	225	-
2643665702	17.45±0.4 .687	9.5±0.25 .375	28.6±0.75 1.125	20	.32	-	125	200	-
2661665702	17.45±0.4 .687	9.5±0.25 .375	28.6±0.75 1.125	20	.32	-	-	156	260
2631626302	19.0 - 0.65 .735	10.15±0.25 .400	14.65 - 0.75 .562	12	.29	44	69	115	-
2643626302	19.0 - 0.65 .735	10.15±0.25 .400	14.65 - 0.75 .562	12	.29	-	63	96	-
2631626402	19.0 - 0.65 .735	10.15±0.25 .400	28.6±0.75 1.125	23	.29	89	138	225	-
2643626402	19.0 - 0.65 .735	10.15±0.25 .400	28.6±0.75 1.125	23	.29	-	128	196	-
2643626502	19.0 - 0.65 .735	10.15±0.25 .400	50.8±1.0 2.000	41	.29	-	225	348	-
2643801502	25.4±0.65 1.000	12.7±0.35 .500	6.35±0.25 .250	9.9	.23	-	34	53	-

**Bold part numbers designate preferred parts.

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Round Cable EMI Suppression Cores

Listed in ascending order of "B" dimension.

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Typical Impedance(Ω)¹

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2643102402	25.9±0.75 1.020	12.8±0.25 .505	21.3±0.5 .840	35	.22	-	110	183	-
2661102402	25.9±0.75 1.020	12.8±0.25 .505	21.3±0.5 .840	35	.22	-	-	169	275
2631102002	25.9±0.75 1.020	12.8±0.25 .505	28.6±0.8 1.125	46	.22	103	156	260	-
2643102002	25.9±0.75 1.020	12.8±0.25 .505	28.6±0.8 1.125	46	.22	-	145	235	-
2661102002	25.9±0.75 1.020	12.8±0.25 .505	28.6±0.8 1.125	46	.22	-	-	225	310
2643800602	20.95±0.4 .825	13.2±0.3 .520	6.35±0.2 .250	5.8	.24	-	24	44	-
2643800502	20.95±0.4 .825	13.2±0.3 .520	11.9±0.4 .468	11	.24	-	45	82	-
2643801802	22.1±0.4 .870	13.7±0.3 .540	6.35±0.2 .250	6.5	.23	-	25	45	-
2631101902	28.5±0.6 1.122	13.8±0.3 .543	28.6±0.8 1.125	56	.21	106	163	270	-
2643101902	28.5±0.6 1.122	13.8±0.3 .543	28.6±0.8 1.125	56	.21	-	145	230	-
2643801402	25.4±0.6 1.000	15.5±0.5 .610	8.1±0.3 .320	11	.20	-	35	55	-
2643806402	25.4±0.6 1.000	15.5±0.5 .610	12.7±0.4 .500	17	.20	-	53	90	-
2643251002	39.1±0.75 1.540	16.75±0.5 .660	22.2±0.8 .875	84	.16	-	135	230	-
2643801002	29.0±0.75 1.142	19.0±0.5 .748	7.5±0.25 .295	12	.17	-	28	47	-
2643801202	29.0±0.75 1.142	19.0±0.5 .748	13.85±0.4 .545	23	.17	-	51	92	-
2643804502	31.1±0.75 1.225	19.05±0.5 .750	16.3 - 0.75 .627	33	.17	-	60	100	-
2643802702	35.55±0.75 1.400	22.85±0.5 .900	12.7±0.5 .500	32	.14	-	48	80	-
2643626102	50.8±1.0 2.000	25.4±0.5 1.000	25.4±0.75 1.000	158	.11	-	128	224	-
2643625902	50.8±1.0 2.000	25.4±0.5 1.000	28.7±0.75 1.130	178	.11	-	145	254	-
2643626202	50.8±1.0 2.000	25.4±0.5 1.000	38.1±0.75 1.500	237	.11	-	193	336	-
2643626002	50.8±1.0 2.000	25.4±0.5 1.000	50.8±1.0 2.000	315	.11	-	240	360	-
2643803802	61.0±1.3 2.400	35.55±0.75 1.400	12.7±0.5 .500	105	.09	-	58	108	-

