

MICROMINIATURE (42-34 AWG) & MINIATURE (32-24 AWG) COAXIAL CABLES

New England Wire Technologies designs and manufactures a wide range of coaxes from highly specialized miniature coaxes to audio/video coaxes and industry standard RG series coaxes.

Microminiature Coaxial Cables (42 - 34 AWG) are typically offered with fluoropolymer dielectrics to yield the smallest size and lowest loss cables possible. Ideal for short distance signal transmission, applications include antenna leads, ccd cables, ultrasound cables and test equipment leads. Due to their small size, composite cables can be manufactured with high densities of these components; samples of composite cables using coaxes are illustrated in medical, instrumentation, communications & controls, and audio/video sections of this catalog.

The constructions listed below represent a sampling of our capabilities. Custom cables will be designed to match the specific performance requirements of your application. Please contact our design team for your specific requirements.

AWG	Stranding	Dielectric Diameter	Shield AWG	Type of Shield	Jacket OD	Capacitance C (pF/ft)
50 OHM - PFA DIELECTRIC						
42	7/50	.006	44	Spiral	.020	43.80
40	7/48	.008	44	Spiral	.022	37.40
38	7/46	.011	44	Spiral	.025	36.70
38	7/46	.009	44	Braided	.027	34.70
36	7/44	.014	44	Spiral	.028	35.60
36	7/44	.013	44	Braided	.031	32.10
34	7/42	.018	44	Spiral	.032	34.87
34	7/42	.018	44	Braided	.036	30.70
75 OHM - PFA DIELECTRIC						
42	7/50	.011	44	Spiral	.027	24.70
42	7/50	.008	44	Braided	.028	24.50
40	7/48	.015	44	Spiral	.031	22.55
40	7/48	.013	44	Braided	.033	22.00
38	7/46	.018	44	Spiral	.034	23.54
38	7/46	.019	44	Braided	.039	20.86
36	7/44	.027	44	Spiral	.043	21.31
36	7/44	.026	44	Braided	.046	20.58
34	7/42	.035	44	Spiral	.051	20.90
34	7/42	.035	44	Braided	.055	20.03

Miniature coaxial cables (24 - 32 AWG) are available in countless combinations of conductor and insulation materials (including NEWcel[®] foamed dielectrics), stranding options and shield configurations. Ideal for short and medium distance high-speed and low-loss signal transmission, applications include antenna leads, audio/video, sensors and test and measurement. The miniature size and ultra flexibility of these cables make them ideal for composite cable constructions as illustrated elsewhere in our catalog.

The constructions listed below represent a sampling of our capabilities. Custom cable designs will be performed to match the specific requirements of the application. Please call our design team to discuss your specific requirements.

AWG	Stranding	Dielectric Diameter	Shield AWG	Type of Shield	Jacket OD	Capacitance C (pF/ft)
50 OHM - PFA DIELECTRIC						
32	19/44	.027	40	Spiral	.047	32.02
32	19/44	.025	40	Braided	.051	30.49
30	19/42	.031	40	Spiral	.051	33.56
30	19/42	.031	40	Braided	.057	30.02
28	19/40	.040	40	Spiral	.060	32.40
28	19/40	.040	40	Braided	.066	30.02
26	19/38	.051	40	Spiral	.071	32.69
26	19/38	.053	40	Braided	.079	29.56
24	19/36	.063	40	Spiral	.083	33.52
24	19/36	.068	40	Braided	.094	29.65

All measurements are in inches unless otherwise stated.

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