

Round Cable Snap-its

Listed by frequency range and in ascending order of cable diameter.

Round cable snap-its can easily accommodate round cables or bundled wires with diameters from 2.5 mm (.100") to 25.4 mm (1.000"). These assemblies are available in four ferrite material grades to suppress differential or common-mode conducted EMI from 1 MHz into the GHz region.

The polypropylene cases are meeting the RoHS restrictions of hazardous substances and have a flammability rating of UL 94-V0.

- Round cable snap-it assemblies are controlled for impedances only. The impedances listed are typical values. Minimum impedance values are specified for the + marked frequencies. The minimum guaranteed impedance is the listed impedance less 20%.
- Single turn impedance tests for the 31, 43 and 44 material are performed on the 4193A Vector Impedance Analyzer. The 61 material parts are tested on the 4191A RF Impedance Analyzer. **Cores are tested with the shortest practical wire length.**
- Performance curves of all listed round cable snap-its are compiled on the Fair-Rite Products CD-ROM.
- Many of the snap-it parts have round core equivalents. See section Round Cable EMI Suppression Cores on pages 70-74.
- Round Cable Snap-it Kits are available for each of the four suppression materials. 31 Snap-It Kit (0199000030), 43 Snap-It Kit (0199000031), 46 Core and Snap-It Kit (0199000032) and 61 Snap-It Kit (0199000033). For additional details see page 68.
- Explanation of Part Numbers: Digits 1&2 = product class and 3&4 material grade.

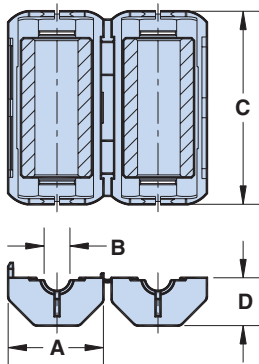


Figure 1

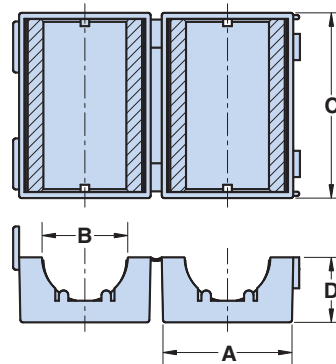


Figure 2

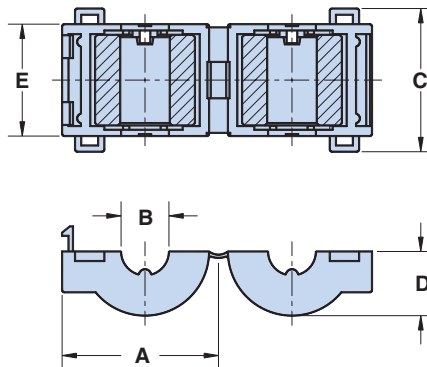


Figure 3

Fair-Rite Products Corp.

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Round Cable Snap-its

Listed by frequency range and in ascending order of cable diameter.

Lower & Broadband Frequencies 1-300 MHz (31 material)

