

CABLE PART NUMBER	DB142	HP160s	M17/130-RG402	LMR195	BPE195	T-Flex402HF	SI142	SM402	LMR200	BPE200	SW180	LMR240	BPE240	HP190s	RH200	LMR300	BPE300	HP305s	RH280	LA290	KW430	LMR400	BPE400	HP450	KW530	LMR500	BPE500	LMR600	BPE600	KW800	
Generic Cable Type			RG-402			SR Replacement		SR Replacement																							
CONSTRUCTION																															
Center Conductor	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Stranded	Solid	Solid	Solid	Solid	Solid	Solid	
Size, Nom (in)	.036	.036	.036	.037	.037	.036	.036	.036	.044	.044	.051	.056	.056	.051	.051	.070	.070	.078	.078	.089	.114	.109	.109	.129	.144	.142	.142	.176	.176	.245	
Material	SPCCS	SPC	SPCCS	BC	BC	SPC	SPCCS	SPCCS	BC	BC	SPC	BC	BC	SPC	SPC	BC	BC	SPC	SPC	SPC	CCA	CCA	CCA	SPC	CCA	CCA	CCA	CCA	CCA		
Dielectric	Solid	Low Density	Solid	Cellular	Micro-Cell	Solid	Solid	Solid	Cellular	Micro-Cell	Low Density	Cellular	Micro-Cell	Low Density	Low Density	Cellular	Micro-Cell	Low Density	Low Density	Low Density	Low Density	Cellular	Micro-Cell	Low Density	Low Density	Cellular	Micro-Cell	Cellular	Micro-Cell	Low Density	
Size, Nom (in)	.116	.108	.118	.110	.110	.118	.116	.116	.116	.116	.151	.150	.150	.151	.153	.190	.190	.242	.230	.235	.315	.285	.285	.357	.405	.370	.370	.450	.450	.670	
Material	PTFE	PTFE	PTFE	PE	PE	PTFE	PTFE	PTFE	PE	PE	PTFE	PE	PE	PTFE	PTFE	PE	PE	PTFE	PTFE	PTFE	PTFE	PE	PE	PTFE	PTFE	PE	PE	PE	PE	PTFE	
Outer Conductor																															
First Shield	Flat Braid	Flat Braid	Tube	Foil	Foil	Helical Braid	Flat Braid	Helical Braid	Foil	Foil	Flat Braid	Foil	Foil	Flat Braid	Helical Braid	Foil	Foil	Flat Braid	Helical Braid	Helical Braid	Flat Braid	Foil	Foil	Flat Braid	Flat Braid	Foil	Foil	Foil	Foil	Flat Braid	
Size, Nom (in)	.128	.120	.141	.116	.116	.128	.128	.116	.121	.121	.163	.155	.155	.163	.161	.196	.196	.248	.238	.249	.327	.291	.291	.369	.417	.376	.376	.461	.461	.685	
Material	SPC	SPC	BC	Aluminum	Aluminum	SPC	SPC	SPC	Aluminum	Aluminum	SPC	Aluminum	Aluminum	SPC	SPC	Aluminum	Aluminum	SPC	SPC	SPC	SPC	Aluminum	Aluminum	SPC	SPC	Aluminum	Aluminum	Aluminum	Aluminum	SPC	
Interlayer		Foil					Foil							Foil				Foil						Foil							
Size, Nom (in)		.129					.137							.172				.256						.378							
Material		Metalized					Metalized							Metalized				Metalized						Metalized							
Second Shield																															
Size, Nom (in)	.144	.145	.139	.139	.141	.141	.153	.141	.144	.144	.180	.178	.178	.188	.177	.225	.225	.273	.254	.267	.343	.320	.320	.403	.433	.405	.405	.490	.490	.697	
Material	SPC	SPC	TPC	TPC	SPC	SPC	SPC	SPC	TPC	TPC	SPC	TPC	TPC	SPC	SPC	TPC	TPC	SPC	SPC	SPC	SPC	TPC	TPC	SPC	SPC	TPC	TPC	TPC	TPC	SPC	
Jacket																															
Size, Nom (in)	.165	.160	.195	.195	.160	.175	.161	.200	.195	.196	.240	.240	.205	.200	.300	.300	.305	.280	.292	.430	.405	.405	.450	.530	.500	.500	.590	.590	.800		
Material	FEP	FEP	PE	PE	FEP	FEP	FEP	PE	PE	FEP	PE	PE	PE	FEP	PE	PE	FEP	FEP	FEP	Polyurethane	PE	PE	PE	FEP	Polyurethane	PE	PE	PE	PE	Polyurethane	
MECHANICAL CHARACTERISTICS																															
Max Operating Temp (°C)	125	200	125	85	85	125	125	125	85	85	200	85	85	200	200	85	85	200	200	200	85	85	85	200	85	85	85	85	85	85	
Min Inside Bend Radius (in)	1.10	.9	.25	.50	.50	.80	1.10	.25	.50	.50	1.0	.75	.75	1.1	1.00	.75	.75	1.8	1.40	1.60	2.2	1.00	1.00	2.5	2.5	1.25	1.25	1.50	1.50	4.0	
