

Semi-Rigid, Conformable, Flexible Version 141 Size Cable Specifications



DOCUMENT No: FAMILY SEMI-
CONFORM-FLEX-141

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Description	SEMI-RIGID	SEMI-RIGID	SEMI-RIGID	CONFORMABLE	MINI-FLEX	K-JUMPER	
Cable Code	RG402	402TP	AL141	BJ141	165	JUMP	
MIL Number	M17/130-RG402	M17/130-00005	M17/130-00009	N/A	N/A	N/A	
Diameter	0.141	0.141	0.141	0.141	0.165	0.165	
Frequency, Max (GHz)	35	35	35	18	35	35	
Loss @ 5 GHz (dB)	28.0	28.0	28.0	31.0	23.0	27.0	
Electrical Data							
Impedance, nominal (Ω)	50	50	50	50	50	50	
Velocity of Propagation (%)	69.5	69.5	69.5	69.5	70	69.5	
Shielding Effectiveness, 1 GHz (dB/ft)	>100	>100	>100	>90	>90	>90	
Capacitance (pF/ft)	29.5	29.9	29.9	29.5	29.4	29.5	
Delay (ns/ft)	1.46	1.45	1.45	1.46	1.45	1.46	
Mechanical Data							
Weight (lbs/100ft)	3.44	3.44	1.88	2.00	2.91	2.00	
Temperature Range ($^{\circ}$ C)	-40 to 125	-40 to 125	-40 to 125	-65 to 125	-65 to 125	-65 to 125	
Minimum Bend Radius (inch)	0.32	0.25	0.32	0.25	0.50	0.25	
Construction Data							
Inner Conductor (inch)	Solid 0.036	Solid 0.036	Solid 0.036	Solid 0.036	Solid 0.036	Solid 0.036	
Dielectric (inch)	0.119	0.119	0.119	0.116	0.120	0.116	
First Outer Shield (inch)	0.141	0.141	0.141	0.141	0.125	0.138	
Second Outer Shield (inch)	N/A	N/A	N/A	N/A	0.138	0.000	
Third Outer Shield (inch)	N/A	N/A	N/A	N/A	N/A	N/A	
Jacket (inch O.D.)	N/A	N/A	N/A	N/A	0.162	0.165	