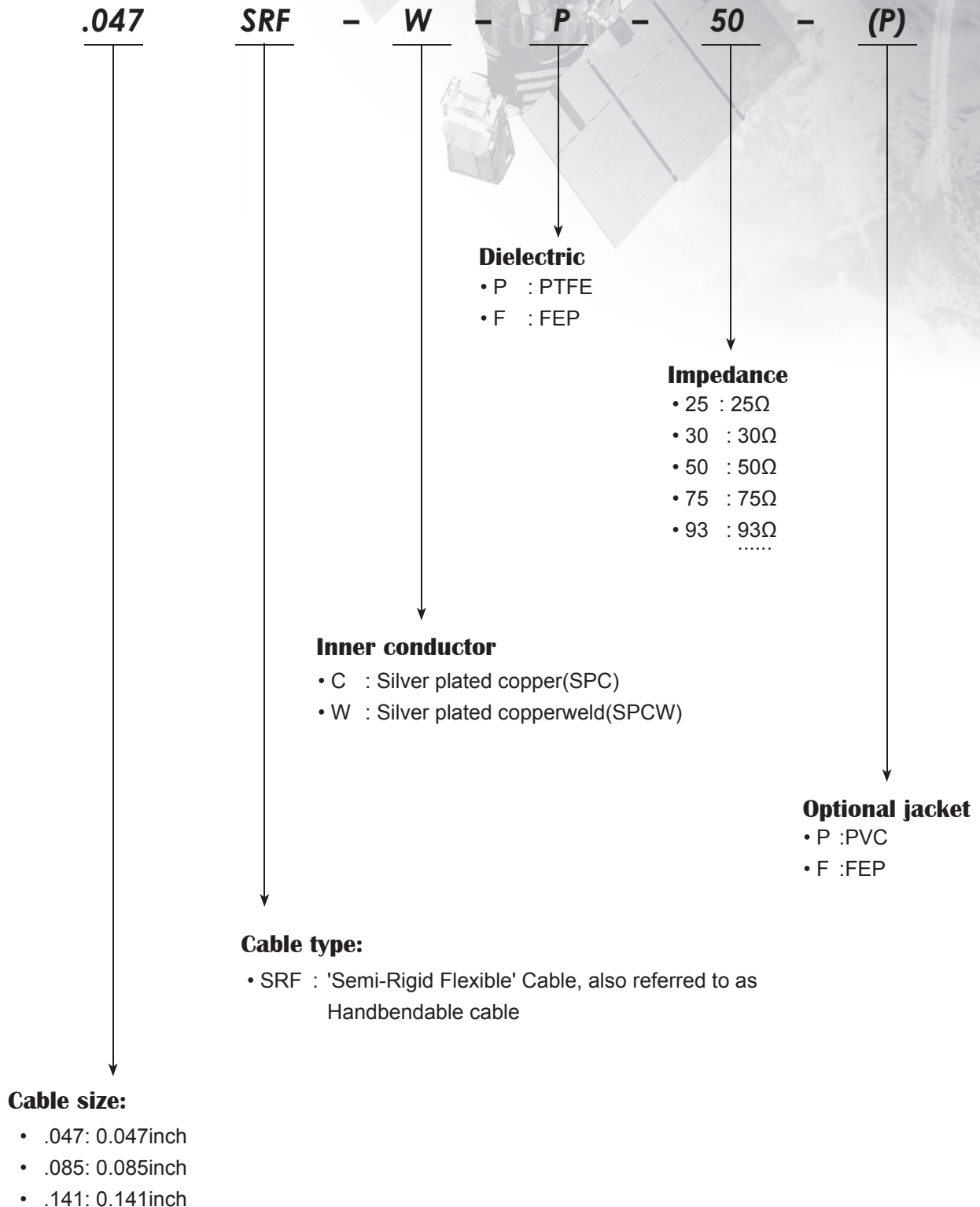


HANDBENDABLE COAXIAL CABLE

HANDBENDABLE CABLE PART NUMBERING SYSTEM



CABLE

50 Ohm Handbendable Coaxial Cable

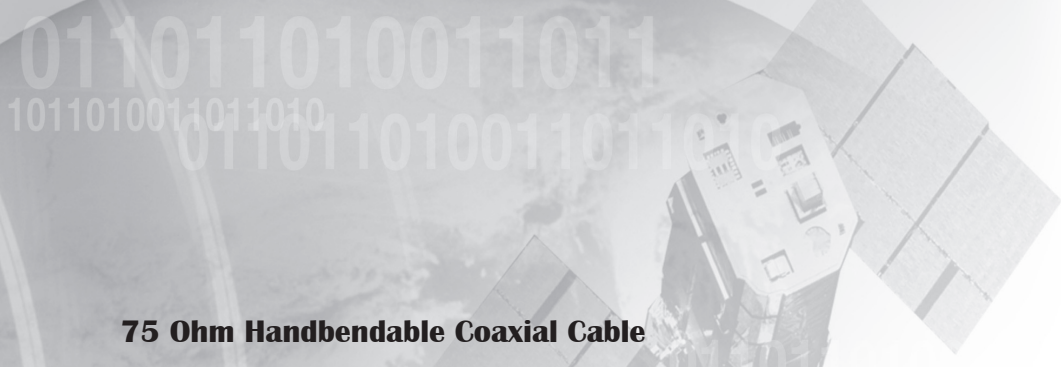
Part Number	.034SRF-W-P-50	.047SRF-W-P-50	.085SRF-W-P-50	.085SRF-W-P-50-F			
DIMENSIONS							
Center Conductor Diameter							
(inch)	0.008±0.0005	0.0113±0.0005	0.0201±0.0005	0.0201±0.0005			
(mm)	0.20 ± 0.0127	0.29 ± 0.0127	0.51 ± 0.0127	0.51 ± 0.0127			
Dielectric Diameter							
(inch)	0.026±.001	0.037±0.001	0.066±0.001	0.066±0.001			
(mm)	0.66 ±0.0254	0.94 ±0.0254	1.68 ±0.0254	1.68 ±0.0254			
Outer Conductor Diameter							
(inch)	0.034±0.002	0.047±0.002	0.0865±0.002	0.0865±0.002			
(mm)	0.86 ±0.0508	1.19 ±0.0508	2.20 ±0.0508	2.20 ±0.0508			
Jacket							
(inch)	/	/	/	0.105			
(mm)	/	/	/	2.67			
MATERIAL SPECIFICATIONS							
Jacket				FEP			
Outer Conductor	Cu/Sn Braided	Cu/Sn Braided	Cu/Sn Braided	Cu/Sn Braided			
Dielectric	PTFE	PTFE	PTFE	PTFE			