Weight (lbs/ft)	.050	.04	.034	.022	.022	.035	.050	.033	.022	.022	.050	.034	.034	.05	.051	.055	.055	.09	.078	.090	.15	.068	.068	.20	.20	.097	.097	.131	.131	.30	
ELECTRICAL CHARACTERISTICS																															
Impedance, Nom. (ohms)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
Breakdown Voltage (kv)	5	7	1.9			1.9	5	5			10			10	10			15	15	15	17			20	20					25	
Maximum Frequency (GHz)	18	40	20	6	6	18	18	18	6	6	28	6	6	28	28	6	6	18	18	20	14	6	6	12	11	6	6	6	6	6	
Velocity of Propagation	70%	76%	70%	80%	80%	70%	70%	70%	83%	83%	77%	84%	84%	76.5%	76.5%	85%	85%	77%	77%	85%	83%	85%	85%	78%	83%	86%	86%	87%	87%	85%	
Shielding Effectiveness (dB)	85	90	100	90	90	100	85	100	90	90	85	90	90	90	100	90	90	90	100	100	85	90	90	90	85	85	90	90	90	85	
ATTENUATION (dB/100ft) at 25° C																															
Frequency (GHz) at 25° C																															
.10	3.60	3.74		3.62	3.62	3.42	3.40	3.40	3.24	3.24	2.77	2.45	2.45	2.39	2.27	1.95	1.95	1.54	1.47	1.35	1.27	1.25	1.25	1.12	1.01	0.99	0.99	0.78	0.78	0.62	
.40	7.45	7.56	7.20	7.33	7.33	7.08	7.04	7.04	6.55	6.55	5.61	4.97	4.97	4.85	4.61	3.97	3.97	3.16	3.00	2.73	2.61	2.55	2.55	2.32	2.09	2.04	2.04	1.62	1.61	1.31	
.90	11.55	11.46		11.13	11.13	10.98	10.93	10.93	9.92	9.92	8.53	7.56	7.56	7.38	7.01	6.05	6.05	4.85	4.61	4.13	4.03	3.90	3.90	3.59	3.25	3.13	3.13	2.50	2.50	2.08	
1.0	12.24	12.10	12.00	11.75	11.76	11.64	11.59	11.59	10.48	10.48	9.02	7.99	7.99	7.80	7.41	6.40	6.40	5.13	4.88	4.35	4.26	4.13	4.13	3.80	3.44	3.31	3.31	2.65	2.65	2.21	
2.0	18.05	17.33	17.00	16.90	16.90	17.16	17.12	17.12	15.01	15.01	12.98	11.49	11.49	11.24	10.68	9.24	9.24	7.47	7.11	6.22	6.24	5.99	5.99	5.58	5.08	4.84	4.84	3.90	3.90	3.34	
3.0	22.80	21.44		20.96	20.96	21.67	21.65	21.65	18.57	18.57	16.11	14.25	14.25	13.95	13.26	11.50	11.50	9.35	8.90	7.69	7.85	7.47	7.48	7.04	6.43	6.07	6.07	4.92	4.92	4.29	
5.0	30.85	28.11	29.00	27.58	27.58	29.33	29.34	29.34	24.34	24.34	21.24	18.77	18.77	18.41	17.49	15.22	15.22	12.49	11.90	10.05	10.55	9.94	9.95	9.49	8.71	8.13	8.13	6.64	6.64	5.95	
6.0	34.46	30.99		30.46	30.46	32.76	32.79	32.79	26.84	26.84	23.48	20.73	20.73	20.35	19.34	16.85	16.85	13.88	13.22	11.07	11.75	11.03	11.03	10.59	9.73	9.04	9.04	7.41	7.41	6.71	
10.0	47.32	40.86	44.00			45.00	45.13	45.13			31.19			27.06	25.71			18.75	17.87	14.55	16.00			14.48	13.39						
12.0	53.16	45.16				50.55	50.73	50.73			34.58			30.01	28.51			20.93	19.95	16.06	17.92			16.24							
14.0	58.72	49.17	54.00			55.85	56.09	56.09			37.76			32.78	31.15			22.99	21.92	17.46	19.74										
18.0	69.26	56.56	64.00			65.87	66.23	66.23			43.64			37.91	36.02			26.85	25.61	20.04											
24.0		66.54									51.66			44.90	42.67																
30.0		75.59																													
40.0		89.32																													
50.0																															
k1	10.980	11.720			11.285		10.350	10.350		10.148	8.624		7.655	7.450	7.078		6.069	4.760	4.522	4.240	3.894		3.867	3.440	3.079		3.054	2.389	1.845		
k2	1.260	.380			.470		1.240	1.240		.330	.392		.330	.350	.333		.330	.370	.357	.114	.369		.260	.360	.365		.260	.260	.365		
POWER HANDLING (KW)																															
Frequency (GHz) at 25° C, sea level																															
.45			.66	.22	.22	.72			.26	.26		.38	.38		.52	.52					9.80	.83	.83		15.40	.85	.85	1.10	1.10	21.30	
.50	.29						.29	.92			2.47			3.1	3.10			6.4	6.40					12.1							