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

| Part Number | Fig. | Max. Cable Diameter | A | B** | C | D | Wt. (g) | Typical Impedance(Ω) | | | | | | Solid Equivalent* |
|-------------|------|---------------------|---------------|---------------|----------------|----------------|---------|-------------------------------|-------|---------------------|---------------------|----------------------|---------|-------------------|
| | | | | | | | | 1 MHz | 5 MHz | 10 MHz ⁺ | 25 MHz ⁺ | 100 MHz ⁺ | 250 MHz | |
| 0431178181 | 1 | 4.1 .161 | 11.8 .465 | 4.3 .169 | 23.2 .913 | 5.6 .221 | 4.2 | 12 | 43 | 60 | 90 | 160 | 183 | |
| 0431173951 | 1 | 4.9 .193 | 12.8 .504 | 5.1 .201 | 25.0 .984 | 5.6 .220 | 6.5 | 14 | 44 | 60 | 100 | 180 | 208 | 2631023002 |
| 0431164951 | 1 | 4.9 .193 | 17.3 .680 | 5.1 .201 | 36.2 1.420 | 8.4 .331 | 17 | 25 | 75 | 100 | 169 | 280 | 247 | 2631480002 |
| 0431164281 | 1 | 6.3 .250 | 20.0 .788 | 6.6 .260 | 39.4 1.550 | 9.8 .385 | 26 | 28 | 83 | 105 | 180 | 310 | 240 | 2631540002 |
| 0431178281 | 1 | 8.7 .343 | 21.5 .846 | 9.0 .354 | 39.4 1.550 | 10.55 .415 | 23 | 18 | 63 | 85 | 130 | 250 | 275 | 2631665702 |
| 0431167281 | 1 | 9.85 .388 | 23.7 .933 | 10.15 .400 | 39.4 1.550 | 11.7 .461 | 33 | 18 | 56 | 81 | 144 | 240 | 270 | 2631626402 |
| 0431164181 | 1 | 12.7 .500 | 31.0 1.220 | 13.05 .514 | 39.4 1.550 | 15.25 .600 | 61 | 25 | 71 | 100 | 156 | 260 | 260 | 2631102002 |
| 0431176451 | 1 | 18.0 .709 | 38.6 1.520 | 18.35 .722 | 47.5 1.870 | 19.15 .755 | 161 | 47 | 95 | 130 | 225 | 380 | 370 | 2631103002 |
| 0431173551 | 2 | 18.5 .728 | 29.2 1.150 | 18.8 .740 | 42.0 1.65 | 14.7 .579 | 78 | 16 | 48 | 69 | 125 | 220 | 310 | 2631103102 |
| 0431177081 | 1 | 25.4 1.000 | 56.4 2.220 | 25.9 1.020 | 42.95 1.690 | 27.45 1.080 | 308 | 45 | 90 | 125 | 218 | 375 | 340 | 2631626202 |

Broadband Frequencies 25-300 MHz (43 & 44 materials)

| Part Number | Fig. | Max. Cable Diameter | A | B** | C | D | E | Wt. (g) | Typical Impedance(Ω) | | | | Solid Equivalent* |
|-------------|------|---------------------|---------------|-------------|---------------|---------------|--------------|---------|-------------------------------|---------------------|----------------------|---------|-------------------|
| | | | | | | | | | 10 MHz | 25 MHz ⁺ | 100 MHz ⁺ | 250 MHz | |
| 0443178181 | 1 | 4.1 .161 | 11.8 .465 | 4.3 .169 | 23.2 .913 | 5.6 .221 | | 4.2 | 40 | 70 | 125 | 152 | |
| 0444173951 | 1 | 4.9 .193 | 12.8 .504 | 5.1 .201 | 25.0 .984 | 5.6 .220 | | 6.5 | 54 | 94 | 150 | 187 | 2643023002 |
| 0444164951 | 1 | 4.9 .193 | 17.3 .680 | 5.1 .201 | 38.2 1.420 | 8.4 .331 | | 17 | 90 | 144 | 245 | 257 | 2643480002 |
| 0443164251 | 2 | 6.3 .250 | 17.9 .705 | 6.6 .260 | 32.2 1.270 | 9.2 .362 | | 31 | 100 | 163 | 275 | 275 | 2643540002 |
| 0444164281 | 1 | 6.3 .250 | 20.0 .788 | 6.6 .260 | 39.4 1.550 | 9.8 .385 | | 26 | 95 | 156 | 260 | 270 | 2643540002 |
| 0443625006 | 3 | 7.6 .299 | 24.7 .972 | 7.9 .311 | 22.8 .898 | 10.2 .402 | 17.8 .701 | 13 | 27 | 50 | 113 | 188 | 2643625002 |
| 0443178281 | 1 | 8.7 .343 | 21.5 .846 | 9.0 .354 | 39.4 1.550 | 10.55 .415 | | 24 | 65 | 120 | 230 | 265 | 2643665702 |
| 0443665806 | 3 | 9.2 .362 | 26.3 1.035 | 9.5 .374 | 21.4 .843 | 11.0 .433 | 16.4 .646 | 13 | 23 | 41 | 88 | 122 | 2643665802 |

* For solid cable cores see pages 32 and 70-74

⁺ Test Frequency

** "B" dimension is the core dimension.

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Round Cable Snap-its

Listed by frequency range and in ascending order of cable diameter.