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Round Cable Snap-its

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Part Number*	Fig.	Cable Diameter	A	B**	C	D	E	Typical Impedance(Ω) ¹			Z, R _s , X _L vs. Frequency Curve
								10 MHz	25 MHz	100 MHz	
0431173951	1	5.3 Max. .210 Max.	12.8 .504	5.1 .200	25.0 .984	5.6 .220	-	60	100	180	Figure 4
0444173951	1	5.3 Max. .210 Max.	12.8 .504	5.1 .200	25.0 .984	5.6 .220	-	-	94	150	Figure 5
0431164951	1	5.3 Max. .210 Max.	17.3 .680	5.1 .200	36.2 1.42	8.4 .331	-	100	169	280	Figure 6
0444164951	1	5.3 Max. .210 Max.	17.3 .680	5.1 .200	36.2 1.42	8.4 .331	-	-	144	245	Figure 7
0443164251	2	6.4 Max. .250 Max.	17.9 .705	7.0 .275	32.3 1.272	9.2 .362	-	-	163	275	Figure 8
0431164281	1	7.0 Max. .275 Max.	20.0 .788	6.6 .260	39.4 1.55	9.78 .385	-	113	188	310	Figure 9
0444164281	1	7.0 Max. .275 Max.	20.0 .788	6.6 .260	39.4 1.55	9.78 .385	-	-	156	260	Figure 10
0443625006	3	7.6 Max. .300 Max.	24.7 .972	7.9 .311	22.8 .898	10.2 .402	17.8 .701	-	50	113	Figure 11
0443665806	3	9.3 Max. .365 Max.	26.3 1.035	9.2 .362	21.4 .843	11.0 .433	16.4 .646	-	41	88	Figure 12
0443167251	2	10.0 Max. .390 Max.	22.1 .870	10.2 .402	32.3 1.272	11.0 .433	-	-	138	225	Figure 13
0431167281	1	10.5 Max. .410 Max.	23.7 .933	10.2 .400	39.4 1.55	11.70 .461	-	81	144	240	Figure 14
0444167281	1	10.5 Max. .410 Max.	23.7 .933	10.2 .400	39.4 1.55	11.70 .461	-	-	125	210	Figure 15
0443800506 ⁺	3	12.7 Max. .500 Max.	29.7 1.169	12.8 .504	20.6 .811	12.7 .500	15.6 .614	-	35	75	Figure 16
0443164151	2	12.7 Max. .500 Max.	29.0 1.142	13.4 .528	32.5 1.280	14.8 .583	-	-	156	250	Figure 17
0431164181	1	13.3 Max. .525 Max.	31.0 1.220	13.0 .512	39.4 1.55	15.25 .600	-	100	156	260	Figure 18
0444164181	1	13.3 Max. .525 Max.	31.0 1.220	13.0 .512	39.4 1.55	15.25 .600	-	-	138	230	Figure 19
0443806406	3	15.0 Max. .590 Max.	34.3 1.350	15.0 .591	21.2 .835	15.0 .591	16.2 .638	-	43	90	Figure 20
0431173551	2	19.0 Max. .750 Max.	29.2 1.150	18.8 .740	42.0 1.65	14.7 .579	-	69	125	220	Figure 21
0444173551	2	19.0 Max. .750 Max.	29.2 1.150	18.8 .740	42.0 1.65	14.7 .579	-	-	94	195	Figure 22
0444176451	1	19.0 Max. .750 Max.	38.6 1.52	18.35 .722	47.5 1.87	19.15 .754	-	-	175	365	Figure 23
0444177081	1	25.9 Max. 1.020 Max.	56.4 2.22	25.4 1.00	42.95 1.69	27.45 1.08	-	-	194	338	Figure 24

* Bold part numbers designate preferred parts.

** "B" dimension is the core dimension.

⁺ Case is Nylon 6/6 - Flammability rating UL94-V2.

¹ Guaranteed Z Min is Z Typ -20%

NOTE: See page 185 for additional new High Frequency Split Round Suppressor Cores in 61 material. These cores will operate from 10 MHz into the GHz's frequency range.