Center Conductor	SPCW	SPCW	SPCW	SPCW			
ELECTRICAL CHARACTERISTICS							
Impedance	50±2.5	50±2.5	50±2	50±2			
Velocity of Propagation	70%	70%	70%	70%			
Capacitance (Nominal)							
(pF/ft)	29.0	29.0	29.0	29.0			
(pF/m)	95.1	95.1	95.1	95.1			
Corona Extinction Voltage							
(VRMS 60Hz)	750	1000	1500	1500			
Voltage Withstanding							
(VRMS 60Hz)	2000	2000	5000	5000			
Cut off Frequency (GHz)	155	109	61	61			
Typical Attenuation (dB/100Ft) Average	Attenuation	Attenuation	Power	Attenuation	Power	Attenuation	Power
Power (Watts CW) at 40°C Ambient							
Still Air							
0.5GHz	42	25	5	15	140	15	140
1GHz	60	36	32.5	22	100	22	100
5GHz	140	86	20	41	42	41	42
10GHz	/	128	13	83	28	83	28
20GHz	/	192	10.5	126	19	126	19
MECHANICAL CHARACTERISTICS							
Max. Operating Temperature (°C)	200	200	200	200			
Min. Bend Radius							
(inch)	0.1	0.125	0.125	0.125			
(mm)	2.54	3.18	3.18	3.18			
Weight							
(g/Ft)	/	1.5	3.8	4.7			
(g/M)	/	4.9	12.5	15.5			

