LightWeight and AirFrame Table

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LightWeight and AirFrame Table

		SHF4.6M	SHF5MLW-2	SHF8MLW-2	SHF13	SHF5MAF-2	SHF8MAF-2
Construction	Application Code	LW / GI / ULL	LW / ULL	LW / ULL	LW / GI / ULL	AF / ULL	AF / ULL
	Center conductor	Solid SPCC AL	Solid SPCCA	Solid SPCCA	SPC Tube	Solid SPCCA	Solid SPCCA
	Dielectric	Low density PTFE tape	Low density PTFE tape	Low density PTFE tape	Low density PTFE tape	Low density PTFE tape	Low density PTFE tape
	Inner shield	SPC tape	SPC tape	SPC tape	SPC tape	SPC tape	SPC tape
	Outer shield	SPC braid	SPC flat braid	SPC flat braid	SPC braid	SPC flat braid + Black FEP	SPC flat braid + Black FEP
	Jacket	Green FEP	Black FEP	Black FEP	Black PFA	PEEK braid	PEEK braid
	Outer diameter (Max.)	4.65 mm / 0.183 inch	5.35 mm / 0.191 inch	7.45 mm / 0.293 inch	13.80 mm / 0.543 inch	6.00 mm / 0.230 inch	8.35 mm / 0.329 inch
Electrical Characteristics	Impedance	50 ohms ±1 ohm	50 ohms ±1 ohm	50 ohms ±1 ohm	50 ohms ±1 ohm	50 ohms ±1 ohm	50 ohms ±1 ohm
	Operating frequency range	DC - 32.3 GHz	DC - 26.5 GHz	DC - 18 GHz	100kHz - 9.5 GHz	DC - 26.5 GHz	DC - 18 GHz
	Velocity of propagation	84%	83%	84%	85%	83%	84%
	Time delay	4.0 ns/m ; 1.22 ns/ft	4.0 ns/m ; 1.2 ns/ft	3.9 ns/m ; 1.2 ns/ft	3.9 ns/m ; 1.2 ns/ft	4.0 ns/m ; 1.2 ns/ft	3.9 ns/m ; 1.2 ns/ft
	Capacitance at 1 GHz	79.4 pF/m ; 24.2 pF/ft	80 pF/m ; 24.1 pF/ft	79 pF/m ; 23.9 pF/ft	78 pF/m ; 23.6 pF/ft	80 pF/m ; 24.1 pF/ft	79 pF/m ; 23.9 pF/ft
	Screening effectiveness at 18 GHz	>90 dB	>90 dB	>90 dB	>90 dB (at 9.5 GHz)	>90 dB	>90 dB
	Phase stability with bending	<1° / 360° / GHz	<0.4° / 360° / GHz	<0.4° / 360° / GHz	<0.6° / 360° / GHz	<0.4° / 360° / GHz	<0.4° / 360° / GHz
	Phase stability with temp.	<2°/m/GHz (-55 / +85°C)	<3.8°/m/GHz (-55 / +100°C)	<3.8°/m/GHz (-55 / +100°C)	-	<3,8°/m/GHz (-55 / +100°C)	<3,8°/m/GHz (-55 / +100°C)
	Attenuation stability with bending	<0.05 dB at 18 GHz <0.12 dB at 32 GHz	<0.05 dB at 18 GHz <0.1 dB at 26.5 GHz	<0.05 dB at 18 GHz	<0.05 dB at 18 GHz	<0.05 dB at 18 GHz <0.1 dB at 26.5 GHz	<0.05 dB at 18 GHz
	Att. variation with temp.	Att. (at X°C) = att.(at 20°C) x (1 + (X - 20) x 0.002)			Att. (at X°C) = att.(at 20°C) x (1 + (X - 20) x 0.002)		
Mechanical	Maximum weight	41 g/m ; 12.5 g/ft	44 g/m - 13.3 g/ft	92 g/m - 28.04 g/ft	280 g/m ; 84.8 g/ft	51 g/m - 15.4 g/ft	100 g/m - 30.48 g/ft
	Min. bend radius	25 mm ; 0.984 inch	25 mm - 0.984 inch	40 mm - 1.575 inch	60 mm ; 2.362 inches	25 mm - 0.984 inch	40 mm - 1.575 inch
	Crush resistance	> 200 N / 100 mm	> 200 N / 100 mm	> 200 N / 100 mm	> 600 N / 100 mm	> 400 N / 100 mm	> 400 N / 100 mm
Environmental	Operating temp. range (*)	-70 / +200° C -94 / +392° F	-70 / +200° C -94 / +392° F	-70 / +200° C -94 / +392° F	-70 / +200° C -94 / +392° F	-70 / +200° C -94 / +392° F	-70 / +200° C -94 / +392° F
	Flammability	JAR25/FAR25 853	JAR25/FAR25 853	JAR25/FAR25 853	JAR25/FAR25 853	JAR25/FAR25 853	JAR25/FAR25 853
	Halogen free jacket	No	No	No	No	No	No
	Fluid resistence	RTCADO 160 ; MIL DTL 87104	RTCADO 160 ; MIL DTL 87104	RTCADO 160 ; MIL DTL 87104	RTCADO 160 ; MIL DTL 87104	RTCADO 160 ; MIL DTL 87104	RTCADO 160 ; MIL DTL 87104
Frequency/Attenuation	1 (dB /m - dB /ft)	0.25 - 0.08	0.23 - 0.07	0.15 - 0.04	0.09 - 0.03	0.46 - 0.14	0.3 - 0.09
	2	0.36 - 0.11	0.32 - 0.1	0.21 - 0.06	0.14 - 0.04	0.57 - 0.17	0.37 - 0.11
	4	0.52 - 0.16	0.46 - 0.14	0.3 - 0.09	0.2 - 0.06	0.66 - 0.2	0.44 - 0.13
	6	0.65 - 0.2	0.57 - 0.17	0.37 - 0.11	0.26 - 0.08	0.84 - 0.26	0.55 - 0.17
	8	0.76 - 0.23	0.66 - 0.2	0.44 - 0.13	0.3 - 0.09	1.02 - 0.31	0.68 - 0.21
	12.4	0.98 - 0.3	0.84 - 0.26	0.55 - 0.17		1.27 - 0.39	0.85 - 0.26
	18	1.21 - 0.37	1.02 - 0.31	0.68 - 0.21		1.4 - 0.43	0.95 - 0.29
	26.5	1.51 - 0.46	1.27 - 0.39			1.59 - 0.49	
	32	1.69 - 0.51					
	40						
	Attenuation calculation (dB/m)	(0.242 x √F GHz) + (0.01 x F GHz)	(0.22 x √F GHz) + (0.005 x F GHz)	(0.14 x √F GHz) + (0.005 x F GHz)	(0.087 x √F GHz) + (0.007 x F GHz)	(0.22 x √F GHz) + (0.005 x F GHz)	(0.14 x √F GHz) + (0.005 x F GHz)