Lab-Flex® Family Cable Specifications

General Specifications	Lab Flex 100	Lab Flex 125	Lab Flex 160	Lab Flex 200	Lab Flex 290	Lab Flex 335
MIL Number	N/A	N/A	N/A	N/A	N/A	N/A
Diameter	0.1	0.122	0.16	0.195	0.295	0.335
Frequency, Max (GHz)	50	50	40	31	18	18
Loss @ 5 GHz (dB/100ft)	48.5	35.9	30	20	10	11.1

Electrical Specifications	Lab Flex 100	Lab Flex 125	Lab Flex 160	Lab Flex 200	Lab Flex 290	Lab Flex 335
Impedance, Nominal ('Ω)	50	50	50	50	50	50
Velocity of Propagation (%)	76	78	78	80	84.5	80
Shielding Effectiveness, 18 GHz (dB/ft)	>85	>90	>90	>90	>90	>90
Capacitace (pF/ft)	27	26	26	25.5	24	25
Delay (ns/ft)	1.34	1.3	1.3	1.27	1.21	1.27

Mechanical Specifications	Lab Flex 100	Lab Flex 125	Lab Flex 160	Lab Flex 200	Lab Flex 290	Lab Flex 335
Weight (lbs/100ft)	1	1.8	3	4.8	8.4	8.5
Temperature Range (°C)	-55 to +200*	-55 to +200*	-55 to +200*	-55 to +200*	-65 to +200*	-55 to +200*
Minimum Bend Radius (inches)	0.5	0.6	0.8	1	1.5	2

Construction Data	Lab Flex 100	Lab Flex 125	Lab Flex 160	Lab Flex 200	Lab Flex 290	Lab Flex 335
Inner Conductor	Solid SC	Solid SC	Solid SC	Solid SC	Solid SC	Solid SC
Dielectric	Expanded PTFE	Expanded PTFE	Expanded PTFE	Expanded PTFE	Expanded PTFE	Expanded PTFE
First Outer Shield	Flat Braid SC	Flat Braid SC	Flat Braid SC	Flat Braid SC	Flat Braid SC	Flat Braid SC
Second Outer Shield	N/A	Foil KP	Foil KP	Foil KP	N/A	Foil KP
Third Outer Shield	Braid SC	Braid SC	Braid SC	Braid SC	Braid SC	Braid SC
Jacket	FEP	FEP	FEP	FEP	FEP	FEP