Flat Cable EMI Suppression Cores

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Part Number**	Fig.	Max. Cable Width	A	B	C*	D	E	Wt (g)	Typical Impedance(Ω) ¹			Clip P/N	Case P/N	Z, R _s , X _L vs. Frequency Curve
									10 MHz	25 MHz	100 MHz			
2643171351	1	6.4mm .250	11.4±0.25 .450	6.6±0.15 .260	7.6±0.25 .300	3.3 - 0.25 .125	0.15±0.15 .009	1.4	—	50	80	—	—	Figure 6
2643172751	2	10mm .385	14.5±0.2 .571	10.0±0.13 .394	10.0±0.13 .394	2.5±0.15 .098	0.5±0.25 .025	1.5	—	31	59	—	—	Figure 7
2643173851	2^	12mm .490	16.5±0.25 .650	12.5±0.2 .492	10.25±0.25 .404	2.0±0.15 .079	0.5±0.25 .025	1.3	—	33	60	—	—	Figure 8
2643170251	3	12mm .490	22.75±0.65 .895	12.7±0.5 .500	12.7±0.5 .500	3.3 - 0.25 .125	1.15±0.25 .050	3.5	—	39	71	—	—	Figure 9
2643169552	4	14mm .550	19.95±0.4 .785	14.2±0.25 .560	10.15±0.5 .400	6.35±0.25 .250	0.9±0.15 .035	5.7	—	35	75	—	—	Figure 10
2643168751	4	17mm .680	25.4±0.75 1.000	17.8±0.5 .700	12.7±0.4 .500	10.15±0.25 .400	2.55±0.25 .100	13	—	44	85	—	—	Figure 11
2643173351	5	20mm .770	24.5±0.4 .965	20.0±0.4 .787	12.0±0.3 .472	5.0±0.25 .197	0.75±0.25 .030	6.6	—	31	55	—	—	Figure 12
2643168651	3	26mm 1.030	38.85±0.75 1.530	26.15±0.75 1.030	28.6±0.7 1.125	13.0±0.3 .512	6.35±0.25 .255	45	—	100	185	—	—	Figure 13
2643164551	4	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	12.3±0.4 .485	12.05±0.4 .475	1.9±0.4 .075	25	—	48	98	—	—	Figure 14
2643171051	2	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	12.7±0.4 .500	6.35±0.25 .250	0.85±0.2 .033	14	—	50	105	0199001401 0199016051	—	Figure 15
2643166851	2	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	25.4±0.75 1.000	6.35±0.25 .250	0.85±0.2 .033	27	—	100	210	0199001401	—	Figure 16
2631163851	4	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	25.4±0.75 1.000	12.05±0.4 .475	1.9±0.4 .075	51	63	106	205	—	—	Figure 17
2643163851	4	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	25.4±0.75 1.000	12.05±0.4 .475	1.9±0.4 .075	51	—	95	195	—	—	Figure 18
2643172551	5	27mm 1.060	33.5±0.65 1.319	27.0±0.5 1.063	8.0±0.4 .315	6.5±0.25 .256	1.25±0.7 .063	6.8	—	18	42	—	—	Figure 19
2643169351	4	27mm 1.060	33.65±0.75 1.325	27.5±0.5 1.083	13.2±0.5 .520	6.7±0.4 .265	1.35±0.25 .053	12	—	31	65	—	—	Figure 20
2643167051	2^	28mm 1.080	40.9±0.75 1.600	28.2±0.75 1.100	12.7±0.25 .500	15.0±0.25 .590	8.5±0.15 .335	23	—	46	88	—	—	Figure 21
2643166451	2	28mm 1.080	38.35±1.0 1.510	27.95±1.0 1.100	28.6±0.7 1.125	9.0±0.3 .355	3.3±0.25 .130	35	—	90	170	0199010301	—	Figure 22
2643168051	2^	32mm 1.280	52.9±1.0 2.083	33.0±0.7 1.299	31.25±1.0 1.230	12.5±0.4 .492	3.5±0.4 .138	84	—	133	243	—	—	Figure 23
2643167551	2^	32mm 1.280	52.9±1.0 2.083	33.0±0.7 1.299	63.5±1.8 2.500	12.5±0.4 .492	3.5±0.4 .138	170	—	260	460	—	—	Figure 24
2643170951	2	34mm 1.330	45.1±0.75 1.775	34.4±0.7 1.355	12.7±0.4 .500	6.35±0.25 .250	0.85±0.2 .033	16	—	43	100	0199001401 0199016051	—	Figure 25
2643166551	4	34mm 1.330	45.1±0.75 1.775	34.4±0.7 1.355	28.6±0.7 1.125	12.45±0.4 .490	1.5±0.3 .060	71	—	95	195	—	0199166651	Figure 26
2643166651	2	34mm 1.330	45.1±0.75 1.775	34.4±0.7 1.355	28.6±0.7 1.125	6.35±0.25 .250	0.85±0.2 .033	36	—	96	225	0199001401 0199016551	0199166651	Figure 27
2643168251	2	52mm 2.030	63.5±1.3 2.500	52.1±1.1 2.050	12.7±0.4 .500	6.35±0.25 .250	0.85±0.2 .033	22	—	39	104	0199001401 0199016051	—	Figure 28
2631163951	2	52mm 2.030	63.5±1.3 2.500	52.1±1.1 2.050	28.6±0.8 1.125	6.35±0.25 .250	0.85±0.2 .033	50	44	88	220	0199001401 0199016551	0199163951	Figure 29
2643163951	2	52mm 2.030	63.5±1.3 2.500	52.1±1.1 2.050	28.6±0.8 1.125	6.35±0.25 .250	0.85±0.2 .033	50	—	81	210	0199001401 0199016551	0199163951	Figure 30
2643167751	2	65mm 2.550	76.2±1.5 3.000	65.3±1.3 2.570	12.7±0.4 .500	6.35±0.25 .250	0.85±0.2 .033	27	—	36	110	0199001401 0199016051	—	Figure 31
2631164051	2	65mm 2.550	76.2±1.5 3.000	65.3±1.3 2.570	28.6±0.8 1.125	6.35±0.25 .250	0.85±0.2 .033	60	40	81	225	0199001401 0199016551	0199164051	Figure 32
2643164051	2	65mm 2.550	76.2±1.5 3.000	65.3±1.3 2.570	28.6±0.8 1.125	6.35±0.25 .250	0.85±0.2 .033	60	—	75	215	0199001401 0199016551	0199164051	Figure 33
2643171151	2	78mm 3.060	88.9±1.8 3.500	78.2±1.5 3.080	12.7±0.4 .500	6.5±0.35 .256	0.95±0.3 .037	31	—	33	95	0199001401 0199016051	—	Figure 34
2643168351	2	78mm 3.060	88.9±1.8 3.500	78.2±1.5 3.080	28.6±0.8 1.125	6.5±0.35 .256	0.95±0.3 .037	70	—	75	215	0199001401 0199016551	—	Figure 35

