

Microminiature Coaxial Cables

The microminiature coaxial cable are constructed with a solid or foamed fluoropolymer dielectric and are well suited to sensors, measurement and medical technology.

not available from stock

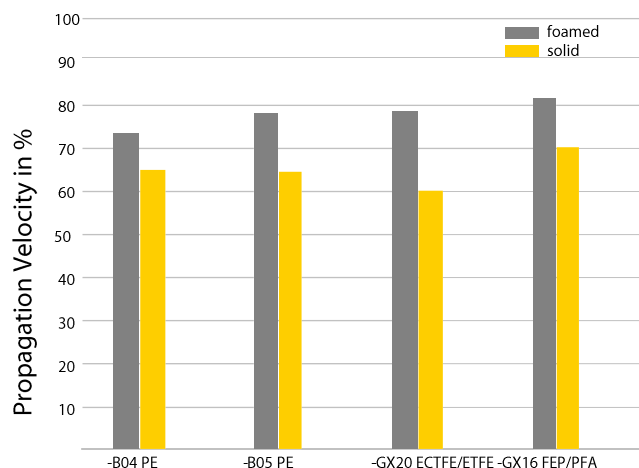
Item number	AWG	strand number of wires/AWG	Diameter dielectric [mm]	shield AWG	Type of Shield	Outer-Ø [mm]	Capacitance [pF/m]
Coaxial cables 50 Ohm with PFA solid							
KOPFA5042U	42	7/50	0,15	44	Spiral	0,51	143,6
KOPFA5040U	40	7/48	0,20	44	Spiral	0,56	122,6
KOPFA5038U	38	7/46	0,27	44	Spiral	0,64	120,3
KOPFA5038G	38	7/46	0,22	44	braided	0,69	113,8
KOPFA5036U	36	7/44	0,35	44	Spiral	0,71	120,0
KOPFA5036G	36	7/44	0,33	44	braided	0,79	105,2
KOPFA5034U	34	7/42	0,45	44	Spiral	0,81	114,3
KOPFA5034G	34	7/42	0,45	44	braided	0,91	100,6
Coaxial cables 75 Ohm with PFA solid							
KOPFA7542U	42	7/50	0,28	44	Spiral	0,69	81,0
KOPFA7542G	42	7/50	0,20	44	braided	0,71	80,3
KOPFA7540U	40	7/48	0,38	44	Spiral	0,79	74,0
KOPFA7540G	40	7/48	0,33	44	braided	0,84	72,1
KOPFA7538U	38	7/46	0,46	44	Spiral	0,87	77,2
KOPFA7538G	38	7/46	0,48	44	braided	0,99	68,4
KOPFA7536U	36	7/44	0,68	44	Spiral	1,09	69,9
KOPFA7536G	36	7/44	0,66	44	braided	1,17	67,5
KOPFA7534U	34	7/42	0,89	44	Spiral	1,29	68,5
KOPFA7534G	34	7/42	0,89	44	braided	1,40	65,7
Coaxial cables 50 Ohm with PFA solid							
KOPFA5032U	32	19/44	0,68	40	Spiral	1,19	105,0
KOPFA5032G	32	19/44	0,68	40	braided	1,29	100,0
KOPFA5030U	30	19/42	0,79	40	Spiral	1,29	110,0
KOPFA5030G	30	19/42	0,79	40	braided	1,45	98,4
KOPFA5028U	28	19/40	1,02	40	Spiral	1,52	106,2
KOPFA5028G	28	19/40	1,02	40	braided	1,68	98,4
KOPFA5026U	26	19/38	1,30	40	Spiral	1,80	107,2
KOPFA5026G	26	19/36	1,35	40	braided	2,01	97,0
KOPFA5024U	24	19/36	1,60	40	Spiral	2,11	110,0
KOPFA5024G	24	19/36	1,73	40	braided	2,39	97,2

All coaxial cables are designed, specified and tested at frequencies of 10 Mhz for characteristic impedance and 1 kHz.

Properties of foamed dielectric

Foamed dielectrics embed many air bubbles and are approaching in their behavior the dielectric air. The propagation velocity of air is close to the velocity of light.

Material properties				
Material	-B04	-B05	-GX20	-GX16
Temperature range	80 °C	80 °C	150 °C	200 °C
Dielectric constant	1.80	1,60	1,60	1,45
Propagation velocity	74,5 %	79,0 %	79,0 %	82,5 %



A comparison of the propagation velocity of a signal through foamed and equivalent solid dielectric materials.