Broadband Frequencies 25-300 MHz (43 & 44 materials)

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

| Part Number | Fig. | Max. Cable Diameter | A | B** | C | D | E | Wt. (g) | Typical Impedance(Ω) | | | | Solid Equivalent* |
|-------------|------|---------------------|---------------|---------------|----------------|----------------|--------------|---------|-------------------------------|---------------------|----------------------|---------|-------------------|
| | | | | | | | | | 10 MHz | 25 MHz ⁺ | 100 MHz ⁺ | 250 MHz | |
| 0443167251 | 2 | 9.85 .388 | 22.1 .870 | 10.15 .400 | 32.3 1.272 | 11.0 .433 | | 42 | 79 | 138 | 225 | 285 | 2643626402 |
| 0444167281 | 1 | 9.85 .388 | 23.7 .933 | 10.15 .400 | 39.4 1.550 | 11.7 .460 | | 33 | 77 | 125 | 210 | 260 | 2643626402 |
| 0443164151 | 2 | 12.7 .500 | 29.0 1.142 | 13.05 .514 | 32.5 1.280 | 14.8 .583 | | 84 | 90 | 156 | 250 | 305 | 2643102002 |
| 0444164181 | 1 | 12.7 .500 | 31.0 1.220 | 13.05 .514 | 39.4 1.550 | 15.25 .600 | | 61 | 76 | 138 | 230 | 280 | 2643102002 |
| 0443800506 | 3 | 12.8 .504 | 29.7 1.169 | 13.2 .520 | 20.6 .811 | 12.7 .500 | 15.6 .614 | 16 | 18 | 35 | 75 | 120 | 2643800502 |
| 0443806406 | 3 | 15.0 .591 | 34.3 1.360 | 15.5 .610 | 21.2 .835 | 15.0 .591 | 16.2 .638 | 23 | 24 | 43 | 90 | 147 | 2643806402 |
| 0444176451 | 1 | 18.0 .709 | 38.6 1.520 | 18.35 .722 | 47.5 1.870 | 19.15 .755 | | 161 | 100 | 175 | 365 | 365 | 2643103002 |
| 0444173551 | 2 | 18.5 .728 | 29.2 1.150 | 18.8 .740 | 42.0 1.650 | 14.7 .579 | | 78 | 50 | 95 | 195 | 322 | 2643103102 |
| 0444177081 | 1 | 25.4 1.000 | 56.4 2.220 | 25.9 1.020 | 42.95 1.690 | 27.45 1.080 | | 308 | 115 | 194 | 335 | 330 | 2643626202 |

Broadband Frequencies 25-300 MHz (Economical 46 material)