CABLE

50 Ohm Handbendable Coaxial Cable

Part Number	.141SRF-W-P-50		.141SRF-W-P-50-F		.250SRF-C-P-50		.250SRF-C-P-50-F	
DIMENSIONS								
Center Conductor Diameter								
(inch)	0.0359±0.0010		0.0359±0.0010		0.0641±0.0010		0.0641±0.0010	
(mm)	0.91 ± 0.0254		0.91 ± 0.0254		1.63 ± 0.0254		1.63 ± 0.0254	
Dielectric Diameter								
(inch)	0.1175±0.001		0.1175±0.001		0.209±0.002		0.209±0.002	
(mm)	2.98 ±0.0254		2.98 ±0.0254		5.31 ±0.0508		5.31 ±0.0508	
Outer Conductor Diameter								
(inch)	0.141±0.002		0.141±0.002		0.250±0.004		0.250±0.004	
(mm)	3.58 ±0.0508		3.58 ±0.0508		6.35 ±0.1016		6.35 ±0.1016	
Jacket								
(inch)	/		0.168		/		2.68±0.4	
(mm)	/		4.27		/		6.80±1.0	
MATERIAL SPECIFICATIONS								
Jacket	/		FEP		/		FEP	
Outer Conductor	Cu/Sn Braided		Cu/Sn Braided		Cu/Sn Braided		Cu/Sn Braided	
Dielectric	PTFE		PTFE		PTFE		PTFE	
Center Conductor	SPCW		SPCW		SPC		SPC	
ELECTRICAL CHARACTERISTICS								
Impedance	50±2		50±2		50±2		50±2	
Velocity of Propagation	70%		70%		70%		70%	
Capacitance (Nominal)								
(pF/ft)	29.0		29.0		29.0		29.0	
(pF/m)	95.1		95.1		95.1		95.1	
Corona Extinction Voltage								
(VRMS 60Hz)	1900		1900		3000		3000	
Voltage Withstanding								
(VRMS 60Hz)	5000		5000		7500		7500	
Cut off Frequency (GHz)	34		34		19		19	
Typical Attenuation (dB/100Ft)	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power
Average Power (Watts CW) at 40°C								
Ambient Still Air								
0.5GHz	8	495	8	495	4.4	1500	4.4	1650
1GHz	12	345	12	345	6.7	960	6.7	1040
5GHz	30.4	136	30.4	136	18	415	18	450
10GHz	45	95	45	95	30	290	30	315
18GHz	65	64	65	64	43	200	43	236
MECHANICAL CHARACTERISTICS								
Max. Operating Temperature (°C)	200		200		200		200	
Min. Bend Radius								
(inch)	0.375		0.375		1.18		1.18	
(mm)	9.53		9.53		30		30	
Weight								
(g/Ft)	12.7		15.4		38.1		51.2	
(g/M)	41.7		50.5		125		168	

CABLE



75 Ohm Handbendable Coaxial Cable

Part Number	.085SRF-W-F-75		.085SRF-W-F-75-F		.141SRF-W-P-75		.141SRF-W-P-75-F	
DIMENSIONS								
Center Conductor Diameter								
(inch)	0.0113±0.0005		0.0113±0.0005		0.0201±0.0005		0.0201±0.0005	
(mm)	0.287 ± 0.0127		0.287 ± 0.0127		0.51 ± 0.0127		0.51 ± 0.0127	
Dielectric Diameter								
(inch)	0.064±.001		0.064±.001		0.1175±0.001		0.1175±0.001	
(mm)	1.6256 ±0.0254		1.6256 ±0.0254		2.98 ±0.0254		2.98 ±0.0254	
Outer Conductor Diameter								
(inch)	0.0865±0.002		0.0865±0.002		0.141±0.001		0.141±0.001	
(mm)	2.20 ±0.0508		2.20 ±0.0508		3.58 ±0.0254		3.58 ±0.0254	
Jacket								
(inch)	/		0.105		/		0.168	
(mm)	/		2.67		/		4.27	
MATERIAL SPECIFICATIONS								
Jacket			FEP				FEP	
Outer Conductor	Cu/Sn Braided		Cu/Sn Braided		Cu/Sn Braided		Cu/Sn Braided	
Dielectric	FEP		FEP		PTFE		PTFE	
Center Conductor	SPCW		SPCW		SPCW		SPCW	
ELECTRICAL CHARACTERISTICS								
Impedance	75±2		75±2		75±2		75±2	
Velocity of Propagation	70%		70%		/		/	
Capacitance (Nominal)								
(pF/ft)	19.50		19.50		19.3		19.3	
(pF/m)	63.96		63.96		63.5		63.5	
Corona Extinction Voltage								
(VRMS 60Hz)	1500		1500		2000		2000	
Voltage Withstanding								
(VRMS 60Hz)	5000		5000		5000		5000	
Cut off Frequency (GHz)	64		64		38		38	
Typical Attenuation (dB/100Ft) Average	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power
Power (Watts CW) at 40°C Ambient Still								
Air								
0.4GHz	13.7	190	13.7	206	8.80	639	8.80	674
0.8GHz	19.8	134	19.8	145	12.5	452	12.5	476
1.2GHz	25.0	110	25.0	119	15.2	369	15.2	389
1.6GHz	29.3	95	29.3	103	17.7	319	17.7	337
2.0GHz	32.9	85	32.9	92	19.8	286	19.8	301
2.4GHz	36.6	77	36.6	84	21.9	261	21.9	275
2.8GHz	39.9	72	39.9	78	23.8	241	23.8	255
3.2GHz	43.3	67	43.3	73	25.3	226	25.3	238
3.6GHz	46.3	63	46.3	69	26.8	213	26.8	225
4.0GHz	49.1	60	49.1	65	28.3	202	28.3	213
MECHANICAL CHARACTERISTICS								
Max. Operating Temperature Range(°C)	200		200		200		200	
Min. Bend Radius								
(inch)	0.125		0.125		0.375		0.375	
(mm)	3.18		3.18		9.53		9.53	
Weight								
(g/Ft)	3.8		4.7		12.7		15.4	
(g/M)	12.47		15.42		41.66		50.52	

CABLE