* This dimension may be modified to suit specific applications.

^ Part does not have clip slots as shown in figure.

** Bold part numbers designate preferred parts.

¹ Guaranteed Z Min is Z Typ -20%

Flat Cable EMI Suppression Cores

Cases and Clips

Fair-Rite offers polypropylene cases and steel and polypropylene clips to assist in the assembly of the split cable core halves.

For Flat Cable Snap-its, see pages 116 and 117.

- Figure 1 cases are polypropylene with a flammability rating of UL94-V0.
- Figure 2 and Figure 3 clips are **0.5mm (.020")** high carbon steel with a zinc electroplate finish.
- Figure 4 clips are polypropylene with a flammability rating of UL94-V0.

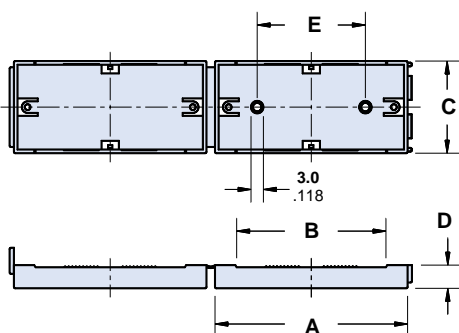


Figure 1
Case has rows of serrated teeth that grip and center the core around the cable (Patented).

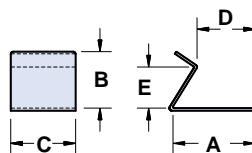


Figure 2

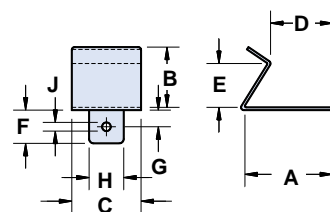


Figure 3

Cases

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Part Number Case	Fig.	A	B	C	D	E
0199166651	1	49.5 1.950	34.4 1.350	32.3 1.272	8.1 .320	20.0 .787
0199163951	1	67.8 2.670	52.1 2.051	32.3 1.272	8.1 .320	38.0 1.496
0199164051	1	80.8 3.180	65.3 2.570	32.3 1.272	8.1 .320	50.8 2.000