| Part Number | Fig. | Max. Cable Diameter | A | B** | C | D | E | Wt. (g) | Typical Impedance(Ω) | | | | Solid Equivalent* |
|-------------|------|---------------------|---------------|---------------|----------------|----------------|---|---------|-------------------------------|--------|----------------------|---------|-------------------|
| | | | | | | | | | 10 MHz | 25 MHz | 100 MHz ⁺ | 250 MHz | |
| 0446173951 | 1 | 4.9 .193 | 12.8 .504 | 5.1 .201 | 25.0 .984 | 5.6 .220 | | 6.5 | 46 | 82 | 135 | 185 | |
| 0446164951 | 1 | 4.9 .193 | 17.3 .680 | 5.1 .201 | 38.2 1.420 | 8.4 .331 | | 17 | 72 | 120 | 220 | 250 | 2646480002 |
| 0446164281 | 1 | 6.3 .250 | 20.0 .788 | 6.6 .260 | 39.4 1.550 | 9.8 .385 | | 26 | 81 | 131 | 235 | 265 | 2646540002 |
| 0446164251 | 2 | 6.3 .250 | 17.9 .705 | 6.6 .260 | 32.2 1.270 | 9.2 .362 | | 31 | 81 | 134 | 245 | 273 | 2646540002 |
| 0446167281 | 1 | 9.85 .388 | 23.7 .933 | 10.15 .400 | 39.4 1.550 | 11.7 .460 | | 33 | 66 | 105 | 190 | 275 | |
| 0446167251 | 2 | 9.85 .388 | 22.1 .870 | 10.15 .400 | 32.3 1.272 | 11.0 .433 | | 42 | 72 | 116 | 202 | 247 | |
| 0446164181 | 1 | 12.7 .500 | 31.0 1.220 | 13.05 .514 | 39.4 1.550 | 15.25 .600 | | 61 | 73 | 115 | 205 | 275 | 2646102002 |
| 0446164151 | 2 | 12.7 .500 | 29.0 1.142 | 13.05 .514 | 32.5 1.280 | 14.8 .583 | | 84 | 84 | 127 | 225 | 270 | 2646102002 |
| 0446176451 | 1 | 18.0 .709 | 38.6 1.520 | 18.35 .722 | 47.5 1.870 | 19.15 .755 | | 161 | 85 | 137 | 330 | 360 | 2646103002 |
| 0446173551 | 2 | 18.5 .728 | 29.2 1.150 | 18.8 .740 | 42.0 1.650 | 14.7 .579 | | 78 | 48 | 85 | 176 | 300 | |
| 0446177081 | 1 | 25.4 1.000 | 56.4 2.220 | 25.9 1.020 | 42.95 1.690 | 27.45 1.080 | | 308 | 97 | 169 | 330 | 330 | 2646626202 |

* For solid cable cores see pages 70-74

⁺ Test frequency

** "B" dimension is the core dimension.

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Round Cable Snap-its

Listed by frequency range and in ascending order of cable diameter.

Higher Frequencies 200-1000 MHz (61 material)

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

| Part Number | Fig. | Max. Cable Diameter | A | B** | C | D | Wt. (g) | Typical Impedance(Ω) | | | | Solid Equivalent* |
|-------------|------|---------------------|---------------|---------------|---------------|---------------|---------|-------------------------------|----------------------|----------------------|----------|-------------------|
| | | | | | | | | 100 MHz | 250 MHz ⁺ | 500 MHz ⁺ | 1000 MHz | |
| 0461178181 | 1 | 4.1 .161 | 11.8 .465 | 4.3 .169 | 23.2 .913 | 5.6 .221 | 42 | 115 | 165 | 215 | 300 | |
| 0461164951 | 1 | 4.9 .193 | 17.3 .620 | 5.1 .201 | 38.2 1.420 | 8.4 .331 | 17 | 215 | 325 | 385 | 332 | |
| 0461164281 | 1 | 6.3 .250 | 20.0 .788 | 6.6 .260 | 39.4 1.550 | 9.8 .385 | 26 | 230 | 355 | 425 | 420 | 2661540002 |
| 0461178281 | 1 | 8.7 .343 | 21.5 .846 | 9.0 .354 | 39.4 1.550 | 10.55 .415 | 24 | 180 | 285 | 380 | 430 | 2661665702 |
| 0461167281 | 1 | 9.85 .388 | 23.7 .933 | 10.15 .400 | 39.4 1.550 | 11.7 .460 | 33 | 175 | 275 | 375 | 400 | 2661626402 |
| 0461164181 | 1 | 12.7 .500 | 29.0 1.142 | 13.05 .514 | 32.5 1.280 | 14.8 .583 | 61 | 205 | 320 | 435 | 257 | 2661102002 |
| 0461176451 | 1 | 18.0 .709 | 38.6 1.520 | 18.35 .722 | 47.5 1.870 | 19.15 .755 | 161 | 360 | 480 | 350 | 110 | |

* For solid cable cores see pages 70-74

⁺ Test frequency

** "B" dimension is the core dimension.

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