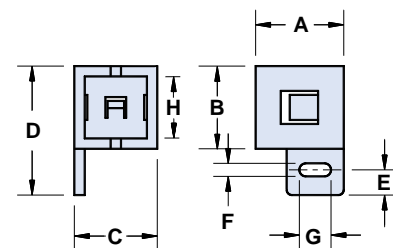


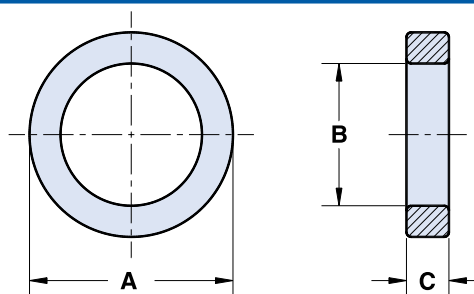
Figure 4

Clips

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Part Number Clip	Fig.	A	B	C	D	E	F	G	H	J
0199001401	2	16.1 .635	11.0 .433	12.7 .500	11.4 .450	8.0 .315	—	—	—	—
0199010301	3	21.2 .835	11.0 .433	12.7 .500	16.5 .650	8.0 .315	7.5 .295	4.0 .157	6.0 .236	3.0 .118
0199016051	4	16.7 .657	15.9 .626	15.9 .626	24.6 .969	4.4 .171	3.2 .126	6.4 .252	13.1 .516	—
0199016551	4	16.7 .657	32.2 1.27	15.9 .626	40.5 1.59	4.4 .171	3.2 .126	6.4 .252	29.5 1.161	—

Toroids



Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Part Number**	A	B	C*	Wt (g)	$\Sigma l/A(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH}) \pm 20\%$
5978001101	12.7±0.25 .500	7.9±0.2 .312	6.35±0.25 .250	2.4	20.8	3.12	0.150	0.47	1390
5975001101	12.7±0.25 .500	7.9±0.2 .312	6.35±0.25 .250	2.4	20.8	3.12	0.150	0.47	3000
5961001901	12.7±0.25 .500	7.9±0.2 .312	12.7±0.35 .500	4.7	10.4	3.12	0.299	0.93	150
5943001901	12.7±0.25 .500	7.9±0.2 .312	12.7±0.35 .500	4.7	10.4	3.12	0.299	0.93	820 Min.
5977001901	12.7±0.25 .500	7.9±0.2 .312	12.7±0.35 .500	4.7	10.4	3.12	0.299	0.93	2400
5978001901	12.7±0.25 .500	7.9±0.2 .312	12.7±0.35 .500	4.7	10.4	3.12	0.299	0.93	2775
5975001901	12.7±0.25 .500	7.9±0.2 .312	12.7±0.35 .500	4.7	10.4	3.12	0.299	0.93	6000
5943005101	16.0±0.4 .630	9.6±0.3 .378	4.75 - 0.25 .182	2.8	26.6	3.85	0.145	0.56	320 Min.
5977005101	16.0±0.4 .630	9.6±0.3 .378	4.75 - 0.25 .182	2.8	26.6	3.85	0.145	0.56	940
5978005101	16.0±0.4 .630	9.6±0.3 .378	4.75 - 0.25 .182	2.8	26.6	3.85	0.145	0.56	1090
5975005101	16.0±0.4 .630	9.6±0.3 .378	4.75 - 0.25 .182	2.8	26.6	3.85	0.145	0.56	2350
5961004901	16.0±0.4 .630	9.6±0.3 .378	6.35±0.25 .250	4.0	19.4	3.85	0.199	0.77	80
5943004901	16.0±0.4 .630	9.6±0.3 .378	6.35±0.25 .250	4.0	19.4	3.85	0.199	0.77	440 Min.
5977004901	16.0±0.4 .630	9.6±0.3 .378	6.35±0.25 .250	4.0	19.4	3.85	0.199	0.77	1300
5978004901	16.0±0.4 .630	9.6±0.3 .378	6.35±0.25 .250	4.0	19.4	3.85	0.199	0.77	1490
5975004901	16.0±0.4 .630	9.6±0.3 .378	6.35±0.25 .250	4.0	19.4	3.85	0.199	0.77	3225
5961000601	21.0±0.35 .825	13.2±0.3 .520	6.35±0.25 .250	6.4	21.3	5.2	0.243	1.26	75
5943000601	21.0±0.35 .825	13.2±0.3 .520	6.35±0.25 .250	6.4	21.3	5.2	0.243	1.26	400 Min.
5977000601	21.0±0.35 .825	13.2±0.3 .520	6.35±0.25 .250	6.4	21.3	5.2	0.243	1.26	1175
5978000601	21.0±0.35 .825	13.2±0.3 .520	6.35±0.25 .250	6.4	21.3	5.2	0.243	1.26	1355

* This dimension may be modified to suit specific applications.

** Bold part numbers designate preferred parts.

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